Corrective Action Plan

Air Dispersion Modeling Analysis

New-Indy Catawba, LLC – Catawba, SC Mill

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1. INTRODUCTION

New-Indy Catawba, LLC (New-Indy) submits this air dispersion modeling analysis in response to paragraph 5 of the Order to Correct Undesirable Level of Air Contaminants (Order) issued by the South Carolina Department of Health and Environmental Control (SCDHEC or DHEC) on May 7, 2021. This report has been revised to address comments on the original August 30 report received from SCDHEC and the United States Environmental Protection Agency (U. S. EPA or EPA) on September 10, September 14, September 17 and October 6. The New-Indy Catawba responses to all comments are included in Appendix C.

By way of background, until late 2020, New-Indy and its predecessor owners of the mill in Catawba, South Carolina (Facility or Mill) produced bleached paper, operating under Title V Operating Permit (TVOP) #2440-0005, issued on May 7, 2019 and effective on July 1, 2019. Given the substantial decrease in demand for such paper, the Mill was becoming more economically unviable. Thus, New-Indy made the decision to convert from producing bleached white paper to unbleached containerboard at the Mill. Commencing in spring 2020, the Mill replaced the outdated bleached paper-making equipment with state-of-the-art equipment to make lightweight ultra-high strength containerboard and retrained its union workforce to operate and maintain this very sophisticated Facility. The Mill began post-project operations on February 1, 2021. In late January and February, New-Indy and DHEC began receiving complaints from local citizens regarding odors.

Per paragraph 5 of the Order, New-Indy was required to perform testing and evaluation of total reduced sulfur (TRS), hydrogen sulfide (H_2S), and sulfur dioxide (SO_2) emissions at the Mill. Tests to verify emissions estimates included TRS, H_2S, and SO_2 emissions from the following stacks or vents:

- Paper Machine 2 and 3 vents
- Kraft non-condensable gases (NCG) system, including evaporator sets
- Pulp Dryer
- Steam Stripper inlet and outlet and combustion boiler outlet

To comply with paragraph 5 of the Order, New-Indy conducted a facility-wide air dispersion modeling analysis of TRS, H_2S, and SO_2 emissions. This facility-wide air dispersion modeling analysis includes the following sections:

- **Section 1: Introduction** - provides general information regarding the Mill and the purpose of the air dispersion modeling analysis.
- **Section 2: Background** - provides an overview of the Mill's current configuration and operations.
- **Section 3: Emissions Inventory** - provides an inventory for all Mill sources of TRS, H_2S, and SO_2 emissions. Documentation describing the emissions estimation methods and sample calculations is provided in Appendix A.
- **Section 4: Air Dispersion Modeling Requirements** - provides a review of state air quality regulations applicable to paragraph 5 of the Order.
- **Section 5: Air Dispersion Modeling Analysis** - provides the air quality modeling analysis conducted to satisfy paragraph 5 of the Order. Supporting materials are provided in Appendix B.
- **Appendix A – Emissions Calculations**
- **Appendix B – Modeling Files**

2. BACKGROUND

New-Indy operates a kraft pulp and paper mill located at 5300 Cureton Ferry Rd, Catawba, South Carolina, in York County. The Mill operates under TVOP #2440-0005 that was issued by DHEC on May 7, 2019, became effective on July 1, 2019, and expires on June 30, 2024. New-Indy was issued Construction Permit #2440-0005-DF on July 23, 2019, in accordance with state and federal air quality regulations and standards, to allow the Mill to modify its processes to convert from bleached paper production to brown paper production. The construction permit was revised on May 13, 2020 to allow the Mill to hard pipe its condensates to the wastewater treatment plant. 40 CFR Part 63, Subpart S, the National Emission Standards for Hazardous Air Pollutants (NESHAP) from the Pulp and Paper Industry, allows this hard piping as a compliance option. New-Indy began post-project operations of the Mill as an integrated pulp and paper facility manufacturing brown paper on February 1, 2021.

In response to the odor complaints, on March 12, 2021, New-Indy began consultation with LDX Solutions (LDX) regarding utilization of the steam stripper as opposed to hard piping the foul condensate. With the approval of DHEC, New-Indy returned the foul condensate steam stripper to operation on May 3, 2021.

DHEC issued the Order to New-Indy to correct undesirable levels of air contaminants. Paragraph 5 of the Order requires New-Indy to perform testing and evaluation of TRS, H_2S, and SO_2 emissions at the Mill, and submit a facility-wide air dispersion modeling analysis of TRS, H_2S, and SO_2 emissions. The required testing was performed June 21-27, 2021.

2.1 MILL LOCATION

The Mill is located in York County on the west bank of the Catawba River, approximately one kilometer (km) southeast of the unincorporated community of Catawba and 14 km southeast of the city of Rock Hill, South Carolina. The geographical coordinates for the approximate center of the Mill are:

- Universal Transverse Mercator (UTM) Easting: 509,741 meters (m)
- UTM Northing: 3,855,660 m
- UTM Zone: 17
- North American Datum (NAD): 1983
- Longitude (degrees, minutes, seconds): 80° 53' 36.43" W
- Latitude (degrees, minutes, seconds): 34° 50' 35.52" N

A facility location map of the Mill is provided as Figure 2-1. York County is located in the Piedmont, characterized by low rolling hills and complex terrain. Elevations vary from approximately 130 m to 230 m above mean sea level (AMSL) within 10 km of the Mill, with higher elevations to the west. Topography surrounding the Mill is presented in Figure 2-2. The area within 3 km of the Mill is predominantly agricultural and rural.

2.2 MILL BACKGROUND

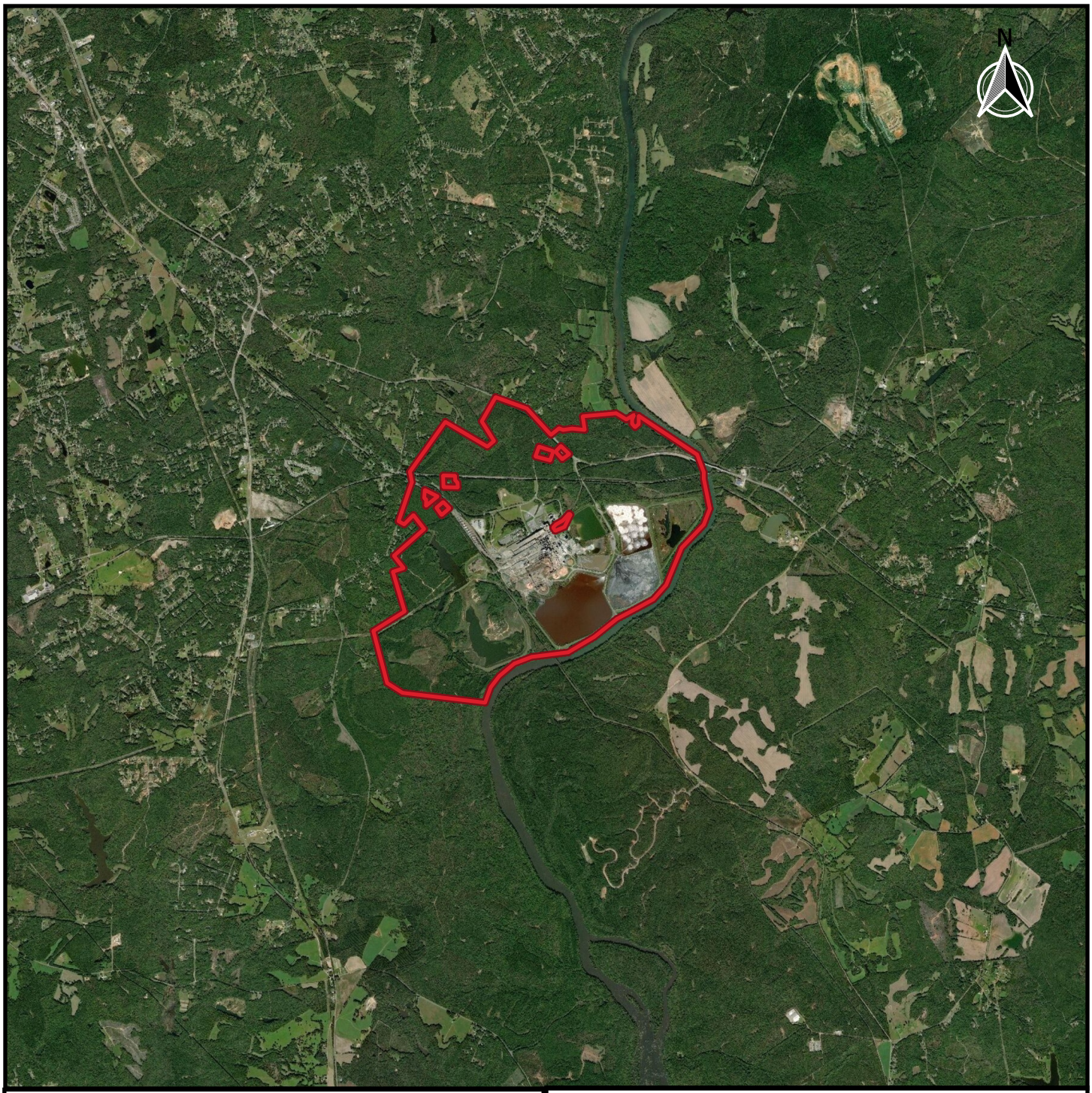
The Mill is under the jurisdiction of the following state and federal agencies:

South Carolina Department of Health and Environmental Control
Bureau of Air Quality
2600 Bull Street
Columbia, SC 29201

United States Environmental Protection Agency - Region 4
Sam Nunn Atlanta Federal Center
61 Forsyth Street, SW
Atlanta, GA 30303

The original pulp mill was constructed in 1959, which included a woodyard area for the processing of raw material, a kraft mill to chemically process wood chips into pulp, a pulp dryer, a chemical recovery area to recycle process chemicals, a utilities area to generate steam and electricity, a waste treatment area, and other operations.

In 1962, a paper machine (No. 1 paper machine) and a groundwood pulping process were added to the facility to facilitate the production of paper. In 1968, an additional paper machine (No. 3 paper machine) was installed and the groundwood pulping process was expanded. In 1978, a thermo-mechanical pulping (TMP) process was added to the facility. In 1986, the groundwood and TMP pulping processes were eliminated, while a new paper machine (No. 2 paper



Legend

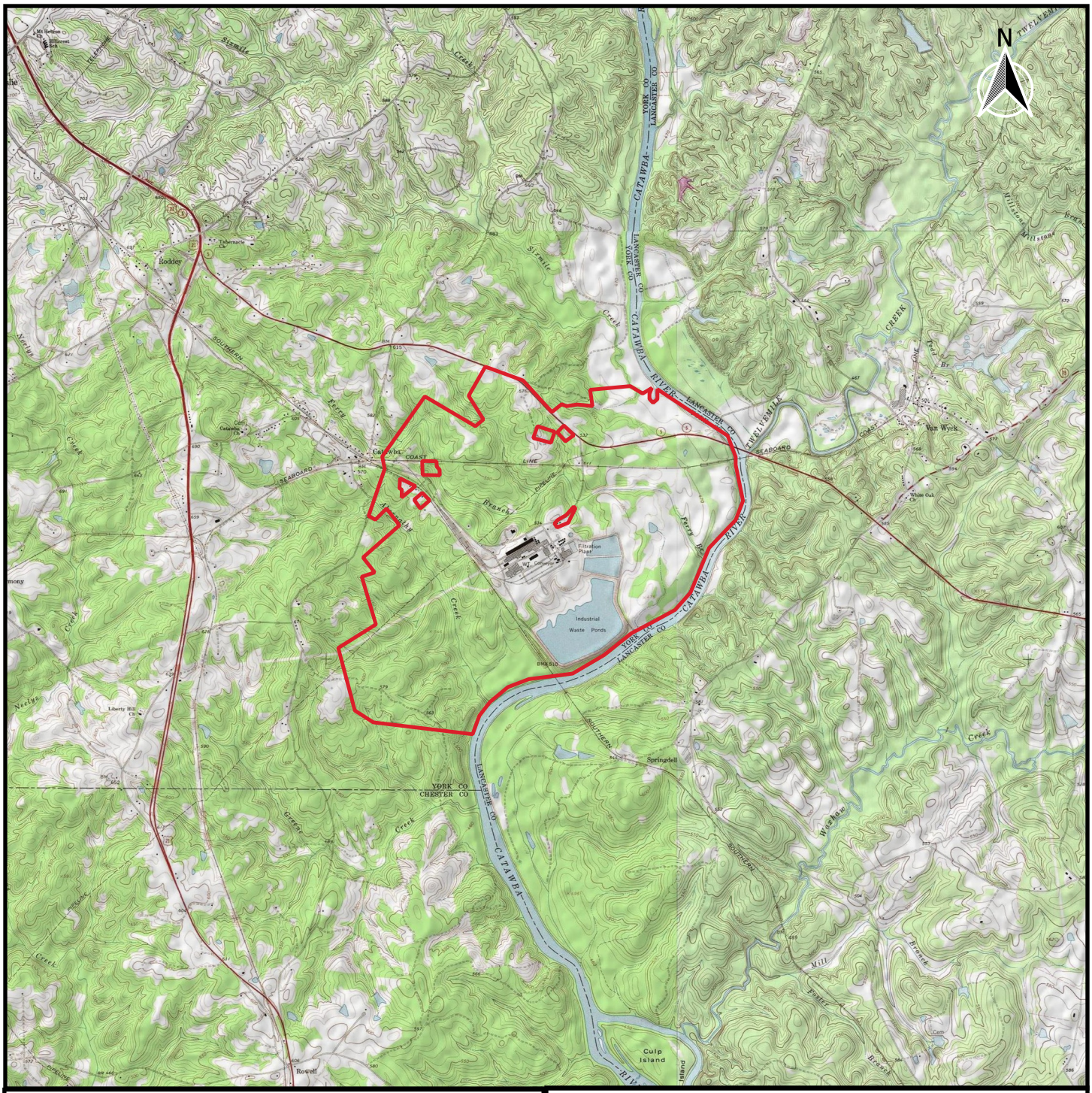
Property Boundary

0 1 2 3 4 5 km

Aerial imagery obtained from Bing Virtual Earth

New-Indy Catawba, LLC
Catawba, SC Mill
Air Dispersion Modeling Analysis

Figure 2-1
Mill Location



Legend

Property Boundary

0 1 2 3 4 5 km

Aerial imagery obtained from Bing Virtual Earth

New-Indy Catawba, LLC
Catawba, SC Mill
Air Dispersion Modeling Analysis

Figure 2-2
Topographical Map

machine) was installed to increase the production of paper, and a new TMP process was added to replace the original TMP process.

In 2003, the original kraft pulping system and bleach plant were replaced with a state-of-the-art kraft fiber line and bleaching system. In addition, the No. 3 paper machine was converted from newsprint to coated paper production, and the TMP was re-configured to support only coated paper production. In 2011, the kraft pulping system and bleaching system were modified to increase production, while using the same amount of wood furnish and cooking chemicals.

In 2020, the Mill was converted from manufacturing bleached pulp, suitable for manufacturing bleached lightweight coated paper and market pulp, to unbleached pulp, suitable for manufacturing linerboard and other unbleached pulp and paper products. The conversion resulted in retirement of the bleaching system, the TMP plant, the No. 1 paper machine and several other operations. Although not currently running, the No. 2 paper machine remains permitted and is in standby for potential future use, as markets allow.

2.3 MILL PROCESS DESCRIPTION

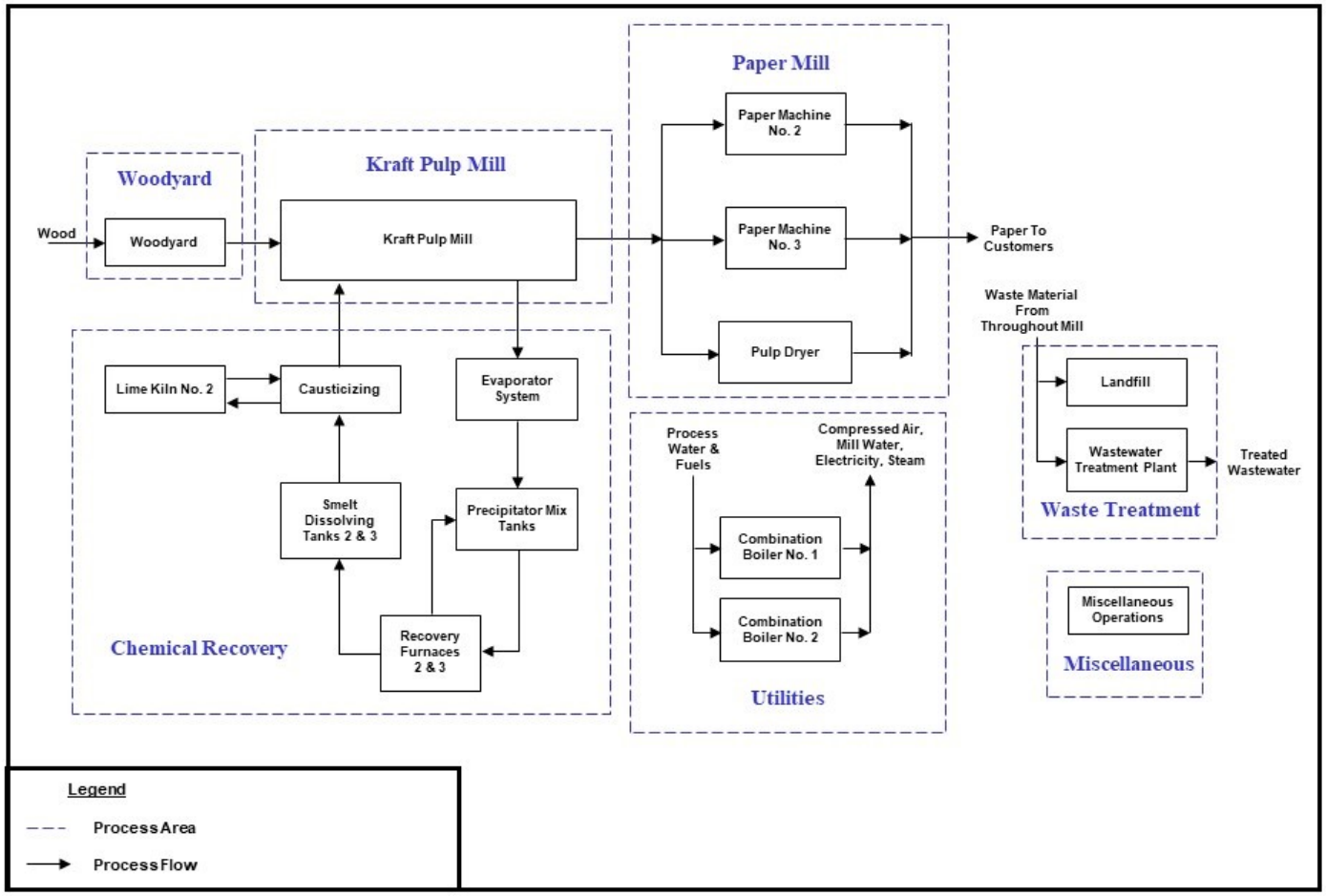
The Mill is comprised of seven distinct process areas, which include the following: the woodyard area, the kraft pulp mill area, the paper mill area, the chemical recovery area, the utilities area, the waste treatment area, and a miscellaneous area. A process flow diagram for these process areas has been included as Figure 2-3. An overall description of the process areas is found below.

The woodyard receives southern pine logs and chips for the Mill. Logs are debarked and chipped, and the chips are screened prior to storage for use within the pulping processes. Likewise, wood chips received at the Mill are screened, and processed as needed, prior to use within the pulping processes.

The kraft (sulfate) process area is used to produce pulp. Pulp from the kraft process is produced from “cooking” wood chips in a caustic solution at an elevated temperature and pressure.

Figure 2-3

Mill Process Flow Diagram



The paper mill area produces linerboard (the outside layer in a corrugated container) on one state-of-the-art paper machine. Unbleached market pulp is produced on one pulp dryer.

The chemical recovery area has recovery furnaces and a causticizing area. The recovery furnaces, which are auxiliary to the kraft process, burn the organics extracted from the chips and recover cooking chemicals. The causticizing area utilizes the chemicals recovered by the recovery furnaces, and after the addition of lime, provides the cooking chemicals for the kraft process.

The utilities area produces steam and electricity for facility-wide use by two combination boilers.

The waste treatment area receives wastewater and mill waste (solid waste) from the previously mentioned areas of the Mill. Wastewater undergoes biological treatment to remove the dissolved organic wastes prior to discharge into the receiving stream. Mill solid waste is deposited within an on-site landfill for disposal.

The miscellaneous areas include everything which is not captured in one of the aforementioned process operating areas, including the facility roads and the pulp storage tanks.

3. EMISSIONS INVENTORY

This section describes the emissions calculations, the basis of emissions factors, and pertinent supporting data for the emissions units that are part of the air dispersion modeling analysis. Additional supporting tables, emissions factors, and related emissions inventory documentation are provided in Appendix A.

3.1 SO_2 EMISSIONS

The SO_2 emissions were determined following the same approach as the air dispersion modeling submitted in November 2016 and approved by DHEC and the U. S. EPA for demonstrating compliance with the SO_2 Data Requirements Rule (DRR). The emissions from No. 6 fuel oil combustion in the combination boilers and recovery furnaces were determined using the actual hourly fuel combustion assuming the maximum sulfur content of the fuel oil. These emissions are presented in Tables A-41 through A-46 of Appendix A.

The SO_2 emissions from the combustion of pulp mill NCG and stripper-off-gases (SOG) were determined based on the June 2021 source testing performed by Weston Solutions, Inc. (Weston) required under Condition 5 of the Order[1]. The SO_2 emissions from each test were divided by the pulp production during the test to establish the emissions factor in pounds of SO_2 per ton of pulp production. The highest average emissions factor from the June 2021 tests was multiplied by the future pulp production rate in the June 2019 and April 2020 Project Columbia construction permit applications (Construction Permit 2440-0005-DF). Detailed emissions calculations for this source based on the source testing conducted in June 2021 are presented in Table A-5 of Appendix A.

The SO_2 emissions from all other fuels and processes were based on the February 2021 Title V permit modification request to incorporate Construction Permit 2440-0005-DF. The SO_2 emissions from the sources retired by Construction Permit 2440-0005-DF (power boiler and paper

[1] Weston Solutions 2021 – "Pulp Dryer, No. 3 Paper Machine Vents, No. 2 and 3 Smelt Dissolving Tank Vents, and No. 1 and 2 Combination Boilers Emission Test Report", October 1, 2021.

machine coaters) are not included. These emissions are presented in Tables A-47 through A-51 of Appendix A.

3.2 TRS AND H_2S EMISSIONS

The H_2S and TRS (as H_2S) emissions are based on site-specific stack test data, site-specific data used in conjunction with published U.S. EPA or National Council for Air and Stream Improvement (NCASI) air emission models or factors, or published NCASI emissions factors. H_2S and TRS (as H_2S) emissions were determined based on source testing performed by Weston required under Condition 5 of the Order for the combustion of pulp mill NCG and SOG, the paper machines and pulp dryer, and the smelt dissolving tanks. The emissions from each test were divided by the pulp production during the test to establish the emissions factor in pounds of H_2S and TRS (as H_2S) per ton of pulp production. The average emissions factor from the June 2021 tests was multiplied by the future production rates in the June 2019 and April 2020 Project Columbia construction permit applications (Construction Permit 2440-0005-DF) and February 2021 Title V permit modification request to incorporate Construction Permit DF. The No. 2 paper machine has yet to be returned to operation following the conversion. The emissions factors from the No. 3 paper machine were used to estimate the H_2S and TRS (as H_2S) emissions from the No. 2 paper machine. Detailed emissions calculations for each source based on the source testing conducted in June 2021 are presented in Tables A-2 through A-6 of Appendix A.

The H_2S and TRS (as H_2S) emissions from the wastewater treatment system were determined based on liquid samples collected in July 2021 under Condition 2 of the Order. The liquid sample results obtained from the analysis methods required by U.S. EPA using the Method Detection Limit for non-detect values were submitted under separate cover on October 5, 2021. The July 2021 liquid sample results are coupled with the NCASI wastewater Hydrogen Sulfide Emissions Simulator (H2SSIM) emissions model for H_2S emissions from the primary clarifier and the aeration stabilization basin (ASB). The U.S. EPA WATER9 air emissions model and information from NCASI Technical Bulletins 956 and 1000 were used to estimate the H_2S emissions from the remaining wastewater system sources. The post aeration basin H_2S emissions were measured at

the outlet of the vent covering the basin. The emissions of the other TRS compounds (methyl mercaptan, dimethyl sulfide and dimethyl disulfide) were calculated using WATER9 and converted into an H_2S basis using the molecular weights of each compound. The average emissions from the wastewater treatment system were divided by the average pulp production during the July 2021 tests and multiplied by the future pulp production rate in the June 2019 and April 2020 Project Columbia construction permit applications (Construction Permit 2440-0005-DF) and the February 2021 Title V permit modification request to incorporate Construction Permit DF. Detailed emissions calculations for each source based on the liquid samples from the wastewater treatment system collected in July 2021 are presented in Tables A-7 through A-17 of Appendix A. The WATER9 inputs and model outputs are presented in Tables A-35 through A-40, along with the H2SSIM model inputs and outputs and NCASI information where applicable.

The H_2S and TRS (as H_2S) emissions from all other processes are based on the February 2021 Title V permit modification request to incorporate Construction Permit DF. Detailed emissions calculations for each source from the Title V permit modification request are reproduced in Tables A-18 through A-34 of Appendix A.

4. AIR DISPERSION MODELING REQUIREMENTS

To satisfy Condition 5 of the Order, the Mill has reviewed DHEC air quality regulations to evaluate applicability to the air dispersion modeling analysis. DHEC has promulgated air pollution control standards under Regulation 61-62.5. This air dispersion modeling analysis addresses requirements under Regulation 61-62.5 Standard No. 2 and Standard No. 8. Although the regulations specifically apply to facilities requesting an air quality permit from the BAQ, and not to the Order, the air dispersion modeling analysis followed the regulatory guidance as part of the compliance demonstration.

The current Clean Air Act (CAA) Section 107 attainment status designations for areas within the state of South Carolina are summarized in 40 CFR §81.341. York County is in attainment or unclassifiable/attainment for all regulated NSR pollutants.

4.1 STANDARD NO. 2 – AMBIENT AIR QUALITY STANDARDS

DHEC Regulation 61-62.5 Standard No. 2 sets maximum ambient air quality standards (AAQS) for criteria pollutants, including SO_2. AAQS standards are aligned with National Ambient Air Quality Standards (NAAQS). Appropriate design value background concentrations must be added to model-predicted ambient concentrations from the Facility prior to the determination of compliance when conducting NAAQS air dispersion modeling demonstrations.

4.2 STANDARD NO. 8 – TOXIC AIR POLLUTANTS

DHEC Regulation 61-62.5 Standard No. 8 regulates air toxics and establishes maximum allowable (24-hour average) ambient concentrations (MAAC) for each. Facilities that construct, alter, or add to a source of a regulated air toxic after June 28, 1991 must comply with the standard, which includes a demonstration that ambient concentrations of each air toxic emitted from the facility must not exceed the associated 24-hour average MAACs. The South Carolina Modeling Guidelines for Air Quality Permits (October 2018, revised 4/15/2019) provide an exemption from

demonstrating compliance with Standard No. 8 for sources subject to, and in compliance with, one or more National Emission Standards for Hazardous Air Pollutants (a.k.a. Maximum Achievable Control Technology or MACT Standards). The South Carolina modeling guidelines also exclude lagoons from inclusion in Standard No. 8 compliance demonstrations.

5. AIR DISPERSION MODELING ANALYSIS

To comply with Condition 5 of the DHEC Order, a facility-wide air dispersion modeling analysis was conducted to directly evaluate TRS, H_2S, and SO_2 emissions from the Mill with MAAC standards under DHEC Standard No. 8 and AAQS standards under Standard No. 2. As a MAAC standard does not exist for TRS, TRS was evaluated as H_2S for comparison to Standard No. 8. At the request of DHEC and EPA, New-Indy Catawba also modeled the 1-hour concentrations for H_2S and TRS (as H_2S) and compared the maximum modeled concentrations to the EPA 30-minute action level of 600 ppb (837 $\mu g/m^3$).

Modeled emissions rates were determined by permitted emissions rates and emissions estimates verified during the source testing conducted in June 2021 for the No. 2 and No. 3 paper machines, kraft NCGs (including evaporator sets), the pulp dryer, and the steam stripper and combustion boilers outlet. Modeled emissions accounted for possible fugitive emissions associated with the wastewater pond, holding pond, basins, and other wastewater systems.

A summary of the emissions rates and modeling approach used in, and the results of, the compliance demonstration are presented in the subsequent sections. Supporting information related to the air quality modeling analysis is provided in Appendix B.

5.1 EMISSIONS RATES

Emissions rates were calculated based on maximum actual emissions for sources included in the July 2021 stack testing. Emissions rates for remaining sources are based on permitted emissions rates. Detailed emissions calculations for each model source are discussed in Section 3 and are presented in Appendix A.

Modeled emissions rates are presented in Table 5-1.

Table 5-1
New-Indy Catawba, LLC
Modeled Emissions Rates

Model Source ID	Source Description	H_2S	TRS	SO_2[a]	H_2S	TRS	SO_2
		(g/s)	(g/s)	(g/s)	(g/s/m^2)	(g/s/m^2)	(g/s/m^2)
FUTRF2	Recovery Furnace No. 2	2.02E-02	2.96E-02	HOUREMIS	--	--	--
FUTRF3	Recovery Furnace No. 3	3.64E-02	5.35E-02	HOUREMIS	--	--	--
FUTST2	Smelt Dissovling Tank No. 2	4.72E-02	5.73E-02	3.53E-02	--	--	--
FUTST3	Smelt Dissolving Tank No. 3	8.53E-02	1.04E-01	6.43E-02	--	--	--
FUTLK2	Lime Kiln No. 2	1.22E-01	1.22E-01	7.31E-02	--	--	--
FUTCB1	Combination Boiler No. 1	--	--	HOUREMIS	--	--	--
FUTCB2	Combination Boiler No. 2	--	--	HOUREMIS	--	--	--
FUTNCG1	Kraft Mill NCG System	1.60E-02	1.71E-01	8.24E+01	--	--	--
FUTPD	Pulp Dryer	4.34E-03	4.99E-02	0.00E+00	--	--	--
FUTPM2_1	Paper Machine No. 2 - Vent 1	5.38E-03	1.67E-02	0.00E+00	--	--	--
FUTPM2_2	Paper Machine No. 2 - Vent 2	8.89E-03	2.66E-02	0.00E+00	--	--	--
FUTPM2_3	Paper Machine No. 2 - Vent 3	3.84E-03	1.87E-02	0.00E+00	--	--	--
FUTPM3_1	Paper Machine No. 3 - Vent 1	7.40E-03	2.22E-02	0.00E+00	--	--	--
FUTPM3_2	Paper Machine No. 3 - Vent 2	1.51E-02	4.75E-02	0.00E+00	--	--	--
FUTPM3_3	Paper Machine No. 3 - Vent 3	2.02E-02	5.85E-02	0.00E+00	--	--	--
FUTPM3_4	Paper Machine No. 3 - Vent 4	7.44E-03	2.23E-02	0.00E+00	--	--	--
FUTPM3_6	Paper Machine No. 3 - Vent 6	9.55E-03	3.06E-02	0.00E+00	--	--	--
FUTPM3_7	Paper Machine No. 3 - Vent 7	8.18E-03	3.68E-02	0.00E+00	--	--	--
FUTPM3_8	Paper Machine No. 3 - Vent 8	7.88E-03	4.14E-02	0.00E+00	--	--	--
POSTAERB	Post Aeration Basin	1.40E-04	2.45E-03	0.00E+00	--	--	--
CAUST	Causticizers	0.00E+00	3.45E-02	0.00E+00	--	--	--
FUTAMU	Combustion	--	--	--	--	--	2.43E-07
PULPSTOR	Pulp Storage Tanks	--	--	--	0.00E+00	1.01E-04	0.00E+00
BLAKSTOR	Black Storage Tanks	--	--	--	4.22E-06	2.02E-05	0.00E+00
MIXTANK	Precipitator Mix Tank	--	--	--	0.00E+00	3.81E-06	0.00E+00
WLIQSTOR	White Liquor Storage	--	--	--	5.67E-06	3.75E-04	0.00E+00
EQLBASIN	Equalization Basin	--	--	--	9.37E-07	9.37E-07	0.00E+00
DITCH1	Ditch No. 1	--	--	--	1.50E-07	2.58E-05	0.00E+00
ASB1	ASB Free Water Zone 1	--	--	--	1.61E-06	4.82E-06	0.00E+00
ASB2	ASB Free Water Zone 2	--	--	--	9.41E-07	1.01E-06	0.00E+00
ASB3	ASB Free Water Zone 3	--	--	--	5.19E-07	5.21E-07	0.00E+00
DITCH2	Ditch No. 2	--	--	--	1.34E-06	2.63E-06	0.00E+00
SLDGLAGN	Sludge Lagoon	--	--	--	9.37E-07	9.37E-07	0.00E+00
HOLDPOND	Holding Pond	--	--	--	1.61E-07	1.61E-07	0.00E+00
DITCH0	Ditch No. 0	--	--	--	1.11E-07	3.75E-05	0.00E+00
CLARIFY	Primary Clarifier	--	--	--	3.70E-06	6.94E-06	0.00E+00

(a) Hourly emissions files were used for the Recovery Furnace No. 2, Recovery Furnace No. 3, Combination Boiler No. 1, and Combination Boiler No. 2 sources.

5.2 AIR DISPERSION MODELING APPROACH

This section contains information on the technical approach that was followed in the air dispersion modeling analysis, the air dispersion model selection, and the model options that were used. The supporting information used in the air quality analysis includes terrain data, meteorological data, and a building downwash analysis. The modeling analysis was performed in accordance with the SCDHEC guidance document, "Modeling Guidelines for Air Quality Permits"[2], revised April 15, 2019, and 40 CFR Part 51, Appendix W, "Guideline on Air Quality Models" (Appendix W)[3].

5.2.1 Air Dispersion Model Selection

The air dispersion modeling analysis was conducted using the American Meteorological Society/Environmental Protection Agency (AMS/EPA) Regulatory Model (AERMOD) modeling system to perform refined modeling. AERMOD is the U.S. EPA's preferred model for refined regulatory modeling analyses, as specified in Appendix W.

The AERMOD modeling system consists of two pre-processors and the main dispersion model. AERMAP is the terrain pre-processor and AERMET is the meteorological pre-processor. AERMAP characterizes the surrounding terrain and can generate elevations for sources, structures, and receptors within the modeling domain. AERMET is used to generate an hourly profile of meteorological conditions and boundary layer characteristics. In addition, two non-regulatory programs (AERMINUTE and AERSURFACE) are available for preparing inputs to AERMET. AERMINUTE is recommended for use when incorporating meteorological data from National Weather Service (NWS) Automated Surface Observing System (ASOS) sites to reduce the number of calms and missing winds in AERMOD (Appendix W). AERSURFACE is used to determine surface roughness lengths, noontime albedo, and daytime Bowen ratio inputs to AERMET. The modeling incorporated the following program versions, which were current at the time of the

[2] SC DHEC 2019 - "Modeling Guidelines for Air Quality Permits", April 2019
[3] U.S. EPA 2017 – 40 CFR Part 51 Appendix W "Guideline on Air Quality Models", 2017.

analysis (with the exception of the AERMET version used by DHEC to develop the meteorological inputs[4]):

- AERMINUTE 15272
- AERSURFACE 20060
- AERMET 19191
- AERMAP 18081
- AERMOD 21112
- BPIPPRIM 04274

AERMOD has user-selectable options that may be chosen to configure a dispersion model for regulatory and non-regulatory applications. In this case, the modeling will be performed for a regulatory application. Therefore, regulatory default options are proposed for the modeling, including the following:

- Stack-tip Downwash
- Accounting of Elevated Terrain Effects
- Calms Processing Routine
- Missing Data Processing Routine
- No Exponential Decay for Rural Mode
- ADJ_U*

5.2.2 Land Use Analysis

Appendix W specifies a procedure, based on Auer[5], to determine whether land usage surrounding the modeled source is primarily urban or rural. There are two methods that can be used for performing this procedure: a land use classification or population density evaluation. The land use classification procedure is considered the more definitive methodology (Appendix W) and was applied in the air dispersion modeling analysis.

The land use classification determination involves quantifying land use areas by Auer's land use categories within a 3-km radius of the modeled facility. Urban dispersion coefficients should be

[4] SC DHEC 2021 – "2015-2019 Meteorological Data Processing Using AERMET Version 19191", April 2021.
[5] Auer 1978 – "Correlation of Land Use and Cover with Meteorological Anomalies", Journal of Applied Meteorology, 17:636-643, 1978.

selected if greater than 50 percent of the area evaluated consists of urban land use types (industrial, commercial, compact residential); otherwise, rural dispersion coefficients should be used.

The population density procedure uses the same 3-km radius as described in the Land Use Classification procedure, with population within the area determined from Census Bureau Enumeration District data. If the population density within the 3-kilometer radius exceeds 750 people per square kilometer, the area should be modeled with urban dispersion coefficients.

Visual inspection of satellite and aerial imagery does not suggest that greater than 50 percent of the area within 3 km of the Mill is urban. Therefore, rural dispersion coefficients were used in the modeling.

5.2.3 Receptors and Terrain

The AERMOD terrain pre-processor AERMAP was used to process 1 arc-second (approximately 30-m) United States Geological Survey (USGS) National Elevation Dataset (NED) files, in Georeferenced Tagged Image File Format (GeoTIFF) format, to create ground elevation and hill height scales for each receptor in a 40-km by 40-km domain, centered on the approximate Mill center. Modeling incorporates North American Datum of 1983 (NAD83) horizontal datum.

Two receptor networks were utilized in the air dispersion modeling analysis. For SO_2 modeling, receptors were placed along the boundary approved by DHEC and U.S. EPA in the air dispersion modeling submitted for the SO_2 DRR. For TRS and H_2S modeling, the Facility property boundary was used. In both cases, in accordance with DHEC guidance, receptors were placed at 50-meter intervals along the boundary, on property not owned by the Mill, and in publicly accessible locations. In response to comments received from DHEC on September 10 and September 14, additional receptors were placed at 50-meter spacing along property boundaries for parcels not owned by the Mill, but were located within the Mill property boundary. Receptors were also placed at 50-meter intervals within the parcels not owned by the Mill. Publicly accessible locations include the CSX and Norfolk Southern rail lines, Cureton Ferry Road, and South Carolina

Highway 5. Beyond the boundary for each receptor network, a Cartesian receptor network was used, with receptor spacing:

- 100 m spacing from the property line to ± 5 km,
- 500 m spacing from ± 5 km to ± 10 km, and
- 2,500 m spacing from ± 10 km to ± 40 km.

A plot of the inner portion of the receptor network for SO_2 modeling is shown in Figure 5-1. The inner portion of the receptor network for evaluation of air toxics is shown in Figure 5-2.

5.2.4 Meteorological Data

U.S. EPA recommends that AERMOD be run with a minimum of 5 years of off-site data or 1 year of on-site meteorological data to "*acquire enough meteorological data to ensure worst-case meteorological conditions are adequately represented in the model results*"[6]. DHEC guidance requires inclusion of DHEC-provided, pre-processed, 5-year meteorological datasets for refined air dispersion modeling analyses. DHEC provides meteorological datasets for 12 areas, based on BAQ determination of meteorological stations deemed to be the most representative for each area. For York County, DHEC recommends the dataset consisting of surface data from Weather Bureau Army Navy (WBAN) station ID 53871 - Rock Hill Airport – Bryant Field (KUZA) in Rock Hill, South Carolina, and upper air data from WBAN station ID 13723 - Piedmont Triad International Airport (KGSO) in Greensboro, North Carolina. The 5-year meteorological dataset (2015-2019) was processed by DHEC using AERMET version 19191, includes a minimum wind speed threshold of 0.5 meters per second, and includes the application of the ADJ_U* option.

Selection of a representative meteorological dataset must include consideration for terrain and proximity to adequately characterize boundary layer conditions that would be expected at the Mill. The Rock Hill Airport is in the vicinity of the Mill, located approximately 21 km to the northwest, has similar surrounding land use characteristics, and has a base elevation of 204 m AMSL. The

[6] U.S. EPA 2017 – 40 CFR Part 51 Appendix W "Guideline on Air Quality Models", 2017

Legend

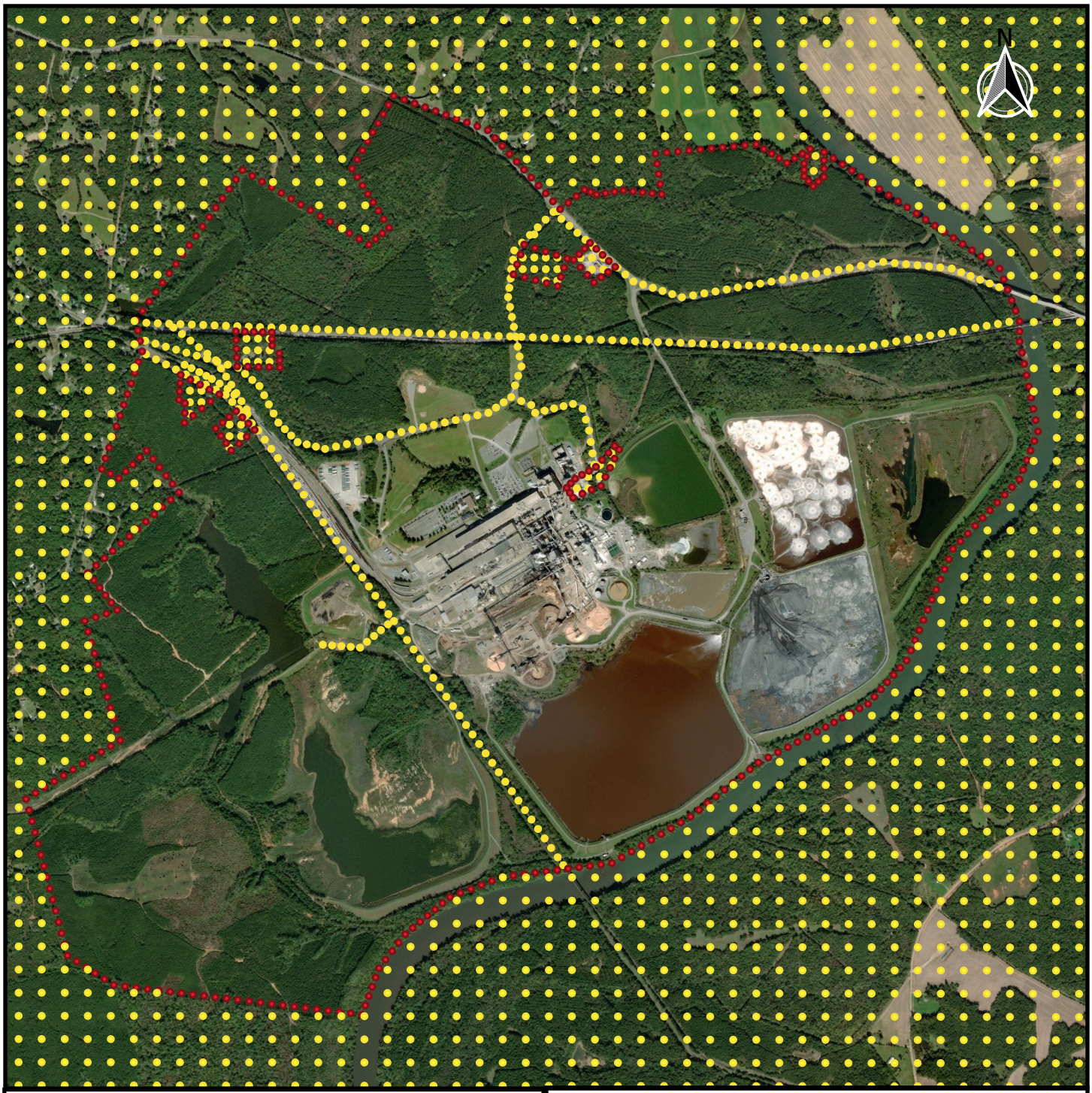
- Receptors
- Boundary Receptors

0 1 2 km

Aerial imagery obtained from Bing Virtual Earth

New-Indy Catawba, LLC
Catawba, SC Mill
Air Dispersion Modeling Analysis

Figure 5-1
Receptor Network -SO2



Legend

- Receptors
- Property Boundary Receptors

0 1 2 km

Aerial imagery obtained from Bing Virtual Earth

New-Indy Catawba, LLC
Catawba, SC Mill
Air Dispersion Modeling Analysis

Figure 5-2
Receptor Network - Toxics

similar land use and distance from the Mill support the use of the KUZA meteorological dataset as representative for the Mill.

5.2.5 GEP Stack Height Analysis

A Good Engineering Practice (GEP) stack height analysis was conducted to evaluate if stack emissions are subject to building wake effects and aerodynamic downwash caused by buildings included in the modeling, in accordance with the Guideline for Determination of Good Engineering Practice Stack Height[7]. If a stack is sufficiently close to a building or, if located adjacent or on a building, the plume from the stack can be entrained in the building's wake, diminishing plume rise can result in increased ground level ambient concentrations. Facilities with stack heights below their corresponding GEP formula heights must account for potential building wake effects within the modeling performed for them.

There are two definitions of GEP stack height: formula GEP stack height and regulatory GEP stack height. U.S. EPA requires building downwash effects to be evaluated for nearby buildings when a stack is less than formula GEP stack height. Regulatory GEP stack height is the greater of 65 meters or formula GEP stack height. Formula GEP stack height is defined as:

$$H_{GEP} = H_B + 1.5L_B$$

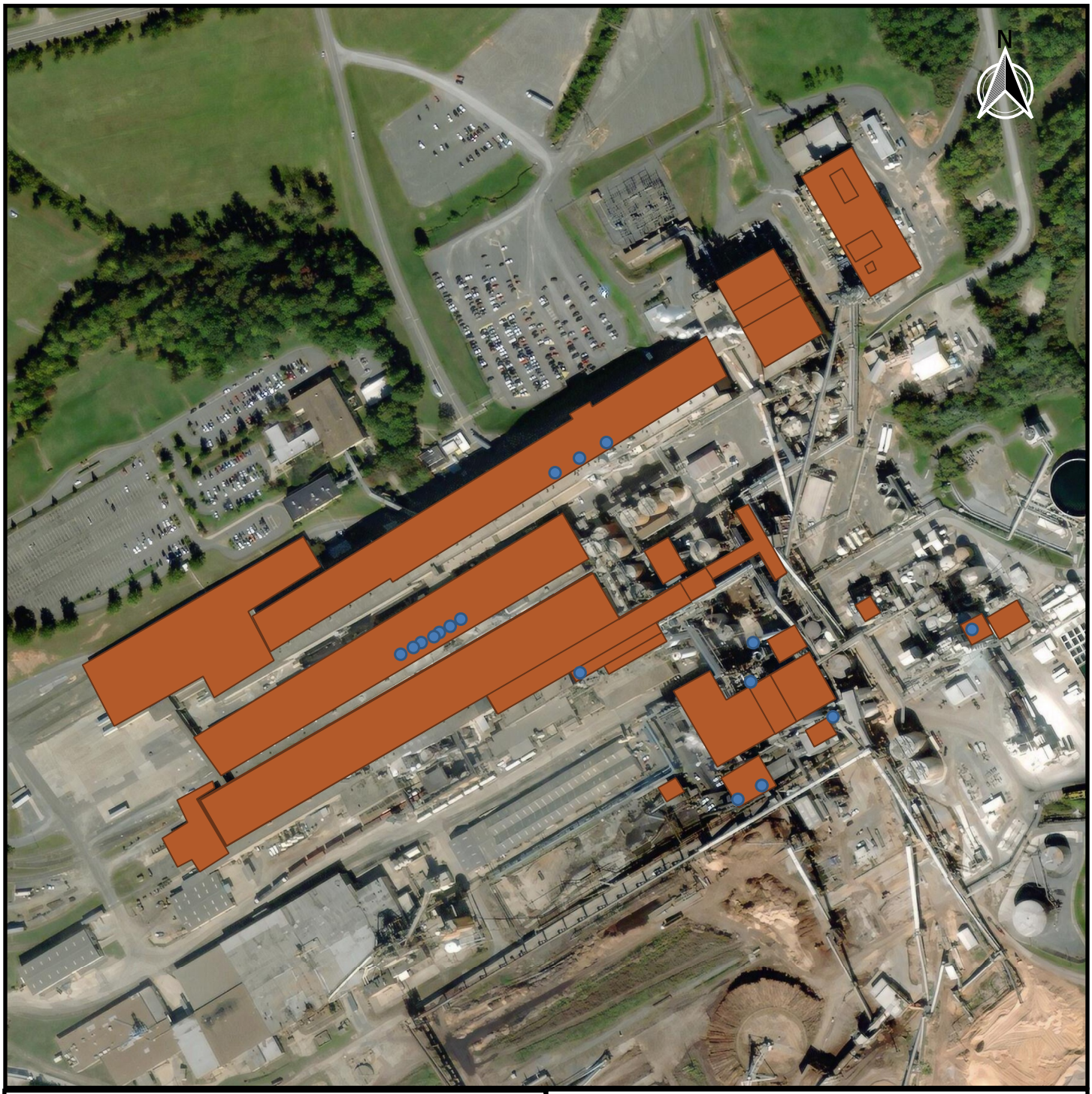
where:

H_{GEP} = formula GEP stack height,
H_B = the building's height above stack base, and
L_B = the lesser of the building's height or maximum projected width.

The current version of U.S. EPA's Building Profile Input Program for PRIME (BPIPPRM) was used to calculate wind direction-specific downwash parameters to evaluate stacks considered close enough to a building to be affected by downwash, defined as the lesser of 0.8 kilometer or $5L_B$ of the building in any wind direction. Due to the use of BPIPPRM and associated cavity algorithms, a separate cavity analysis was not performed.

A visualization of Mill stacks and relevant structures is presented in Figure 5-3.

[7] U.S. EPA 1985 – "Guideline for Determination of Good Engineering Practice Stack Height", 1985.



Legend

Structures

Point Sources

0 100 200 300 m

Aerial imagery obtained from Bing Virtual Earth

New-Indy Catawba, LLC
Catawba, SC Mill
Air Dispersion Modeling Analysis

Figure 5-3
Building Downwash

5.2.6 Source Characterization

The emissions units at the Mill include sources that exhaust through a stack or vent and sources that represent a fugitive release. The physical release characteristics for emissions units included in the air quality modeling analyses are provided in Table 5-2 (point sources), Table 5-3 (volume sources), and Table 5-4 (area sources).

With the exception of the post-aeration basin (Model ID: "POSTAERB"), each of the stacks included in the modeling are uncapped and have a vertical release orientation and were represented using the AERMOD POINT source type. Modeled stack exit temperatures, stack heights, exit velocities, and stack diameters for each stack were obtained from the source testing performed in June 2021.

The post-aeration basin stack was modeled with a horizontal release. The post-aeration basin, which was upfitted with a new cover and carbon filter on June 9, 2021, does not have a heat-based release and was represented with an ambient release in the modeling.

Fugitive emissions associated with storage tanks, mix tanks, and waste treatment sources were characterized as area sources. Emissions from high-density (HD) and low-density (LD) pulp storage tanks were collectively modeled as a single source ("PULPSTOR"). Similarly, emissions from strong black liquor storage tanks and weak black liquor storage tanks were collectively modeled as a single source ("BLAKSTOR"). Emissions from the precipitator mix tank ("MIXTANK") and the white liquor storage tank ("WLIQSTOR") were modeled using the AREA source type, with rotation angles determined using aerial imagery. The clarifier ("CLARIFY") was modeled using the AREACIRC source type with a 42-m radius. Each of the waste treatment sources were modeled using the AREAPOLY source type and same square meter footprint as the emissions modeling to accurately represent both the shape and the active footprint of each source and provide consistency with emissions rates calculations. Initial vertical dispersion was not applied to area sources. Fugitive emissions from the causticizer ("CAUST"), which included emissions from green liquor storage tanks, were characterized as a VOLUME source, with an elevated release height and initial vertical dimension divided by 4.3.

Table 5-2
New-Indy Catawba, LLC
Point Source Parameters

Model Source ID	Source Description	UTM Easting (m)	UTM Northing (m)	Base Elevation (m)	Stack Height (m)	Temperature (K)	Exit Velocity (m/s)	Stack Diameter (m)	Stack Orientation	Capped?
FUTRF2	Recovery Furnace No. 2	510095.85	3855743.58	161.70	59.4	458.0	30.2	2.1	VERTICAL	N
FUTRF3	Recovery Furnace No. 3	510032.37	3855802.28	161.87	68.6	445.4	18.8	3.2	VERTICAL	N
FUTST2	Smelt Dissovling Tank No. 2	510030.37	3855771.28	161.89	66.4	350.0	10.5	1.8	VERTICAL	N
FUTST3	Smelt Dissolving Tank No. 3	510030.37	3855771.28	161.89	66.4	350.0	10.5	1.8	VERTICAL	N
FUTLK2	Lime Kiln No. 2	510206.31	3855812.91	161.52	56.1	470.4	9.8	1.8	VERTICAL	N
FUTCB1	Combination Boiler No. 1	510039.32	3855689.18	161.96	69.5	457.5	14.4	3.0	VERTICAL	N
FUTCB2	Combination Boiler No. 2	510020.32	3855678.18	161.96	69.5	480.5	19.0	3.0	VERTICAL	N
FUTNCG1	Kraft Mill NCG System	510039.32	3855689.18	161.96	69.5	457.5	14.4	3.0	VERTICAL	N
FUTPD	Pulp Dryer	509894.71	3855778.28	163.36	23.7	343.2	13.1	1.5	VERTICAL	N
FUTPM2_1	Paper Machine No. 2 - Vent 1	509915.49	3855960.57	161.74	26.4	350.9	19.2	1.4	VERTICAL	N
FUTPM2_2	Paper Machine No. 2 - Vent 2	509894.11	3855948.21	161.74	26.4	358.2	17.1	1.4	VERTICAL	N
FUTPM2_3	Paper Machine No. 2 - Vent 3	509874.69	3855936.64	161.74	26.4	357.6	21.9	1.4	VERTICAL	N
FUTPM3_1	Paper Machine No. 3 - Vent 1	509799.90	3855820.64	161.81	25.7	350.9	19.2	1.3	VERTICAL	N
FUTPM3_2	Paper Machine No. 3 - Vent 2	509791.38	3855814.96	161.81	25.5	354.8	23.8	1.4	VERTICAL	N
FUTPM3_3	Paper Machine No. 3 - Vent 3	509782.85	3855810.05	161.81	25.5	358.2	25.0	1.4	VERTICAL	N
FUTPM3_4	Paper Machine No. 3 - Vent 4	509778.46	3855806.69	161.81	25.5	363.2	17.1	1.4	VERTICAL	N
FUTPM3_6	Paper Machine No. 3 - Vent 6	509768.38	3855802.04	161.81	25.7	361.5	23.8	1.3	VERTICAL	N
FUTPM3_7	Paper Machine No. 3 - Vent 7	509762.18	3855798.17	161.81	26.9	360.4	22.9	1.7	VERTICAL	N
FUTPM3_8	Paper Machine No. 3 - Vent 8	509752.11	3855792.74	161.81	26.9	357.6	21.9	1.7	VERTICAL	N
POSTAERB	Post Aeration Basin	510295.58	3854460.36	138.57	3.0	Ambient	8.5	0.5	HORIZONTAL	N

Table 5-3
New-Indy Catawba, LLC
Volume Source Parameters

Model Source ID	Source Description	UTM Easting (m)	UTM Northing (m)	Base Elevation (m)	Release Height (m)	Initial Horizontal Dimension (m)	Initial Vertical Dimension (m)
CAUST	Causticizers	510240.52	3855749.76	162.0	13.7	4.2	6.4

Table 5-4
New-Indy Catawba, LLC
Area Source Parameters

Model Source ID	Source Description	AERMOD Source Type	UTM Easting (m)	UTM Northing (m)	Base Elevation (m)	Release Height (m)	Length of Side (x) (m)	Length of Side (y) (m)	Rotation Angle (°)	Radius (m)	Modeled Area[(a)] (m^2)
FUTAMU	Combustion	AREA	509,708.90	3,855,693.23	162.3	24.4	253.0	155.4	-30.0	--	39,326
PULPSTOR	Pulp Storage Tanks	AREA	509,928.73	3,855,822.71	162.5	15.2	93.3	98.2	-27.4	--	9,157
BLAKSTOR	Black Storage Tanks	AREA	510,021.22	3,855,756.55	161.9	12.2	85.0	85.0	-27.4	--	7,225
MIXTANK	Precipitator Mix Tank	AREA	510,044.49	3,855,765.65	161.9	6.1	23.4	19.9	0.0	--	464
WLIQSTOR	White Liquor Storage	AREA	510,153.86	3,855,704.12	161.9	16.8	20.0	20.0	-30.0	--	400
EQLBASIN	Equalization Basin	AREAPOLY	510,439.13	3,855,563.34	156.6	0.0	--	--	--	--	7,616
DITCH1	Ditch No. 1	AREAPOLY	510,812.78	3,856,255.42	153.5	0.0	--	--	--	--	2,190
ASB1	ASB Free Water Zone 1	AREAPOLY	510,803.40	3,856,319.69	152.8	6.1	--	--	--	--	50,625
ASB2	ASB Free Water Zone 2	AREAPOLY	510,964.41	3,856,054.20	153.3	6.1	--	--	--	--	66,540
ASB3	ASB Free Water Zone 3	AREAPOLY	511,052.13	3,855,887.21	153.3	6.1	--	--	--	--	72,352
DITCH2	Ditch No. 2	AREAPOLY	510,992.97	3,855,727.20	153.5	0.0	--	--	--	--	1,825
SLDGLAGN	Sludge Lagoon	AREAPOLY	510,924.33	3,855,544.61	155.6	0.0	--	--	--	--	44,192
HOLDPOND	Holding Pond	AREAPOLY	510,391.65	3,855,142.65	154.1	0.0	--	--	--	--	388,550
DITCH0	Ditch No. 0	AREAPOLY	510,377.59	3,855,634.91	157.0	0.0	--	--	--	--	223
CLARIFY	Primary Clarifier	AREACIRC	510,342.42	3,855,604.87	156.7	0.0	--	--	--	42	5,542

(a) AREAPOLY modeled area presented based on emissions model area.

5.2.7 Background Ambient Air Data

Ambient background 1-hour and 3-hour SO_2 concentrations were considered for the Standard No. 2 AAQS compliance demonstration. The Mill added SO_2 design concentrations, maintained by DHEC, representing the most-recent three years maintained by DHEC (2017-2019) from the Greenville Employment Security Commission (ESC) ambient monitor (Site ID: 45-045-0015) located in Greenville, South Carolina.

Although the Greenville ESC ambient monitoring site is not the closest ambient monitor to the Mill, the closer sites in Lexington and Richland Counties are in more urban areas near Columbia. The Greenville ESC monitoring station is located in similar topography and land use as the Mill. Based on the similarities, the Greenville ESC monitor is representative of the conditions at the Mill.

SO_2 design values included in the air dispersion modeling analysis (post-model) are presented in Table 5-5.

Table 5-5
Background Concentrations

Pollutant	Averaging Period	Design Value Form	Design Value ($\mu g/m^3$)
SO_2	1-hour	99th percentile of daily maximum 1-hour averaged over 3 years	2.6
	3-hour	3-hour 2nd-High averaged over 3 years	3.8

5.3 AIR QUALITY MODELING RESULTS

Model-predicted ambient concentrations were compared to AAQS and MAAC to demonstrate compliance with Standard No. 2 and Standard No. 8, respectively. In addition, 1-hour model-predicted concentrations for H_2S and TRS were evaluated against the U.S. EPA 30-minute H_2S

Action Level. The air dispersion modeling analysis demonstrates that Mill-wide emissions of TRS (as H_2S), H_2S, and SO_2 are below the respective compliance levels for all averaging periods (Table 5-6).

5.3.1 South Carolina Standard No. 2 Results

Model-predicted ambient concentrations of SO_2 at 1-hour and 3-hour averaging periods were compared to AAQS. Representative background concentrations were added to the modeled concentrations after modeling was conducted. The results of the AAQS analysis demonstrate that Mill-wide SO_2 emissions do not cause an AAQS violation.

5.3.2 South Carolina Standard No. 8 Results

Model-predicted ambient concentrations of TRS (as H_2S) and H_2S at a 24-hour averaging period were compared to respective MAAC. The results of the air dispersion modeling analysis demonstrate that Mill-wide TRS (as H_2S) and H_2S emissions do not cause any MAAC violations.

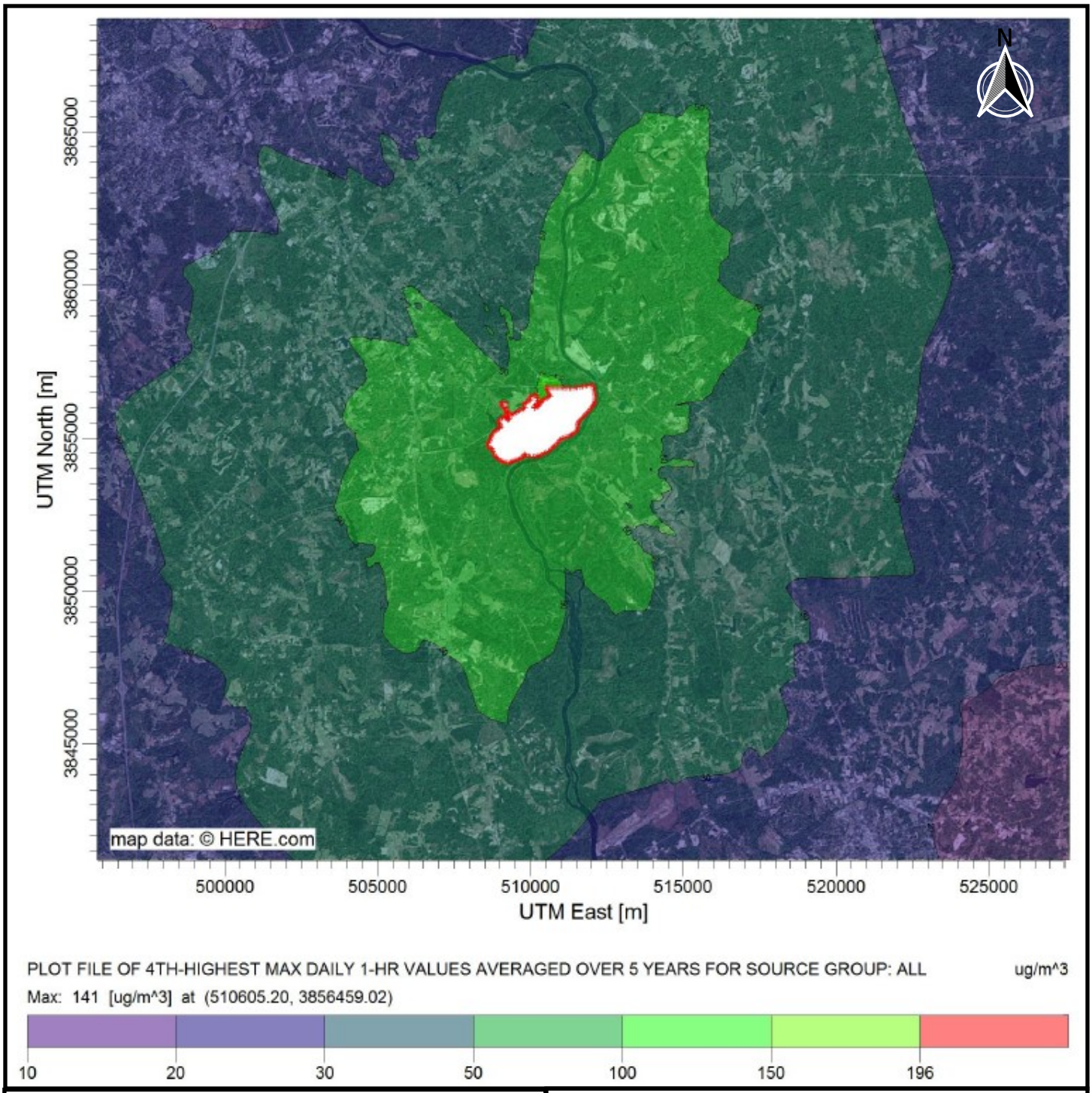
Table 5-6
Summary of Air Dispersion Modeling Results

Pollutant	Averaging Period[1]	Rank	Modeled Concentration (µg/m³)	Background (µg/m³)	Total (µg/m³)	AAQS/ MAAC/ Action Level (µg/m³)[2]	Compliant (Y/N)
SO_2	1-hour	4th-High Average Daily Maximum	141.16	2.6	143.76	196	Y
	3-hour	1st-High	182.89	3.8	186.69	1,300	Y
H_2S	24-hour	1st-High	14.26	-	14.26	140	Y
	30-minute	1st-High	73.28	-	73.28	837	Y
TRS	24-hour	1st-High	52.17	-	52.17	140	Y
	30-minute	1st-High	383.94	-	383.94	837	Y

1 H_2S and TRS 1st highest 1-hour modeled concentrations compared to 30-minute U.S. EPA Action Levels.

2 TRS is not subject to a MAAC. For the purpose of this analysis, TRS as H_2S is evaluated using the H_2S MAAC.

Spatial representation of model-predicted ambient concentrations are provided in Figure 5-4, Figure 5-5, Figure 5-6, Figure 5-7, Figure 5-8, and Figure 5-9. Background concentrations were not included in the concentration contour plots, as they were added post-model.

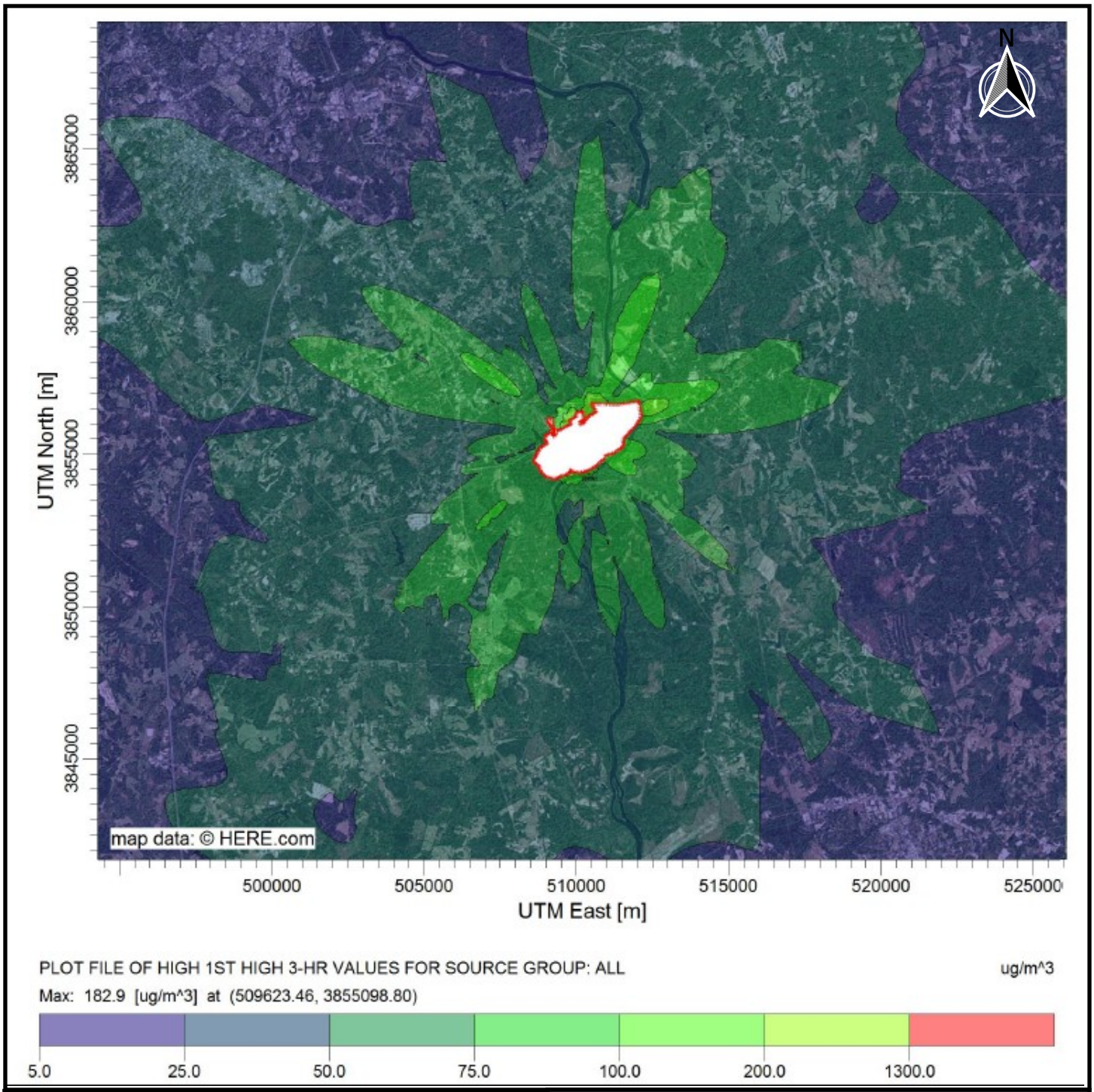


Legend

Property Boundary

New-Indy Catawba, LLC
Catawba, SC Mill
Air Dispersion Modeling Analysis

Figure 5-4
SO_2 - 1-hour



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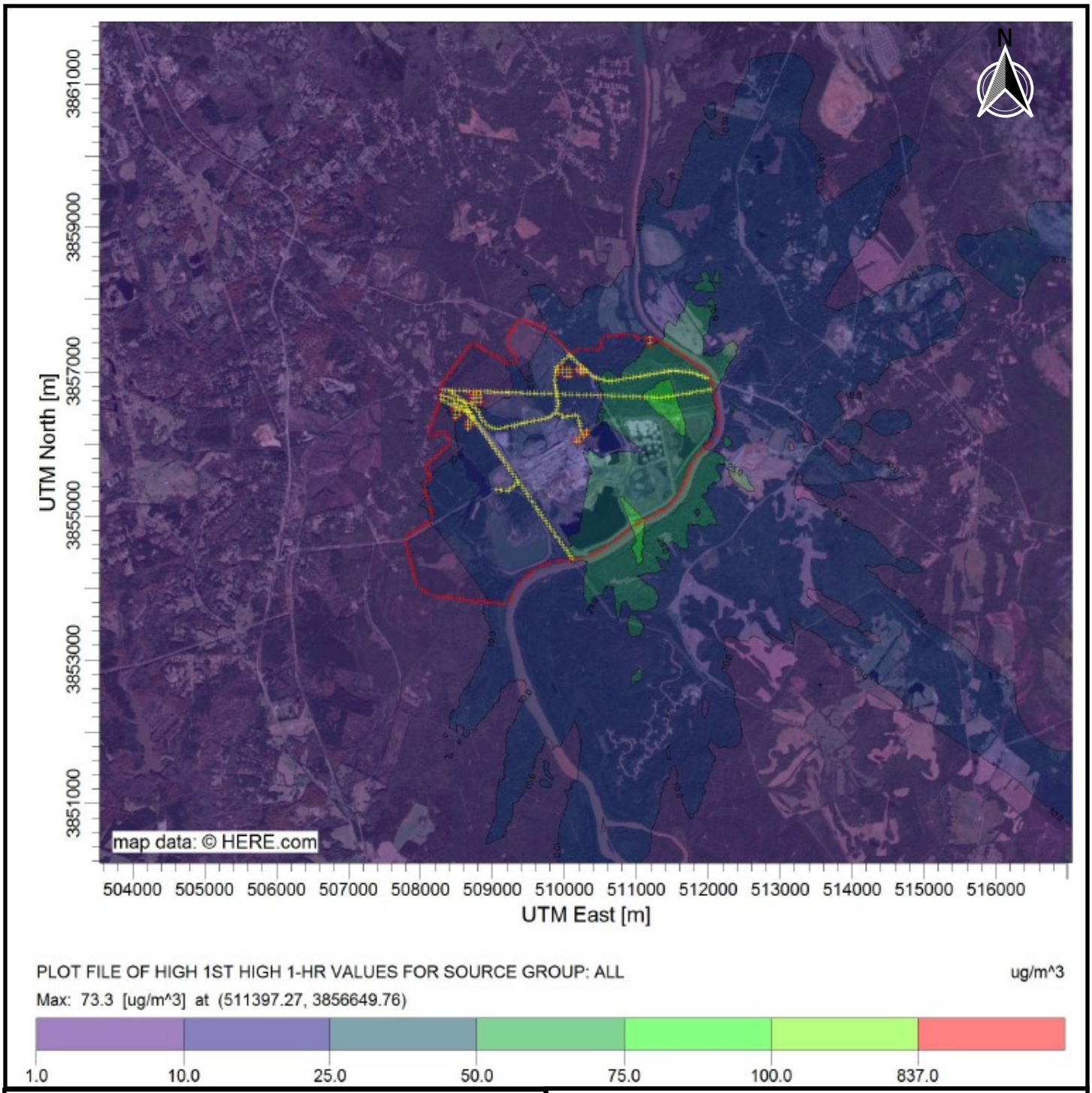
Property Boundary

New-Indy Catawba, LLC
Catawba, SC Mill
Air Dispersion Modeling Analysis

Figure 5-5
SO_2 - 3-hour



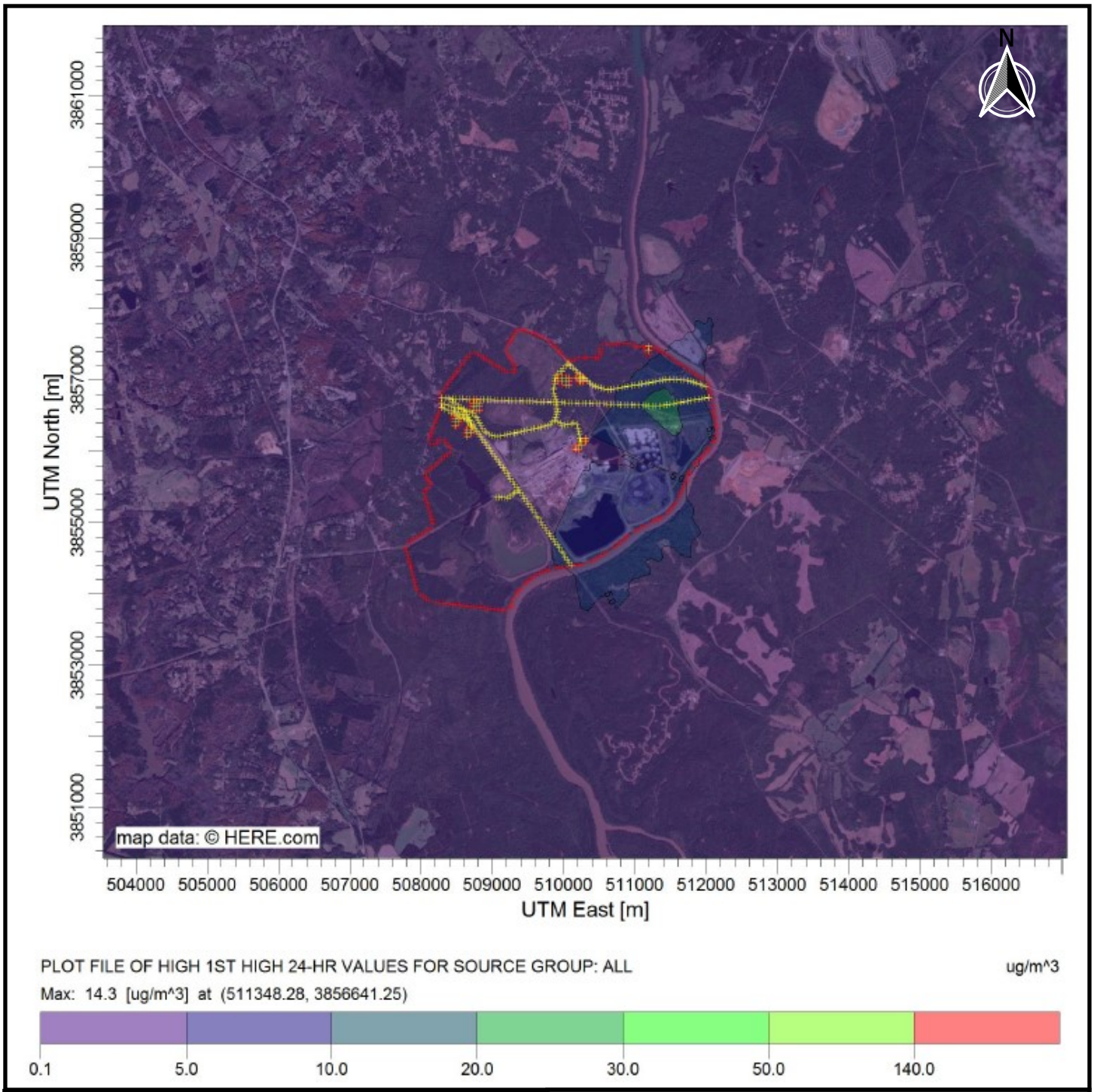
Legend

Property Boundary

Receptor

New-Indy Catawba, LLC
Catawba, SC Mill
Air Dispersion Modeling Analysis

Figure 5-6
H_2S- 1-hour



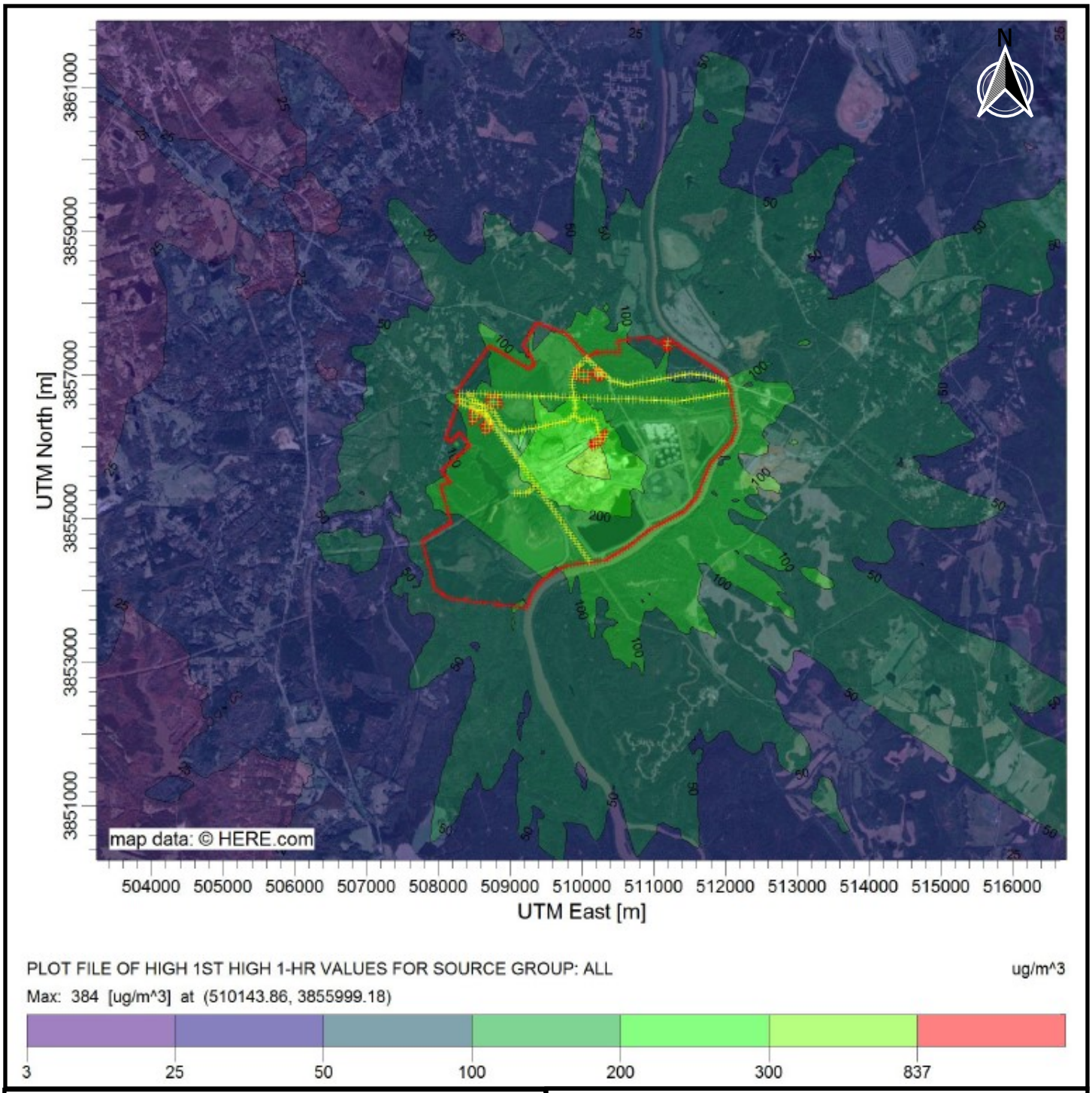
Legend

Property Boundary

Receptor

New-Indy Catawba, LLC
Catawba, SC Mill
Air Dispersion Modeling Analysis

Figure 5-7
H_2S - 24-hour



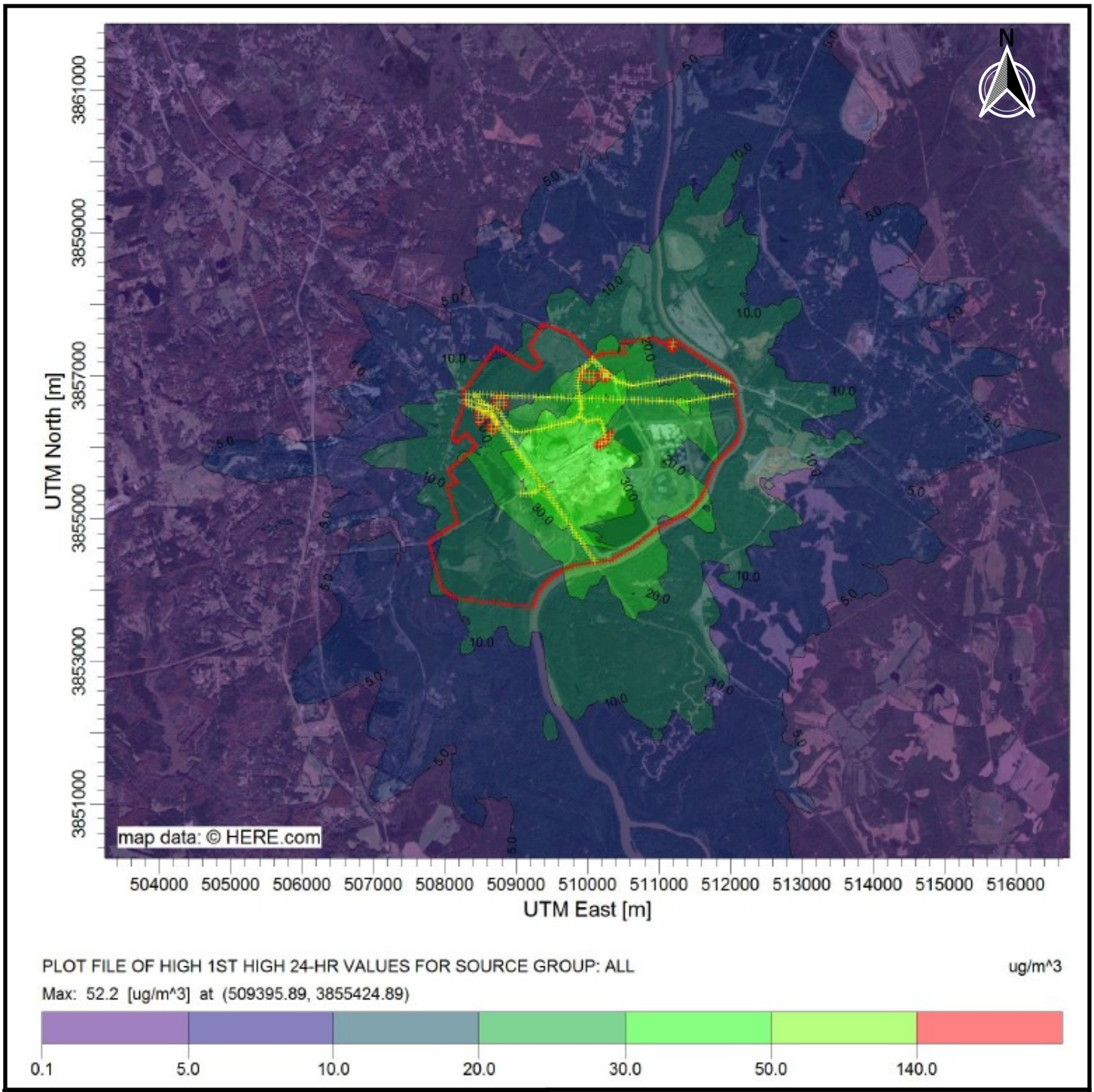
Legend

Property Boundary

Receptor

New-Indy Catawba, LLC
Catawba, SC Mill
Air Dispersion Modeling Analysis

Figure 5-8
TRS - 1-hour



Legend

- Property Boundary
- Receptor

New-Indy Catawba, LLC
Catawba, SC Mill
Air Dispersion Modeling Analysis

Figure 5-9
TRS - 24-hour

APPENDIX A – EMISSIONS CALCULATIONS

Table A-1
Facility-Wide TRS Model Emissions Rate
New-Indy Catawba - Catawba, SC

SOURCE	Hydrogen Sulfide (H_2S) actual lb/hr	Hydrogen Sulfide (H_2S) maximum lb/hr	Total Reduced Sulfur (as H_2S) actual lb/hr	Total Reduced Sulfur (as H_2S) maximum lb/hr	Reference Tables
Kraft Mill NCG/SOG System	0.07	0.13	0.92	1.36	Table A-5
Recovery Furnace #2	0.16	0.16	0.23	0.23	Table A-18
Smelt Dissolving Tank #2	0.33	0.37	0.41	0.45	Table A-4
Recovery Furnace #3	0.24	0.29	0.36	0.42	Table A-19
Smel Dissolving Tank #3	0.61	0.68	0.73	0.82	Table A-4
Lime Kiln #2	0.87	0.97	0.86	0.97	Table A-20
Causticizing Area			0.26	0.27	Table A-21
Precipitator Mix Tanks			0.01	0.01	Table A-29
Paper Machine #2 - Vent 1		0.04		0.13	Table A-6
Paper Machine #2 - Vent 2		0.07		0.21	Table A-6
Paper Machine #2 - Vent 3		0.03		0.15	Table A-6
Paper Machine #3 - Vent 1	0.04	0.06	0.12	0.18	Table A-3
Paper Machine #3 - Vent 2	0.07	0.12	0.22	0.38	Table A-3
Paper Machine #3 - Vent 3	0.09	0.16	0.26	0.46	Table A-3
Paper Machine #3 - Vent 4	0.04	0.06	0.12	0.18	Table A-3
Paper Machine #3 - Vent 6	0.05	0.08	0.16	0.24	Table A-3
Paper Machine #3 - Vent 7	0.04	0.06	0.18	0.29	Table A-3
Paper Machine #3 - Vent 8	0.04	0.06	0.21	0.33	Table A-3
Pulp Dryer	0.02	0.03	0.23	0.40	Table A-2
HD Pulp Storage Tanks			5.36	5.36	Table A-30
LD Pulp Storage Tanks			2.01	2.01	Table A-31
Weak Black Liquor StorageTanks	0.10	0.10	0.58	0.58	Table A-32
Strong Black Liquor Storage Tanks	0.15	0.15	0.57	0.57	Table A-33
White Liquor Storage Tanks	0.02	0.02	1.19	1.19	Table A-34
Post-Aeration Basin Vent	8.17E-04	1.11E-03	1.25E-02	1.94E-02	Table A-7
Primary Clarifier	0.10	0.16	0.20	0.31	Table A-9
Ditch 0 + Splitter Box	1.25E-04	1.95E-04	4.23E-02	6.62E-02	Table A-8
Equilization Basin	0.04	0.06	0.04	0.06	Table A-10
Ditch 1	0.00	0.00	0.29	0.45	Table A-11
ASB Zone 1	0.41	0.65	1.24	1.94	Table A-12
ASB Zone 2	0.32	0.50	0.34	0.53	Table A-13
ASB Zone 3	0.19	0.30	0.19	0.30	Table A-14
Ditch 2	0.01	0.02	0.02	0.04	Table A-15
Holding Pond	0.32	0.50	0.32	0.50	Table A-16
No. 4 Sludge Lagoon	0.21	0.33	0.21	0.33	Table A-17
TOTAL EMISSIONS	**4.53**	**6.15**	**17.89**	**21.74**	

WASTEWATER FUGITIVES	Hydrogen Sulfide (H_2S) actual g/s	Hydrogen Sulfide (H_2S) maximum g/s	Total Reduced Sulfur (as H_2S) actual g/s	Total Reduced Sulfur (as H_2S) maximum g/s	Reference Tables
Primary Clarifier	1.31E-02	2.05E-02	2.46E-02	3.84E-02	Table A-9
Ditch 0 + Splitter Box	1.57E-05	2.46E-05	5.33E-03	8.34E-03	Table A-8
Equilization Basin	4.56E-03	7.14E-03	4.56E-03	7.14E-03	Table A-10
Ditch 1	2.10E-04	3.28E-04	3.61E-02	5.65E-02	Table A-11
ASB Zone 1	5.20E-02	8.14E-02	1.56E-01	2.44E-01	Table A-12
ASB Zone 2	4.00E-02	6.26E-02	4.31E-02	6.74E-02	Table A-13
ASB Zone 3	2.40E-02	3.76E-02	2.41E-02	3.77E-02	Table A-14
Ditch 2	1.56E-03	2.45E-03	3.06E-03	4.79E-03	Table A-15
Holding Pond	4.00E-02	6.26E-02	4.00E-02	6.26E-02	Table A-16
No. 4 Sludge Lagoon	2.65E-02	4.14E-02	2.65E-02	4.14E-02	Table A-17

Green liquor storage tanks included in causticizing area emissions

Table A-2
Pulp Dryer Stack Test Results
New-Indy Catawba - Catawba, SC

PULP DRYER STACK					
	SOURCE TEST			MAXIMUM	
	lb/hr[1]	ADTFP/hr[2]	lb/ADTFP[3]	ADTFP/day[4]	lb/hr[5]
H_2S	2.00E-02	19.65	1.02E-03	811.9	3.44E-02
TRS (as H_2S)	2.30E-01	19.65	1.17E-02	811.9	3.96E-01

[1] mean emissions rate from Table 2-2, Weston Stack Test Report (1 October 2021)

[2] average production during source test runs conducted on June 26, 2021

[3] lb TRS/ADTFP = 0.23 lb TRS/hr × 1 hr/19.65 ADTFP = 0.0117 lb TRS/ADTFP

[4] maximum production from June 2019 and April 2020 Project Columbia construction permit applications (construction permit DF)

[5] lb TRS/hr = 0.0117 lb TRS/ADTFP × 811.9 ADTFP/day × 1 day/24 hr = 0.396 lb TRS/hr

Table A-3
Paper Machine 3 Vents Stack Test Results
New-Indy Catawba - Catawba, SC

PAPER MACHINE 3 - VENT 1					
	SOURCE TEST			MAXIMUM	
	lb/hr[1]	ADTFP/hr[2]	lb/ADTFP[3]	ADTFP/day[4]	lb/hr[5]
H_2S	4.00E-02	85.18	4.70E-04	3000	5.87E-02
TRS (as H_2S)	1.20E-01	85.18	1.41E-03	3000	1.76E-01

[1] mean emissions rate from Table 2-3, Weston Stack Test Report (1 October 2021)

[2] average production during source test runs conducted on June 25, 2021

[3] lb TRS/ADTFP = 0.12 lb TRS/hr × 1 hr/85.18 ADTFP = 0.00141 lb TRS/ADTFP

[4] maximum production from June 2019 and April 2020 Project Columbia construction permit applications (construction permit DF)

[5] lb TRS/hr = 0.00141 lb TRS/ADTFP × 3000 ADTFP/day × 1 day/24 hr = 0.176 lb TRS/hr

PAPER MACHINE 3 - VENT 2					
	SOURCE TEST			MAXIMUM	
	lb/hr[1]	ADTFP/hr[2]	lb/ADTFP[3]	ADTFP/day[4]	lb/hr[5]
H_2S	7.00E-02	72.93	9.60E-04	3000	1.20E-01
TRS (as H_2S)	2.20E-01	72.93	3.02E-03	3000	3.77E-01

[1] mean emissions rate from Table 2-4, Weston Stack Test Report (1 October 2021)

[2] average production during source test runs conducted on June 24, 2021

[3] lb TRS/ADTFP = 0.22 lb TRS/hr × 1 hr/72.93 ADTFP = 0.00302 lb TRS/ADTFP

[4] maximum production from June 2019 and April 2020 Project Columbia construction permit applications (construction permit DF)

[5] lb TRS/hr = 0.00302 lb/ADTFP × 3000 ADTFP/day × 1 day/24 hr = 0.377 lb TRS/hr

PAPER MACHINE 3 - VENT 3					
	SOURCE TEST			MAXIMUM	
	lb/hr[1]	ADTFP/hr[2]	lb/ADTFP[3]	ADTFP/day[4]	lb/hr[5]
H_2S	9.00E-02	70.05	1.28E-03	3000	1.61E-01
TRS (as H_2S)	2.60E-01	70.05	3.71E-03	3000	4.64E-01

[1] mean emissions rate from Table 2-5, Weston Stack Test Report (1 October 2021)

[2] average production during source test runs conducted on June 24, 2021

[3] lb TRS/ADTFP = 0.26 lb TRS/hr × 1 hr/70.05 ADTFP = 0.00371 lb TRS/ADTFP

[4] maximum production from June 2019 and April 2020 Project Columbia construction permit applications (construction permit DF)

[5] lb TRS/hr = 0.00371 lb/ADTFP × 3000 ADTFP/day × 1 day/24 hr = 0.464 lb TRS/hr

Table A-3
Paper Machine 3 Vents Stack Test Results Cont.
New-Indy Catawba - Catawba, SC

PAPER MACHINE 3 - VENT 4					
	SOURCE TEST			MAXIMUM	
	lb/hr[1]	ADTFP/hr[2]	lb/ADTFP[3]	ADTFP/day[4]	lb/hr[5]
H_2S	4.00E-02	84.70	4.72E-04	3000	5.90E-02
TRS (as H_2S)	1.20E-01	84.70	1.42E-03	3000	1.77E-01

[1] mean emissions rate from Table 2-6, Weston Stack Test Report (1 October 2021)

[2] average production during source test runs conducted on June 25, 2021

[3] lb TRS/ADTFP = 0.12 lb TRS/hr × 1 hr/84.70 ADTFP = 0.00142 lb TRS/ADTFP

[4] maximum production from June 2019 and April 2020 Project Columbia construction permit applications (construction permit DF)

[5] lb TRS/hr = 0.00142 lb/ADTFP × 3000 ADTFP/day × 1 day/24 hr = 0.177 lb TRS/hr

PAPER MACHINE 3 - VENT 6					
	SOURCE TEST			MAXIMUM	
	lb/hr[1]	ADTFP/hr[2]	lb/ADTFP[3]	ADTFP/day[4]	lb/hr[5]
H_2S	5.00E-02	82.43	6.07E-04	3000	7.58E-02
TRS (as H_2S)	1.60E-01	82.43	1.94E-03	3000	2.43E-01

[1] mean emissions rate from Table 2-7, Weston Stack Test Report (1 October 2021)

[2] average production during source test runs conducted on June 25, 2021

[3] lb TRS/ADTFP = 0.16 lb TRS/hr × 1 hr/82.43 ADTFP = 0.00194 lb TRS/ADTFP

[4] maximum production from June 2019 and April 2020 Project Columbia construction permit applications (construction permit DF)

[5] lb TRS/hr = 0.00194 lb/ADTFP × 3000 ADTFP/day × 1 day/24 hr = 0.243 lb TRS/hr

PAPER MACHINE 3 - VENT 7					
	SOURCE TEST			MAXIMUM	
	lb/hr[1]	ADTFP/hr[2]	lb/ADTFP[3]	ADTFP/day[4]	lb/hr[5]
H_2S	4.00E-02	77.02	5.19E-04	3000	6.49E-02
TRS (as H_2S)	1.80E-01	77.02	2.34E-03	3000	2.92E-01

[1] mean emissions rate from Table 2-8, Weston Stack Test Report (1 October 2021)

[2] average production during source test runs conducted on June 26, 2021

[3] lb TRS/ADTFP = 0.18 lb TRS/hr × 1 hr/77.02 ADTFP = 0.00234 lb TRS/ADTFP

[4] maximum production from June 2019 and April 2020 Project Columbia construction permit applications (construction permit DF)

[5] lb TRS/hr = 0.00234 lb/ADTFP × 3000 ADTFP/day × 1 day/24 hr = 0.292 lb TRS/hr

Table A-3
Paper Machine 3 Vents Stack Test Results Cont.
New-Indy Catawba - Catawba, SC

PAPER MACHINE 3 - VENT 8					
	SOURCE TEST			MAXIMUM	
	lb/hr[1]	ADTFP/hr[2]	lb/ADTFP[3]	ADTFP/day[4]	lb/hr[5]
H_2S	4.00E-02	79.90	5.01E-04	3000	6.26E-02
TRS (as H_2S)	2.10E-01	79.90	2.63E-03	3000	3.29E-01

[1] mean emissions rate from Table 2-9, Weston Stack Test Report (1 October 2021)

[2] average production during source test runs conducted on June 26, 2021

[3] lb TRS/ADTFP = 0.21 lb TRS/hr × 1 hr/79.90 ADTFP = 0.00263 lb TRS/ADTFP

[4] maximum production from June 2019 and April 2020 Project Columbia construction permit applications (construction permit DF)

[5] lb TRS/hr = 0.00263 lb/ADTFP × 3000 ADTFP/day × 1 day/24 hr = 0.329 lb TRS/hr

Table A-4
Smelt Dissolving Tanks Stack Test Results
New-Indy Catawba - Catawba, SC

SMELT DISSOLVING TANKS					
	SOURCE TEST			MAXIMUM	
	lb/hr[1]	TBLS/hr[2]	lb/TBLS[3]	TBLS/day[4]	lb/hr[5]
H_2S	9.40E-01	118.0	7.97E-03	3169	1.05E+00
TRS (as H_2S)	1.14E+00	118.0	9.66E-03	3169	1.28E+00

[1] mean emissions rate from Table 2-10, Weston Stack Test Report (1 October 2021)

[2] average production during source test runs conducted on June 27, 2021

[3] lb TRS/TBLS = 1.14 lb TRS/hr × 1 hr/118.0 TBLS = 0.00966 lb TRS/TBLS

[4] maximum production from July 1, 2019 Title V Operating Permit TV-2440-0005

[5] lb TRS/hr = 0.00966 lb/TBLS × 3169 TBLS/day × 1 day/24 hr = 1.28 lb TRS/hr

Table A-5
Combination Boilers Stack Test Results
New-Indy Catawba - Catawba, SC

COMBINATION BOILER No. 1 - CONDITION 1: NCG + SOG					
	SOURCE TEST			MAXIMUM	
	lb/hr[1]	ODTP/hr[2]	lb/ODTP[3]	ADTP/day[4]	lb/hr[5]
H_2S	7.00E-02	55.9	1.25E-03	2700	1.27E-01
TRS (as H_2S)	7.50E-01	55.9	1.34E-02	2700	1.36E+00
SO_2	360.9	55.9	6.46E+00	2700	653.7

[1] mean emissions rate from Table 2-11, Weston Stack Test Report (1 October 2021)

[2] average production during source test runs conducted on June 23, 2021

[3] lb TRS/ODTP = 0.75 lb TRS/hr × 1 hr/55.9 ODTP = 0.0134 lb TRS/ODTP

[4] maximum production from June 2019 and April 2020 Project Columbia construction permit applications (construction permit DF)

[5] lb TRS/hr = 0.0134 lb/ODTP × 2700 ADTP/day × 0.9 ODTP/1.0 ADTP × 1 day/24 hr = 1.36 lb TI

COMBINATION BOILER No. 1 - CONDITION 2: NCG ONLY					
	SOURCE TEST			MAXIMUM	
	lb/hr[1]	ODTP/hr[2]	lb/ODTP[3]	ADTP/day[4]	lb/hr[5]
H_2S	5.00E-02	76.0	6.58E-04	2700	6.66E-02
TRS (as H_2S)	6.80E-01	76.0	8.95E-03	2700	9.06E-01
SO_2	436.1	76.0	5.74E+00	2700	581.0

[1] mean emissions rate from Table 2-12, Weston Stack Test Report (1 October 2021)

[2] average production during source test runs conducted on June 23, 2021

[3] lb TRS/ODTP = 0.68 lb TRS/hr × 1 hr/76.0 ODTP = 0.00895 lb TRS/ODTP

[4] maximum production from June 2019 and April 2020 Project Columbia construction permit applications (construction permit DF)

[5] lb TRS/hr = 0.00895 lb/ODTP × 2700 ADTP/day × 0.9 ODTP/1.0 ADTP × 1 day/24 hr = 0.906 lb

COMBINATION BOILER No. 2 - CONDITION 1: NCG + SOG					
	SOURCE TEST			MAXIMUM	
	lb/hr[1]	ODTP/hr[2]	lb/ODTP[3]	ADTP/day[4]	lb/hr[5]
H_2S	7.00E-02	88.3	7.92E-04	2700	8.02E-02
TRS (as H_2S)	8.50E-01	88.3	9.62E-03	2700	9.74E-01
SO_2	504.0	88.3	5.71E+00	2700	577.7

[1] mean emissions rate from Table 2-13, Weston Stack Test Report (1 October 2021)

[2] average production during source test runs conducted on June 24, 2021

[3] lb TRS/ODTP = 0.85 lb TRS/hr × 1 hr/88.3 ODTP = 0.00962 lb TRS/ODTP

[4] maximum production from June 2019 and April 2020 Project Columbia construction permit applications (construction permit DF)

[5] lb TRS/hr = 0.00962 lb/ODTP × 2700 ODTP/day × 0.9 ODTP/1.0 ADTP × 1 day/24 hr = 0.974 lb

Table A-5
Combination Boilers Stack Test Results Cont.
New-Indy Catawba - Catawba, SC

COMBINATION BOILER No. 2 - CONDITION 2: NCG ONLY					
	SOURCE TEST			MAXIMUM	
	lb/hr[1]	ODTP/hr[2]	lb/ODTP[3]	ADTP/day[4]	lb/hr[5]
H_2S	4.00E-02	85.2	4.69E-04	2700	4.75E-02
TRS (as H_2S)	9.20E-01	85.2	1.08E-02	2700	1.09E+00
SO_2	376.4	85.2	4.42E+00	2700	447.1

[1] mean emissions rate from Table 2-14, Weston Stack Test Report (1 October 2021)

[2] average production during source test runs conducted on June 25, 2021

[3] lb TRS/ODTP = 0.92 lb TRS/hr × 1 hr/85.2 ODTP = 0.0108 lb TRS/ODTP

[4] maximum production from June 2019 and April 2020 Project Columbia construction permit applications (construction permit DF)

[5] lb TRS/hr = 0.0108 lb/ODTP × 2700 ADTP/day × 0.9 ODTP/1.0 ADTP × 1 day/24 hr = 1.09 lb TI

COMBINATION BOILER Worst-case					
	SOURCE TEST			MAXIMUM	
	lb/hr[1]				lb/hr[2]
H_2S	7.00E-02				1.27E-01
TRS (as H_2S)	9.20E-01				1.36E+00
SO_2	504.0				653.7

[1] worst-case lb SO2/hr = maximum(CB1 CDN1, CB1 CDN2, CB2 CDN1, CB2 CDN2) = maximum (360.9, 436.1, 504.0, 376.4) = 504.0 lb SO2/hr

[2] worst-case lb SO2/hr = maximum(CB1 CDN1, CB1 CDN2, CB2 CDN1, CB2 CDN2) = maximum (653.7, 581.0, 577.7, 447.1) = 653.7 lb SO2/hr

Table A-6
Paper Machine 2 Vents Stack Test Results
New-Indy Catawba - Catawba, SC

PAPER MACHINE 2 - VENT 1 (PM3 1+2)					
	SOURCE TEST[1]			MAXIMUM	
			lb/ADTFP[2]	ADTFP/day[3]	lb/hr[4]
H_2S			1.43E-03	716.8	4.27E-02
TRS (as H_2S)			4.43E-03	716.8	1.32E-01

[1] Paper Machine No. 2 has not restarted operation following the conversion to unbleached paper manufacturing and was not tested in June 2021

[2] lb TRS/ADTFP = PM3 vent 1 + PM3 vent 2 = 0.00141 + 0.00302 = 0.00443 lb TRS/ADTFP

[3] maximum production from June 2019 and April 2020 Project Columbia construction permit applications (construction permit DF)

[4] lb TRS/hr = 0.00443 lb/ADTFP × 716.8 ADTFP/day × 1 day/24 hr = 0.132 lb TRS/hr

PAPER MACHINE 2 - VENT 2 (PM3 3+4+6)					
	SOURCE TEST[1]			MAXIMUM	
			lb/ADTFP[2]	ADTFP/day[3]	lb/hr[4]
H_2S			2.36E-03	716.8	7.06E-02
TRS (as H_2S)			7.07E-03	716.8	2.11E-01

[1] Paper Machine No. 2 has not restarted operation following the conversion to unbleached paper manufacturing and was not tested in June 2021

[2] lb TRS/ADTFP = PM3 vent 3 + PM3 vent 4 + PM3 vent 6 = 0.00371 + 0.00142 + 0.00194 = 0.00707 lb TRS/ADTFP (there is no vent 5)

[3] maximum production from June 2019 and April 2020 Project Columbia construction permit applications (construction permit DF)

[4] lb TRS/hr = 0.00707+ lb/ADTFP × 716.8 ADTFP/day × 1 day/24 hr = 0.211 lb TRS/hr

PAPER MACHINE 2 - VENT 3 (PM3 7+8)					
	SOURCE TEST[1]			MAXIMUM	
			lb/ADTFP[2]	ADTFP/day[3]	lb/hr[4]
H_2S			1.02E-03	716.8	3.05E-02
TRS (as H_2S)			4.97E-03	716.8	1.48E-01

[1] Paper Machine No. 2 has not restarted operation following the conversion to unbleached paper manufacturing and was not tested in June 2021

[2] lb TRS/ADTFP = PM3 vent 1 + PM3 vent 2 = 0.00234 + 0.00263 = 0.00497 lb TRS/ADTFP

[3] maximum production from June 2019 and April 2020 Project Columbia construction permit applications (construction permit DF)

[4] lb TRS/hr = 0.00497 lb/ADTFP × 716.8 ADTFP/day × 1 day/24 hr = 0.148 lb TRS/hr

Table A-7
Post-Aeration Basin Vent Stack Test Results
New-Indy Catawba - Catawba, SC

POST AERATION BASIN VENT						RUN 1 (7-15-2021)					RUN 2 (7-21-2021)					RUN 3 (7-28-2021)				
		SOURCE TEST		MAXIMUM		Flow[1]	Conc[2]	Emissions[3]	Rate[4]	Factor[5]	Flow	Conc	Emissions	Rate	Factor	Flow	Conc	Emissions	Rate	Factor
	MW	lb/hr	lb/ODTP	ADTP/day[9]	lb/hr	cfm	ppm	lb/hr	ODTP/hr	lb/ODTP	cfm	ppm	lb/hr	ODTP/hr	lb/ODTP	cfm	ppm	lb/hr	ODTP/hr	lb/ODTP
H_2S[6]	34.08	8.17E-04	1.10E-05	2700	1.11E-03	3000	0.048	7.64E-04	59.59	1.28E-05	3000	0.068	1.08E-03	84.3	1.28E-05	3000	0.038	6.05E-04	84.2	7.19E-06
MM[7]	48.11	2.60E-03	4.01E-05	2700	4.06E-03															
DMS[7]	62.14	7.01E-03	1.08E-04	2700	1.10E-02															
DMDS[7]	94.2	8.33E-03	1.29E-04	2700	1.30E-02															
TRS (as H_2S)[8]	34.08	1.25E-02			1.94E-02															

[1] design vent flow rate

[2] concentration measured using ScenTroid vent sampler

[3] lb H_2S/hr = conc × MW × flow × 60 ÷ conversion factor = 0.048 ppm H_2S x 34.08 x 3000 cfm x 60 min/hr ÷ 385,300,000 = 7.64e-04 lb/hr

[4] daily average hourly pulp production rate

[5] lb H_2S/ODTP = 7.64e-04 lb H_2S/hr × 1 hr/59.59 ODTP = 1.28e-05 lb H_2S/ODTP

[6] average of three test runs

[7] WATER9 model results for surface and sub-surface areation summed and converted from g/s to lb/hr

[8] H_2S, MM, DMS and DMDS converted to H_2S basis using molecular weight of each compound

[9] maximum production from June 2019 and April 2020 Project Columbia construction permit applications (construction permit DF)

Table A-8
Ditch 0 + Splitter Box Water9 Model Results
New-Indy Catawba - Catawba, SC

DITCH 0 + SPLITTER BOX														
		ACTUAL									MAXIMUM			
	MW	g/s	Reference	Justification	sq meters[5]	g/s-sq meter[6]	lb/hr[7]	ODTP/day[8]	lb/ODTP[9]	ADTP/day[10]	lb/hr[11]	g/s[12]	g/s-sq meter[13]
H_2S	34.08	1.57E-05	WATER9, NCASI TB 1000[2]	WATER9 and Free Sulfide Tool	222.65	7.07E-08	1.25E-04	1553.08	1.93E-06	2700	1.95E-04	2.46E-05	1.11E-07
MM[1]	48.11	7.19E-05	WATER9[3]	USEPA Emissions Model for Wastewater Treatment Plants	222.65	3.23E-07	5.71E-04	1553.08	8.82E-06	2700	8.93E-04	1.12E-04	5.05E-07
DMS[1]	62.14	7.67E-03	WATER9[3]	USEPA Emissions Model for Wastewater Treatment Plants	222.65	3.44E-05	6.08E-02	1553.08	9.40E-04	2700	9.52E-02	1.20E-02	5.39E-05
DMDS[1]	94.20	1.47E-03	WATER9[3]	USEPA Emissions Model for Wastewater Treatment Plants	222.65	6.59E-06	1.16E-02	1553.08	1.80E-04	2700	1.82E-02	2.30E-03	1.03E-05
TRS (as H_2S)	34.08	5.33E-03	Summation[4]	Summation of H_2S, MM, DMS and DMDS converted to common H_2S basis based on molecular weight of sulfur in each constituent	222.65	2.40E-05	4.23E-02	1553.08	6.54E-04	2700	6.62E-02	8.34E-03	3.75E-05

[1] includes emissions from Ditch 0 (open from Primary Clarifier to Splitter Box), Splitter Box, and enclosed pipe from Splitter Box to Ditch 1

[2] H_2S emissions rate (g/s) calculated based on the site-specific liquid H_2S concentration from the July 9-11, 2021 initial performance test (IPT) under 40 CFR 63, Subpart S, adjusted for pH using the NCASI Free Sulfide Tool (as described in NCASI Technical Bulletin 1000, section 3.2), and the site-specific WATER9 program mass transfer coefficient for Ditch #0 + Splitter Box. Calculations of the fraction of H_2S and the H_2S emissions rate is provided in the attached spreadsheet Ditch #0 Calcs.xlsx. USEPA WATER9 Program, Version 3.0 is posted at: https://www3.epa.gov/ttnchie1/software/water/water9_3/index.html. The basis for the input values and the output files from the WATER9 Program are also attached.

[3] MM, DMS, and DMDS emissions rates (g/s) calculated based on site-specific MM, DMS, and DMDS liquid concentrations from the July 9-11, 2021 IPT and configuration of the Ditch #0 + Splitter Box utilizing the USEPA WATER9 Program, Version 3.0, posted at: https://www3.epa.gov/ttnchie1/software/water/water9_3/index.html. The basis for the input values and the output files from the WATER9 Program are also attached.

[4] 5.33E-03 g TRS/s = [(1.57E-05 g H2S/s x 32.07 mol S/g ÷ 34.08 mol H2S/g) + (7.19E-05 g MM/s x 32.07 mol S/g ÷ 48.11 mol MM/g) + (7.67E-03 g DMS/s x 32.07 mol S/g ÷ 62.14 mol DMS/g) + (1.47E-03 g DMDS/s x 64.14 mol S/g ÷ 94.20 mol DMDS/g)] x (34.08 mol H2S/g÷ 32.07 mol S/g)

[5] Ditch 0 is 3.65 meters wide and 61 meters long = 3.65 × 61 = 222.65 sq meters

[6] g TRS/s-sq meter = 5.33E-03 g TRS/s ÷ 222.65 sq meters = 2.40E-05 g TRS/s-sq meter

[7] lb TRS/hr = 5.33E-03 g TRS/s x 3600 s/hr ÷ 453.592 g TRS/lb TRS = 4.23E-02 lb TRS/hr

[8] average pulp production during sampling on July 9, 10 and 11 (1694.16, 1609.17, 1355.92 ODTP/day)

[9] lb TRS/ODTP = 4.23E-02 lb TRS/hr x 1 hr/1553.08 ODTP = 6.54E-04 lb TRS/ODTP

[10] maximum production from June 2019 and April 2020 Project Columbia construction permit applications (construction permit DF)

[11] lb TRS/hr = 6.54E-04 lb TRS/ODTP x 2700 ADTP/day x 1 day/24 hr x 0.9 ODTP/1.0 ADTP = 6.62E-02 lb TRS/hr

[12] g TRS/s = 6.62E-02 lb TRS/hr x 453.592 g TRS/lb TRSx 1 hr/3600 s = 8.34E-03 g TRS/s

[13] g TRS/s-sq meter = 8.34E-03 g TRS/s ÷ 222.65 sq meters = 3.75E-05 g TRS/s-sq meter

Table A-9
Primary Clarifier Water9 Model Results
New-Indy Catawba - Catawba, SC

PRIMARY CLARIFIER														
		ACTUAL									MAXIMUM			
	MW	g/s	Reference	Justification	sq meters[5]	g/s-sq meter[6]	lb/hr[7]	ODTP/day[8]	lb/ODTP[9]	ADTP/day[10]	lb/hr[11]	g/s[12]	g/s-sq meter[13]
H_2S	34.08	1.31E-02	H2SSIM[2]	National Council for Air and Stream Improvement (NCASI) model for pulp and paper biological wastewater system H_2S emissions	5542	2.37E-06	1.04E-01	1553.08	1.61E-03	2700	1.63E-01	2.05E-02	3.70E-06
MM	48.11	1.40E-04	WATER9[3]	USEPA Emissions Model for Wastewater Treatment Plants	5542	2.53E-08	1.11E-03	1553.08	1.72E-05	2700	1.74E-03	2.20E-04	3.96E-08
DMS	62.14	1.63E-02	WATER9[3]	USEPA Emissions Model for Wastewater Treatment Plants	5542	2.94E-06	1.29E-01	1553.08	2.00E-03	2700	2.02E-01	2.55E-02	4.59E-06
DMDS	94.20	3.36E-03	WATER9[3]	USEPA Emissions Model for Wastewater Treatment Plants	5542	6.06E-07	2.67E-02	1553.08	4.12E-04	2700	4.17E-02	5.26E-03	9.49E-07
TRS (as H_2S)	34.08	2.46E-02	Summation[4]	Summation of H_2S, MM, DMS and DMDS converted to common H_2S basis based on molecular weight of sulfur in each constituent	5542	4.43E-06	1.95E-01	1553.08	3.01E-03	2700	3.05E-01	3.84E-02	6.94E-06

[1] Reserved.

[2] H2SSIM model results for wastewater samples collected on July 9, July 10 and July 11 (15.2 lb/yr) during the 40 CFR 63, Subpart S IPT converted to grams per second [15.2 lb/yr * 453.592 grams/lb / (8760 hrs/yr * 60 s/min)]. The NCASI H2SSIM model that calculates the sulfide fate and transport in wastewater treatment basins is documented in NCASI TB 1000. Input and output files from the H2SSIM model are attached.

[3] Average of WATER9 model results for wastewater samples collected on July 9, July 10 and July 11 during the 40 CFR 63, Subpart S IPT. USEPA WATER9 Program, Version 3.0, posted at: https://www3.epa.gov/ttnchie1/software/water/water9_3/index.html. The basis for the input values and the output files from the WATER9 Program are also attached.

[4] 2.46E-02 g TRS/s = [(1.31E-02 g H2S/s x 32.07 mol S/g ÷ 34.08 mol H2S/g) + (1.40E-04 g MM/s x 32.07 mol S/g ÷ 48.11 mol MM/g) + (1.63E-02 g DMS/s x 32.07 mol S/g ÷ 62.14 mol DMS/g) + (3.36E-03 g DMDS/s x 64.14 mol S/g ÷ 94.20 mol DMDS/g)] x (34.08 mol H2S/g÷ 32.07 mol S/g)

[5] Ditch 0 is 3.65 meters wide and 61 meters long = 3.65 × 61 = 222.65 sq meters

[6] g TRS/s-sq meter = 2.46E-02 g TRS/s ÷ 5541.76944093239 sq meters = 4.43E-06 g TRS/s-sq meter

[7] lb TRS/hr = 2.46E-02 g TRS/s x 3600 s/hr ÷ 453.592 g TRS/lb TRS = 1.95E-01 lb TRS/hr

[8] average pulp production during sampling on July 9, 10 and 11 (1694.16, 1609.17, 1355.92 ODTP/day)

[9] lb TRS/ODTP = 1.95E-01 lb TRS/hr x 1 hr/1553.08 ODTP = 3.01E-03 lb TRS/ODTP

[10] maximum production from June 2019 and April 2020 Project Columbia construction permit applications (construction permit DF)

[11] lb TRS/hr = 3.01E-03 lb TRS/ODTP x 2700 ADTP/day x 1 day/24 hr x 0.9 ODTP/1.0 ADTP = 3.05E-01 lb TRS/hr

[12] g TRS/s = 3.05E-01 lb TRS/hr x 453.592 g TRS/lb TRSx 1 hr/3600 s = 3.84E-02 g TRS/s

[13] g TRS/s-sq meter = 3.84E-02 g TRS/s ÷ 5541.76944093239 sq meters = 6.94E-06 g TRS/s-sq meter

Table A-10
Equalization Basin Water9 Model Results
New-Indy Catawba - Catawba, SC

EQUALIZATION BASIN[1]													
		ACTUAL								MAXIMUM			
	MW	g/s	Reference	Justification	sq meters[5]	g/s-sq meter[6]	lb/hr[7]	ODTP/day[8]	lb/ODTP[9]	ADTP/day[10]	lb/hr[11]	g/s[12]	g/s-sq meter[13]
H_2S	34.08	4.56E-03	NCASI Form R and TB 956 and 1000[2]	NCASI Toxics Release Inventory (TRI) Form R Guidance and Free Sulfide Tool	7616	5.99E-07	3.62E-02	1553.08	5.59E-04	2700	5.66E-02	7.14E-03	9.37E-07
MM[3]	48.11												
DMS[3]	62.14												
DMDS[3]	94.20												
TRS (as H_2S)	34.08	4.56E-03	Summation[4]	Summation of H_2S, MM, DMS and DMDS converted to common H_2S basis based on molecular weight of sulfur in each constituent	7616	5.99E-07	3.62E-02	1553.08	5.59E-04	2700	5.66E-02	7.14E-03	9.37E-07

[1] Equalization Basin area includes open channel along northern edge between open surface area on western side to Ditch 1 on eastern side

[2] NCASI Handbook of Chemical-Specific Information for Superfund Amendments and Reauthorization Act (SARA) Section 313 Form R Reporting - Pulp and Paper Facilities. Hydrogen Sulfide, Table 4 "WWTP PARTITIONING AND EMISSIONS OF HYDROGEN SULFIDE", Sludge Pond mean emissions factor of 4.2 lb/(day-Acre). H_2S emissions factor adjusted for pH using the NCASI Free Sulfide Tool (as described in NCASI Technical Bulletin 1000, section 3.2) and documentation of the emissions rate calculation is provided in the attached spreadsheet "EQ Basin and Sludge Lagoon Calcs.xlsx".

[3] There are no emissions of MM, DMS, and DMDS reported from the equalization basin. Small amounts of MM, DMS, and DMDS that are contained in the water that remains with the sludge from the primary clarifier that is deposited in the equalization basin are assumed to be emitted in the primary clarifier, ditch #0, #1, and #2, or Aerated Stabilization Basin (ASB) Zones 1-3.

[4] 4.56E-03 g TRS/s = [(4.56E-03 g H2S/s x 32.07 mol S/g ÷ 34.08 mol H2S/g) + (0.00E+00 g MM/s x 32.07 mol S/g ÷ 48.11 mol MM/g) + (0.00E+00 g DMS/s x 32.07 mol S/g ÷ 62.14 mol DMS/g) + (0.00E+00 g DMDS/s x 64.14 mol S/g ÷ 94.20 mol DMDS/g)] x (34.08 mol H2S/g÷ 32.07 mol S/g

[5] Ditch 0 is 3.65 meters wide and 61 meters long = 3.65 × 61 = 222.65 sq meters

[6] g TRS/s-sq meter = 4.56E-03 g TRS/s ÷ 7616 sq meters = 5.99E-07 g TRS/s-sq meter

[7] lb TRS/hr = 4.56E-03 g TRS/s x 3600 s/hr ÷ 453.592 g TRS/lb TRS = 3.62E-02 lb TRS/hr

[8] average pulp production during sampling on July 9, 10 and 11 (1694.16, 1609.17, 1355.92 ODTP/day)

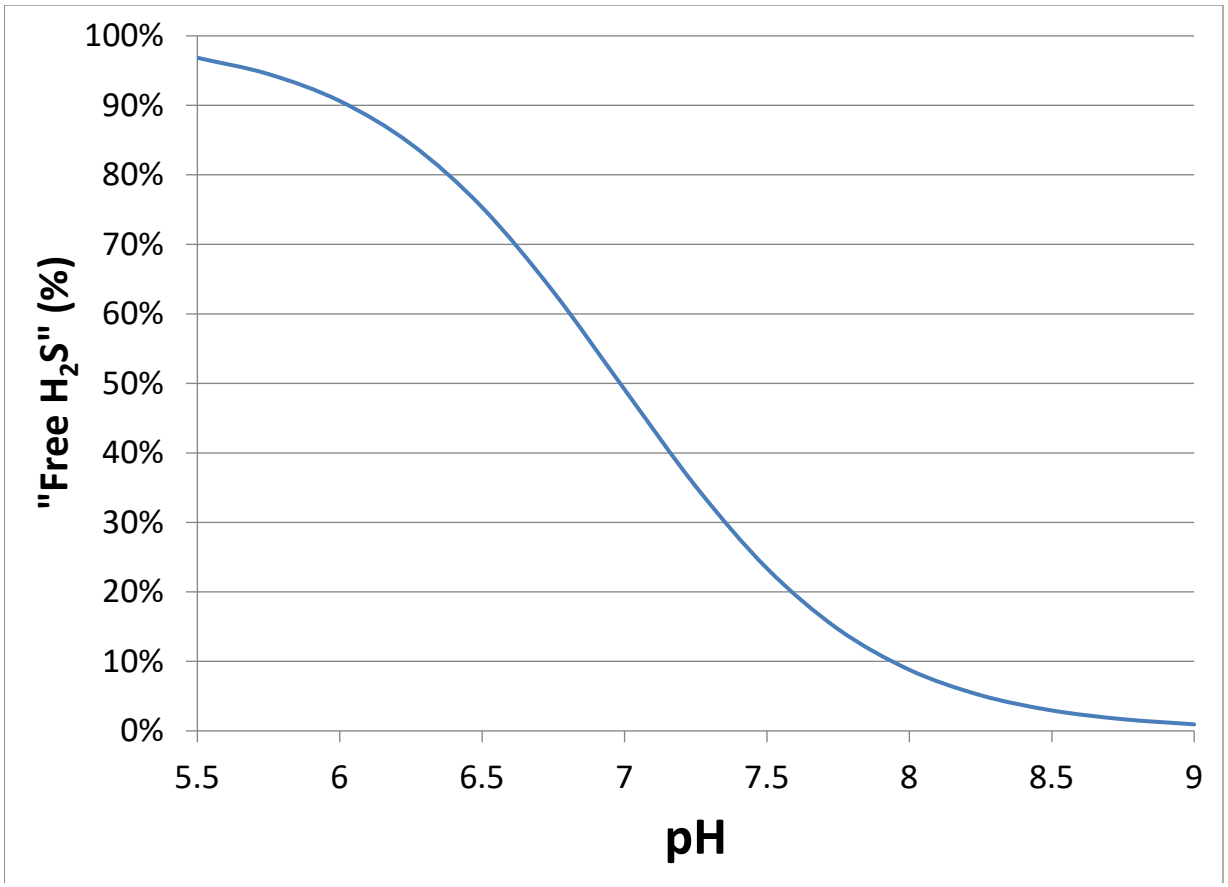
[9] lb TRS/ODTP = 3.62E-02 lb TRS/hr x 1 hr/1553.08 ODTP = 5.59E-04 lb TRS/ODTP

[10] maximum production from June 2019 and April 2020 Project Columbia construction permit applications (construction permit DF)

[11] lb TRS/hr = 5.59E-04 lb TRS/ODTP x 2700 ADTP/day x 1 day/24 hr x 0.9 ODTP/1.0 ADTP = 5.66E-02 lb TRS/hr

[12] g TRS/s = 5.66E-02 lb TRS/hr x 453.592 g TRS/lb TRSx 1 hr/3600 s = 7.14E-03 g TRS/s

[13] g TRS/s-sq meter = 7.14E-03 g TRS/s ÷ 7616 sq meters = 9.37E-07 g TRS/s-sq meter


100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
"Free H2S" (%)
5.5
6
6.5
7
7.5
8
8.5
9
pH

Equalization Basin H2S Emissions Calculation

4.2	lb/day-acre	NCASI SARA HB Emissions Factor for Sludge Pond
49.12%		Percent H2S emitted at average pH of ponds tested for NCASI emissions factor (average pH 7).
1.881955	acre	Free water surface Area of EQ Basin
5.4%		Percent H2S emitted at site-specific pH of 8.22

$$\frac{4.2}{\text{lb/day-acre}} \times \frac{5.40\%}{49.12\%} \times \frac{1\ \text{day}}{24\ \text{hrs}} \times \frac{1.881955}{\text{acre}} \times \frac{0.125998\ \text{g/s}}{1\ \text{lb/hr}}$$

H2S emissions rate

0.00456 g/s

Free Sulfide Fraction Calculation Tool

pH	8.23
K1	1.036E-07
K2	6.43E-16
Free Fraction	5.402%

Convert Total Sulfide to H2S(dissolved)

Hydrogen Concentration	5.91562E-09
Hydrogen Concenration	5.91562E-12

Convert Total Sulfide Measurement to H2S(dissolved)

5.5	96.8%
5.75	94.5%
6	90.6%
6.25	84.4%
6.5	75.3%
6.75	63.2%
7	49.1%
7.25	35.2%
7.5	23.4%
7.75	14.7%
8	8.8%
8.25	5.1%
8.5	3.0%
8.75	1.7%
9	1.0%

PART II. CHEMICAL-SPECIFIC INFORMATION FOR HYDROGEN SULFIDE

The NCASI Handbook for SARA 313 Reporting and underlying Chemical-Specific Information Sheets (CISs) are intended to serve as an information resource to facilities in fulfilling their reporting requirements. These documents are not meant to replace engineering judgement, site-specific considerations or other technical knowledge.

SECTION 1. TOXIC CHEMICAL IDENTITY

In this Section, a facility describes the SARA 313 chemical.

1.1 CAS Number – 7783-06-04

1.2 Toxic Chemical or Chemical Category Name - Hydrogen Sulfide

1.3 Generic Chemical Name –

This Section applies only for trade secret submissions**.**

SECTION 2. MIXTURE COMPONENT IDENTITY

Report the generic name in this Section if the facility and the supplier both claim the chemical identity as proprietary or trade secret. A facility that seeks to use this section should consult the TRI Reporting Instructions for more information.

SECTION 3. ACTIVITIES AND USES OF THE TOXIC CHEMICAL AT THE FACILITY

In this Section, indicate the threshold category, or categories, exceeded for the specific SARA 313 Chemical. Note that while amounts of threshold activity are not reported in this section, a facility may wish to have supporting threshold calculations available for review.

3.1 Manufacture the toxic chemical:

Trace quantities of hydrogen sulfide may be manufactured as a byproduct during (a) pulp bleaching, and (b) chemical recovery operations. For determining whether the manufacturing threshold has been exceeded, four categories should be considered: (1) total air emissions, (2) amount present in non-condensable gases (NCGs) sent for incineration, (3) amount released to the wastewater treatment plant (WWTP), and (4) amount present in strong liquors as-fired.

TABLE 4 WWTP PARTITIONING AND EMISSIONS OF HYDROGEN SULFIDE[a]

	PRIMARY CLARIFIER (PC) n = 4	AERATED STABILIZATION BASIN (ASB) n = 3	ACTIVATED SLUDGE TREATMENT (AST) n = 1
Percent Volatilized	0.3 – 3.4% Mean = 1.4%	0.3 – 35% Mean = 8.8%	1.5%
Percent Biodegraded	--	65 – 99.7%	98.5%
Percent in Effluent	96.6 – 99.7% Mean = 98.6%	<0.1%	<0.1%
Percent Overall Removal	Mean = 1.4%	>99.9%	>99.9%

	PRIMARY SETTLING BASIN (PSB) n = 2	SLUDGE POND (SP) n = 6
Emission Factor[b]	0.88 – 54.1 lb/(day Acre) Mean = 20.2 lb/(day Acre)	0.04 – 10.8 lb/(day Acre) Mean = 4.2 lb/(day Acre)
Sulfide Generation Factor[c]	1.5 – 3.8 x Inlet Load Mean = 2.4 x Inlet Load	N/A

[a] NCASI 2008
[b] Emission factors for PSBs and SPs are a function of *free liquid* surface
[c] This value can be used to estimate the sulfide generated in a primary settling basin

3.2 Process the toxic chemical:

The SARA Section 313 regulations define "processing" as an incorporative activity; the level of this threshold activity therefore depends on how much of the chemical is intended to remain in the finished product. While hydrogen sulfide is generally not "processed" in this industry, facilities may wish to review the content of any additives used in the process.

3.3 Otherwise use the toxic chemical:

This would be the sum of all the hydrogen sulfide used at the manufacturing site in ancillary activities. A 10,000 lb/yr reporting threshold applies for this category. While hydrogen sulfide is generally not "otherwise used" in this industry, facilities may wish to review the content of their fuels, chemical and processing aids and other chemicals on site.

SECTION 4. MAXIMUM AMOUNT OF THE TOXIC CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

4.1 _____ (Enter two-digit code from instruction package.)

In this Section, report the range of weights of the SARA 313 chemical that is on-site "at any time during the calendar year". A facility should calculate or estimate the maximum quantity of hydrogen sulfide that is on-site and then report using the range codes in the TRI instructions.

3.2 Sulfide Dissociation

Inorganic, free sulfide can exist in three forms, the concentrations of which depend upon the wastewater pH. H2SSIM calculates the effect of pH on the predominant sulfide form present in the wastewater. This calculation is significant because only H_2S is a volatile form of sulfide.

At the near neutral pH conditions encountered in most wastewaters undergoing biological treatment, hydrogen sulfide dissociates to yield a hydrogen ion and hydrogen sulfide ion (Equation 3.4).

$$H_2S \leftrightarrow H^+ + HS^- \qquad \text{Equation 3.4}$$

At very high pH levels, the hydrogen sulfide ion can dissociate again to a hydrogen ion and sulfur ion (Equation 3.5).

$$HS^- \leftrightarrow H^+ + S^{2-} \qquad \text{Equation 3.5}$$

When the reaction is considered to be at equilibrium, the reaction and concentration products can be defined by Equations 3.6 and 3.7.

$$K_1 = \frac{[H^+][HS^-]}{H_2S} \qquad \text{Equation 3.6}$$

$$K_2 = \frac{[H^+][S^{2-}]}{HS^-} \qquad \text{Equation 3.7}$$

If the reactions represented in Equations 3.4 and 3.5 are considered to occur much faster than the other processes in the overall mass balance equation, a local equilibrium holds (Chapra 1997) and the sulfide dissociation reaction can be solved outside of the sulfide mass balance equation.

If a local equilibrium exists for sulfide dissociation, the fraction of total sulfide that exists as each species at the specified pH can be calculated (Equations 3.8 through 3.10).

$$F_{HS} = \frac{K_1[H^+]}{1+K_1[H^+]+K_1K_2[H^+]^2} \qquad \text{Equation 3.8}$$

$$F_{H_2S} = \frac{K_1K_2[H^+]^2}{1+K_1[H^+]+K_1K_2[H^+]^2} \qquad \text{Equation 3.9}$$

$$F_S = \frac{1}{1+K_1[H^+]+K_1K_2[H^+]^2} \qquad \text{Equation 3.10}$$

Where: F_{HS} = Fraction of total sulfide as HS^-

F_{H2S} = Fraction of total sulfide as H_2S

F_S = Fraction of total sulfide as S^{2-}

The fraction of each sulfide species calculated by these equations with pKa1 = 7.04 and pKa = 11.96 is shown in Figure 3.2.

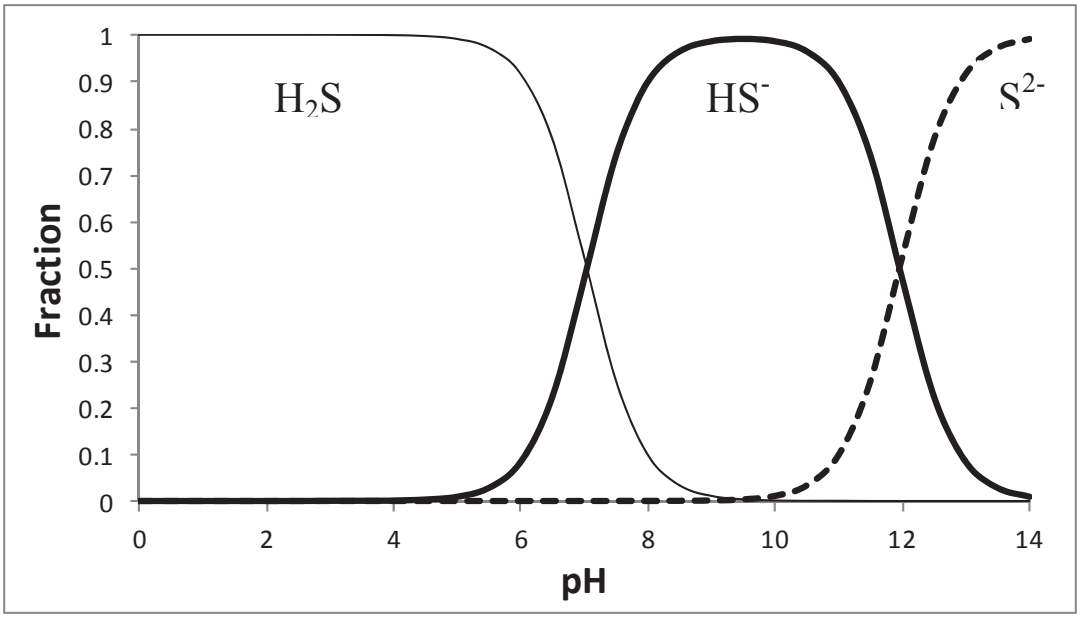


Figure 3.2 Fraction of Sulfide Species as a Function of Wastewater pH

The fractions of each sulfide species are calculated internally by H2SSIM and used to define the concentration of each dissociated form as a function of pH and total sulfide concentration. A critical use of these fractions is calculating the amount of sulfide available to volatilize to the atmosphere as H_2S (i.e., the volatilization term in Equation 3.2).

3.3 Generation of Sulfide in Wastewater

Sulfide can be generated in wastewater when conditions are favorable. These conditions include sufficient concentration of the reactants and an anoxic (i.e., dissolved oxygen is near zero) environment. A quantitative expression relating the sulfide generation rate to temperature, sulfate concentration, and oxygen concentration in pulp and paper wastewaters has been developed based on laboratory batch reactor experiments. The technical details of that study and subsequent equation development are reported in Appendix A.

The expression for sulfide generation in pulp and paper wastewaters is presented in Equation 3.11.

$$R_1 = k_{gen}\left(\frac{SO_4}{K_{SO_4} + SO_4}\right)\left(\frac{K_{DO}}{K_{DO} + DO}\right) \qquad \text{Equation 3.11}$$

Where: R_1 = Sulfide generation rate (M/L^3T)
SO_4 = Sulfate concentration (M/L^3)
DO = Dissolved oxygen concentration (M/L^3)
k_{gen} = Generation rate coefficient at 20 °C (M/L^3T)
K_{SO4} = Sulfate half saturation coefficient (M/L^3)
K_{DO} = Oxygen half saturation coefficient (M/L^3)

Equation 3.11 states that the rate of sulfide generation is proportional to an empirical rate coefficient and may be limited by low sulfate concentrations or the presence of oxygen.

The rate of sulfide generation is also affected by temperature. The optimal temperature for sulfate reducing bacteria has been reported as 25 to 35°C. The temperature correction should account for bacterial inhibition at temperatures greater than 35°C as in Equations 3.12 and 3.13.

When the wastewater temperature is 35°C or less, the model uses

$$k_{Temp} = k_{20}\theta^{Temp-20} \qquad \text{Equation 3.12}$$

Where θ = Temperature coefficient
k_{Temp} = Rate coefficient at actual temperature
k_{20} = rate coefficient at 20°
Temp = Temperature °C

When the wastewater temperature is greater than 35°C, the model uses

$$k_{Temp} = k_{20}\theta^{15} * \theta_2^{Temp-35} \qquad \text{Equation 3.13}$$

Where: θ_2 = Second temperature coefficient

The overall effect of Equations 3.12 and 3.13 is an increasing rate coefficient up to 35 °C. As temperatures increase further, the rate coefficient decreases. Details concerning Equation 3.13 can be found in NCASI (1985b).

3.4 Sulfide Oxidation

Sulfide is oxidized rapidly to sulfate and several intermediate sulfur species when exposed to aerobic conditions. A commonly used sulfide oxidation rate equation was found to adequately describe sulfide oxidation data from pulp and paper mill wastewaters (Palumbo, Brown, and Stratton 2010). This equation is presented here as Equation 3.14.

$$R_2 = k_{ox} S_{-II}{}^{m} (DO)^{n} \qquad \text{Equation 3.14}$$

Where: R_2 = Rate of sulfide oxidation (M/L^3T)
k_{ox} = Aerobic sulfide oxidation coefficient (T^{-1})
S_{-II} = Sulfide concentration (M/L)
DO = Dissolved oxygen concentration (M/L)
m = order of reaction with respect to sulfide (-)
n = order of reaction with respect to oxygen (-)

The sulfide oxidation rate changes as a function of pH. This change is represented in the model through a varying oxidation rate coefficient. The relationship between the rate coefficient and pH is shown in Equation 3.15. The derivation of Equation 3.15 is described in Appendix B.

$$k_{ox} = 7.16 * (1 - \exp(-0.84 * (pH - 6.15)) \qquad \text{Equation 3.15}$$

In Equation 3.15, it is assumed that the oxidation rate coefficient is zero below a pH value of 6.15.

When oxygen is absent, sulfide is more slowly oxidized in wastewaters. The rate of sulfide oxidation under anoxic conditions can be modeled using a modification of Equation 3.14. The development of this equation is presented in Appendix B.

$$R_2 = k_{anox} S_{-II}^{m} \qquad \text{Equation 3.16}$$

Where k_{anox} = Anoxic sulfide oxidation rate coefficient (T^{-1})

Table A-11
Ditch #1 Water9 Model Results
New-Indy Catawba - Catawba, SC

DITCH 1														
		ACTUAL									MAXIMUM			
	MW	g/s	Reference	Justification	sq meters[5]	g/s-sq meter[6]	lb/hr[7]	ODTP/day[8]	lb/ODTP[9]	ADTP/day[10]	lb/hr[11]	g/s[12]	g/s-sq meter[13]
H_2S	34.08	2.10E-04	WATER9, NCASI TB 1000[2]	WATER9 and Free Sulfide Tool	2190	9.57E-08	1.66E-03	1553.08	2.57E-05	2700	2.60E-03	3.28E-04	1.50E-07
MM	48.11	4.50E-04	WATER9[3]	USEPA Emissions Model for Wastewater Treatment Plants	2190	2.05E-07	3.57E-03	1553.08	5.51E-05	2700	5.58E-03	7.03E-04	3.21E-07
DMS	62.14	5.04E-02	WATER9[3]	USEPA Emissions Model for Wastewater Treatment Plants	2190	2.30E-05	4.00E-01	1553.08	6.18E-03	2700	6.26E-01	7.88E-02	3.60E-05
DMDS	94.20	1.09E-02	WATER9[3]	USEPA Emissions Model for Wastewater Treatment Plants	2190	4.99E-06	8.68E-02	1553.08	1.34E-03	2700	1.36E-01	1.71E-02	7.81E-06
TRS (as H_2S)	34.08	3.61E-02	Summation[4]	Summation of H_2S, MM, DMS and DMDS converted to common H_2S basis based on molecular weight of sulfur in each constituent	2190	1.65E-05	2.86E-01	1553.08	4.43E-03	2700	4.48E-01	5.65E-02	2.58E-05

[1] Reserved.

[2] H_2S emissions rate (g/s) calculated based on the site-specific liquid H_2S concentration from the July 9-11, 2021 initial performance test (IPT) under 40 CFR 63, Subpart S, adjusted for pH using the NCASI Free Sulfide Tool (as described in NCASI Technical Bulletin 1000, section 3.2), and the site-specific WATER9 program mass transfer coefficient for Ditch #1. Calculations of the fraction of H_2S and the H_2S emissions rate is provided in the attached spreadsheet Ditch #1 Calcs.xlsx. USEPA WATER9 Program, Version 3.0 is posted at: https://www3.epa.gov/ttnchie1/software/water/water9_3/index.html. The basis for the input values and the output files from the WATER9 Program are also attached.

[3] MM, DMS, and DMDS emissions rates (g/s) calculated based on site-specific MM, DMS, and DMDS liquid concentrations from the July 9-11, 2021 IPT and configuration of the Ditch #1 utilizing the USEPA WATER9 Program, Version 3.0, posted at: https://www3.epa.gov/ttnchie1/software/water/water9_3/index.html. The basis for the input values and the output files from the WATER9 Program are also attached.

[4] 3.61E-02 g TRS/s = [(2.10E-04 g H2S/s x 32.07 mol S/g ÷ 34.08 mol H2S/g) + (4.50E-04 g MM/s x 32.07 mol S/g ÷ 48.11 mol MM/g) + (5.04E-02 g DMS/s x 32.07 mol S/g ÷ 62.14 mol DMS/g) + (1.09E-02 g DMDS/s x 64.14 mol S/g ÷ 94.20 mol DMDS/g)] x (34.08 mol H2S/g÷ 32.07 mol S/g)

[5] Ditch 0 is 3.65 meters wide and 61 meters long = 3.65 × 61 = 222.65 sq meters

[6] g TRS/s-sq meter = 3.61E-02 g TRS/s ÷ 2190 sq meters = 1.65E-05 g TRS/s-sq meter

[7] lb TRS/hr = 3.61E-02 g TRS/s x 3600 s/hr ÷ 453.592 g TRS/lb TRS = 2.86E-01 lb TRS/hr

[8] average pulp production during sampling on July 9, 10 and 11 (1694.16, 1609.17, 1355.92 ODTP/day)

[9] lb TRS/ODTP = 2.86E-01 lb TRS/hr x 1 hr/1553.08 ODTP = 4.43E-03 lb TRS/ODTP

[10] maximum production from June 2019 and April 2020 Project Columbia construction permit applications (construction permit DF)

[11] lb TRS/hr = 4.43E-03 lb TRS/ODTP x 2700 ADTP/day x 1 day/24 hr x 0.9 ODTP/1.0 ADTP = 4.48E-01 lb TRS/hr

[12] g TRS/s = 4.48E-01 lb TRS/hr x 453.592 g TRS/lb TRSx 1 hr/3600 s = 5.65E-02 g TRS/s

[13] g TRS/s-sq meter = 5.65E-02 g TRS/s ÷ 2190 sq meters = 2.58E-05 g TRS/s-sq meter

Table A-12
Aerated Stabilization Basin - Zone 1 - Water9 Model Results
New-Indy Catawba - Catawba, SC

AERATED STABILIZATION BASIN - ZONE 1														
		ACTUAL									MAXIMUM			
	MW	g/s	Reference	Justification	sq meters[5]	g/s-sq meter[6]	lb/hr[7]	ODTP/day[8]	lb/ODTP[9]	ADTP/day[10]	lb/hr[11]	g/s[12]	g/s-sq meter[13]
H_2S	34.08	5.20E-02	H2SSIM[2]	National Council for Air and Stream Improvement (NCASI) model for pulp and paper biological wastewater system H_2S emissions	50625	1.03E-06	4.13E-01	1553.08	6.38E-03	2700	6.46E-01	8.14E-02	1.61E-06
MM	48.11	4.44E-02	WATER9[3]	USEPA Emissions Model for Wastewater Treatment Plants	50625	8.77E-07	3.52E-01	1553.08	5.44E-03	2700	5.51E-01	6.94E-02	1.37E-06
DMS	62.14	8.00E-02	WATER9[3]	USEPA Emissions Model for Wastewater Treatment Plants	50625	1.58E-06	6.35E-01	1553.08	9.81E-03	2700	9.93E-01	1.25E-01	2.47E-06
DMDS	94.20	3.96E-02	WATER9[3]	USEPA Emissions Model for Wastewater Treatment Plants	50625	7.82E-07	3.14E-01	1553.08	4.85E-03	2700	4.91E-01	6.19E-02	1.22E-06
TRS (as H_2S)	34.08	1.56E-01	Summation[4]	Summation of H_2S, MM, DMS and DMDS converted to common H_2S basis based on molecular weight of sulfur in each constituent	50625	3.08E-06	1.24E+00	1553.08	1.91E-02	2700	1.94E+00	2.44E-01	4.82E-06

[1] Reserved.

[2] Average of H2SSIM model results for Zone 1 ASB wastewater samples collected on July 9, July 10 and July 11 (0.0240 g/s, 0.0770 g/s, 0.0550 g/s) during the 40 CFR 63, Subpart S IPT. The NCASI H2SSIM model that calculates the sulfide fate and transport in wastewater treatment basins is documented in NCASI TB 1000. Input and output files from the H2SSIM model are attached.

[3] Average of WATER9 model results for Zone 1 ASB wastewater samples collected on July 9, July 10 and July 11 during the 40 CFR 63, Subpart S IPT. USEPA WATER9 Program, Version 3.0, posted at: https://www3.epa.gov/ttnchie1/software/water/water9_3/index.html. The basis for the input values and the output files from the WATER9 Program are also attached.

[4] 1.56E-01 g TRS/s = [(5.20E-02 g H2S/s x 32.07 mol S/g ÷ 34.08 mol H2S/g) + (4.44E-02 g MM/s x 32.07 mol S/g ÷ 48.11 mol MM/g) + (8.00E-02 g DMS/s x 32.07 mol S/g ÷ 62.14 mol DMS/g) + (3.96E-02 g DMDS/s x 64.14 mol S/g ÷ 94.20 mol DMDS/g)] x (34.08 mol H2S/g÷ 32.07 mol S/g)

[5] Ditch 0 is 3.65 meters wide and 61 meters long = 3.65 × 61 = 222.65 sq meters

[6] g TRS/s-sq meter = 1.56E-01 g TRS/s ÷ 50625 sq meters = 3.08E-06 g TRS/s-sq meter

[7] lb TRS/hr = 1.56E-01 g TRS/s x 3600 s/hr ÷ 453.592 g TRS/lb TRS = 1.24E+00 lb TRS/hr

[8] average pulp production during sampling on July 9, 10 and 11 (1694.16, 1609.17, 1355.92 ODTP/day)

[9] lb TRS/ODTP = 1.24E+00 lb TRS/hr x 1 hr/1553.08 ODTP = 1.91E-02 lb TRS/ODTP

[10] maximum production from June 2019 and April 2020 Project Columbia construction permit applications (construction permit DF)

[11] lb TRS/hr = 1.91E-02 lb TRS/ODTP x 2700 ADTP/day x 1 day/24 hr x 0.9 ODTP/1.0 ADTP = 1.94E+00 lb TRS/hr

[12] g TRS/s = 1.94E+00 lb TRS/hr x 453.592 g TRS/lb TRSx 1 hr/3600 s = 2.44E-01 g TRS/s

[13] g TRS/s-sq meter = 2.44E-01 g TRS/s ÷ 50625 sq meters = 4.82E-06 g TRS/s-sq meter

Table A-13
Aerated Stabilization Basin - Zone 2 - Water9 Model Results
New-Indy Catawba - Catawba, SC

AERATED STABILIZATION BASIN - ZONE 2														
		ACTUAL									MAXIMUM			
	MW	g/s	Reference	Justification	sq meters[5]	g/s-sq meter[6]	lb/hr[7]	ODTP/day[8]	lb/ODTP[9]	ADTP/day[10]	lb/hr[11]	g/s[12]	g/s-sq meter[13]
H_2S	34.08	4.00E-02	H2SSIM[2]	National Council for Air and Stream Improvement (NCASI) model for pulp and paper biological wastewater system H_2S emissions	66540	6.01E-07	3.17E-01	1553.08	4.91E-03	2700	4.97E-01	6.26E-02	9.41E-07
MM	48.11	1.26E-03	WATER9[3]	USEPA Emissions Model for Wastewater Treatment Plants	66540	1.90E-08	1.00E-02	1553.08	1.55E-04	2700	1.57E-02	1.98E-03	2.97E-08
DMS	62.14	2.66E-03	WATER9[3]	USEPA Emissions Model for Wastewater Treatment Plants	66540	4.00E-08	2.11E-02	1553.08	3.26E-04	2700	3.30E-02	4.16E-03	6.26E-08
DMDS	94.20	9.94E-04	WATER9[3]	USEPA Emissions Model for Wastewater Treatment Plants	66540	1.49E-08	7.89E-03	1553.08	1.22E-04	2700	1.23E-02	1.56E-03	2.34E-08
TRS (as H_2S)	34.08	4.31E-02	Summation[4]	Summation of H_2S, MM, DMS and DMDS converted to common H_2S basis based on molecular weight of sulfur in each constituent	66540	6.47E-07	3.42E-01	1553.08	5.28E-03	2700	5.35E-01	6.74E-02	1.01E-06

[1] Reserved.

[2] Average of H2SSIM model results for Zone 2 ASB wastewater samples collected on July 9, July 10 and July 11 (0.0250 g/s, 0.0430 g/s, 0.0520 g/s) during the 40 CFR 63, Subpart S IPT. The NCASI H2SSIM model that calculates the sulfide fate and transport in wastewater treatment basins is documented in NCASI TB 1000. Input and output files from the H2SSIM model are attached.

[3] Average of WATER9 model results for Zone 2 ASB wastewater samples collected on July 9, July 10 and July 11 during the 40 CFR 63, Subpart S IPT. USEPA WATER9 Program, Version 3.0, posted at: https://www3.epa.gov/ttnchie1/software/water/water9_3/index.html. The basis for the input values and the output files from the WATER9 Program are also attached.

[4] 4.31E-02 g TRS/s = [(4.00E-02 g H2S/s x 32.07 mol S/g ÷ 34.08 mol H2S/g) + (1.26E-03 g MM/s x 32.07 mol S/g ÷ 48.11 mol MM/g) + (2.66E-03 g DMS/s x 32.07 mol S/g ÷ 62.14 mol DMS/g) + (9.94E-04 g DMDS/s x 64.14 mol S/g ÷ 94.20 mol DMDS/g)] x (34.08 mol H2S/g÷ 32.07 mol S/g)

[5] Ditch 0 is 3.65 meters wide and 61 meters long = 3.65 × 61 = 222.65 sq meters

[6] g TRS/s-sq meter = 4.31E-02 g TRS/s ÷ 66539.5 sq meters = 6.47E-07 g TRS/s-sq meter

[7] lb TRS/hr = 4.31E-02 g TRS/s x 3600 s/hr ÷ 453.592 g TRS/lb TRS = 3.42E-01 lb TRS/hr

[8] average pulp production during sampling on July 9, 10 and 11 (1694.16, 1609.17, 1355.92 ODTP/day)

[9] lb TRS/ODTP = 3.42E-01 lb TRS/hr x 1 hr/1553.08 ODTP = 5.28E-03 lb TRS/ODTP

[10] maximum production from June 2019 and April 2020 Project Columbia construction permit applications (construction permit DF)

[11] lb TRS/hr = 5.28E-03 lb TRS/ODTP x 2700 ADTP/day x 1 day/24 hr x 0.9 ODTP/1.0 ADTP = 5.35E-01 lb TRS/hr

[12] g TRS/s = 5.35E-01 lb TRS/hr x 453.592 g TRS/lb TRSx 1 hr/3600 s = 6.74E-02 g TRS/s

[13] g TRS/s-sq meter = 6.74E-02 g TRS/s ÷ 66539.5 sq meters = 1.01E-06 g TRS/s-sq meter

Table A-14
Aerated Stabilization Basin - Zone 3 - Water9 Model Results
New-Indy Catawba - Catawba, SC

AERATED STABILIZATION BASIN - ZONE 3														
		ACTUAL									MAXIMUM			
	MW	g/s	Reference	Justification	sq meters[5]	g/s-sq meter[6]	lb/hr[7]	ODTP/day[8]	lb/ODTP[9]	ADTP/day[10]	lb/hr[11]	g/s[12]	g/s-sq meter[13]
H_2S	34.08	2.40E-02	H2SSIM[2]	National Council for Air and Stream Improvement (NCASI) model for pulp and paper biological wastewater system H_2S emissions	72352	3.32E-07	1.90E-01	1553.08	2.94E-03	2700	2.98E-01	3.76E-02	5.19E-07
MM	48.11	3.48E-05	WATER9[3]	USEPA Emissions Model for Wastewater Treatment Plants	72352	4.80E-10	2.76E-04	1553.08	4.26E-06	2700	4.32E-04	5.44E-05	7.51E-10
DMS	62.14	7.81E-05	WATER9[3]	USEPA Emissions Model for Wastewater Treatment Plants	72352	1.08E-09	6.20E-04	1553.08	9.58E-06	2700	9.70E-04	1.22E-04	1.69E-09
DMDS	94.20	1.55E-05	WATER9[3]	USEPA Emissions Model for Wastewater Treatment Plants	72352	2.14E-10	1.23E-04	1553.08	1.90E-06	2700	1.92E-04	2.42E-05	3.34E-10
TRS (as H_2S)	34.08	2.41E-02	Summation[4]	Summation of H_2S, MM, DMS and DMDS converted to common H_2S basis based on molecular weight of sulfur in each constituent	72352	3.33E-07	1.91E-01	1553.08	2.95E-03	2700	2.99E-01	3.77E-02	5.21E-07

[1] Reserved.

[2] Average of H2SSIM model results for Zone 3 ASB wastewater samples collected on July 9, July 10 and July 11 (0.0230 g/s, 0.0230 g/s, 0.0260 g/s) during the 40 CFR 63, Subpart S IPT. The NCASI H2SSIM model that calculates the sulfide fate and transport in wastewater treatment basins is documented in NCASI TB 1000. Input and output files from the H2SSIM model are attached.

[3] Average of WATER9 model results for Zone 3 ASB wastewater samples collected on July 9, July 10 and July 11 during the 40 CFR 63, Subpart S IPT. USEPA WATER9 Program, Version 3.0, posted at: https://www3.epa.gov/ttnchie1/software/water/water9_3/index.html. The basis for the input values and the output files from the WATER9 Program are also attached.

[4] 2.41E-02 g TRS/s = [(2.40E-02 g H2S/s x 32.07 mol S/g ÷ 34.08 mol H2S/g) + (3.48E-05 g MM/s x 32.07 mol S/g ÷ 48.11 mol MM/g) + (7.81E-05 g DMS/s x 32.07 mol S/g ÷ 62.14 mol DMS/g) + (1.55E-05 g DMDS/s x 64.14 mol S/g ÷ 94.20 mol DMDS/g)] x (34.08 mol H2S/g÷ 32.07 mol S/g)

[5] Ditch 0 is 3.65 meters wide and 61 meters long = 3.65 × 61 = 222.65 sq meters

[6] g TRS/s-sq meter = 2.41E-02 g TRS/s ÷ 72352.08 sq meters = 3.33E-07 g TRS/s-sq meter

[7] lb TRS/hr = 2.41E-02 g TRS/s x 3600 s/hr ÷ 453.592 g TRS/lb TRS = 1.91E-01 lb TRS/hr

[8] average pulp production during sampling on July 9, 10 and 11 (1694.16, 1609.17, 1355.92 ODTP/day)

[9] lb TRS/ODTP = 1.91E-01 lb TRS/hr x 1 hr/1553.08 ODTP = 2.95E-03 lb TRS/ODTP

[10] maximum production from June 2019 and April 2020 Project Columbia construction permit applications (construction permit DF)

[11] lb TRS/hr = 2.95E-03 lb TRS/ODTP x 2700 ADTP/day x 1 day/24 hr x 0.9 ODTP/1.0 ADTP = 2.99E-01 lb TRS/hr

[12] g TRS/s = 2.99E-01 lb TRS/hr x 453.592 g TRS/lb TRSx 1 hr/3600 s = 3.77E-02 g TRS/s

[13] g TRS/s-sq meter = 3.77E-02 g TRS/s ÷ 72352.08 sq meters = 5.21E-07 g TRS/s-sq meter

Table A-15
Ditch #2 - Water9 Model Results
New-Indy Catawba - Catawba, SC

DITCH 2														
		ACTUAL									MAXIMUM			
	MW	g/s	Reference	Justification	sq meters[5]	g/s-sq meter[6]	lb/hr[7]	ODTP/day[8]	lb/ODTP[9]	ADTP/day[10]	lb/hr[11]	g/s[12]	g/s-sq meter[13]
H_2S	34.08	1.56E-03	WATER9, NCASI TB 1000[2]	WATER9 and Free Sulfide Tool	1825	8.57E-07	1.24E-02	1553.08	1.92E-04	2700	1.94E-02	2.45E-03	1.34E-06
MM	48.11	3.69E-04	WATER9[3]	USEPA Emissions Model for Wastewater Treatment Plants	1825	2.02E-07	2.93E-03	1553.08	4.53E-05	2700	4.59E-03	5.78E-04	3.17E-07
DMS	62.14	1.67E-03	WATER9[3]	USEPA Emissions Model for Wastewater Treatment Plants	1825	9.13E-07	1.32E-02	1553.08	2.04E-04	2700	2.07E-02	2.61E-03	1.43E-06
DMDS	94.20	4.48E-04	WATER9[3]	USEPA Emissions Model for Wastewater Treatment Plants	1825	2.46E-07	3.56E-03	1553.08	5.50E-05	2700	5.57E-03	7.02E-04	3.84E-07
TRS (as H_2S)	34.08	3.06E-03	Summation[4]	Summation of H_2S, MM, DMS and DMDS converted to common H_2S basis based on molecular weight of sulfur in each constituent	1825	1.68E-06	2.43E-02	1553.08	3.76E-04	2700	3.80E-02	4.79E-03	2.63E-06

[1] Reserved.

[2] H_2S emissions rate (g/s) calculated based on the site-specific liquid H_2S concentration outlet calculated from Zone 3 ASB H2SSIMS, adjusted for pH using the NCASI Free Sulfide Tool (as described in NCASI Technical Bulletin 1000, section 3.2), and the site-specific WATER9 program mass transfer coefficient for Ditch #2. Calculations of the fraction of H_2S and the H_2S emissions rate is provided in the attached spreadsheet Ditch #2 Calcs.xlsx. USEPA WATER9 Program, Version 3.0 is posted at: https://www3.epa.gov/ttnchie1/software/water/water9_3/index.html. The basis for the input values and the output files from the WATER9 Program are also attached.

[3] MM, DMS, and DMDS emissions rates (g/s) calculated based on site-specific MM, DMS, and DMDS liquid concentrations from the July 9-11, 2021 IPT and configuration of the Ditch #2 utilizing the USEPA WATER9 Program, Version 3.0, posted at: https://www3.epa.gov/ttnchie1/software/water/water9_3/index.html. The basis for the input values and the output files from the WATER9 Program are also attached.

[4] 3.06E-03 g TRS/s = [(1.56E-03 g H2S/s x 32.07 mol S/g ÷ 34.08 mol H2S/g) + (3.69E-04 g MM/s x 32.07 mol S/g ÷ 48.11 mol MM/g) + (1.67E-03 g DMS/s x 32.07 mol S/g ÷ 62.14 mol DMS/g) + (4.48E-04 g DMDS/s x 64.14 mol S/g ÷ 94.20 mol DMDS/g)] x (34.08 mol H2S/g÷ 32.07 mol S/g)

[5] Ditch 0 is 3.65 meters wide and 61 meters long = 3.65 × 61 = 222.65 sq meters

[6] g TRS/s-sq meter = 3.06E-03 g TRS/s ÷ 1825 sq meters = 1.68E-06 g TRS/s-sq meter

[7] lb TRS/hr = 3.06E-03 g TRS/s x 3600 s/hr ÷ 453.592 g TRS/lb TRS = 2.43E-02 lb TRS/hr

[8] average pulp production during sampling on July 9, 10 and 11 (1694.16, 1609.17, 1355.92 ODTP/day)

[9] lb TRS/ODTP = 2.43E-02 lb TRS/hr x 1 hr/1553.08 ODTP = 3.76E-04 lb TRS/ODTP

[10] maximum production from June 2019 and April 2020 Project Columbia construction permit applications (construction permit DF)

[11] lb TRS/hr = 3.76E-04 lb TRS/ODTP x 2700 ADTP/day x 1 day/24 hr x 0.9 ODTP/1.0 ADTP = 3.80E-02 lb TRS/hr

[12] g TRS/s = 3.80E-02 lb TRS/hr x 453.592 g TRS/lb TRSx 1 hr/3600 s = 4.79E-03 g TRS/s

[13] g TRS/s-sq meter = 4.79E-03 g TRS/s ÷ 1825 sq meters = 2.63E-06 g TRS/s-sq meter

Table A-16
Holding Pond - Water9 Model Results
New-Indy Catawba - Catawba, SC

HOLDING POND														
		ACTUAL								MAXIMUM				
	MW	g/s	Reference	Justification	sq meters[5]	g/s-sq meter[6]	lb/hr[7]	ODTP/day[8]	lb/ODTP[9]	ADTP/day[10]	lb/hr[11]	g/s[12]	g/s-sq meter[13]
H_2S	34.08	4.00E-02	NCASI TB956[1]	Consistent with emissions from ASB Zones 2 and 3. See also Footnote 1.	388550	1.03E-07	3.17E-01	1553.08	4.91E-03	2700	4.97E-01	6.26E-02	1.61E-07
MM	48.11	1.54E-05	WATER9[3]	USEPA Emissions Model for Wastewater Treatment Plants	388550	3.96E-11	1.22E-04	1553.08	1.89E-06	2700	1.91E-04	2.41E-05	6.20E-11
DMS	62.14	4.82E-05	WATER9[3]	USEPA Emissions Model for Wastewater Treatment Plants	388550	1.24E-10	3.83E-04	1553.08	5.91E-06	2700	5.99E-04	7.54E-05	1.94E-10
DMDS	94.20	3.89E-06	WATER9[3]	USEPA Emissions Model for Wastewater Treatment Plants	388550	1.00E-11	3.09E-05	1553.08	4.77E-07	2700	4.83E-05	6.08E-06	1.57E-11
TRS (as H_2S)	34.08	4.00E-02	Summation[4]	Summation of H_2S, MM, DMS and DMDS converted to common H_2S basis based on molecular weight of sulfur in each constituent	388550	1.03E-07	3.18E-01	1553.08	4.91E-03	2700	4.97E-01	6.26E-02	1.61E-07

[1] The H2SSIM model was not calibrated for post-aeration basins. However, eleven post-aeration basins (i.e., holding or retention ponds) were tested as part of the NC study published in NCASI TB 956. Two of the eleven post-aeration basins resulted in reported H_2S emissions (all others were not significant based on the screening study results). Based on the stie-specific H2SSIM Model results for New-Indy, worst-case emissions are assumed to be equal to Mill B reported H_2S emissions (0.04 g/s). This H_2S rate is consistent with Zones 2 and 3 H_2S emissions rates and emissions would not expect to be higher than these rates as the Holding Pond is aerated with dissolved oxygen levels at an average of 1.1 across the holding pond during the test (Note: anoxic conditions occur when dissolved oxygen levels near zero per NCASI TB 1000).

[2] Reserved.

[3] Reserved.

[4] 4.00E-02 g TRS/s = [(4.00E-02 g H2S/s x 32.07 mol S/g ÷ 34.08 mol H2S/g) + (1.54E-05 g MM/s x 32.07 mol S/g ÷ 48.11 mol MM/g) + (4.82E-05 g DMS/s x 32.07 mol S/g ÷ 62.14 mol DMS/g) + (3.89E-06 g DMDS/s x 64.14 mol S/g ÷ 94.20 mol DMDS/g)] x (34.08 mol H2S/g÷ 32.07 mol S/g)

[5] Ditch 0 is 3.65 meters wide and 61 meters long = 3.65 × 61 = 222.65 sq meters

[6] g TRS/s-sq meter = 4.00E-02 g TRS/s ÷ 388550 sq meters = 1.03E-07 g TRS/s-sq meter

[7] lb TRS/hr = 4.00E-02 g TRS/s x 3600 s/hr ÷ 453.592 g TRS/lb TRS = 3.18E-01 lb TRS/hr

[8] average pulp production during sampling on July 9, 10 and 11 (1694.16, 1609.17, 1355.92 ODTP/day)

[9] lb TRS/ODTP = 3.18E-01 lb TRS/hr x 1 hr/1553.08 ODTP = 4.91E-03 lb TRS/ODTP

[10] maximum production from June 2019 and April 2020 Project Columbia construction permit applications (construction permit DF)

[11] lb TRS/hr = 4.91E-03 lb TRS/ODTP x 2700 ADTP/day x 1 day/24 hr x 0.9 ODTP/1.0 ADTP = 4.97E-01 lb TRS/hr

[12] g TRS/s = 4.97E-01 lb TRS/hr x 453.592 g TRS/lb TRSx 1 hr/3600 s = 6.26E-02 g TRS/s

[13] g TRS/s-sq meter = 6.26E-02 g TRS/s ÷ 388550 sq meters = 1.61E-07 g TRS/s-sq meter

9.4 Post-Aeration Basin Emissions

9.4.1 *Post-Aeration Basin Reduced Sulfur Compound Emission*

The results from the reduced sulfur compound emissions testing of post-aeration basins at four mills are summarized in Table 9.12. Two of these were aerated basins that followed one or more aerated basins. Screening studies were conducted at all eleven basins. The screening study results indicated that the reduced sulfur compound emissions were minimal at all but two of those basins. The specific situations relative to those two basins are discussed below.

The screening study results from Mill B indicated significant emissions from the no. 1 retention pond, which immediately follows the ASB. During the screening study, accumulated sludge was visible throughout most of the 62-acre pond. Because of the high level of sludge accumulation in the no. 1 retention pond, the liquid level had to be raised to allow the use of a boat for liquid sample collection. Therefore, the liquid level was raised during the approximately 10-day period between the initial screening study and the start of the full emissions measurement and liquid sample collection study. Additional screening study work during the full emissions measurement study, and the results of the full emissions measurement study, indicated lower H_2S emissions (0.04 g/s) than what were expected based on the initial screening study results. The increase in the liquid level may have resulted in lower than expected H_2S emissions, but other factors cannot be ruled out.

At Mill T, the screening study results indicated significant emissions from the no. 2 retention pond. An H_2S emission rate of 1.0 g/s was estimated from the ground-level concentrations, as described in Section 8.2. At Mill T there are three aerated basins in series, which are followed by two retention ponds in series. There were significant H_2S emissions from the no. 1 ASB. The no. 2 ASB also had significant H_2S emissions due to the presence of kraft process condensates which were hard-piped directly to the no. 2 ASB. The emissions from the no. 3 ASB and the no. 1 retention pond were insignificant. Therefore, the wastewater must have gone anoxic again at some point in the no. 2 retention pond to generate sulfide which was then emitted as H_2S.

At all 11 post-aeration basins, the emissions of the organic reduced sulfur compounds were either non-detect or not significant.

9.4.2 *Post-Aeration Basin Methane Emissions*

Methane emissions were only measured at the Mill B no. 1 retention pond. The results of the methane emission tests as well as basin inlet and outlet TOC data are summarized in Table 9.13. The data show that there was an increase in TOC across the pond. This increase may be due to 1) the formation of water soluble carbon-containing compounds from biological degradation of the settled secondary sludge, and/or 2) fixation of atmospheric carbon dioxide via photosynthetic or other biological means in this large, shallow basin.

Table 9.12 Post-Aeration Basin Emission Rates

Mill	Source	Area, acres	Aeration	Emissions, g/s			
				H_2S	MM	DMS	DMDS
B	No. 1 Retention Pond	62	NO	0.04	[0.03]	[0.03]	[0.03]
	No. 2 Retention Pond	128**	NO	NS	NS	NS	NS
	No. 3 Retention Pond	-	NO	NS	NS	NS	NS
	No. 4 Retention Pond	97	NO	NS	NS	NS	NS
D	No. 2 ASB	41	YES	NS	NS	NS	NS
	Retention Pond	81	NO	NS	NS	NS	NS
E	No. 1 Retention Pond	36	NO	NS	NS	NS	NS
	No. 2 Retention Pond	282	NO	NS	NS	NS	NS
T	No. 3 ASB	120	YES	NS	NS	NS	NS
	No. 1 Retention Pond	63	NO	NS	NS	NS	NS
	No. 2 Retention Pond	189	NO	0.95*	NS	NS	NS

NA = Not Available
NS = Not Significant based on screening study results
* Estimated from screening study data
ND[xxxx] = the estimated maximum emission rate calculated from non-detect ambient air concentration data using the procedures outlined in Section 2.3.3.
** Combined area for Nos. 2 and 3 Retention Ponds

Table A-17
No. 4 Sludge Pond - Water9 Model Results
New-Indy Catawba - Catawba, SC

No. 4 SLUDGE POND													
		ACTUAL								MAXIMUM			
	MW	g/s	Reference	Justification	sq meters[5]	g/s-sq meter[6]	lb/hr[7]	ODTP/day[8]	lb/ODTP[9]	ADTP/day[10]	lb/hr[11]	g/s[12]	g/s-sq meter[13]
H_2S	34.08	2.65E-02	NCASI Form R and TB 956 and 1000[2]	NCASI Toxics Release Inventory (TRI) Form R Guidance and Free Sulfide Tool	44192	5.99E-07	2.10E-01	1553.08	3.25E-03	2700	3.29E-01	4.14E-02	9.37E-07
MM	48.11												
DMS	62.14												
DMDS	94.20												
TRS (as H_2S)	34.08	2.65E-02	Summation[4]	Summation of H_2S, MM, DMS and DMDS converted to common H_2S basis based on molecular weight of sulfur in each constituent	44192	5.99E-07	2.10E-01	1553.08	3.25E-03	2700	3.29E-01	4.14E-02	9.37E-07

[1] Reserved.

[2] NCASI Handbook of Chemical-Specific Information for Superfund Amendments and Reauthorization Act (SARA) Section 313 Form R Reporting - Pulp and Paper Facilities. Hydrogen Sulfide, Table 4 "WWTP PARTITIONING AND EMISSIONS OF HYDROGEN SULFIDE", Sludge Pond mean emissions factor of 4.2 lb/(day-Acre). H_2S emissions factor adjusted for pH using the NCASI Free Sulfide Tool (as described in NCASI Technical Bulletin 1000, section 3.2) and documentation of the emissions rate calculation is provided in the attached spreadsheet "EQ Basin and Sludge Lagoon Calcs.xlsx".

[3] There are no emissions of MM, DMS, and DMDS reported from the No. 4 Sludge Pond. Small amounts of MM, DMS, and DMDS that are contained in the water that remains with the sludge from the ASB are assumed to be emitted in the ditch #2 or ASB Zones 1-3.

[4] 2.65E-02 g TRS/s = [(2.65E-02 g H2S/s x 32.07 mol S/g ÷ 34.08 mol H2S/g) + (0.00E+00 g MM/s x 32.07 mol S/g ÷ 48.11 mol MM/g) + (0.00E+00 g DMS/s x 32.07 mol S/g ÷ 62.14 mol DMS/g) + (0.00E+00 g DMDS/s x 64.14 mol S/g ÷ 94.20 mol DMDS/g)] x (34.08 mol H2S/g÷ 32.07 mol S/g

[5] Ditch 0 is 3.65 meters wide and 61 meters long = 3.65 × 61 = 222.65 sq meters

[6] g TRS/s-sq meter = 2.65E-02 g TRS/s ÷ 44192 sq meters = 5.99E-07 g TRS/s-sq meter

[7] lb TRS/hr = 2.65E-02 g TRS/s x 3600 s/hr ÷ 453.592 g TRS/lb TRS = 2.10E-01 lb TRS/hr

[8] average pulp production during sampling on July 9, 10 and 11 (1694.16, 1609.17, 1355.92 ODTP/day)

[9] lb TRS/ODTP = 2.10E-01 lb TRS/hr x 1 hr/1553.08 ODTP = 3.25E-03 lb TRS/ODTP

[10] maximum production from June 2019 and April 2020 Project Columbia construction permit applications (construction permit DF)

[11] lb TRS/hr = 3.25E-03 lb TRS/ODTP x 2700 ADTP/day x 1 day/24 hr x 0.9 ODTP/1.0 ADTP = 3.29E-01 lb TRS/hr

[12] g TRS/s = 3.29E-01 lb TRS/hr x 453.592 g TRS/lb TRSx 1 hr/3600 s = 4.14E-02 g TRS/s

[13] g TRS/s-sq meter = 4.14E-02 g TRS/s ÷ 44192 sq meters = 9.37E-07 g TRS/s-sq meter

#4 Sludge Lagoon H2S Emissions Calculation

4.2	lb/day-acre	NCASI SARA HB Emissions Factor for Sludge Pond
49.12%		Percent H2S emitted at average pH of ponds tested for NCASI emissions factor (average pH 7).
10.92	acre	Free water surface Area of #4 Sludge Lagoon
5.4%		Percent H2S emitted at site-specific pH of 8.22

$$\frac{4.2}{\text{lb/day-acre}} \times \frac{5.40\%}{49.12\%} \times \frac{1\ \text{day}}{24\ \text{hrs}} \times \frac{10.92}{\text{acre}} \times \frac{0.125998\ \text{g/s}}{1\ \text{lb/hr}}$$

H2S emissions rate

0.02647 g/s

Free Sulfide Fraction Calculation Tool

pH	8.23
K1	1.036E-07
K2	6.43E-16
Free Fraction	5.402%

Convert Total Sulfide to H2S(dissolved)

Hydrogen Concentration	5.91562E-09
Hydrogen Concenration	5.91562E-12

Convert Total Sulfide Measurement to H2S(dissolved)

5.5	96.8%
5.75	94.5%
6	90.6%
6.25	84.4%
6.5	75.3%
6.75	63.2%
7	49.1%
7.25	35.2%
7.5	23.4%
7.75	14.7%
8	8.8%
8.25	5.1%
8.5	3.0%
8.75	1.7%
9	1.0%

PART II. CHEMICAL-SPECIFIC INFORMATION FOR HYDROGEN SULFIDE

The NCASI Handbook for SARA 313 Reporting and underlying Chemical-Specific Information Sheets (CISs) are intended to serve as an information resource to facilities in fulfilling their reporting requirements. These documents are not meant to replace engineering judgement, site-specific considerations or other technical knowledge.

SECTION 1. TOXIC CHEMICAL IDENTITY

In this Section, a facility describes the SARA 313 chemical.

1.1 CAS Number – 7783-06-04

1.2 Toxic Chemical or Chemical Category Name - Hydrogen Sulfide

1.3 Generic Chemical Name –

This Section applies only for trade secret submissions**.**

SECTION 2. MIXTURE COMPONENT IDENTITY

Report the generic name in this Section if the facility and the supplier both claim the chemical identity as proprietary or trade secret. A facility that seeks to use this section should consult the TRI Reporting Instructions for more information.

SECTION 3. ACTIVITIES AND USES OF THE TOXIC CHEMICAL AT THE FACILITY

In this Section, indicate the threshold category, or categories, exceeded for the specific SARA 313 Chemical. Note that while amounts of threshold activity are not reported in this section, a facility may wish to have supporting threshold calculations available for review.

3.1 Manufacture the toxic chemical:

Trace quantities of hydrogen sulfide may be manufactured as a byproduct during (a) pulp bleaching, and (b) chemical recovery operations. For determining whether the manufacturing threshold has been exceeded, four categories should be considered: (1) total air emissions, (2) amount present in non-condensable gases (NCGs) sent for incineration, (3) amount released to the wastewater treatment plant (WWTP), and (4) amount present in strong liquors as-fired.

TABLE 4 WWTP PARTITIONING AND EMISSIONS OF HYDROGEN SULFIDE[a]

	PRIMARY CLARIFIER (PC) n = 4	AERATED STABILIZATION BASIN (ASB) n = 3	ACTIVATED SLUDGE TREATMENT (AST) n = 1
Percent Volatilized	0.3 – 3.4% Mean = 1.4%	0.3 – 35% Mean = 8.8%	1.5%
Percent Biodegraded	--	65 – 99.7%	98.5%
Percent in Effluent	96.6 – 99.7% Mean = 98.6%	<0.1%	<0.1%
Percent Overall Removal	Mean = 1.4%	>99.9%	>99.9%

	PRIMARY SETTLING BASIN (PSB) n = 2	SLUDGE POND (SP) n = 6
Emission Factor[b]	0.88 – 54.1 lb/(day Acre) Mean = 20.2 lb/(day Acre)	0.04 – 10.8 lb/(day Acre) Mean = 4.2 lb/(day Acre)
Sulfide Generation Factor[c]	1.5 – 3.8 x Inlet Load Mean = 2.4 x Inlet Load	N/A

[a] NCASI 2008
[b] Emission factors for PSBs and SPs are a function of *free liquid* surface
[c] This value can be used to estimate the sulfide generated in a primary settling basin

3.2 Process the toxic chemical:

The SARA Section 313 regulations define "processing" as an incorporative activity; the level of this threshold activity therefore depends on how much of the chemical is intended to remain in the finished product. While hydrogen sulfide is generally not "processed" in this industry, facilities may wish to review the content of any additives used in the process.

3.3 Otherwise use the toxic chemical:

This would be the sum of all the hydrogen sulfide used at the manufacturing site in ancillary activities. A 10,000 lb/yr reporting threshold applies for this category. While hydrogen sulfide is generally not "otherwise used" in this industry, facilities may wish to review the content of their fuels, chemical and processing aids and other chemicals on site.

SECTION 4. MAXIMUM AMOUNT OF THE TOXIC CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

4.1 _____ (Enter two-digit code from instruction package.)

In this Section, report the range of weights of the SARA 313 chemical that is on-site "at any time during the calendar year". A facility should calculate or estimate the maximum quantity of hydrogen sulfide that is on-site and then report using the range codes in the TRI instructions.

3.2 Sulfide Dissociation

Inorganic, free sulfide can exist in three forms, the concentrations of which depend upon the wastewater pH. H2SSIM calculates the effect of pH on the predominant sulfide form present in the wastewater. This calculation is significant because only H_2S is a volatile form of sulfide.

At the near neutral pH conditions encountered in most wastewaters undergoing biological treatment, hydrogen sulfide dissociates to yield a hydrogen ion and hydrogen sulfide ion (Equation 3.4).

$$H_2S \leftrightarrow H^+ + HS^- \qquad \text{Equation 3.4}$$

At very high pH levels, the hydrogen sulfide ion can dissociate again to a hydrogen ion and sulfur ion (Equation 3.5).

$$HS^- \leftrightarrow H^+ + S^{2-} \qquad \text{Equation 3.5}$$

When the reaction is considered to be at equilibrium, the reaction and concentration products can be defined by Equations 3.6 and 3.7.

$$K_1 = \frac{[H^+][HS^-]}{H_2S} \qquad \text{Equation 3.6}$$

$$K_2 = \frac{[H^+][S^{2-}]}{HS^-} \qquad \text{Equation 3.7}$$

If the reactions represented in Equations 3.4 and 3.5 are considered to occur much faster than the other processes in the overall mass balance equation, a local equilibrium holds (Chapra 1997) and the sulfide dissociation reaction can be solved outside of the sulfide mass balance equation.

If a local equilibrium exists for sulfide dissociation, the fraction of total sulfide that exists as each species at the specified pH can be calculated (Equations 3.8 through 3.10).

$$F_{HS} = \frac{K_1[H^+]}{1+K_1[H^+]+K_1K_2[H^+]^2} \qquad \text{Equation 3.8}$$

$$F_{H_2S} = \frac{K_1K_2[H^+]^2}{1+K_1[H^+]+K_1K_2[H^+]^2} \qquad \text{Equation 3.9}$$

$$F_S = \frac{1}{1+K_1[H^+]+K_1K_2[H^+]^2} \qquad \text{Equation 3.10}$$

Where: F_{HS} = Fraction of total sulfide as HS^-

F_{H2S} = Fraction of total sulfide as H_2S

F_S = Fraction of total sulfide as S^{2-}

The fraction of each sulfide species calculated by these equations with pKa1 = 7.04 and pKa = 11.96 is shown in Figure 3.2.

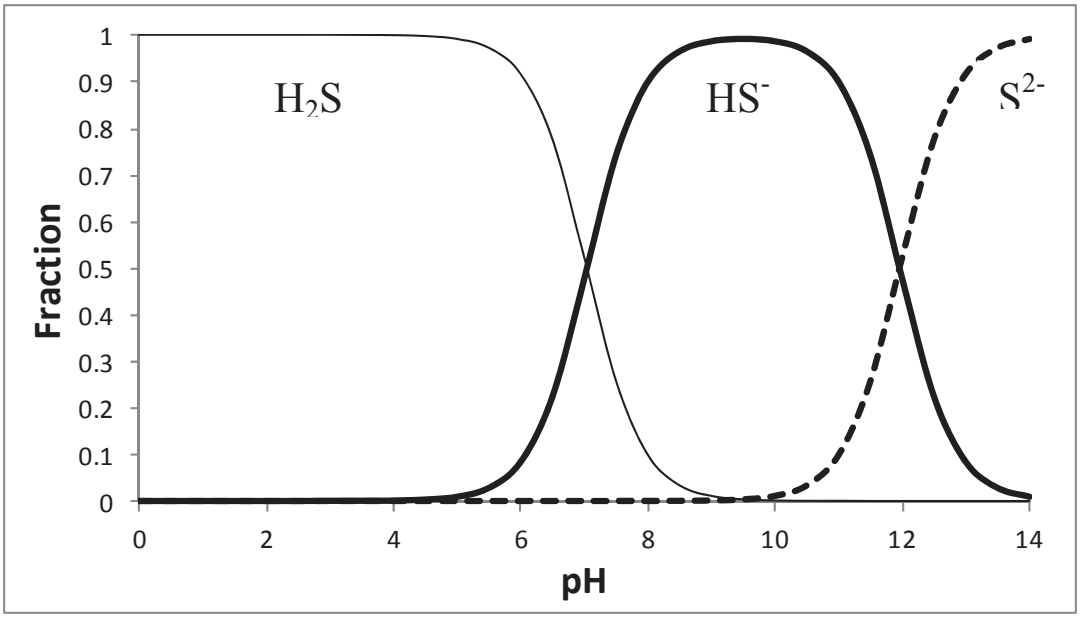


Figure 3.2 Fraction of Sulfide Species as a Function of Wastewater pH

The fractions of each sulfide species are calculated internally by H2SSIM and used to define the concentration of each dissociated form as a function of pH and total sulfide concentration. A critical use of these fractions is calculating the amount of sulfide available to volatilize to the atmosphere as H_2S (i.e., the volatilization term in Equation 3.2).

3.3 Generation of Sulfide in Wastewater

Sulfide can be generated in wastewater when conditions are favorable. These conditions include sufficient concentration of the reactants and an anoxic (i.e., dissolved oxygen is near zero) environment. A quantitative expression relating the sulfide generation rate to temperature, sulfate concentration, and oxygen concentration in pulp and paper wastewaters has been developed based on laboratory batch reactor experiments. The technical details of that study and subsequent equation development are reported in Appendix A.

The expression for sulfide generation in pulp and paper wastewaters is presented in Equation 3.11.

$$R_1 = k_{gen}\left(\frac{SO_4}{K_{SO_4} + SO_4}\right)\left(\frac{K_{DO}}{K_{DO} + DO}\right) \qquad \text{Equation 3.11}$$

Where: R_1 = Sulfide generation rate (M/L^3T)
SO_4 = Sulfate concentration (M/L^3)
DO = Dissolved oxygen concentration (M/L^3)
k_{gen} = Generation rate coefficient at 20 °C (M/L^3T)
K_{SO4} = Sulfate half saturation coefficient (M/L^3)
K_{DO} = Oxygen half saturation coefficient (M/L^3)

Equation 3.11 states that the rate of sulfide generation is proportional to an empirical rate coefficient and may be limited by low sulfate concentrations or the presence of oxygen.

The rate of sulfide generation is also affected by temperature. The optimal temperature for sulfate reducing bacteria has been reported as 25 to 35°C. The temperature correction should account for bacterial inhibition at temperatures greater than 35°C as in Equations 3.12 and 3.13.

When the wastewater temperature is 35°C or less, the model uses

$$k_{Temp} = k_{20}\theta^{Temp-20} \qquad \text{Equation 3.12}$$

Where θ = Temperature coefficient
k_{Temp} = Rate coefficient at actual temperature
k_{20} = rate coefficient at 20°
Temp = Temperature °C

When the wastewater temperature is greater than 35°C, the model uses

$$k_{Temp} = k_{20}\theta^{15} * \theta_2^{Temp-35} \qquad \text{Equation 3.13}$$

Where: θ_2 = Second temperature coefficient

The overall effect of Equations 3.12 and 3.13 is an increasing rate coefficient up to 35 °C. As temperatures increase further, the rate coefficient decreases. Details concerning Equation 3.13 can be found in NCASI (1985b).

3.4 Sulfide Oxidation

Sulfide is oxidized rapidly to sulfate and several intermediate sulfur species when exposed to aerobic conditions. A commonly used sulfide oxidation rate equation was found to adequately describe sulfide oxidation data from pulp and paper mill wastewaters (Palumbo, Brown, and Stratton 2010). This equation is presented here as Equation 3.14.

$$R_2 = k_{ox} S_{-II}{}^{m} (DO)^{n} \qquad \text{Equation 3.14}$$

Where: R_2 = Rate of sulfide oxidation (M/L^3T)
k_{ox} = Aerobic sulfide oxidation coefficient (T^{-1})
S_{-II} = Sulfide concentration (M/L)
DO = Dissolved oxygen concentration (M/L)
m = order of reaction with respect to sulfide (-)
n = order of reaction with respect to oxygen (-)

The sulfide oxidation rate changes as a function of pH. This change is represented in the model through a varying oxidation rate coefficient. The relationship between the rate coefficient and pH is shown in Equation 3.15. The derivation of Equation 3.15 is described in Appendix B.

$$k_{ox} = 7.16 * (1 - \exp(-0.84 * (pH - 6.15)) \qquad \text{Equation 3.15}$$

In Equation 3.15, it is assumed that the oxidation rate coefficient is zero below a pH value of 6.15.

When oxygen is absent, sulfide is more slowly oxidized in wastewaters. The rate of sulfide oxidation under anoxic conditions can be modeled using a modification of Equation 3.14. The development of this equation is presented in Appendix B.

$$R_2 = k_{anox} S_{-II}^{m} \qquad \text{Equation 3.16}$$

Where k_{anox} = Anoxic sulfide oxidation rate coefficient (T^{-1})

Table A-18
Recovery Furnace 2 Emissions Calculations from Title V Operating Permit Application TV-2440-0005
New-Indy Catawba - Catawba, SC

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Recovery Furnace 2 - Black Liquor Solids	1,129	Ton BLS/Day	1,119	Ton BLS/Day	24	7	365	365
AEI Group ID = 007, Process Unit ID = 4								
Title V Unit ID = 07. Equipment ID = 2505								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE			(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Total Reduced Sulfur (as Sulfur)			4.7E-03	#/T BLS	A	1		**0.22**	**0.97**	**0.22**	**0.97**	**0.22**	**0.96**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	5.0E-03	#/T BLS	D	1		**0.23**	**1.03**	**0.23**	**1.03**	**0.23**	**1.02**
Speciated TRS Compounds													
Hydrogen sulfide			3.40E-03	#/T BLS	A	1		**0.16**	**0.70**	**0.16**	**0.70**	**0.16**	**0.69**
Methyl mercaptan			1.50E-03	#/T BLS	A	1		**0.07**	**0.31**	**0.07**	**0.31**	**0.07**	**0.31**
dimethyl disulfide			2.40E-04	#/T BLS	A	1		**0.01**	**0.05**	**0.01**	**0.05**	**0.01**	**0.05**
dimethyl sulfide			6.80E-04	#/T BLS	A	1		**0.03**	**0.14**	**0.03**	**0.14**	**0.03**	**0.14**

8. REFERENCES:
A) Emission factors from NCASI Technical Bulletin 858, Table 14A.
B) Emission factors from NCASI Technical Bulletin 858, Table 14B.
C) Sum of dimethyl disulfide, dimethyl sulfide, hydrogen sulfide, and methyl mercaptan emissions.
D) Assumed TRS (as S) converted to H2S based on molecular weight.
E) Emission factor from NCASI Technical Bulletin 884, Table 4.12.
F) Emission factors from NCASI Technical Bulletin 1020, Table 4.12.
G) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.
H) Emission factor for north american softwood kraft pulping liquor in EPA MRR, Table AA-1, TBLS converted to MM Btu assuming 6,000 Btu/lb BLS.
I) Emission factor based on GWP in EPA MRR, Table A-1.
J) VOC emissions are sum of individual speciated VOC.
K) Sum of speciated POM and PAH.

9. NOTES:
lb TRS (as H2S)/hr = 5.0e-03 lb TRS (as H2S)/T BLS x 1,129 T BLS/day x 1 day/24 hr = 0.23 lb TRS (as H2S)/hr

Emission Factors for references G, H, I and J converted from #/ADTP to #/T BLS assuming 3,500 # BLS/ADTP.
Actual production during Weston source test runs conducted on June 27, 2021
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

Table A-19
Recovery Furnace 3 Emissions Calculations from Title V Operating Permit Application TV-2440-0005
New-Indy Catawba - Catawba, SC

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Recovery Furnace 3 - Black Liquor Solids	2,040	Ton BLS/Day	1,712	Ton BLS/Day	24	7	365	365
AEI Group ID = 007, Process Unit ID = 6								
Title V Unit ID = 07. Equipment ID = 5105								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE			(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Total Reduced Sulfur (as Sulfur)			4.7E-03	#/T BLS	A	1		**0.40**	**1.75**	**0.40**	**1.75**	**0.34**	**1.47**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	5.0E-03	#/T BLS	D	1		**0.42**	**1.86**	**0.42**	**1.86**	**0.36**	**1.56**
Speciated TRS Compounds													
Hydrogen sulfide			3.40E-03	#/T BLS	A	1		**0.29**	**1.27**	**0.29**	**1.27**	**0.24**	**1.06**
Methyl mercaptan			1.50E-03	#/T BLS	A	1		**0.13**	**0.56**	**0.13**	**0.56**	**0.11**	**0.47**
dimethyl disulfide			2.40E-04	#/T BLS	A	1		**0.02**	**0.09**	**0.02**	**0.09**	**0.02**	**0.07**
dimethyl sulfide			6.80E-04	#/T BLS	A	1		**0.06**	**0.25**	**0.06**	**0.25**	**0.05**	**0.21**

8. REFERENCES:
A) Emission factors from NCASI Technical Bulletin 858, Table 14A.
B) Emission factors from NCASI Technical Bulletin 858, Table 14B.
C) Sum of dimethyl disulfide, dimethyl sulfide, hydrogen sulfide, and methyl mercaptan emissions.
D) Assumed TRS (as S) converted to H2S based on molecular weight.
E) Emission factor from NCASI Technical Bulletin 884, Table 4.12.
F) Emission factors from NCASI Technical Bulletin 1020, Table 4.12.
G) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.
H) Emission factor for north american softwood kraft pulping liquor in EPA MRR, Table AA-1, TBLS converted to MM Btu assuming 6,000 Btu/lb BLS.
I) Emission factor based on GWP in EPA MRR, Table A-1.
J) VOC emissions are sum of individual speciated VOC.
K) Sum of speciated POM and PAH.

9. NOTES:
lb TRS (as H2S)/hr = 5.0e-03 lb TRS (as H2S)/T BLS x 2,040 T BLS/day x 1 day/24 hr = 0.42 lb TRS (as H2S)/hr

Emission factor of zero (0.00E+00) indicates pollutant was tested for and not detected above quantitation limit.
Emission Factors for references G, H, I and J converted from #/ADTP to #/T BLS assuming 3500 # BLS/ADTP.
Actual production during Weston source test runs conducted on June 27, 2021
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

Table A-20
Lime Kiln 2 Emissions Calculations from Title V Operating Permit Application TV-2440-0005
New-Indy Catawba - Catawba, SC

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Lime Kiln 2	465	Ton CaO/Day	415	Ton CaO/Day	24	7	365	365
AEI Group ID = 007, Process Unit ID = 10								
Title V Unit ID = 07. Equipment ID = 2723								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	REFERENCE			(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Total Reduced Sulfur (as Sulfur)			4.7E-02	#/T CaO	A	1		**0.91**	**3.99**	**0.91**	**3.99**	**0.81**	**3.56**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	5.0E-02	#/T CaO	D	1		**0.97**	**4.24**	**0.97**	**4.24**	**0.86**	**3.79**
Speciated TRS Compounds													
Hydrogen sulfide			5.00E-02	#/T CaO	A	1		**0.97**	**4.24**	**0.97**	**4.24**	**0.87**	**3.79**
Methyl mercaptan			2.40E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
dimethyl disulfide			4.50E-06	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
dimethyl sulfide			1.60E-06	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

8. REFERENCES:
A) Emission factors from NCASI Technical Bulletin 858, Table 16A.
B) Emission factors from NCASI Technical Bulletin 858, Table 16B.
C) Sum of dimethyl disulfide, dimethyl sulfide, hydrogen sulfide, and methyl mercaptan emissions.
D) Assumed TRS (as S) converted to H2S based on molecular weight.
E) Emission factor from NCASI Technical Bulletin 884, Table 4.13 - Oil-fired Lime Kiln with ESP.
F) Emission factors from NCASI Technical Bulletin 1020, Table 4.13 - Oil-fired Lime Kiln with ESP.
G) VOC emissions are sum of individual speciated VOC.
H) Sum of speciated POM and PAH.
I) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.
J) Emission limit from permit 2440-0005-CI, Condition II.A. converted from ppm into lb/hr and tpy (maximum emissions only).
K) Emission factor calculated using Bowater stack testing on 3/30/2010 (159 ppm) and 9/13/2011 (162 ppm).
L) Emission factor from 8/28/2008 Bowater stack test.

Q) Emission factor for natural gas combustion in EPA MRR, Table C-1 and C-2.
R) Emission factor based on GWP in EPA MRR, Table A-1.
S) Average heat input based on maximum heat input and lime production.

9. NOTES:
lb TRS (as H2S)/hr = 5.0e-02 lb TRS (as H2S)/T CaO x 465 T CaO/day x 1 day/24 hr = 0.97 lb TRS (as H2S)/hr

Emission Factors for reference K converted from #/ADTP to #/T CaO assuming 550 # CaO/ADTP.
Actual production ratioed to Smelt Dissolving Tank production during Weston source test runs conducted on June 27, 2021
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

Table A-21
Causticizing Area Summation Emissions Calculations from Title V Operating Permit Application TV-2440-0005
New-Indy Catawba - Catawba, SC

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Causticizing Area - Summation	465	Ton CaO/Day	415	Ton CaO/Day	24	7	365	365
AEI Group ID = 007, Process Unit ID = 11								
Title V Unit ID = 07. Equipment ID = 2700 to 2703								

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Total Reduced Sulfur (as Sulfur)								**0.26**	**1.13**	**0.26**	**1.13**	**0.24**	**1.07**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS						**0.27**	**1.20**	**0.27**	**1.20**	**0.26**	**1.14**
Speciated TRS Compounds													
Hydrogen sulfide								**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Methyl mercaptan								**0.10**	**0.43**	**0.10**	**0.43**	**0.09**	**0.41**
dimethyl disulfide								**0.21**	**0.93**	**0.21**	**0.93**	**0.20**	**0.89**
dimethyl sulfide								**0.09**	**0.38**	**0.09**	**0.38**	**0.08**	**0.35**

8. REFERENCES:

9. NOTES:
Causticizing Area Summation includes Green Liquor Storage Tanks

Table A-22
Causticizing Area - Slaker and Causticizers Emissions Calculations from Title V Operating Permit Application TV-2440-0005
New-Indy Catawba - Catawba, SC

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Causticizing Area - Slaker and Causticizers	465	Ton CaO/Day	415	Ton CaO/Day	24	7	365	365
AEI emissions reported under Causticizing Summary								
Title V Unit ID = 07. Equipment ID = 2700, 2701								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE			(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Total Reduced Sulfur (as Sulfur)			1.2E-03	#/T CaO	B	1		**0.02**	**0.10**	**0.02**	**0.10**	**0.02**	**0.09**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	1.3E-03	#/T CaO	D	1		**0.03**	**0.11**	**0.03**	**0.11**	**0.02**	**0.10**
Speciated TRS Compounds													
Hydrogen sulfide													
Methyl mercaptan			4.3E-04	#/T CaO	B	1		**0.01**	**0.04**	**0.01**	**0.04**	**0.01**	**0.03**
dimethyl disulfide			9.6E-04	#/T CaO	B	1		**0.02**	**0.08**	**0.02**	**0.08**	**0.02**	**0.07**
dimethyl sulfide			5.6E-04	#/T CaO	B	1		**0.01**	**0.05**	**0.01**	**0.05**	**0.01**	**0.04**

8. REFERENCES:
A) Emission factors from NCASI Technical Bulletin No. 701, Table 17.
B) Emission factor from NCASI Technical Bulletin No. 849, Table 24.
C) Sum of dimethyl disulfide, dimethyl sulfide, hydrogen sulfide, and methyl mercaptan emissions.
D) Assumed TRS (as S) converted to H2S based on molecular weight.
E) Emission factor from NCASI Technical Bulletin 884, Table 4.14.
F) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.
G) PM-10 and PM-2.5 ratio based on NCASI Technical Bulletin 884, Table 4.13 (lime kiln w/scrubber).
H) VOC emissions are sum of individual speciated VOC.
I) Sum of speciated POM and PAH.

9. NOTES:
lb TRS (as H2S)/hr = 5.0e-02 lb TRS (as H2S)/T CaO x 465 T CaO/day x 1 day/24 hr = 0.97 lb TRS (as H2S)/hr
Actual production ratioed to Smelt Dissolving Tank production during Weston source test runs conducted on June 27, 2021
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

Table A-23
Causticizing Area - Precoat Filters Emissions Calculations from Title V Operating Permit Application TV-2440-0005
New-Indy Catawba - Catawba, SC

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Causticizing Area - Precoat Filters	465	Ton CaO/Day	415	Ton CaO/Day	24	7	365	365

AEI emissions reported under Causticizing Summary
Title V Unit ID = 07. Equipment ID = 2700

3. POLLUTANT	4. CAS #	5. TYPE	8. EMISSION FACTOR INFORMATION FACTOR	UNITS	NOTE	PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS (lb/hr)	(tons/yr)	7. MAXIMUM CONTROLLED EMISSIONS (lb/hr)	(tons/yr)	ACTUAL EMISSIONS (lb/hr)	(tons/yr)
Total Reduced Sulfur (as Sulfur)			1.5E-03	#/T CaO	B	1		**0.03**	**0.13**	**0.03**	**0.13**	**0.03**	**0.11**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	1.6E-03	#/T CaO	D	1		**0.03**	**0.13**	**0.03**	**0.13**	**0.03**	**0.12**
Speciated TRS Compounds													
Hydrogen sulfide													
Methyl mercaptan			6.0E-04	#/T CaO	A	1		**0.01**	**0.05**	**0.01**	**0.05**	**0.01**	**0.05**
dimethyl disulfide			1.2E-03	#/T CaO	A	1		**0.02**	**0.10**	**0.02**	**0.10**	**0.02**	**0.09**
dimethyl sulfide			5.0E-04	#/T CaO	A	1		**0.01**	**0.04**	**0.01**	**0.04**	**0.01**	**0.04**

8. REFERENCES:
A) Emission factor from NCASI Technical Bulletin No. 701, Table 17.
B) Emission factor from NCASI Technical Bulletin No. 701, Table 17, converted to sulfur based on molecular weight.
C) Sum of dimethyl disulfide, dimethyl sulfide, hydrogen sulfide, and methyl mercaptan emissions.
D) Assumed TRS (as S) converted to H2S based on molecular weight.
E) Emission factor from NCASI Technical Bulletin 884, Table 4.14.
F) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.
G) VOC emissions are sum of individual speciated VOC.
H) Sum of speciated POM and PAH.

9. NOTES:
lb TRS (as H2S)/hr = 5.0e-02 lb TRS (as H2S)/T CaO x 465 T CaO/day x 1 day/24 hr = 0.97 lb TRS (as H2S)/hr
Actual production ratioed to Smelt Dissolving Tank production during Weston source test runs conducted on June 27, 2021
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

Table A-24
Causticizing Area - Precoat Filter Vacuum Pumps Emissions Calculations from Title V Operating Permit Application TV-2440-0005
New-Indy Catawba - Catawba, SC

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Causticizing Area - Precoat Filter Vacuum Pumps	465	Ton CaO/Day	415	Ton CaO/Day	24	7	365	365
AEI emissions reported under Causticizing Summary								
Title V Unit ID = 07. Equipment ID = 2700								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE			(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Total Reduced Sulfur (as Sulfur)			6.3E-04	#/T CaO	B	1		**0.01**	**0.05**	**0.01**	**0.05**	**0.01**	**0.05**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	6.7E-04	#/T CaO	D	1		**0.01**	**0.06**	**0.01**	**0.06**	**0.01**	**0.05**
Speciated TRS Compounds													
Hydrogen sulfide													
Methyl mercaptan			1.5E-04	#/T CaO	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**
dimethyl disulfide			2.1E-04	#/T CaO	A	1		**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.02**
dimethyl sulfide			7.5E-04	#/T CaO	A	1		**0.01**	**0.06**	**0.01**	**0.06**	**0.01**	**0.06**

8. REFERENCES:
A) Emission factor from NCASI Technical Bulletin No. 701, Table 17.
B) Emission factor from NCASI Technical Bulletin No. 701, Table 17, converted to sulfur based on molecular weight.
C) Sum of dimethyl disulfide, dimethyl sulfide, hydrogen sulfide, and methyl mercaptan emissions.
D) Assumed TRS (as S) converted to H2S based on molecular weight.
E) Emission factor from NCASI Technical Bulletin 884, Table 4.14.
F) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.
G) VOC emissions are sum of individual speciated VOC.
H) Sum of speciated POM and PAH.

9. NOTES:
lb TRS (as H2S)/hr = 5.0e-02 lb TRS (as H2S)/T CaO x 465 T CaO/day x 1 day/24 hr = 0.97 lb TRS (as H2S)/hr
Actual production ratioed to Smelt Dissolving Tank production during Weston source test runs conducted on June 27, 2021
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

Table A-25
Causticizing Area - Green Liquor Clarifier Emissions Calculations from Title V Operating Permit Application TV-2440-0005
New-Indy Catawba - Catawba, SC

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Causticizing Area - Green Liquor Clarifier	465	Ton CaO/Day	415	Ton CaO/Day	24	7	365	365
AEI emissions reported under Causticizing Summary								
Title V Unit ID = 07. Equipment ID = 2700								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE			(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Total Reduced Sulfur (as Sulfur)			4.8E-04	#/T CaO	B	1		**0.01**	**0.04**	**0.01**	**0.04**	**0.01**	**0.04**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	5.1E-04	#/T CaO	D	1		**0.01**	**0.04**	**0.01**	**0.04**	**0.01**	**0.04**
Speciated TRS Compounds													
Hydrogen sulfide													
Methyl mercaptan			4.2E-04	#/T CaO	A	1		**0.01**	**0.04**	**0.01**	**0.04**	**0.01**	**0.03**
dimethyl disulfide			2.0E-04	#/T CaO	A	1		**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.02**
dimethyl sulfide			1.2E-04	#/T CaO	A	1		**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**

8. REFERENCES:
A) Emission factor from NCASI Technical Bulletin No. 701, Table 17.
B) Emission factor from NCASI Technical Bulletin No. 701, Table 17, converted to sulfur based on molecular weight.
C) Sum of dimethyl disulfide, dimethyl sulfide, hydrogen sulfide, and methyl mercaptan emissions.
D) Assumed TRS (as S) converted to H2S based on molecular weight.
E) Emission factor from NCASI Technical Bulletin 884, Table 4.14.
F) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.
G) VOC emissions are sum of individual speciated VOC.
H) Sum of speciated POM and PAH.

9. NOTES:
lb TRS (as H2S)/hr = 5.0e-02 lb TRS (as H2S)/T CaO x 465 T CaO/day x 1 day/24 hr = 0.97 lb TRS (as H2S)/hr
Actual production ratioed to Smelt Dissolving Tank production during Weston source test runs conducted on June 27, 2021
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

Table A-26
Causticizing Area - Green Liquor Surge Tank Emissions Calculations from Title V Operating Permit Application TV-2440-0005
New-Indy Catawba - Catawba, SC

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Causticizing Area - Green Liquor Surge Tank	465	Ton CaO/Day	415	Ton CaO/Day	24	7	365	365
AEI emissions reported under Causticizing Summary								
Title V Unit ID = 07. Equipment ID = 2700								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE			(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Total Reduced Sulfur (as Sulfur)			4.7E-05	#/T CaO	B	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	5.0E-05	#/T CaO	D	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Speciated TRS Compounds													
Hydrogen sulfide													
Methyl mercaptan			2.1E-06	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
dimethyl disulfide			3.1E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
dimethyl sulfide			4.8E-05	#/T CaO	A	1		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

8. REFERENCES:
A) Emission factor from NCASI Technical Bulletin No. 701, Table 17.
B) Emission factor from NCASI Technical Bulletin No. 701, Table 17, converted to sulfur based on molecular weight.
C) Sum of dimethyl disulfide, dimethyl sulfide, hydrogen sulfide, and methyl mercaptan emissions.
D) Assumed TRS (as S) converted to H2S based on molecular weight.
E) Emission factor from NCASI Technical Bulletin 884, Table 4.14.
F) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.
G) VOC emissions are sum of individual speciated VOC.
H) Sum of speciated POM and PAH.

9. NOTES:
lb TRS (as H2S)/hr = 5.0e-02 lb TRS (as H2S)/T CaO x 465 T CaO/day x 1 day/24 hr = 0.97 lb TRS (as H2S)/hr
Actual production ratioed to Smelt Dissolving Tank production during Weston source test runs conducted on June 27, 2021
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

Table A-27
Causticizing Area - White Liquor Pressure Filters Emissions Calculations from Title V Operating Permit Application TV-2440-0005
New-Indy Catawba - Catawba, SC

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Causticizing Area - White Liquor Pressure Filters	465	Ton CaO/Day	415	Ton CaO/Day	24	7	365	365
AEI emissions reported under Causticizing Summary								
Title V Unit ID = 07. Equipment ID = 2700								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE			(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Total Reduced Sulfur (as Sulfur)			2.6E-03	#/T CaO	B	1		**0.05**	**0.22**	**0.05**	**0.22**	**0.05**	**0.20**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	2.8E-03	#/T CaO	D	1		**0.05**	**0.24**	**0.05**	**0.24**	**0.05**	**0.21**
Speciated TRS Compounds													
Hydrogen sulfide													
Methyl mercaptan			9.7E-04	#/T CaO	A	1		**0.02**	**0.08**	**0.02**	**0.08**	**0.02**	**0.07**
dimethyl disulfide			1.9E-03	#/T CaO	A	1		**0.04**	**0.16**	**0.04**	**0.16**	**0.03**	**0.14**
dimethyl sulfide			1.3E-03	#/T CaO	A	1		**0.03**	**0.11**	**0.03**	**0.11**	**0.02**	**0.10**

8. REFERENCES:
A) Emission factor from NCASI Technical Bulletin No. 701, Table 17.
B) Emission factor from NCASI Technical Bulletin No. 701, Table 17, converted to sulfur based on molecular weight.
C) Sum of dimethyl disulfide, dimethyl sulfide, hydrogen sulfide, and methyl mercaptan emissions.
D) Assumed TRS (as S) converted to H2S based on molecular weight.
E) Emission factor from NCASI Technical Bulletin 884, Table 4.14.
F) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.
G) VOC emissions are sum of individual speciated VOC.
H) Sum of speciated POM and PAH.

9. NOTES:
lb TRS (as H2S)/hr = 5.0e-02 lb TRS (as H2S)/T CaO x 465 T CaO/day x 1 day/24 hr = 0.97 lb TRS (as H2S)/hr
Actual production ratioed to Smelt Dissolving Tank production during Weston source test runs conducted on June 27, 2021
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

Table A-28
Green Liquor Storage Tanks Emissions Calculations from Title V Operating Permit Application TV-2440-0005
New-Indy Catawba - Catawba, SC

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Green Liquor Storage Tanks	3	tanks	3	tanks	24	7	365	365
AEI emissions reported under Insignificant Summary								
Title V Unit ID = 07. Equipment ID = 2700								

		8. EMISSION FACTOR INFORMATION				PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE			(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Total Reduced Sulfur (as Sulfur)			4.4E-02	lb/hr/tank	A	1		**0.13**	**0.58**	**0.13**	**0.58**	**0.13**	**0.58**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	4.7E-02	lb/hr/tank	A	1		**0.14**	**0.61**	**0.14**	**0.61**	**0.14**	**0.61**
Speciated TRS Compounds													
Hydrogen sulfide													
Methyl mercaptan			1.6E-02	lb/hr/tank	A	1		**0.05**	**0.21**	**0.05**	**0.21**	**0.05**	**0.21**
dimethyl disulfide			4.2E-02	lb/hr/tank	A	1		**0.13**	**0.55**	**0.13**	**0.55**	**0.13**	**0.55**
dimethyl sulfide			8.0E-03	lb/hr/tank	A	1		**0.02**	**0.11**	**0.02**	**0.11**	**0.02**	**0.11**

8. REFERENCES:
A) Median emission factors from NCASI Technical Bulletin 858, Table 10C.
B) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.
C) VOC emissions are sum of individual speciated VOC.
D) Sum of speciated POM and PAH.

9. NOTES:
lb TRS (as H2S)/hr = 5.0e-02 lb TRS (as H2S)/T CaO x 465 T CaO/day x 1 day/24 hr = 0.97 lb TRS (as H2S)/hr

Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

Table A-29
Precipitator Mix Tanks Emissions Calculations from Title V Operating Permit Application TV-2440-0005
New-Indy Catawba - Catawba, SC

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Precipitator Mix Tanks	3,169	Ton BLS/Day	2,831	Ton BLS/Day	24	7	365	365
AEI Group ID = 007, Process Unit ID = 2								
Title V Unit ID = 07. Equipment ID = 2515, 5115								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE			(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Total Reduced Sulfur (as Sulfur)			1.0E-04	#/T BLS	F	1		**0.01**	**0.06**	**0.01**	**0.06**	**0.01**	**0.05**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	1.1E-04	#/T BLS	H	1		**0.01**	**0.06**	**0.01**	**0.06**	**0.01**	**0.05**
Speciated TRS Compounds													
Hydrogen sulfide													
Methyl mercaptan			7.2E-05	#/T BLS	F	1		**0.01**	**0.04**	**0.01**	**0.04**	**0.01**	**0.04**
dimethyl disulfide			4.1E-05	#/T BLS	F	1		**0.01**	**0.02**	**0.01**	**0.02**	**0.00**	**0.02**
dimethyl sulfide			5.2E-05	#/T BLS	F	1		**0.01**	**0.03**	**0.01**	**0.03**	**0.01**	**0.03**

8. REFERENCES:
A) Average emission factors from NCASI Technical Bulletin No. 677, Salt Cake Mix Tanks.
B) Average emission factors from NCASI Technical Bulletin No. 677 (m-,p-xylene), Salt Cake Mix Tanks.
C) reserved.
D) Median emission factors from NCASI Technical Bulletin No. 884, Table 4.17 (THC - method 25A), Salt Cake Mix Tanks .
E) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.
F) Emission factor from NCASI Technical Bulletin 849, Table 20.
G) Sum of dimethyl disulfide, dimethyl sulfide, hydrogen sulfide, and methyl mercaptan emissions.
H) Assumed TRS (as S) converted to H2S based on molecular weight.
I) VOC emissions are sum of individual speciated VOC.
J) Sum of speciated POM and PAH.

9. NOTES:
lb TRS (as H2S)/hr = 1.1e-04 lb TRS (as H2S)/T BLS x 3,169 T BLS/day x 1 day/24 hr = 0.01 lb TRS (as H2S)/hr
Actual production ratioed to Smelt Dissolving Tank production during Weston source test runs conducted on June 27, 2021
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

Table A-30
High Density Pulp Storage Tanks Emissions Calculations from Title V Operating Permit Application TV-2440-0005
New-Indy Catawba - Catawba, SC

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
High Density Pulp Storage Tanks	12	tanks	12	tanks	24	7	365	365
AEI emissions reported under Insignificant Summary								
Title V Unit ID = 12. Equipment ID = 1299								

		8. EMISSION FACTOR INFORMATION				PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE			(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Total Reduced Sulfur (as Sulfur)			4.2E-01	lb/hr-tank	A	1		**5.04**	**22.08**	**5.04**	**22.08**	**5.04**	**22.08**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	4.5E-01	lb/hr-tank	A	1		**5.36**	**23.46**	**5.36**	**23.46**	**5.36**	**23.46**
Speciated TRS Compounds													
Hydrogen sulfide													
Methyl mercaptan			3.7E-02	lb/hr-tank	A	1		**0.44**	**1.94**	**0.44**	**1.94**	**0.44**	**1.94**
dimethyl disulfide			2.3E-01	lb/hr-tank	A	1		**2.76**	**12.09**	**2.76**	**12.09**	**2.76**	**12.09**
dimethyl sulfide			5.0E-01	lb/hr-tank	A	1		**6.00**	**26.28**	**6.00**	**26.28**	**6.00**	**26.28**

8. REFERENCES:
A) Median emission factors from NCASI Technical Bulletin 858, Table 11.
B) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.
C) Minimum emission factor from NCASI Technical Bulletin 858, Table 11 - Unbleached HD Storage Tank.
D) VOC emissions are sum of individual speciated VOC.
E) Sum of speciated POM and PAH.

9. NOTES:
lb TRS (as H2S)/hr = 4.5e-01 lb TRS (as H2S)/hr-tank x 12 tanks = 0.97 lb TRS (as H2S)/hr

Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

Table A-31
Low Density Pulp Tanks Emissions Calculations from Title V Operating Permit Application TV-2440-0005
New-Indy Catawba - Catawba, SC

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Insignificant - Low Density Pulp Tanks	18	tanks	18	tanks	24	7	365	365
AEI emissions reported under Insignificant Summary								
Title V Unit ID = Attachment B Insigificant List								

		8. EMISSION FACTOR INFORMATION				PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE			(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Total Reduced Sulfur (as Sulfur)			4.2E-01	lb/hr-tank	A	0.25		**1.89**	**8.28**	**1.89**	**8.28**	**1.89**	**8.28**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	4.5E-01	lb/hr-tank	A	0.25		**2.01**	**8.80**	**2.01**	**8.80**	**2.01**	**8.80**
Speciated TRS Compounds													
Hydrogen sulfide													
Methyl mercaptan			3.7E-03	lb/hr-tank	A	0.25		**0.02**	**0.07**	**0.02**	**0.07**	**0.02**	**0.07**
dimethyl disulfide			2.3E-01	lb/hr-tank	A	0.25		**1.04**	**4.53**	**1.04**	**4.53**	**1.04**	**4.53**
dimethyl sulfide			5.0E-01	lb/hr-tank	A	0.25		**2.25**	**9.86**	**2.25**	**9.86**	**2.25**	**9.86**

8. REFERENCES:
A) Median emission factors from NCASI Technical Bulletin 858, Table 11. Low density bleached storage tank emissions assumed to be 25% of unbleached high density storage tanks based on consistency of 10-12% for HD tanks and 2-3% for LD tanks.
B) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.
C) Minimum emission factor from NCASI Technical Bulletin 858, Table 11 - Unbleached HD Storage Tank.
D) VOC emissions are sum of individual speciated VOC.
E) Sum of speciated POM and PAH.

9. NOTES:
lb TRS (as H2S)/hr = 4.5e-01 lb TRS (as H2S)/hr-tank x 18 tanks x 0.25 process variability factor (LD tank 25% of HD tank based on consistency) = 2.01 lb TRS (as H2S)/hr

Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.
Process variablity factor of 0.25 reflects consistency ratio of HD and LD pulp storage tanks.

Table A-32
Weak Black Liquor Tanks Emissions Calculations from Title V Operating Permit Application TV-2440-0005
New-Indy Catawba - Catawba, SC

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Insignificant - Weak Black Liquor Tanks	5	tanks	5	tanks	24	7	365	365
AEI emissions reported under Insignificant Summary								
Title V Unit ID = Attachment B Insigificant List								

		8. EMISSION FACTOR INFORMATION				PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE			(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Total Reduced Sulfur (as Sulfur)			1.1E-01	lb/hr-tank	A	1		**0.55**	**2.41**	**0.55**	**2.41**	**0.55**	**2.41**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	1.2E-01	lb/hr-tank	A	1		**0.58**	**2.56**	**0.58**	**2.56**	**0.58**	**2.56**
Speciated TRS Compounds													
Hydrogen sulfide			1.9E-02	lb/hr-tank	A	1		**0.10**	**0.42**	**0.10**	**0.42**	**0.10**	**0.42**
Methyl mercaptan			9.0E-03	lb/hr-tank	A	1		**0.05**	**0.20**	**0.05**	**0.20**	**0.05**	**0.20**
dimethyl disulfide			5.5E-02	lb/hr-tank	A	1		**0.28**	**1.20**	**0.28**	**1.20**	**0.28**	**1.20**
dimethyl sulfide			9.3E-02	lb/hr-tank	A	1		**0.47**	**2.04**	**0.47**	**2.04**	**0.47**	**2.04**

8. REFERENCES:
A) Median emission factors from NCASI Technical Bulletin 858, Table 10A.
B) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.
C) VOC emissions are sum of individual speciated VOC.
D) Sum of speciated POM and PAH.

Storage tanks M15-0065, M52-140 and M52-0471 are collected and controlled in the NCG-HVLC collection system.
The emissions from M15-0065, M52-140 and M52-0471 are included in the Weston June 2021 Combination Boiler stack test results and have been excluded from this calculation.

		Controlled
Weak Black Liquor Tank	M15-0065	NCG - HVLC
No. 1 48% Black Liquor Storage Tank	M51-0243	No
Brown Stock Liquor Storage Tank	M52-0140	NCG - HVLC
Intermediate Black Liquor Surge Tank	M52-0471	NCG - HVLC
Weak Black Liquor Tank Floating Soap Skimmer	M15-0139	No
Soap CollectionTank	M24-0085	No
Soap Storage Tank	M24-0026	No
Concentrated Soap Tank	M24-0028	No

9. NOTES:
lb TRS (as H2S)/hr = 1.2e-01 lb TRS (as H2S)/hr-tank x 5 tanks = 0.58 lb TRS (as H2S)/hr

Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

Table A-33
Strong Black Liquor Tanks Emissions Calculations from Title V Operating Permit Application TV-2440-0005
New-Indy Catawba - Catawba, SC

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Insignificant - Strong Black Liquor Tanks	3	tanks	3	tanks	24	7	365	365
AEI emissions reported under Insignificant Summary								
Title V Unit ID = Attachment B Insigificant List								

		8. EMISSION FACTOR INFORMATION				PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE			(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Total Reduced Sulfur (as Sulfur)			1.8E-01	lb/hr-tank	A	1		**0.54**	**2.37**	**0.54**	**2.37**	**0.54**	**2.37**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	1.9E-01	lb/hr-tank	A	1		**0.57**	**2.51**	**0.57**	**2.51**	**0.57**	**2.51**
Speciated TRS Compounds													
Hydrogen sulfide			4.9E-02	lb/hr-tank	A	1		**0.15**	**0.64**	**0.15**	**0.64**	**0.15**	**0.64**
Methyl mercaptan			6.5E-02	lb/hr-tank	A	1		**0.20**	**0.85**	**0.20**	**0.85**	**0.20**	**0.85**
dimethyl disulfide			6.1E-02	lb/hr-tank	A	1		**0.18**	**0.80**	**0.18**	**0.80**	**0.18**	**0.80**
dimethyl sulfide			9.5E-02	lb/hr-tank	A	1		**0.29**	**1.25**	**0.29**	**1.25**	**0.29**	**1.25**

8. REFERENCES:
A) Median emission factors from NCASI Technical Bulletin 858, Table 10B.
B) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.
C) VOC emissions are sum of individual speciated VOC.
D) Sum of speciated POM and PAH.

Storage tanks M24-0128 and M52-0483 are collected and controlled in the NCG-HVLC collection system.
The emissions from M24-0128 and M52-0483 are included in the Weston June 2021 Combination Boiler stack test results and have been excluded from this calculation.

		Controlled
No.2 Bl Liq. Storage (M51-0241)	M24-0090	No
Spare Liquor Tank	M24-0128	NCG - HVLC
No.2 - 65% Blk Liq Storage Tank	M25-0325	No
No.3 - 65% Blk Liq Storage Tank	M51-0012	No
Spill Collection Tank	M52-0483	NCG - HVLC

9. NOTES:
lb TRS (as H2S)/hr = 1.9e-01 lb TRS (as H2S)/hr-tank x 3 tanks = 0.57 lb TRS (as H2S)/hr

Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

Table A-34
White Liquor Tanks Emissions Calculations from Title V Operating Permit Application TV-2440-0005
New-Indy Catawba - Catawba, SC

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Insignificant - White Liquor Tanks	2	tanks	2	tanks	24	7	365	365
AEI emissions reported under Insignificant Summary								
Title V Unit ID = Attachment B Insigificant List								

		8. EMISSION FACTOR INFORMATION				PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE			(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Total Reduced Sulfur (as Sulfur)			5.6E-01	lb/hr-tank	A	1		**1.12**	**4.91**	**1.12**	**4.91**	**1.12**	**4.91**
Total Reduced Sulfur (as Hydrogen Sulfide)		NSPS	6.0E-01	lb/hr-tank	A	1		**1.19**	**5.21**	**1.19**	**5.21**	**1.19**	**5.21**
Speciated TRS Compounds													
Hydrogen sulfide			9.0E-03	lb/hr-tank	A	1		**0.02**	**0.08**	**0.02**	**0.08**	**0.02**	**0.08**
Methyl mercaptan			5.8E-01	lb/hr-tank	A	1		**1.16**	**5.08**	**1.16**	**5.08**	**1.16**	**5.08**
dimethyl disulfide			5.7E-02	lb/hr-tank	A	1		**0.11**	**0.50**	**0.11**	**0.50**	**0.11**	**0.50**
dimethyl sulfide			2.4E-01	lb/hr-tank	A	1		**0.48**	**2.10**	**0.48**	**2.10**	**0.48**	**2.10**

8. REFERENCES:
A) Median emission factors from NCASI Technical Bulletin 858, Table 10C.
B) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.
C) VOC emissions are sum of individual speciated VOC.
D) Sum of speciated POM and PAH.

9. NOTES:
lb TRS (as H2S)/hr = 6.0e-01 lb TRS (as H2S)/hr-tank x 2 tanks = 1.19 lb TRS (as H2S)/hr

Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

Table A-35
Water9 Inputs - Clarifier to Ditch #1
New-Indy Catawba - Catawba, SC

Sources	Variable	Value	Unit	Source
Closed Trench No. 1	Underflow Temperature	44.4	C	Average ASB Influent Temperature during IPT (7/9-11/2021)
	Total water added at the unit		l/s	
	Area of openings at unit	50	cm^2	Water9 Default
	Radius of drop pipe	5	cm	Water9 Default
	Drop length to conduit	61	cm	Water9 Default
	width of trench	1.2	m	Estimated based on Google Earth and drone footage (when available)
	Distance to next unit	500	cm	Water9 Default
	slope of underflow conduit	0.015		Water9 Default
	depth of trench	1.2	m	Estimated based on site-specific data
	velocity air at opening	84	ft/min	
	pH	9.08		Site Specific Average from Primary Clarifier Pi Tag between 7/9-11/2021

Table A-35
Water9 Inputs - Clarifier to Ditch #1
New-Indy Catawba - Catawba, SC

Sources	Variable	Value	Unit	Source
Primary Municipal Clarifier (no. 2)	Wastewater Temperature	44.4	C	Average ASB Influent Temperature during IPT (7/9-11/2021)
	Primary Clarifier Diameter	84	m	Estimated based on Google Earth and drone footage (when available)
	Primary clarifier depth	5.41	m	Assumption
	Clarifier solids removal efficiency	0.7		Water9 Default
	waterfall drop height	38	cm	Visual estimate
	Clarifier weir/circumference	1		
	Number of identical units in parallel	1		Water9 Default
	cover vent rate	0.0005	m^3/s per m^2 surface	Water9 Default
	pH	9.08		Site Specific Average from Primary Clarifier Pi Tag between 7/9-11/2021

Table A-35
Water9 Inputs - Clarifier to Ditch #1
New-Indy Catawba - Catawba, SC

Sources	Variable	Value	Unit	Source
Open Trench No. 3 (Ditch #0)	Underflow Temperature	44.4	C	Average ASB Influent Temperature during IPT (7/9-11/2021)
	width of trench	3.65	m	Estimated based on Google Earth and drone footage (when available)
	Distance to next unit	6100	cm	Estimated based on Google Earth and drone footage (when available)
	Slope of underflow conduit	0.015		Water9 Default
	depth of trench	3	m	Water9 Default
	pH	9.08		Site Specific Average from Primary Clarifier Pi Tag between 7/9-11/2021

Table A-35
Water9 Inputs - Clarifier to Ditch #1
New-Indy Catawba - Catawba, SC

Sources	Variable	Value	Unit	Source
Open Sump No. 4	Underflow Temperature	44.4	C	Average ASB Influent Temperature during IPT (7/9-11/2021)
	Area of openings at unit	50	cm^2	Water9 Default
	Radius of drop pipe	5	cm	Water9 Default
	Drop length to conduit	61	cm	Water9 Default
	Radius of underflow conduit	12	cm	Water9 Default
	Distance to next unit	500	cm	Water9 Default
	slope of underflow conduit	0.015		Water9 Default
	open surface of liquid at the unit	1000	cm^2	Water9 Default
	flow entrance depth under surface	10	cm	Water9 Default
	depth of liquid in sump	50	cm	Water9 Default
	velocity air at opening	88	ft/min	Water9 Default
	pH	9.08		Site Specific Average from Primary Clarifier Pi Tag between 7/9-11/2021

Table A-35
Water9 Inputs - Clarifier to Ditch #1
New-Indy Catawba - Catawba, SC

Sources	Variable	Value	Unit	Source
Closed Trench No. 5	Underflow Temperature	44.4	C	Average ASB Influent Temperature during IPT (7/9-11/2021)
	Total water added at the unit		l/s	
	Area of openings at unit	50	cm^2	Water9 Default
	Radius of drop pipe	5	cm	Water9 Default
	Drop length to conduit	61	cm	Water9 Default
	width of trench	1.2	m	Estimated based on Google Earth and drone footage (when available)
	Distance to next unit	42614	cm	Estimated based on Google Earth and drone footage (when available)
	slope of underflow conduit	0.015		Water9 Default
	depth of trench	3	m	Water9 Default
	velocity air at opening	84	ft/min	
	pH			
Open Trench No. 6 (Ditch #1)	Underflow Temperature	44.4	C	Average ASB Influent Temperature during IPT (7/9-11/2021)
	width of trench	3.65	m	Assumption based on aerial view
	Distance to next unit	60000	cm	Assumption based on aerial view
	Slope of underflow conduit	0.015		Water9 Default
	depth of trench	3	m	Water9 Default
	pH	8.94		Average ASB Influent pH during IPT (7/9-11/2021)

NCASI WASTEWATER HYDROGEN SULFIDE EMISSIONS SIMULATOR (H2SSIM)

Version 1.3

Data Type 1. Site Identification

Company Name	New-Indy
Facility Name	Catawba SC
Basin Name	Primary Clarifier

Data Type 2. Model Zone Information

Number of Zones	1
Zone Location of Hardpipe	None
Type of Basin	PC

Data Type 3. Load Characteristics

Loading Characteristics	Main Influent	Hardpipe	Units
Flow	21.35	0	MGD
Total Sulfide	0.02003706	0	mg/L
Sulfate	390	0	mg/L

Data Type 4. Atmospheric Conditions

Windspeed	3.79	mph
Ambient Temperature	79	F

Data Type 5. Zone Physical and Chemical Conditions

Zone Condition	Zone 1	Zone 2	Zone 3	Zone 4	Units
Dissolved Oxygen	0				mg/L
Temperature	111.9				F
pH	8.943333333				s.u.
Redox Condition	Anoxic	Aerobic	Aerobic	Aerobic	
Length	243.7				feet
Width	243.7				feet
Depth	5.41				meters
Mixing	Moderat	Modera	Moderat		
Number of Aerators	0				
Total Horsepower	0				HP
Impellor Size	1.625				feet
Impellor RPM	1200				RPM
Diffused Air Flow	0				cms
Weir Height	0.38				meters

7/9/2021 - 7/11/2021 Average

Model Controls

Run H2SSIM

View Parameters

Clear Input Sheet

H2SSIM Results

7/9/2021 - 7/11/2021 Average

Basin Emissions		Units
Total Emissions (H_2S)	0.000	gms/s
Total Emissions (H_2S)	15.2	lbs/yr
Total Emissions (H_2S)	0.0	tons/yr
Total Emissions (H_2S)	0.0	tonnes/yr
Emission Flux (H_2S)	1.2	gms/m^2 yr

Zone Emissions	Zone 1	Zone 2	Zone 3	Zone 4	Units
Zone Emissions (H_2S)	0.00				gms/s
Zone Emissions (H_2S)	15.2				lbs/yr
Emission Flux (H_2S)	1.3				gms/m^2 yr
Liquid Conc. (Total Sulfide)	0.452				mg/L
Liquid Sulfide Load (lbs/yr)	4637.200				lbs/yr

Percent Inlet Sulfide Removed	-257.3%

Current Parameters	
kgen	0.25
ThetaGen	1.06
KDO	0.05
KSO4	10
kanox	0.006
ThetaOx	1.05
m	1
n	0.2
MLVSS	2500
O_2 Transfer Coeff.	2
alpha 1	0.83
alpha 2	0.6

```
      Type of unit is
      1 Total water added at the unit (l/s)      50     0
      2 Area of openings at unit (cm2)                  50
      3 Radius of drop pipe (cm)                        5
      4 Drop length to conduit (cm)                     61
      5 Humidity of inlet air (%)                       40
      6 Temperature of air (C)                          25
      7 Drain air velocity (ft/min)                     84
      8 manhole air velocity (ft/min)                   128
      9 Conduit air velocity (ft/min)                   66
      10 Wind speed (cm/s at 10 m)                      447
      11 distance to next unit (cm)                     500
      12 slope of underflow conduit                     .015
      13 friction factor liquid                         .016
      14 friction factor gas                            .006
      15 radius of underflow conduit (cm)               12
      16 Underflow T (C)                                25
      17 oscillation cycle time (min)                   5
      18 design collection velocities  (ft/s)           2
      19 design branch line fraction full               .4

      Type of unit is
      8 HL partition flag=1, adjust for sorption        0
      9 unit recycle convergence number                 200
      10 oil molecular weight                           0
      11 oil density  (g/cc)                            0
      12 NaUT 1=municipal 2=industrial  3=turb.         0
      13 NaUT 1=mass tr. 2=equil                        0
      14 parts biomass per 1000 parts COD
      15 oil water partition method 0=owpc
      16 use UNIFAC aqueous data base =1
      17 specify mass transfer for unit, =1
      18 Use biomass for unit option, =1
      19 biogrowth Monod half concentration ppm

      DETAILED CALCULATIONS at Unit 1 def.Closed trench
      Type: Closed trench
        Project C:\Users\akelley\Desktop\Water9\October 5
Comments Run\RSK Clarifier\IPT Clarifier Oct 5 Response 10/4/2021
10:15:59 PM  22:17:27
      COMPOUND: DIMETHYL DISULFIDE

      Type of unit is Closed trench
      1 Description of unit                       1     def.Closed
trench
      2 Underflow T (C)                                 44.4
      3 Total water added at the unit (l/s)             0
      4 Area of openings at unit (cm2)                  50
      5 Radius of drop pipe (cm)                        5
      6 Drop length to conduit (cm)                     61
```

```
      7 Open surface=1                                  0
      8 Subsurface entrance=1                           1
      9 subsurface exit =1                              1
      10 width of trench (m)                            1.2
      11 distance to next unit (cm)                     500
      12 slope of underflow conduit                     0.015
      13 depth  of trench (m)                           1.2
      16 velocity air at opening (ft/min)               84
      17 municipal waste in conduit =1                  0
      18 Assume equilibrium in unit, =1                 0
      19 pH  (enter 0 for no pH adjustment)             9.08

      Trench model for mass transfer from a surface.
       The effective depth of water flow (h) is 1.00454 ft.
       The water flow rate is 9.356e+05 cm3/s.
       The velocity of the flow (v)is 8.35415 ft/s.
       The width of the unit is 120. cm.
       The oxygen diffusion coefficient (ratio) adjustment factor
is 0.57394.
       reareation constant(ft/day) = 21.6 * v ^ 0.67 / h ^ 0.85 *
Ratio
       The liquid phase mass transfer coefficient from surface is
1.806e-04 m/s.

      Covered Ground Level Trench (U drain);   UNIT: 1
      width 120. cm;  Rho 0.001091 g/cc;  Visc 1.8e-04 cp
      Liquid Depth 30.618cm;  Slope 0.015;     Roughness  0.21336
cm
      Length 0.5382 ft;  Friction Factor0.      Manning coef 0.
      Headspace temp.  44.4 C;  Humidity 100. %;       Water
temp. 44.4 C
      Velocity  254.6344 cm/s;   Flow 0. gal/min
      ________drag_____________
      average water velocity 254.634 cm/s.   Fraction full:
0.25515
      average water surface velocity 288.957cm/sec
      velocity of air from internal recirculation  144.479 cm/sec
      Reynolds number for internal air flow 9.705e+04

      Properties of DIMETHYL DISULFIDE at 44.4 deg.C (111.9
deg.F)
         hl= 0.002733 atm-m3/mol      vp= 73.279 mmHg (1.41737
psia)
             151.837 y/x
             0.10494 g/L gas per g/L liquid
         Temperature adjustment factor = 1.046 ^(T-25), deg. C
         kl= 0. L/g-hr          dl= 1.076e-05 cm2/s  dv= 0.093261
cm2/s
      _____loss due to mass transfer in conduit
run_________________
        The length of the run of conduit line is 5. m (16.404
ft.)
```

```
        Flow of headspace gas in the conduit run_____0. L/s
           the pressure gradient for the headspace flow is 0.
gf/cm2
           the headspace area of the sewer 1.073e+04 cm2
           the headspace average velocity is 0. cm/s.
           the headspace recirculation velocity is 144.479 cm/s.
        Flow of water in the conduit run_______935.575 L/s
           the width of the surface is 120. cm.
           the depth of the liquid is 30.618 cm. (12.054 in.)
           the average depth of the liquid is 30.618 cm. (12.054
in.)
           fraction full of liquid is 0.25515
           the residence time of the liquid is 1.9636 s.
       The oil corrected aqueous HL is 1.518e+02 (y/x)
        Wind Velocity 447. cm/sec ( 10.M.P.H.) (879.921 ft/min)
        Velocity of headspace in sewer 0. cm/sec  (0. M.P.H.)
(0.ft/min)
         fraction loss in waste1 drop to hub      0.
         fraction loss in waste2 drop to hub      0.
         fraction loss in waste3 drop to hub      0.
         fraction loss in collection hub drop     0.
         fraction loss in unit                    0.
         fraction loss in line run                0.
         component upstream of unit, g/s          0.
         mol fract. headspace upstream (y)        0.
         headspace at conduit discharge, y        0.
         headspace end of conduit (y)             0.
         mol fract. headspace vent base           0.
         headspace flow out vent (cc/s)           0.
         headspace flow down line (cc/s)          0.
         KG surface (m/s)                         0.
         KL surface (m/s)                         1.806e-04
         flow of waste down hub (l/s)             0.
         component flow in waste into unit (g/s)  0.03384
         total component into unit, g/s           0.03384
         TOTAL AIR EMISSIONS  (g/s)               0.
                           (Mg/year)              0.
         EMISSION FACTOR  (g/cm2-s)               7.208e-11
         UNIT EXIT CONCENTRATION (ppmw)           0.03617
      DETAILED CALCULATIONS at Unit 2 def.primary munici
      Type: primary municipal clarifier
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      Type of unit is primary municipal clarifier
      1 Description of unit                      2
def.primary munici
      2 Wastewater temperature   (C)                   44.4
      3 primary clarifier diameter (m)                 84
      4 primary clarifier depth  (m)                   5.41
```

```
      5 clarifier solids removal efficiency            0.7
      6 waterfall drop height (cm)                     38
      7 clarifier weir/circumference                   1
      8 Center well present, =1                        1
      10 number of identical units in parallel         1
      15 vent air emission control factor              0
      16 cover vent rate (m3/s per m2 surface)         0.0005
      17 If covered, then enter 1                      0
      19 pH  (enter 0 for no pH adjustment)            9.08

      Properties of DIMETHYL DISULFIDE at 44.4 deg.C (111.9
deg.F)
         hl= 0.002733 atm-m3/mol      vp= 73.279 mmHg (1.41737
psia)
             151.837 y/x
             0.10494 g/L gas per g/L liquid
         Temperature adjustment factor = 1.046 ^(T-25), deg. C
         k1= 0. L/g-hr          dl= 1.076e-05 cm2/s  dv= 0.093261
cm2/s
      Clarifier surface_____________
      The residence time in the clarifier is 8.902 hrs.
      The Henry's law constant of 0.002733 atm-m3/mol is
multiplied by
       a adsorption factor of 1..
      The adsorption corrected aqueous HL is 1.518e+02 (y/x)
      The gas phase mass transfer is estimated using correlation
3, MacKay (1983).
      The Schmidt number is 1.60839.
      The friction velocity is 13.347 m/s
      kg is estimated as 0.005417 m/s.  Model: 3
      Gas phase mass transfer 2.257e-05 g mol/ cm2-s.
        The flow of water is 935.575 cm3/s.
        The effective flow depth in the clarifier is 54.1 cm.
      Clarifier model liquid phase mass transfer 8.494e-05 g mol/
cm2-s.
      Overall mass transfer 8.288e-05 g mol/cm2-s.
      Clarifier weir emissions_____________
      The Schmidt number is 1.60839.
      The friction velocity is 13.347 m/s
      kg is estimated as 0.005417 m/s.  Model: 3
      Weir mass transfer is estimated from the Pincince 11/7/89
primary model
       The water drop was 0.38 m.
       The water flow rate was 0.93558 m3/s. (12.763 m3/hr-m)
       R = Exp(0.* drop ^ 0.* (q * 3600 / cir) ^ 0.* 0. ^ 0.31
       R = 1.03824
      The diffusion constant correction is
(1.076e-05/.000024)^.677
      The unadjusted fraction O2 lost from the model is 0.036834.
      The overall O2 mass transfer coefficient from the model is
3.436e-04 m/s.
      The overall compound mass transfer coefficient from the
```

```
model is 2.007e-04 m/s.
         residence time (hours)                    8.90152
         KG surface (m/s)                          0.005519
         KL surface (m/s)                          1.529e-05
         KL OVERALL SURFACE (m/s)                  1.492e-05
         Fraction lost from clarifier surface      0.08458
         KG waterfall (m/s)                        0.005519
         KL waterfall (m/s)                        2.007e-04
         KL OVERALL WATERFALL (m/s)                1.514e-04
         Fraction lost from weir waterfall         0.01474
         fraction of equilibrium in the unit       0.
         Fraction absorbed in underflow            0.
         TOTAL FRACTION LOST TO THE AIR            0.09932
         TOTAL AIR EMISSIONS  (g/s)                0.003361
                            (Mg/year)              0.10599
         EMISSION FACTOR  (g/cm2-s)                6.065e-11
         UNIT EXIT CONCENTRATION (ppmw)            0.032578
      DETAILED CALCULATIONS at Unit 3 def.open trench
      Type: open trench
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      Type of unit is open trench
      1 Description of unit                      3     def.open
trench
      2 Underflow T (C)                                44.4
      3 Total water added at the unit (l/s)            0
      8 Subsurface entrance=1                          0
      9 subsurface exit =1                             0
      10 width of trench (m)                           3.65
      11 distance to next unit (cm)                    6100
      12 slope of underflow conduit                    0.015
      13 depth  of trench (m)                          3
      19 pH  (enter 0 for no pH adjustment)            9.08

      Trench model for mass transfer from a surface.
       The effective depth of water flow (h) is 0.43996 ft.
       The water flow rate is 9.356e+05 cm3/s.
       The velocity of the flow (v)is 6.27108 ft/s.
       The width of the unit is 365. cm.
       The oxygen diffusion coefficient (ratio) adjustment factor
is 0.57394.
       reareation constant(ft/day) = 21.6 * v ^ 0.67 / h ^ 0.85 *
Ratio
       The liquid phase mass transfer coefficient from surface is
3.007e-04 m/s.
      The Schmidt number is 1.60839.
      The friction velocity is 13.347 m/s
      kg is estimated as 0.005417 m/s.  Model: 3
      The slope of the U drain is 0.015
```

```
      The water velocity is 191.142 cm/s.  (6.27108 ft/s.)
      The depth of the water is 13.41 cm (5.47347 in.)
      Kl= 3.007e-04 m/s;  Kg=  5.417201E-03 m/s
      the ratio of the mass transfer to depth is
1.50754208738415E-03
      The residence time in the trench is  31.91338 sec.
      fraction emitted 0.046972
         fraction loss in waste1 drop to hub      0.
         fraction loss in waste2 drop to hub      0.
         fraction loss in waste3 drop to hub      0.
         fraction loss in collection hub drop     0.
         fraction loss in unit                    0.
         fraction loss in line run                0.046972
         component upstream of unit, g/s          0.030479
         mol fract. headspace upstream (y)        0.
         headspace at conduit discharge, y        0.
         headspace end of conduit (y)             0.
         mol fract. headspace vent base           0.
         headspace flow out vent (cc/s)           0.
         headspace flow down line (cc/s)          0.
         KG surface (m/s)                         0.005417
         KL surface (m/s)                         3.007e-04
         flow of waste down hub (l/s)             0.
         component flow in waste into unit (g/s)  0.
         total component into unit, g/s           0.030479
         TOTAL AIR EMISSIONS  (g/s)               0.001432
                          (Mg/year)               0.045148
         EMISSION FACTOR  (g/cm2-s)               6.43e-10
         UNIT EXIT CONCENTRATION (ppmw)           0.031047
      DETAILED CALCULATIONS at Unit 4 def.open sump
      Type: open sump
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      Type of unit is open sump
      1 Description of unit                       4     def.open
sump
      2 Underflow T (C)                                 44.4
      3 Total water added at the unit (l/s)             0
      4 Area of openings at unit (cm2)                  50
      5 Radius of drop pipe (cm)                        5
      6 Drop length to conduit (cm)                     61
      7 Open surface=1                                  1
      8 Subsurface entrance=1                           0
      9 subsurface exit =1                              0
      10 radius of underflow conduit (cm)               12
      11 distance to next unit (cm)                     500
      12 slope of underflow conduit                     0.015
      13 Open surface of liquid at the unit (cm2)       1000
      14 flow entrance depth under surface (cm)         10
```

```
      15 depth of liquid in sump (cm)                    50
      16 velocity air at opening (ft/min)                88
      17 municipal waste in conduit =1                   0
      18 Assume equilibrium in unit, =1                  0
      19 pH  (enter 0 for no pH adjustment)              9.08

      Trench model for mass transfer from a surface.
       The effective depth of water flow (h) is 0.32808 ft.
       The water flow rate is 9.356e+05 cm3/s.
       The velocity of the flow (v)is 97.065 ft/s.
       The width of the unit is 31.623 cm.
       The oxygen diffusion coefficient (ratio) adjustment factor
is 0.57394.
       reareation constant(ft/day) = 21.6 * v ^ 0.67 / h ^ 0.85 *
Ratio
       The liquid phase mass transfer coefficient from surface is
0.002419 m/s.
      The Schmidt number is 1.60839.
      The friction velocity is 13.347 m/s
      kg is estimated as 0.005417 m/s.  Model: 3
         fraction loss in waste1 drop to hub      0.
         fraction loss in waste2 drop to hub      0.
         fraction loss in waste3 drop to hub      0.
         fraction loss in collection hub drop     0.
         fraction loss in unit                    5.253e-05
         fraction loss in line run                0.
         component upstream of unit, g/s          0.029047
         mol fract. headspace upstream (y)        0.
         headspace at conduit discharge, y        0.
         headspace end of conduit (y)             8.997e-07
         mol fract. headspace vent base           0.
         headspace flow out vent (cc/s)           0.
         headspace flow down line (cc/s)          -0.0306
         KG surface (m/s)                         0.005417
         KL surface (m/s)                         0.002419
         flow of waste down hub (l/s)             0.
         component flow in waste into unit (g/s)  0.
         total component into unit, g/s           0.029047
         TOTAL AIR EMISSIONS  (g/s)               1.526e-06
                            (Mg/year)             4.812e-05
         EMISSION FACTOR  (g/cm2-s)               6.43e-10
         UNIT EXIT CONCENTRATION (ppmw)           0.031046
      DETAILED CALCULATIONS at Unit 5 def.Closed trench
      Type: Closed trench
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      Type of unit is Closed trench
      1 Description of unit                      5     def.Closed
trench
```

```
2 Underflow T (C)                                  44.4
3 Total water added at the unit (l/s)              0
4 Area of openings at unit (cm2)                   50
5 Radius of drop pipe (cm)                         5
6 Drop length to conduit (cm)                      61
7 Open surface=1                                   0
8 Subsurface entrance=1                            0
9 subsurface exit =1                               0
10 width of trench (m)                             1.2
11 distance to next unit (cm)                      42614
12 slope of underflow conduit                      0.015
13 depth  of trench (m)                            3
16 velocity air at opening (ft/min)                84
17 municipal waste in conduit =1                   0
18 Assume equilibrium in unit, =1                  0
19 pH  (enter 0 for no pH adjustment)              0

Trench model for mass transfer from a surface.
 The effective depth of water flow (h) is 1.00454 ft.
 The water flow rate is 9.356e+05 cm3/s.
 The velocity of the flow (v)is 8.35415 ft/s.
 The width of the unit is 120. cm.
 The oxygen diffusion coefficient (ratio) adjustment factor
is 0.57394.
 reareation constant(ft/day) = 21.6 * v ^ 0.67 / h ^ 0.85 *
Ratio
 The liquid phase mass transfer coefficient from surface is
1.806e-04 m/s.

Covered Ground Level Trench (U drain);   UNIT: 5
width 120. cm;  Rho 0.001091 g/cc;  Visc 1.8e-04 cp
Liquid Depth 30.618cm;  Slope 0.015;     Roughness  0.21336
cm
Length 45.869 ft;  Friction Factor0.      Manning coef 0.
Headspace temp.  44.4 C;  Humidity 100. %;       Water
temp. 44.4 C
Velocity  254.6344 cm/s;   Flow 0. gal/min
________drag_____________
average water velocity 254.634 cm/s.   Fraction full:
0.10206
average water surface velocity 288.957cm/sec
velocity of air from internal recirculation  144.479 cm/sec
Reynolds number for internal air flow 1.535e+05

Properties of DIMETHYL DISULFIDE at 44.4 deg.C (111.9
deg.F)
   hl= 0.002733 atm-m3/mol      vp= 73.279 mmHg (1.41737
psia)
       151.837 y/x
       0.10494 g/L gas per g/L liquid
   Temperature adjustment factor = 1.046 ^(T-25), deg. C
   kl= 0. L/g-hr          dl= 1.076e-05 cm2/s  dv= 0.093261
```

```
cm2/s
      _____loss due to mass transfer in conduit
run_________________
        The length of the run of conduit line is 426.14 m
(1398.097 ft.)
        Flow of headspace gas in the conduit run_____10.523 L/s
           the pressure gradient for the headspace flow
is -0.1206 gf/cm2
           the headspace area of the sewer 3.233e+04 cm2
           the headspace average velocity is 0.32553 cm/s.
           the headspace recirculation velocity is 144.479 cm/s.
        Flow of water in the conduit run_______935.575 L/s
           the width of the surface is 120. cm.
           the depth of the liquid is 30.618 cm. (12.054 in.)
           the average depth of the liquid is 30.618 cm. (12.054
in.)
           fraction full of liquid is 0.10206
           the residence time of the liquid is 167.354 s.
       The oil corrected aqueous HL is 1.518e+02 (y/x)
        Wind Velocity 447. cm/sec ( 10.M.P.H.) (879.921 ft/min)
        Velocity of headspace in sewer 0.32553 cm/sec  (0.007282
M.P.H.) (0.6408ft/min)
      kg is estimated as 7.653e-04 m/s.  Model: 5
      Modified J factor model is used for mass transfer.
           the effective gas speed for the correlation is 144.479
cm/s.
           the effective width for the correlation is 4.261e+
04cm.
           the gas phase mass transfer coefficient is 3.1887e-06
gmol/cm2-s.
      (kg)                                              7.6528e-04
m/s.
        Trench model (Owens) for mass transfer in liquid phase.
           the average liquid velocity is 254.634 cm/s.
           the liquid depth in the underflow 30.618 cm.
           the liquid phase mass transfer coefficient is
9.6889e-04 gmol/cm2-s.
      (kl)
1.744e-04 m/s.
        Overall mass transfer coefficient.
              KL = 1 / (1 / kg / koc + 1 / kl) * 0.18
           the corrected partition coefficient is 151.837 y/x at
one atm.
      (KL) the overall liquid based mass transfer coefficient is
5.811e-05 m/s.
      Countercurrent flow model model is used for mass transfer.
           the overall mass transfer coefficient is 5.811e-05
m/s.
           the average depth of the liquid is 30.618 cm.
           the ratio of the transfer coefficient to average depth
is 1.898e-04
           the residence time of the liquid is 167.354 s.
```

```
           the maximum fraction from open air mass transfer is
0.031263
           the molar liquid flow is 5.198e+04 gmol/s.
           the molar gas flow is 0.40406 gmol/s.
      (fe) the fraction lost from the liquid is 1.1803e-03
           the g/s from the gas to the liquid is 0.e+00 g/s.
         fraction loss in waste1 drop to hub      0.
         fraction loss in waste2 drop to hub      0.
         fraction loss in waste3 drop to hub      0.
         fraction loss in collection hub drop     0.
         fraction loss in unit                    0.
         fraction loss in line run                0.001179
         component upstream of unit, g/s          0.029046
         mol fract. headspace upstream (y)        0.
         headspace at conduit discharge, y        8.997e-07
         headspace end of conduit (y)             0.
         mol fract. headspace vent base           8.997e-07
         headspace flow out vent (cc/s)           1.052e+04
         headspace flow down line (cc/s)          -1.052e+04
         KG surface (m/s)                         7.653e-04
         KL surface (m/s)                         1.744e-04
         flow of waste down hub (l/s)             0.
         component flow in waste into unit (g/s)  -3.424e-05
         total component into unit, g/s           0.029046
         TOTAL AIR EMISSIONS  (g/s)               3.424e-05
                            (Mg/year)             0.00108
         EMISSION FACTOR  (g/cm2-s)               6.43e-10
         UNIT EXIT CONCENTRATION (ppmw)           0.031009
      DETAILED CALCULATIONS at Unit 6 def.open trench
      Type: open trench
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      Type of unit is open trench
      1 Description of unit                      6     def.open
trench
      2 Underflow T (C)                                44.4
      3 Total water added at the unit (l/s)            0
      8 Subsurface entrance=1                          0
      9 subsurface exit =1                             0
      10 width of trench (m)                           3.65
      11 distance to next unit (cm)                    60000
      12 slope of underflow conduit                    0.015
      13 depth  of trench (m)                          3
      19 pH  (enter 0 for no pH adjustment)            8.94

      Trench model for mass transfer from a surface.
       The effective depth of water flow (h) is 0.43996 ft.
       The water flow rate is 9.356e+05 cm3/s.
       The velocity of the flow (v)is 6.27108 ft/s.
```

```
       The width of the unit is 365. cm.
       The oxygen diffusion coefficient (ratio) adjustment factor
is 0.57394.
       reareation constant(ft/day) = 21.6 * v ^ 0.67 / h ^ 0.85 *
Ratio
       The liquid phase mass transfer coefficient from surface is
3.007e-04 m/s.
      The Schmidt number is 1.60839.
      The friction velocity is 13.347 m/s
      kg is estimated as 0.005417 m/s.  Model: 3
      The slope of the U drain is 0.015
      The water velocity is 191.142 cm/s.  (6.27108 ft/s.)
      The depth of the water is 13.41 cm (5.47347 in.)
      Kl= 3.007e-04 m/s;  Kg=  5.417201E-03 m/s
      the ratio of the mass transfer to depth is
1.50754208738415E-03
      The residence time in the trench is  313.9021 sec.
      fraction emitted 0.37701
         fraction loss in waste1 drop to hub      0.
         fraction loss in waste2 drop to hub      0.
         fraction loss in waste3 drop to hub      0.
         fraction loss in collection hub drop     0.
         fraction loss in unit                    0.
         fraction loss in line run                0.37701
         component upstream of unit, g/s          0.029011
         mol fract. headspace upstream (y)        0.
         headspace at conduit discharge, y        0.
         headspace end of conduit (y)             0.
         mol fract. headspace vent base           0.
         headspace flow out vent (cc/s)           0.
         headspace flow down line (cc/s)          0.
         KG surface (m/s)                         0.005417
         KL surface (m/s)                         3.007e-04
         flow of waste down hub (l/s)             0.
         component flow in waste into unit (g/s)  0.
         total component into unit, g/s           0.029011
         TOTAL AIR EMISSIONS  (g/s)               0.010938
                         (Mg/year)                0.34493
         EMISSION FACTOR  (g/cm2-s)               4.994e-10
         UNIT EXIT CONCENTRATION (ppmw)           0.019318
      DETAILED CALCULATIONS at Unit 7 def.system exit st
      Type: system exit stream
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      COMPOUND: DIMETHYL DISULFIDE

      Type of unit is system exit stream
      1 Description of unit                      7     def.system
exit st

         TOTAL AIR EMISSIONS  (g/s)               0.
```

	(Mg/year)	0.
EMISSION FACTOR	(g/cm2-s)	4.994e-10
UNIT EXIT CONCENTRATION (ppmw)		0.019318

```
      Type of unit is
      1 Total water added at the unit (l/s)      50     0
      2 Area of openings at unit (cm2)                  50
      3 Radius of drop pipe (cm)                        5
      4 Drop length to conduit (cm)                     61
      5 Humidity of inlet air (%)                       40
      6 Temperature of air (C)                          25
      7 Drain air velocity (ft/min)                     84
      8 manhole air velocity (ft/min)                   128
      9 Conduit air velocity (ft/min)                   66
      10 Wind speed (cm/s at 10 m)                      447
      11 distance to next unit (cm)                     500
      12 slope of underflow conduit                     .015
      13 friction factor liquid                         .016
      14 friction factor gas                            .006
      15 radius of underflow conduit (cm)               12
      16 Underflow T (C)                                25
      17 oscillation cycle time (min)                   5
      18 design collection velocities  (ft/s)           2
      19 design branch line fraction full               .4

      Type of unit is
      8 HL partition flag=1, adjust for sorption        0
      9 unit recycle convergence number                 200
      10 oil molecular weight                           0
      11 oil density  (g/cc)                            0
      12 NaUT 1=municipal 2=industrial  3=turb.         0
      13 NaUT 1=mass tr. 2=equil                        0
      14 parts biomass per 1000 parts COD
      15 oil water partition method 0=owpc
      16 use UNIFAC aqueous data base =1
      17 specify mass transfer for unit, =1
      18 Use biomass for unit option, =1
      19 biogrowth Monod half concentration ppm

      DETAILED CALCULATIONS at Unit 1 def.Closed trench
      Type: Closed trench
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      COMPOUND: DIMETHYL SULFIDE  (DMS)

      Type of unit is Closed trench
      1 Description of unit                      1     def.Closed
trench
      2 Underflow T (C)                                44.4
      3 Total water added at the unit (l/s)            0
      4 Area of openings at unit (cm2)                 50
      5 Radius of drop pipe (cm)                       5
      6 Drop length to conduit (cm)                    61
```

```
      7 Open surface=1                                  0
      8 Subsurface entrance=1                           1
      9 subsurface exit =1                              1
      10 width of trench (m)                            1.2
      11 distance to next unit (cm)                     500
      12 slope of underflow conduit                     0.015
      13 depth  of trench (m)                           1.2
      16 velocity air at opening (ft/min)               84
      17 municipal waste in conduit =1                  0
      18 Assume equilibrium in unit, =1                 0
      19 pH  (enter 0 for no pH adjustment)             9.08

      Trench model for mass transfer from a surface.
       The effective depth of water flow (h) is 1.00454 ft.
       The water flow rate is 9.356e+05 cm3/s.
       The velocity of the flow (v)is 8.35415 ft/s.
       The width of the unit is 120. cm.
       The oxygen diffusion coefficient (ratio) adjustment factor
is 0.77928.
       reareation constant(ft/day) = 21.6 * v ^ 0.67 / h ^ 0.85 *
Ratio
       The liquid phase mass transfer coefficient from surface is
2.453e-04 m/s.

      Covered Ground Level Trench (U drain);   UNIT: 1
      width 120. cm;  Rho 0.001091 g/cc;  Visc 1.8e-04 cp
      Liquid Depth 30.618cm;  Slope 0.015;     Roughness  0.21336
cm
      Length 0.5382 ft;  Friction Factor0.      Manning coef 0.
      Headspace temp.  44.4 C;  Humidity 100. %;       Water
temp. 44.4 C
      Velocity  254.6344 cm/s;   Flow 0. gal/min
      ________drag_____________
      average water velocity 254.634 cm/s.   Fraction full:
0.25515
      average water surface velocity 288.957cm/sec
      velocity of air from internal recirculation  144.479 cm/sec
      Reynolds number for internal air flow 9.705e+04

      Properties of DIMETHYL SULFIDE  (DMS) at 44.4 deg.C (111.9
deg.F)
         hl= 0.004189 atm-m3/mol      vp= 1009.298 mmHg (19.522
psia)
             232.701 y/x
             0.16084 g/L gas per g/L liquid
         Temperature adjustment factor = 1.046 ^(T-25), deg. C
         kl= 0. L/g-hr          dl= 1.555e-05 cm2/s  dv= 0.15644
cm2/s
      _____loss due to mass transfer in conduit
run_________________
        The length of the run of conduit line is 5. m (16.404
ft.)
```

```
        Flow of headspace gas in the conduit run_____0. L/s
           the pressure gradient for the headspace flow is 0.
gf/cm2
           the headspace area of the sewer 1.073e+04 cm2
           the headspace average velocity is 0. cm/s.
           the headspace recirculation velocity is 144.479 cm/s.
        Flow of water in the conduit run_______935.575 L/s
           the width of the surface is 120. cm.
           the depth of the liquid is 30.618 cm. (12.054 in.)
           the average depth of the liquid is 30.618 cm. (12.054
in.)
           fraction full of liquid is 0.25515
           the residence time of the liquid is 1.9636 s.
       The oil corrected aqueous HL is 2.327e+02 (y/x)
        Wind Velocity 447. cm/sec ( 10.M.P.H.) (879.921 ft/min)
        Velocity of headspace in sewer 0. cm/sec  (0. M.P.H.)
(0.ft/min)
         fraction loss in waste1 drop to hub      0.
         fraction loss in waste2 drop to hub      0.
         fraction loss in waste3 drop to hub      0.
         fraction loss in collection hub drop     0.
         fraction loss in unit                    0.
         fraction loss in line run                0.
         component upstream of unit, g/s          0.
         mol fract. headspace upstream (y)        0.
         headspace at conduit discharge, y        0.
         headspace end of conduit (y)             0.
         mol fract. headspace vent base           0.
         headspace flow out vent (cc/s)           0.
         headspace flow down line (cc/s)          0.
         KG surface (m/s)                         0.
         KL surface (m/s)                         2.453e-04
         flow of waste down hub (l/s)             0.
         component flow in waste into unit (g/s)  0.12188
         total component into unit, g/s           0.12188
         TOTAL AIR EMISSIONS  (g/s)               0.
                           (Mg/year)              0.
         EMISSION FACTOR  (g/cm2-s)               4.994e-10
         UNIT EXIT CONCENTRATION (ppmw)           0.13027
      DETAILED CALCULATIONS at Unit 2 def.primary munici
      Type: primary municipal clarifier
        Project C:\Users\akelley\Desktop\Water9\October 5
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      COMPOUND: DIMETHYL SULFIDE  (DMS)

      Type of unit is primary municipal clarifier
      1 Description of unit                      2
def.primary munici
      2 Wastewater temperature   (C)                    44.4
      3 primary clarifier diameter (m)                  84
      4 primary clarifier depth  (m)                    5.41
```

```
      5 clarifier solids removal efficiency            0.7
      6 waterfall drop height (cm)                     38
      7 clarifier weir/circumference                   1
      8 Center well present, =1                        1
      10 number of identical units in parallel         1
      15 vent air emission control factor              0
      16 cover vent rate (m3/s per m2 surface)         0.0005
      17 If covered, then enter 1                      0
      19 pH  (enter 0 for no pH adjustment)            9.08

      Properties of DIMETHYL SULFIDE  (DMS) at 44.4 deg.C (111.9
deg.F)
         hl= 0.004189 atm-m3/mol      vp= 1009.298 mmHg (19.522
psia)
             232.701 y/x
             0.16084 g/L gas per g/L liquid
         Temperature adjustment factor = 1.046 ^(T-25), deg. C
         k1= 0. L/g-hr          dl= 1.555e-05 cm2/s  dv= 0.15644
cm2/s
      Clarifier surface_____________
      The residence time in the clarifier is 8.902 hrs.
      The Henry's law constant of 0.004189 atm-m3/mol is
multiplied by
       a adsorption factor of 1..
      The adsorption corrected aqueous HL is 2.327e+02 (y/x)
      The gas phase mass transfer is estimated using correlation
3, MacKay (1983).
      The Schmidt number is 0.95884.
      The friction velocity is 13.347 m/s
      kg is estimated as 0.007252 m/s.  Model: 3
      Gas phase mass transfer 3.022e-05 g mol/ cm2-s.
        The flow of water is 935.575 cm3/s.
        The effective flow depth in the clarifier is 54.1 cm.
      Clarifier model liquid phase mass transfer 1.099e-04 g mol/
cm2-s.
      Overall mass transfer 1.082e-04 g mol/cm2-s.
      Clarifier weir emissions_____________
      The Schmidt number is 0.95884.
      The friction velocity is 13.347 m/s
      kg is estimated as 0.007252 m/s.  Model: 3
      Weir mass transfer is estimated from the Pincince 11/7/89
primary model
       The water drop was 0.38 m.
       The water flow rate was 0.93558 m3/s. (12.763 m3/hr-m)
       R = Exp(0.* drop ^ 0.* (q * 3600 / cir) ^ 0.* 0. ^ 0.31
       R = 1.04921
      The diffusion constant correction is
(1.555e-05/.000024)^.677
      The unadjusted fraction O2 lost from the model is 0.046903.
      The overall O2 mass transfer coefficient from the model is
4.376e-04 m/s.
      The overall compound mass transfer coefficient from the
```

```
model is 3.272e-04 m/s.
         residence time (hours)                    8.90152
         KG surface (m/s)                          0.007388
         KL surface (m/s)                          1.979e-05
         KL OVERALL SURFACE (m/s)                  1.948e-05
         Fraction lost from clarifier surface      0.109
         KG waterfall (m/s)                        0.007388
         KL waterfall (m/s)                        3.272e-04
         KL OVERALL WATERFALL (m/s)                2.6e-04
         Fraction lost from weir waterfall         0.024485
         fraction of equilibrium in the unit       0.
         Fraction absorbed in underflow            0.
         TOTAL FRACTION LOST TO THE AIR            0.13348
         TOTAL AIR EMISSIONS  (g/s)                0.016268
                              (Mg/year)            0.51304
         EMISSION FACTOR  (g/cm2-s)                2.936e-10
         UNIT EXIT CONCENTRATION (ppmw)            0.11288
      DETAILED CALCULATIONS at Unit 3 def.open trench
      Type: open trench
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      COMPOUND: DIMETHYL SULFIDE  (DMS)

      Type of unit is open trench
      1 Description of unit                      3     def.open
trench
      2 Underflow T (C)                                44.4
      3 Total water added at the unit (l/s)            0
      8 Subsurface entrance=1                          0
      9 subsurface exit =1                             0
      10 width of trench (m)                           3.65
      11 distance to next unit (cm)                    6100
      12 slope of underflow conduit                    0.015
      13 depth  of trench (m)                          3
      19 pH  (enter 0 for no pH adjustment)            9.08

      Trench model for mass transfer from a surface.
       The effective depth of water flow (h) is 0.43996 ft.
       The water flow rate is 9.356e+05 cm3/s.
       The velocity of the flow (v)is 6.27108 ft/s.
       The width of the unit is 365. cm.
       The oxygen diffusion coefficient (ratio) adjustment factor
is 0.77928.
       reareation constant(ft/day) = 21.6 * v ^ 0.67 / h ^ 0.85 *
Ratio
       The liquid phase mass transfer coefficient from surface is
4.083e-04 m/s.
      The Schmidt number is 0.95884.
      The friction velocity is 13.347 m/s
      kg is estimated as 0.007252 m/s.  Model: 3
      The slope of the U drain is 0.015
```

```
      The water velocity is 191.142 cm/s.  (6.27108 ft/s.)
      The depth of the water is 13.41 cm (5.47347 in.)
      Kl= 4.083e-04 m/s;  Kg=  7.251963E-03 m/s
      the ratio of the mass transfer to depth is
2.30203530673789E-03
      The residence time in the trench is  31.91338 sec.
      fraction emitted 0.070832
         fraction loss in waste1 drop to hub      0.
         fraction loss in waste2 drop to hub      0.
         fraction loss in waste3 drop to hub      0.
         fraction loss in collection hub drop     0.
         fraction loss in unit                    0.
         fraction loss in line run                0.070832
         component upstream of unit, g/s          0.10561
         mol fract. headspace upstream (y)        0.
         headspace at conduit discharge, y        0.
         headspace end of conduit (y)             0.
         mol fract. headspace vent base           0.
         headspace flow out vent (cc/s)           0.
         headspace flow down line (cc/s)          0.
         KG surface (m/s)                         0.007252
         KL surface (m/s)                         4.083e-04
         flow of waste down hub (l/s)             0.
         component flow in waste into unit (g/s)  0.
         total component into unit, g/s           0.10561
         TOTAL AIR EMISSIONS  (g/s)               0.00748
                            (Mg/year)             0.2359
         EMISSION FACTOR  (g/cm2-s)               3.36e-09
         UNIT EXIT CONCENTRATION (ppmw)           0.10489
      DETAILED CALCULATIONS at Unit 4 def.open sump
      Type: open sump
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      COMPOUND: DIMETHYL SULFIDE  (DMS)

      Type of unit is open sump
      1 Description of unit                       4     def.open
sump
      2 Underflow T (C)                                 44.4
      3 Total water added at the unit (l/s)             0
      4 Area of openings at unit (cm2)                  50
      5 Radius of drop pipe (cm)                        5
      6 Drop length to conduit (cm)                     61
      7 Open surface=1                                  1
      8 Subsurface entrance=1                           0
      9 subsurface exit =1                              0
      10 radius of underflow conduit (cm)               12
      11 distance to next unit (cm)                     500
      12 slope of underflow conduit                     0.015
      13 Open surface of liquid at the unit (cm2)       1000
      14 flow entrance depth under surface (cm)         10
```

```
      15 depth of liquid in sump (cm)                    50
      16 velocity air at opening (ft/min)                88
      17 municipal waste in conduit =1                   0
      18 Assume equilibrium in unit, =1                  0
      19 pH  (enter 0 for no pH adjustment)              9.08

      Trench model for mass transfer from a surface.
       The effective depth of water flow (h) is 0.32808 ft.
       The water flow rate is 9.356e+05 cm3/s.
       The velocity of the flow (v)is 97.065 ft/s.
       The width of the unit is 31.623 cm.
       The oxygen diffusion coefficient (ratio) adjustment factor
is 0.77928.
       reareation constant(ft/day) = 21.6 * v ^ 0.67 / h ^ 0.85 *
Ratio
       The liquid phase mass transfer coefficient from surface is
0.003284 m/s.
      The Schmidt number is 0.95884.
      The friction velocity is 13.347 m/s
      kg is estimated as 0.007252 m/s.  Model: 3
         fraction loss in waste1 drop to hub      0.
         fraction loss in waste2 drop to hub      0.
         fraction loss in waste3 drop to hub      0.
         fraction loss in collection hub drop     0.
         fraction loss in unit                    9.764e-05
         fraction loss in line run                0.
         component upstream of unit, g/s          0.098128
         mol fract. headspace upstream (y)        0.
         headspace at conduit discharge, y        0.
         headspace end of conduit (y)             7.059e-06
         mol fract. headspace vent base           0.
         headspace flow out vent (cc/s)           0.
         headspace flow down line (cc/s)          -0.0306
         KG surface (m/s)                         0.007252
         KL surface (m/s)                         0.003284
         flow of waste down hub (l/s)             0.
         component flow in waste into unit (g/s)  0.
         total component into unit, g/s           0.098128
         TOTAL AIR EMISSIONS  (g/s)               9.581e-06
                            (Mg/year)             3.021e-04
         EMISSION FACTOR  (g/cm2-s)               3.36e-09
         UNIT EXIT CONCENTRATION (ppmw)           0.10488
      DETAILED CALCULATIONS at Unit 5 def.Closed trench
      Type: Closed trench
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      COMPOUND: DIMETHYL SULFIDE  (DMS)

      Type of unit is Closed trench
      1 Description of unit                      5     def.Closed
trench
```

```
2 Underflow T (C)                                  44.4
3 Total water added at the unit (l/s)              0
4 Area of openings at unit (cm2)                   50
5 Radius of drop pipe (cm)                         5
6 Drop length to conduit (cm)                      61
7 Open surface=1                                   0
8 Subsurface entrance=1                            0
9 subsurface exit =1                               0
10 width of trench (m)                             1.2
11 distance to next unit (cm)                      42614
12 slope of underflow conduit                      0.015
13 depth  of trench (m)                            3
16 velocity air at opening (ft/min)                84
17 municipal waste in conduit =1                   0
18 Assume equilibrium in unit, =1                  0
19 pH  (enter 0 for no pH adjustment)              0

Trench model for mass transfer from a surface.
 The effective depth of water flow (h) is 1.00454 ft.
 The water flow rate is 9.356e+05 cm3/s.
 The velocity of the flow (v)is 8.35415 ft/s.
 The width of the unit is 120. cm.
 The oxygen diffusion coefficient (ratio) adjustment factor
is 0.77928.
 reareation constant(ft/day) = 21.6 * v ^ 0.67 / h ^ 0.85 *
Ratio
 The liquid phase mass transfer coefficient from surface is
2.453e-04 m/s.

Covered Ground Level Trench (U drain);   UNIT: 5
width 120. cm;  Rho 0.001091 g/cc;  Visc 1.8e-04 cp
Liquid Depth 30.618cm;  Slope 0.015;     Roughness  0.21336
cm
Length 45.869 ft;  Friction Factor0.      Manning coef 0.
Headspace temp.  44.4 C;  Humidity 100. %;       Water
temp. 44.4 C
Velocity  254.6344 cm/s;   Flow 0. gal/min
________drag_____________
average water velocity 254.634 cm/s.   Fraction full:
0.10206
average water surface velocity 288.957cm/sec
velocity of air from internal recirculation  144.479 cm/sec
Reynolds number for internal air flow 1.535e+05

Properties of DIMETHYL SULFIDE  (DMS) at 44.4 deg.C (111.9
deg.F)
   hl= 0.004189 atm-m3/mol      vp= 1009.298 mmHg (19.522
psia)
       232.701 y/x
       0.16084 g/L gas per g/L liquid
   Temperature adjustment factor = 1.046 ^(T-25), deg. C
   kl= 0. L/g-hr          dl= 1.555e-05 cm2/s  dv= 0.15644
```

```
cm2/s
      _____loss due to mass transfer in conduit
run_________________
        The length of the run of conduit line is 426.14 m
(1398.097 ft.)
        Flow of headspace gas in the conduit run_____10.523 L/s
           the pressure gradient for the headspace flow
is -0.1206 gf/cm2
           the headspace area of the sewer 3.233e+04 cm2
           the headspace average velocity is 0.32553 cm/s.
           the headspace recirculation velocity is 144.479 cm/s.
        Flow of water in the conduit run_______935.575 L/s
           the width of the surface is 120. cm.
           the depth of the liquid is 30.618 cm. (12.054 in.)
           the average depth of the liquid is 30.618 cm. (12.054
in.)
           fraction full of liquid is 0.10206
           the residence time of the liquid is 167.354 s.
       The oil corrected aqueous HL is 2.327e+02 (y/x)
        Wind Velocity 447. cm/sec ( 10.M.P.H.) (879.921 ft/min)
        Velocity of headspace in sewer 0.32553 cm/sec  (0.007282
M.P.H.) (0.6408ft/min)
      kg is estimated as 0.001081 m/s.  Model: 5
      Modified J factor model is used for mass transfer.
           the effective gas speed for the correlation is 144.479
cm/s.
           the effective width for the correlation is 4.261e+
04cm.
           the gas phase mass transfer coefficient is 4.5024e-06
gmol/cm2-s.
      (kg)                                              1.0806e-03
m/s.
        Trench model (Owens) for mass transfer in liquid phase.
           the average liquid velocity is 254.634 cm/s.
           the liquid depth in the underflow 30.618 cm.
           the liquid phase mass transfer coefficient is
1.254e-03 gmol/cm2-s.
      (kl)
2.2572e-04 m/s.
        Overall mass transfer coefficient.
              KL = 1 / (1 / kg / koc + 1 / kl) * 0.18
           the corrected partition coefficient is 232.701 y/x at
one atm.
      (KL) the overall liquid based mass transfer coefficient is
1.0275e-04 m/s.
      Countercurrent flow model model is used for mass transfer.
           the overall mass transfer coefficient is 1.027e-04
m/s.
           the average depth of the liquid is 30.618 cm.
           the ratio of the transfer coefficient to average depth
is 3.356e-04
           the residence time of the liquid is 167.354 s.
```

```
           the maximum fraction from open air mass transfer is
0.054611
           the molar liquid flow is 5.198e+04 gmol/s.
           the molar gas flow is 0.40406 gmol/s.
      (fe) the fraction lost from the liquid is 1.809e-03
           the g/s from the gas to the liquid is 0.e+00 g/s.
         fraction loss in waste1 drop to hub      0.
         fraction loss in waste2 drop to hub      0.
         fraction loss in waste3 drop to hub      0.
         fraction loss in collection hub drop     0.
         fraction loss in unit                    0.
         fraction loss in line run                0.001806
         component upstream of unit, g/s          0.098119
         mol fract. headspace upstream (y)        0.
         headspace at conduit discharge, y        7.059e-06
         headspace end of conduit (y)             0.
         mol fract. headspace vent base           7.059e-06
         headspace flow out vent (cc/s)           1.052e+04
         headspace flow down line (cc/s)          -1.052e+04
         KG surface (m/s)                         0.001081
         KL surface (m/s)                         2.257e-04
         flow of waste down hub (l/s)             0.
         component flow in waste into unit (g/s)  -0.00018
         total component into unit, g/s           0.098119
         TOTAL AIR EMISSIONS  (g/s)               1.772e-04
                            (Mg/year)             0.005587
         EMISSION FACTOR  (g/cm2-s)               3.36e-09
         UNIT EXIT CONCENTRATION (ppmw)           0.10469
      DETAILED CALCULATIONS at Unit 6 def.open trench
      Type: open trench
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      COMPOUND: DIMETHYL SULFIDE  (DMS)

      Type of unit is open trench
      1 Description of unit                      6     def.open
trench
      2 Underflow T (C)                                44.4
      3 Total water added at the unit (l/s)            0
      8 Subsurface entrance=1                          0
      9 subsurface exit =1                             0
      10 width of trench (m)                           3.65
      11 distance to next unit (cm)                    60000
      12 slope of underflow conduit                    0.015
      13 depth  of trench (m)                          3
      19 pH  (enter 0 for no pH adjustment)            8.94

      Trench model for mass transfer from a surface.
       The effective depth of water flow (h) is 0.43996 ft.
       The water flow rate is 9.356e+05 cm3/s.
       The velocity of the flow (v)is 6.27108 ft/s.
```

```
       The width of the unit is 365. cm.
       The oxygen diffusion coefficient (ratio) adjustment factor
is 0.77928.
       reareation constant(ft/day) = 21.6 * v ^ 0.67 / h ^ 0.85 *
Ratio
       The liquid phase mass transfer coefficient from surface is
4.083e-04 m/s.
      The Schmidt number is 0.95884.
      The friction velocity is 13.347 m/s
      kg is estimated as 0.007252 m/s.  Model: 3
      The slope of the U drain is 0.015
      The water velocity is 191.142 cm/s.  (6.27108 ft/s.)
      The depth of the water is 13.41 cm (5.47347 in.)
      Kl= 4.083e-04 m/s;  Kg=  7.251963E-03 m/s
      the ratio of the mass transfer to depth is
2.30203530673789E-03
      The residence time in the trench is  313.9021 sec.
      fraction emitted 0.51452
         fraction loss in waste1 drop to hub      0.
         fraction loss in waste2 drop to hub      0.
         fraction loss in waste3 drop to hub      0.
         fraction loss in collection hub drop     0.
         fraction loss in unit                    0.
         fraction loss in line run                0.51452
         component upstream of unit, g/s          0.097942
         mol fract. headspace upstream (y)        0.
         headspace at conduit discharge, y        0.
         headspace end of conduit (y)             0.
         mol fract. headspace vent base           0.
         headspace flow out vent (cc/s)           0.
         headspace flow down line (cc/s)          0.
         KG surface (m/s)                         0.007252
         KL surface (m/s)                         4.083e-04
         flow of waste down hub (l/s)             0.
         component flow in waste into unit (g/s)  0.
         total component into unit, g/s           0.097942
         TOTAL AIR EMISSIONS  (g/s)               0.050393
                          (Mg/year)               1.58919
         EMISSION FACTOR  (g/cm2-s)               2.301e-09
         UNIT EXIT CONCENTRATION (ppmw)           0.050823
      DETAILED CALCULATIONS at Unit 7 def.system exit st
      Type: system exit stream
        Project C:\Users\akelley\Desktop\Water9\October 5
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      COMPOUND: DIMETHYL SULFIDE  (DMS)

      Type of unit is system exit stream
      1 Description of unit                      7     def.system
exit st

         TOTAL AIR EMISSIONS  (g/s)               0.
```

```
                 (Mg/year)                0.
EMISSION FACTOR  (g/cm2-s)                2.301e-09
UNIT EXIT CONCENTRATION (ppmw)            0.050823
```

```
      Type of unit is
      1 Total water added at the unit (l/s)      50     0
      2 Area of openings at unit (cm2)                  50
      3 Radius of drop pipe (cm)                        5
      4 Drop length to conduit (cm)                     61
      5 Humidity of inlet air (%)                       40
      6 Temperature of air (C)                          25
      7 Drain air velocity (ft/min)                     84
      8 manhole air velocity (ft/min)                   128
      9 Conduit air velocity (ft/min)                   66
      10 Wind speed (cm/s at 10 m)                      447
      11 distance to next unit (cm)                     500
      12 slope of underflow conduit                     .015
      13 friction factor liquid                         .016
      14 friction factor gas                            .006
      15 radius of underflow conduit (cm)               12
      16 Underflow T (C)                                25
      17 oscillation cycle time (min)                   5
      18 design collection velocities  (ft/s)           2
      19 design branch line fraction full               .4

      Type of unit is
      8 HL partition flag=1, adjust for sorption        0
      9 unit recycle convergence number                 200
      10 oil molecular weight                           0
      11 oil density  (g/cc)                            0
      12 NaUT 1=municipal 2=industrial  3=turb.         0
      13 NaUT 1=mass tr. 2=equil                        0
      14 parts biomass per 1000 parts COD
      15 oil water partition method 0=owpc
      16 use UNIFAC aqueous data base =1
      17 specify mass transfer for unit, =1
      18 Use biomass for unit option, =1
      19 biogrowth Monod half concentration ppm

      DETAILED CALCULATIONS at Unit 1 def.Closed trench
      Type: Closed trench
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      COMPOUND: METHANETHIOL(methyl mercaptan)

      Type of unit is Closed trench
      1 Description of unit                      1     def.Closed
trench
      2 Underflow T (C)                                44.4
      3 Total water added at the unit (l/s)            0
      4 Area of openings at unit (cm2)                 50
      5 Radius of drop pipe (cm)                       5
      6 Drop length to conduit (cm)                    61
```

```
      7 Open surface=1                                  0
      8 Subsurface entrance=1                           1
      9 subsurface exit =1                              1
      10 width of trench (m)                            1.2
      11 distance to next unit (cm)                     500
      12 slope of underflow conduit                     0.015
      13 depth  of trench (m)                           1.2
      16 velocity air at opening (ft/min)               84
      17 municipal waste in conduit =1                  0
      18 Assume equilibrium in unit, =1                 0
      19 pH  (enter 0 for no pH adjustment)             9.08

      Trench model for mass transfer from a surface.
       The effective depth of water flow (h) is 1.00454 ft.
       The water flow rate is 9.356e+05 cm3/s.
       The velocity of the flow (v)is 8.35415 ft/s.
       The width of the unit is 120. cm.
       The oxygen diffusion coefficient (ratio) adjustment factor
is 0.78813.
       reareation constant(ft/day) = 21.6 * v ^ 0.67 / h ^ 0.85 *
Ratio
       The liquid phase mass transfer coefficient from surface is
2.481e-04 m/s.

      Covered Ground Level Trench (U drain);   UNIT: 1
      width 120. cm;  Rho 0.001091 g/cc;  Visc 1.8e-04 cp
      Liquid Depth 30.618cm;  Slope 0.015;     Roughness  0.21336
cm
      Length 0.5382 ft;  Friction Factor0.      Manning coef 0.
      Headspace temp.  44.4 C;  Humidity 100. %;       Water
temp. 44.4 C
      Velocity  254.6344 cm/s;   Flow 0. gal/min
      ________drag_____________
      average water velocity 254.634 cm/s.   Fraction full:
0.25515
      average water surface velocity 288.957cm/sec
      velocity of air from internal recirculation  144.479 cm/sec
      Reynolds number for internal air flow 9.705e+04

      Properties of METHANETHIOL(methyl mercaptan) at 44.4 deg.C
(111.9 deg.F)
         hl= 0.005553 atm-m3/mol      vp= 3034.572 mmHg (58.695
psia)
             308.5 y/x
             0.21323 g/L gas per g/L liquid
         Temperature adjustment factor = 1.046 ^(T-25), deg. C
         kl= 0. L/g-hr          dl= 1.576e-05 cm2/s  dv= 0.25113
cm2/s
      _____loss due to mass transfer in conduit
run_________________
        The length of the run of conduit line is 5. m (16.404
ft.)
```

```
        Flow of headspace gas in the conduit run_____0. L/s
           the pressure gradient for the headspace flow is 0.
gf/cm2
           the headspace area of the sewer 1.073e+04 cm2
           the headspace average velocity is 0. cm/s.
           the headspace recirculation velocity is 144.479 cm/s.
        Flow of water in the conduit run_______935.575 L/s
           the width of the surface is 120. cm.
           the depth of the liquid is 30.618 cm. (12.054 in.)
           the average depth of the liquid is 30.618 cm. (12.054
in.)
           fraction full of liquid is 0.25515
           the residence time of the liquid is 1.9636 s.
       The oil corrected aqueous HL is 3.085e+02 (y/x)
        Wind Velocity 447. cm/sec ( 10.M.P.H.) (879.921 ft/min)
        Velocity of headspace in sewer 0. cm/sec  (0. M.P.H.)
(0.ft/min)
         fraction loss in waste1 drop to hub      0.
         fraction loss in waste2 drop to hub      0.
         fraction loss in waste3 drop to hub      0.
         fraction loss in collection hub drop     0.
         fraction loss in unit                    0.
         fraction loss in line run                0.
         component upstream of unit, g/s          0.
         mol fract. headspace upstream (y)        0.
         headspace at conduit discharge, y        0.
         headspace end of conduit (y)             0.
         mol fract. headspace vent base           0.
         headspace flow out vent (cc/s)           0.
         headspace flow down line (cc/s)          0.
         KG surface (m/s)                         0.
         KL surface (m/s)                         2.481e-04
         flow of waste down hub (l/s)             0.
         component flow in waste into unit (g/s)  0.001019
         total component into unit, g/s           0.001019
         TOTAL AIR EMISSIONS  (g/s)               0.
                           (Mg/year)              0.
         EMISSION FACTOR  (g/cm2-s)               1.398e-10
         UNIT EXIT CONCENTRATION (ppmw)           0.001089
      DETAILED CALCULATIONS at Unit 2 def.primary munici
      Type: primary municipal clarifier
        Project C:\Users\akelley\Desktop\Water9\October 5
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      COMPOUND: METHANETHIOL(methyl mercaptan)

      Type of unit is primary municipal clarifier
      1 Description of unit                      2
def.primary munici
      2 Wastewater temperature   (C)                   44.4
      3 primary clarifier diameter (m)                 84
      4 primary clarifier depth  (m)                   5.41
```

```
      5 clarifier solids removal efficiency            0.7
      6 waterfall drop height (cm)                     38
      7 clarifier weir/circumference                   1
      8 Center well present, =1                        1
      10 number of identical units in parallel         1
      15 vent air emission control factor              0
      16 cover vent rate (m3/s per m2 surface)         0.0005
      17 If covered, then enter 1                      0
      19 pH  (enter 0 for no pH adjustment)            9.08

      Properties of METHANETHIOL(methyl mercaptan) at 44.4 deg.C
(111.9 deg.F)
         hl= 0.005553 atm-m3/mol      vp= 3034.572 mmHg (58.695
psia)
             308.5 y/x
             0.21323 g/L gas per g/L liquid
         Temperature adjustment factor = 1.046 ^(T-25), deg. C
         kl= 0. L/g-hr          dl= 1.576e-05 cm2/s  dv= 0.25113
cm2/s
      Clarifier surface_____________
      The residence time in the clarifier is 8.902 hrs.
      The Henry's law constant of 0.005553 atm-m3/mol is
multiplied by
       a adsorption factor of 1..
      The adsorption corrected aqueous HL is 3.085e+02 (y/x)
      The gas phase mass transfer is estimated using correlation
3, MacKay (1983).
      The Schmidt number is 0.5973.
      The friction velocity is 13.347 m/s
      kg is estimated as 0.00959 m/s.  Model: 3
      Gas phase mass transfer 3.996e-05 g mol/ cm2-s.
        The flow of water is 935.575 cm3/s.
        The effective flow depth in the clarifier is 54.1 cm.
      Clarifier model liquid phase mass transfer 1.11e-04 g mol/
cm2-s.
      Overall mass transfer 1.1e-04 g mol/cm2-s.
      Clarifier weir emissions_____________
      The Schmidt number is 0.5973.
      The friction velocity is 13.347 m/s
      kg is estimated as 0.00959 m/s.  Model: 3
      Weir mass transfer is estimated from the Pincince 11/7/89
primary model
       The water drop was 0.38 m.
       The water flow rate was 0.93558 m3/s. (12.763 m3/hr-m)
       R = Exp(0.* drop ^ 0.* (q * 3600 / cir) ^ 0.* 0. ^ 0.31
       R = 1.04967
      The diffusion constant correction is
(1.576e-05/.000024)^.677
      The unadjusted fraction O2 lost from the model is 0.047322.
      The overall O2 mass transfer coefficient from the model is
4.415e-04 m/s.
      The overall compound mass transfer coefficient from the
```

```
model is 3.331e-04 m/s.
         residence time (hours)                    8.90152
         KG surface (m/s)                          0.009769
         KL surface (m/s)                          1.998e-05
         KL OVERALL SURFACE (m/s)                  1.98e-05
         Fraction lost from clarifier surface      0.11066
         KG waterfall (m/s)                        0.009769
         KL waterfall (m/s)                        3.331e-04
         KL OVERALL WATERFALL (m/s)                2.896e-04
         Fraction lost from weir waterfall         0.027185
         fraction of equilibrium in the unit       0.
         Fraction absorbed in underflow            0.
         TOTAL FRACTION LOST TO THE AIR            0.13785
         TOTAL AIR EMISSIONS  (g/s)                1.404e-04
                            (Mg/year)              0.004429
         EMISSION FACTOR  (g/cm2-s)                2.534e-12
         UNIT EXIT CONCENTRATION (ppmw)            9.389e-04
      DETAILED CALCULATIONS at Unit 3 def.open trench
      Type: open trench
        Project C:\Users\akelley\Desktop\Water9\October 5
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      COMPOUND: METHANETHIOL(methyl mercaptan)

      Type of unit is open trench
      1 Description of unit                      3     def.open
trench
      2 Underflow T (C)                                44.4
      3 Total water added at the unit (l/s)            0
      8 Subsurface entrance=1                          0
      9 subsurface exit =1                             0
      10 width of trench (m)                           3.65
      11 distance to next unit (cm)                    6100
      12 slope of underflow conduit                    0.015
      13 depth  of trench (m)                          3
      19 pH  (enter 0 for no pH adjustment)            9.08

      Trench model for mass transfer from a surface.
       The effective depth of water flow (h) is 0.43996 ft.
       The water flow rate is 9.356e+05 cm3/s.
       The velocity of the flow (v)is 6.27108 ft/s.
       The width of the unit is 365. cm.
       The oxygen diffusion coefficient (ratio) adjustment factor
is 0.78813.
       reareation constant(ft/day) = 21.6 * v ^ 0.67 / h ^ 0.85 *
Ratio
       The liquid phase mass transfer coefficient from surface is
4.129e-04 m/s.
      The Schmidt number is 0.5973.
      The friction velocity is 13.347 m/s
      kg is estimated as 0.00959 m/s.  Model: 3
      The slope of the U drain is 0.015
```

```
      The water velocity is 191.142 cm/s.  (6.27108 ft/s.)
      The depth of the water is 13.41 cm (5.47347 in.)
      Kl= 4.129e-04 m/s;  Kg=  9.589518E-03 m/s
      the ratio of the mass transfer to depth is
2.59608167167113E-03
      The residence time in the trench is  31.91338 sec.
      fraction emitted 0.079511
         fraction loss in waste1 drop to hub      0.
         fraction loss in waste2 drop to hub      0.
         fraction loss in waste3 drop to hub      0.
         fraction loss in collection hub drop     0.
         fraction loss in unit                    0.
         fraction loss in line run                0.079511
         component upstream of unit, g/s          8.784e-04
         mol fract. headspace upstream (y)        0.
         headspace at conduit discharge, y        0.
         headspace end of conduit (y)             0.
         mol fract. headspace vent base           0.
         headspace flow out vent (cc/s)           0.
         headspace flow down line (cc/s)          0.
         KG surface (m/s)                         0.00959
         KL surface (m/s)                         4.129e-04
         flow of waste down hub (l/s)             0.
         component flow in waste into unit (g/s)  0.
         total component into unit, g/s           8.784e-04
         TOTAL AIR EMISSIONS  (g/s)               6.984e-05
                           (Mg/year)              0.002203
         EMISSION FACTOR  (g/cm2-s)               3.137e-11
         UNIT EXIT CONCENTRATION (ppmw)           8.642e-04
      DETAILED CALCULATIONS at Unit 4 def.open sump
      Type: open sump
        Project C:\Users\akelley\Desktop\Water9\October 5
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      COMPOUND: METHANETHIOL(methyl mercaptan)

      Type of unit is open sump
      1 Description of unit                      4     def.open
sump
      2 Underflow T (C)                                44.4
      3 Total water added at the unit (l/s)            0
      4 Area of openings at unit (cm2)                 50
      5 Radius of drop pipe (cm)                       5
      6 Drop length to conduit (cm)                    61
      7 Open surface=1                                 1
      8 Subsurface entrance=1                          0
      9 subsurface exit =1                             0
      10 radius of underflow conduit (cm)              12
      11 distance to next unit (cm)                    500
      12 slope of underflow conduit                    0.015
      13 Open surface of liquid at the unit (cm2)      1000
      14 flow entrance depth under surface (cm)        10
```

```
      15 depth of liquid in sump (cm)                    50
      16 velocity air at opening (ft/min)                88
      17 municipal waste in conduit =1                   0
      18 Assume equilibrium in unit, =1                  0
      19 pH  (enter 0 for no pH adjustment)              9.08

      Trench model for mass transfer from a surface.
       The effective depth of water flow (h) is 0.32808 ft.
       The water flow rate is 9.356e+05 cm3/s.
       The velocity of the flow (v)is 97.065 ft/s.
       The width of the unit is 31.623 cm.
       The oxygen diffusion coefficient (ratio) adjustment factor
is 0.78813.
       reareation constant(ft/day) = 21.6 * v ^ 0.67 / h ^ 0.85 *
Ratio
       The liquid phase mass transfer coefficient from surface is
0.003321 m/s.
      The Schmidt number is 0.5973.
      The friction velocity is 13.347 m/s
      kg is estimated as 0.00959 m/s.  Model: 3
         fraction loss in waste1 drop to hub      0.
         fraction loss in waste2 drop to hub      0.
         fraction loss in waste3 drop to hub      0.
         fraction loss in collection hub drop     0.
         fraction loss in unit                    1.422e-04
         fraction loss in line run                0.
         component upstream of unit, g/s          8.086e-04
         mol fract. headspace upstream (y)        0.
         headspace at conduit discharge, y        0.
         headspace end of conduit (y)             9.952e-08
         mol fract. headspace vent base           0.
         headspace flow out vent (cc/s)           0.
         headspace flow down line (cc/s)          -0.0306
         KG surface (m/s)                         0.00959
         KL surface (m/s)                         0.003321
         flow of waste down hub (l/s)             0.
         component flow in waste into unit (g/s)  0.
         total component into unit, g/s           8.086e-04
         TOTAL AIR EMISSIONS  (g/s)               1.149e-07
                            (Mg/year)             3.625e-06
         EMISSION FACTOR  (g/cm2-s)               3.137e-11
         UNIT EXIT CONCENTRATION (ppmw)           8.641e-04
      DETAILED CALCULATIONS at Unit 5 def.Closed trench
      Type: Closed trench
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      COMPOUND: METHANETHIOL(methyl mercaptan)

      Type of unit is Closed trench
      1 Description of unit                      5     def.Closed
trench
```

```
2 Underflow T (C)                                  44.4
3 Total water added at the unit (l/s)              0
4 Area of openings at unit (cm2)                   50
5 Radius of drop pipe (cm)                         5
6 Drop length to conduit (cm)                      61
7 Open surface=1                                   0
8 Subsurface entrance=1                            0
9 subsurface exit =1                               0
10 width of trench (m)                             1.2
11 distance to next unit (cm)                      42614
12 slope of underflow conduit                      0.015
13 depth  of trench (m)                            3
16 velocity air at opening (ft/min)                84
17 municipal waste in conduit =1                   0
18 Assume equilibrium in unit, =1                  0
19 pH  (enter 0 for no pH adjustment)              0

Trench model for mass transfer from a surface.
 The effective depth of water flow (h) is 1.00454 ft.
 The water flow rate is 9.356e+05 cm3/s.
 The velocity of the flow (v)is 8.35415 ft/s.
 The width of the unit is 120. cm.
 The oxygen diffusion coefficient (ratio) adjustment factor
is 0.78813.
 reareation constant(ft/day) = 21.6 * v ^ 0.67 / h ^ 0.85 *
Ratio
 The liquid phase mass transfer coefficient from surface is
2.481e-04 m/s.

Covered Ground Level Trench (U drain);   UNIT: 5
width 120. cm;  Rho 0.001091 g/cc;  Visc 1.8e-04 cp
Liquid Depth 30.618cm;  Slope 0.015;     Roughness  0.21336
cm
Length 45.869 ft;  Friction Factor0.      Manning coef 0.
Headspace temp.  44.4 C;  Humidity 100. %;       Water
temp. 44.4 C
Velocity  254.6344 cm/s;   Flow 0. gal/min
________drag_____________
average water velocity 254.634 cm/s.   Fraction full:
0.10206
average water surface velocity 288.957cm/sec
velocity of air from internal recirculation  144.479 cm/sec
Reynolds number for internal air flow 1.535e+05

Properties of METHANETHIOL(methyl mercaptan) at 44.4 deg.C
(111.9 deg.F)
   hl= 0.005553 atm-m3/mol      vp= 3034.572 mmHg (58.695
psia)
       308.5 y/x
       0.21323 g/L gas per g/L liquid
   Temperature adjustment factor = 1.046 ^(T-25), deg. C
   kl= 0. L/g-hr          dl= 1.576e-05 cm2/s  dv= 0.25113
```

cm2/s
_____loss due to mass transfer in conduit
run_____
The length of the run of conduit line is 426.14 m
(1398.097 ft.)
Flow of headspace gas in the conduit run_____10.523 L/s
the pressure gradient for the headspace flow
is -0.1206 gf/cm2
the headspace area of the sewer 3.233e+04 cm2
the headspace average velocity is 0.32553 cm/s.
the headspace recirculation velocity is 144.479 cm/s.
Flow of water in the conduit run_____935.575 L/s
the width of the surface is 120. cm.
the depth of the liquid is 30.618 cm. (12.054 in.)
the average depth of the liquid is 30.618 cm. (12.054
in.)
fraction full of liquid is 0.10206
the residence time of the liquid is 167.354 s.
The oil corrected aqueous HL is 3.085e+02 (y/x)
Wind Velocity 447. cm/sec (10.M.P.H.) (879.921 ft/min)
Velocity of headspace in sewer 0.32553 cm/sec (0.007282
M.P.H.) (0.6408ft/min)
kg is estimated as 0.001482 m/s. Model: 5
Modified J factor model is used for mass transfer.
the effective gas speed for the correlation is 144.479
cm/s.
the effective width for the correlation is 4.261e+
04cm.
the gas phase mass transfer coefficient is 6.1738e-06
gmol/cm2-s.
(kg) 1.4817e-03
m/s.
Trench model (Owens) for mass transfer in liquid phase.
the average liquid velocity is 254.634 cm/s.
the liquid depth in the underflow 30.618 cm.
the liquid phase mass transfer coefficient is
1.266e-03 gmol/cm2-s.
(kl)
2.2788e-04 m/s.
Overall mass transfer coefficient.
KL = 1 / (1 / kg / koc + 1 / kl) * 0.18
the corrected partition coefficient is 308.5 y/x at
one atm.
(KL) the overall liquid based mass transfer coefficient is
1.3689e-04 m/s.
Countercurrent flow model model is used for mass transfer.
the overall mass transfer coefficient is 1.369e-04
m/s.
the average depth of the liquid is 30.618 cm.
the ratio of the transfer coefficient to average depth
is 4.471e-04
the residence time of the liquid is 167.354 s.

```
          the maximum fraction from open air mass transfer is
0.07209
          the molar liquid flow is 5.198e+04 gmol/s.
          the molar gas flow is 0.40406 gmol/s.
      (fe) the fraction lost from the liquid is 2.3982e-03
          the g/s from the gas to the liquid is 0.e+00 g/s.
         fraction loss in waste1 drop to hub      0.
         fraction loss in waste2 drop to hub      0.
         fraction loss in waste3 drop to hub      0.
         fraction loss in collection hub drop     0.
         fraction loss in unit                    0.
         fraction loss in line run                0.002393
         component upstream of unit, g/s          8.084e-04
         mol fract. headspace upstream (y)        0.
         headspace at conduit discharge, y        9.952e-08
         headspace end of conduit (y)             0.
         mol fract. headspace vent base           9.952e-08
         headspace flow out vent (cc/s)           1.052e+04
         headspace flow down line (cc/s)          -1.052e+04
         KG surface (m/s)                         0.001482
         KL surface (m/s)                         2.279e-04
         flow of waste down hub (l/s)             0.
         component flow in waste into unit (g/s)  -1.934e-06
         total component into unit, g/s           8.084e-04
         TOTAL AIR EMISSIONS  (g/s)               1.934e-06
                            (Mg/year)             6.099e-05
         EMISSION FACTOR  (g/cm2-s)               3.137e-11
         UNIT EXIT CONCENTRATION (ppmw)           8.62e-04
      DETAILED CALCULATIONS at Unit 6 def.open trench
      Type: open trench
        Project C:\Users\akelley\Desktop\Water9\October 5
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      COMPOUND: METHANETHIOL(methyl mercaptan)

      Type of unit is open trench
      1 Description of unit                      6     def.open
trench
      2 Underflow T (C)                                44.4
      3 Total water added at the unit (l/s)            0
      8 Subsurface entrance=1                          0
      9 subsurface exit =1                             0
      10 width of trench (m)                           3.65
      11 distance to next unit (cm)                    60000
      12 slope of underflow conduit                    0.015
      13 depth  of trench (m)                          3
      19 pH  (enter 0 for no pH adjustment)            8.94

      Trench model for mass transfer from a surface.
       The effective depth of water flow (h) is 0.43996 ft.
       The water flow rate is 9.356e+05 cm3/s.
       The velocity of the flow (v)is 6.27108 ft/s.
```

```
       The width of the unit is 365. cm.
       The oxygen diffusion coefficient (ratio) adjustment factor
is 0.78813.
       reareation constant(ft/day) = 21.6 * v ^ 0.67 / h ^ 0.85 *
Ratio
       The liquid phase mass transfer coefficient from surface is
4.129e-04 m/s.
      The Schmidt number is 0.5973.
      The friction velocity is 13.347 m/s
      kg is estimated as 0.00959 m/s.  Model: 3
      The slope of the U drain is 0.015
      The water velocity is 191.142 cm/s.  (6.27108 ft/s.)
      The depth of the water is 13.41 cm (5.47347 in.)
      Kl= 4.129e-04 m/s;  Kg=  9.589518E-03 m/s
      the ratio of the mass transfer to depth is
2.59608167167113E-03
      The residence time in the trench is  313.9021 sec.
      fraction emitted 0.55732
         fraction loss in waste1 drop to hub      0.
         fraction loss in waste2 drop to hub      0.
         fraction loss in waste3 drop to hub      0.
         fraction loss in collection hub drop     0.
         fraction loss in unit                    0.
         fraction loss in line run                0.55732
         component upstream of unit, g/s          8.065e-04
         mol fract. headspace upstream (y)        0.
         headspace at conduit discharge, y        0.
         headspace end of conduit (y)             0.
         mol fract. headspace vent base           0.
         headspace flow out vent (cc/s)           0.
         headspace flow down line (cc/s)          0.
         KG surface (m/s)                         0.00959
         KL surface (m/s)                         4.129e-04
         flow of waste down hub (l/s)             0.
         component flow in waste into unit (g/s)  0.
         total component into unit, g/s           8.065e-04
         TOTAL AIR EMISSIONS  (g/s)               4.495e-04
                          (Mg/year)               0.014175
         EMISSION FACTOR  (g/cm2-s)               2.052e-11
         UNIT EXIT CONCENTRATION (ppmw)           3.816e-04
      DETAILED CALCULATIONS at Unit 7 def.system exit st
      Type: system exit stream
        Project C:\Users\akelley\Desktop\Water9\October 5
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      COMPOUND: METHANETHIOL(methyl mercaptan)

      Type of unit is system exit stream
      1 Description of unit                      7     def.system
exit st

         TOTAL AIR EMISSIONS  (g/s)               0.
```

```
                 (Mg/year)                0.
EMISSION FACTOR  (g/cm2-s)                2.052e-11
UNIT EXIT CONCENTRATION (ppmw)            3.816e-04
```

Table A-36
Water9 H_2S Inputs - Ditch #0 and Ditch #1
New-Indy Catawba - Catawba, SC

Sources	Variable	Value	Unit	Source
Open Trench No. 3 (Ditch #0)	Underflow Temperature	44.4	C	Average ASB Influent Temperature during IPT (7/9-11/2021)
	width of trench	3.65	m	Estimated based on Google Earth and drone footage (when available)
	Distance to next unit	6100	cm	Estimated based on Google Earth and drone footage (when available)
	Slope of underflow conduit	0.015		Water9 Default
	depth of trench	3	m	Water9 Default
	pH	9.08		Site Specific Average from Primary Clarifier Pi Tag between 7/9-11/2021

Table A-36
Water9 H_2S Inputs - Ditch #0 and Ditch #1
New-Indy Catawba - Catawba, SC

Sources	Variable	Value	Unit	Source
Open Sump No. 4	Underflow Temperature	44.4	C	Average ASB Influent Temperature during IPT (7/9-11/2021)
	Area of openings at unit	50	cm^2	Water9 Default
	Radius of drop pipe	5	cm	Water9 Default
	Drop length to conduit	61	cm	Water9 Default
	Radius of underflow conduit	12	cm	Water9 Default
	Distance to next unit	500	cm	Water9 Default
	slope of underflow conduit	0.015		Water9 Default
	open surface of liquid at the unit	1000	cm^2	Water9 Default
	flow entrance depth under surface	10	cm	Water9 Default
	depth of liquid in sump	50	cm	Water9 Default
	velocity air at opening	88	ft/min	Water9 Default
	pH	9.08		Site Specific Average from Primary Clarifier Pi Tag between 7/9-11/2021

Table A-36
Water9 H_2S Inputs - Ditch #0 and Ditch #1
New-Indy Catawba - Catawba, SC

Sources	Variable	Value	Unit	Source
Closed Trench No. 5	Underflow Temperature	44.4	C	Average ASB Influent Temperature during IPT (7/9-11/2021)
	Total water added at the unit		l/s	
	Area of openings at unit	50	cm^2	Water9 Default
	Radius of drop pipe	5	cm	Water9 Default
	Drop length to conduit	61	cm	Water9 Default
	width of trench	1.2	m	Estimated based on Google Earth and drone footage (when available)
	Distance to next unit	42614	cm	Estimated based on Google Earth and drone footage (when available)
	slope of underflow conduit	0.015		Water9 Default
	depth of trench	3	m	Water9 Default
	velocity air at opening	84	ft/min	
	pH			

Table A-36
Water9 H_2S Inputs - Ditch #0 and Ditch #1
New-Indy Catawba - Catawba, SC

Sources	Variable	Value	Unit	Source
Open Trench No. 6 (Ditch #1)	Underflow Temperature	44.4	C	Average ASB Influent Temperature during IPT (7/9-11/2021)
	width of trench	3.65	m	Assumption based on aerial view
	Distance to next unit	60000	cm	Assumption based on aerial view
	Slope of underflow conduit	0.015		Water9 Default
	depth of trench	3	m	Water9 Default
	pH	8.94		Average ASB Influent pH during IPT (7/9-11/2021)

Free Sulfide Fraction Calculation Tool

pH	9.08
K1	1.036E-07
K2	6.43E-16
Free Fraction	0.796%

Convert Total Sulfide to H2S(dissolved)

Hydrogen Concentration	8.31764E-10
Hydrogen Concenration	8.31764E-13

Convert Total Sulfide Measurement to H2S(dissolved)

5.5	96.8%
5.75	94.5%
6	90.6%
6.25	84.4%
6.5	75.3%
6.75	63.2%
7	49.1%
7.25	35.2%
7.5	23.4%
7.75	14.7%
8	8.8%
8.25	5.1%
8.5	3.0%
8.75	1.7%
9	1.0%

Ditch #0 H2S Emissions Calculation

0.0004428	m/s	KL
3.65	m	Width of Ditch #0
61	m	Length of Ditch #0
0.02	mg/L	Concentration of Hydrogen Sulfide Entering Ditch #0
0.0080		Free Sulfide pH Adjustment
1,000	L/m^3	Conversion Factor
1,000	mg/g	Conversion Factor

$$\frac{0.0004428}{m/s} \times \frac{3.65}{m} \times \frac{61}{m} \times \frac{0.02}{mg/L} \times 0.0080 \times \frac{1000}{L/m^3} \times \frac{1}{1000}\frac{g}{mg}$$

H2S emissions rate

0.0000157 g/s

Free Sulfide Fraction Calculation Tool

pH	8.94
K1	1.036E-07
K2	6.43E-16

Convert Total Sulfide to H2S(dissolved)

Hydrogen Concentration	1.14815E-09
Hydrogen Concenration	1.14815E-12

Free Fraction	1.096%

Convert Total Sulfide Measurement to H2S(dissolved)

5.5	96.8%
5.75	94.5%
6	90.6%
6.25	84.4%
6.5	75.3%
6.75	63.2%
7	49.1%
7.25	35.2%
7.5	23.4%
7.75	14.7%
8	8.8%
8.25	5.1%
8.5	3.0%
8.75	1.7%
9	1.0%

Ditch #1 H2S Emissions Calculation

0.0004428	m/s	KL
3.65	m	Width of Ditch #1
600	m	Length of Ditch #1
0.02	mg/L	Concentration of Hydrogen Sulfide Entering Ditch #1
0.011		Free Sulfide pH Adjustment
1,000	L/m^3	Conversion Factor
1,000	mg/g	Conversion Factor

$$\frac{0.0004428}{m/s} \times \frac{3.65}{m} \times \frac{600}{m} \times \frac{0.02}{mg/L} \times 0.011 \times \frac{1000}{L/m^3} \times \frac{1}{1000}\frac{g}{mg}$$

H2S emissions rate

0.00021 g/s

3.2 Sulfide Dissociation

Inorganic, free sulfide can exist in three forms, the concentrations of which depend upon the wastewater pH. H2SSIM calculates the effect of pH on the predominant sulfide form present in the wastewater. This calculation is significant because only H_2S is a volatile form of sulfide.

At the near neutral pH conditions encountered in most wastewaters undergoing biological treatment, hydrogen sulfide dissociates to yield a hydrogen ion and hydrogen sulfide ion (Equation 3.4).

$$H_2S \leftrightarrow H^+ + HS^- \qquad \text{Equation 3.4}$$

At very high pH levels, the hydrogen sulfide ion can dissociate again to a hydrogen ion and sulfur ion (Equation 3.5).

$$HS^- \leftrightarrow H^+ + S^{2-} \qquad \text{Equation 3.5}$$

When the reaction is considered to be at equilibrium, the reaction and concentration products can be defined by Equations 3.6 and 3.7.

$$K_1 = \frac{[H^+][HS^-]}{H_2S} \qquad \text{Equation 3.6}$$

$$K_2 = \frac{[H^+][S^{2-}]}{HS^-} \qquad \text{Equation 3.7}$$

If the reactions represented in Equations 3.4 and 3.5 are considered to occur much faster than the other processes in the overall mass balance equation, a local equilibrium holds (Chapra 1997) and the sulfide dissociation reaction can be solved outside of the sulfide mass balance equation.

If a local equilibrium exists for sulfide dissociation, the fraction of total sulfide that exists as each species at the specified pH can be calculated (Equations 3.8 through 3.10).

$$F_{HS} = \frac{K_1[H^+]}{1+K_1[H^+]+K_1K_2[H^+]^2} \qquad \text{Equation 3.8}$$

$$F_{H_2S} = \frac{K_1K_2[H^+]^2}{1+K_1[H^+]+K_1K_2[H^+]^2} \qquad \text{Equation 3.9}$$

$$F_S = \frac{1}{1+K_1[H^+]+K_1K_2[H^+]^2} \qquad \text{Equation 3.10}$$

Where: F_{HS} = Fraction of total sulfide as HS^-

F_{H2S} = Fraction of total sulfide as H_2S

F_S = Fraction of total sulfide as S^{2-}

The fraction of each sulfide species calculated by these equations with pKa1 = 7.04 and pKa = 11.96 is shown in Figure 3.2.

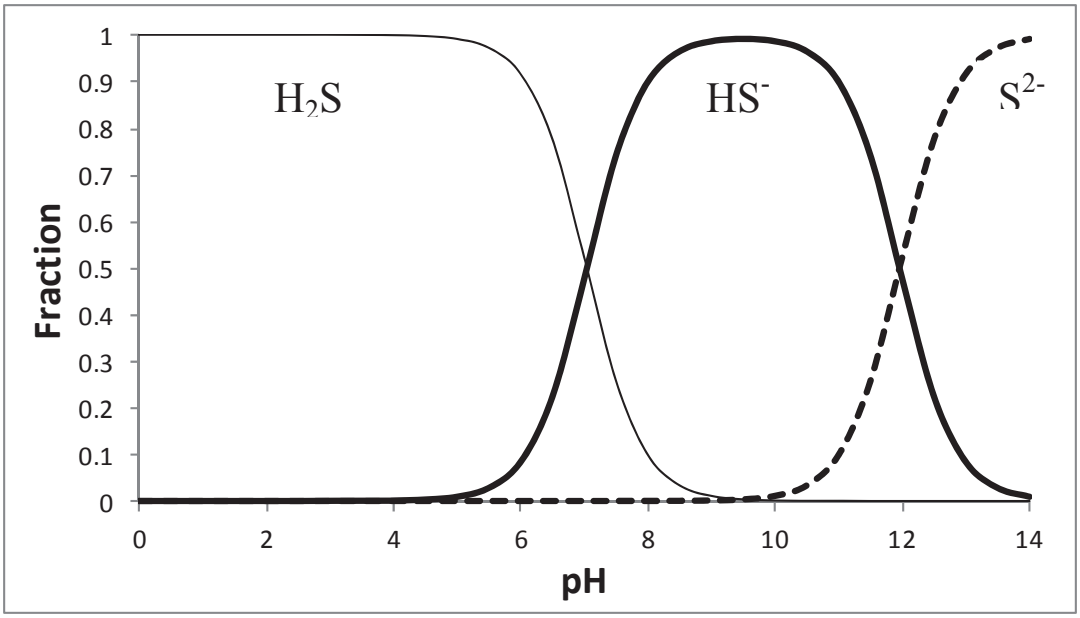

Figure 3.2 Fraction of Sulfide Species as a Function of Wastewater pH

The fractions of each sulfide species are calculated internally by H2SSIM and used to define the concentration of each dissociated form as a function of pH and total sulfide concentration. A critical use of these fractions is calculating the amount of sulfide available to volatilize to the atmosphere as H_2S (i.e., the volatilization term in Equation 3.2).

3.3 Generation of Sulfide in Wastewater

Sulfide can be generated in wastewater when conditions are favorable. These conditions include sufficient concentration of the reactants and an anoxic (i.e., dissolved oxygen is near zero) environment. A quantitative expression relating the sulfide generation rate to temperature, sulfate concentration, and oxygen concentration in pulp and paper wastewaters has been developed based on laboratory batch reactor experiments. The technical details of that study and subsequent equation development are reported in Appendix A.

The expression for sulfide generation in pulp and paper wastewaters is presented in Equation 3.11.

$$R_1 = k_{gen}\left(\frac{SO_4}{K_{SO_4} + SO_4}\right)\left(\frac{K_{DO}}{K_{DO} + DO}\right) \qquad \text{Equation 3.11}$$

Where: R_1 = Sulfide generation rate (M/L^3T)
SO_4 = Sulfate concentration (M/L^3)
DO = Dissolved oxygen concentration (M/L^3)
k_{gen} = Generation rate coefficient at 20 °C (M/L^3T)
K_{SO4} = Sulfate half saturation coefficient (M/L^3)
K_{DO} = Oxygen half saturation coefficient (M/L^3)

Equation 3.11 states that the rate of sulfide generation is proportional to an empirical rate coefficient and may be limited by low sulfate concentrations or the presence of oxygen.

The rate of sulfide generation is also affected by temperature. The optimal temperature for sulfate reducing bacteria has been reported as 25 to 35°C. The temperature correction should account for bacterial inhibition at temperatures greater than 35°C as in Equations 3.12 and 3.13.

When the wastewater temperature is 35°C or less, the model uses

$$k_{\mathrm{Temp}} = k_{20}\theta^{Temp-20} \qquad \text{Equation 3.12}$$

Where θ = Temperature coefficient
k_{Temp} = Rate coefficient at actual temperature
k_{20} = rate coefficient at 20°
Temp = Temperature °C

When the wastewater temperature is greater than 35°C, the model uses

$$k_{Temp} = k_{20}\theta^{15} * \theta_2^{Temp-35} \qquad \text{Equation 3.13}$$

Where: θ_2 = Second temperature coefficient

The overall effect of Equations 3.12 and 3.13 is an increasing rate coefficient up to 35 °C. As temperatures increase further, the rate coefficient decreases. Details concerning Equation 3.13 can be found in NCASI (1985b).

3.4 Sulfide Oxidation

Sulfide is oxidized rapidly to sulfate and several intermediate sulfur species when exposed to aerobic conditions. A commonly used sulfide oxidation rate equation was found to adequately describe sulfide oxidation data from pulp and paper mill wastewaters (Palumbo, Brown, and Stratton 2010). This equation is presented here as Equation 3.14.

$$R_2 = k_{ox} S_{-II}{}^{m} (DO)^{n} \qquad \text{Equation 3.14}$$

Where: R_2 = Rate of sulfide oxidation (M/L^3T)
k_{ox} = Aerobic sulfide oxidation coefficient (T^{-1})
S_{-II} = Sulfide concentration (M/L)
DO = Dissolved oxygen concentration (M/L)
m = order of reaction with respect to sulfide (-)
n = order of reaction with respect to oxygen (-)

The sulfide oxidation rate changes as a function of pH. This change is represented in the model through a varying oxidation rate coefficient. The relationship between the rate coefficient and pH is shown in Equation 3.15. The derivation of Equation 3.15 is described in Appendix B.

$$k_{ox} = 7.16 * (1 - \exp(-0.84 * (pH - 6.15)) \qquad \text{Equation 3.15}$$

In Equation 3.15, it is assumed that the oxidation rate coefficient is zero below a pH value of 6.15.

When oxygen is absent, sulfide is more slowly oxidized in wastewaters. The rate of sulfide oxidation under anoxic conditions can be modeled using a modification of Equation 3.14. The development of this equation is presented in Appendix B.

$$R_2 = k_{anox} S_{-II}^{m} \qquad \text{Equation 3.16}$$

Where k_{anox} = Anoxic sulfide oxidation rate coefficient (T^{-1})

```
      Type of unit is
      1 Total water added at the unit (l/s)      50     0
      2 Area of openings at unit (cm2)                  50
      3 Radius of drop pipe (cm)                        5
      4 Drop length to conduit (cm)                     61
      5 Humidity of inlet air (%)                       40
      6 Temperature of air (C)                          25
      7 Drain air velocity (ft/min)                     84
      8 manhole air velocity (ft/min)                   128
      9 Conduit air velocity (ft/min)                   66
      10 Wind speed (cm/s at 10 m)                      447
      11 distance to next unit (cm)                     500
      12 slope of underflow conduit                     .015
      13 friction factor liquid                         .016
      14 friction factor gas                            .006
      15 radius of underflow conduit (cm)               12
      16 Underflow T (C)                                25
      17 oscillation cycle time (min)                   5
      18 design collection velocities  (ft/s)           2
      19 design branch line fraction full               .4

      Type of unit is
      8 HL partition flag=1, adjust for sorption        0
      9 unit recycle convergence number                 200
      10 oil molecular weight                           0
      11 oil density  (g/cc)                            0
      12 NaUT 1=municipal 2=industrial  3=turb.         0
      13 NaUT 1=mass tr. 2=equil                        0
      14 parts biomass per 1000 parts COD
      15 oil water partition method 0=owpc
      16 use UNIFAC aqueous data base =1
      17 specify mass transfer for unit, =1
      18 Use biomass for unit option, =1
      19 biogrowth Monod half concentration ppm

      DETAILED CALCULATIONS at Unit 3 def.open trench
      Type: open trench
        Project C:\Users\akelley\Desktop\Water9\Water9 H2S -
Ditch #0 and #1\IPT H2S  18:43:54
      COMPOUND: HYDROGEN SULFIDE

      Type of unit is open trench
      1 Description of unit                       3     def.open
trench
      2 Underflow T (C)                                 44.4
      3 Total water added at the unit (l/s)             0
      8 Subsurface entrance=1                           0
      9 subsurface exit =1                              0
      10 width of trench (m)                            3.65
      11 distance to next unit (cm)                     6100
```

```
      12 slope of underflow conduit                    0.015
      13 depth  of trench (m)                          3
      19 pH  (enter 0 for no pH adjustment)            9.08

      Trench model for mass transfer from a surface.
       The effective depth of water flow (h) is 0.43996 ft.
       The water flow rate is 9.356e+05 cm3/s.
       The velocity of the flow (v)is 6.27108 ft/s.
       The width of the unit is 365. cm.
       The oxygen diffusion coefficient (ratio) adjustment factor
is 0.84517.
       reareation constant(ft/day) = 21.6 * v ^ 0.67 / h ^ 0.85 *
Ratio
       The liquid phase mass transfer coefficient from surface is
4.428e-04 m/s.
      The Schmidt number is 0.76326.
      The friction velocity is 13.347 m/s
      kg is estimated as 0.008286 m/s.  Model: 3
      The slope of the U drain is 0.015
      The water velocity is 191.142 cm/s.  (6.27108 ft/s.)
      The depth of the water is 13.41 cm (5.47347 in.)
      Kl= 4.428e-04 m/s;  Kg=  8.286482E-03 m/s
      the ratio of the mass transfer to depth is
3.13079534281987E-04
      The residence time in the trench is  31.91338 sec.
      fraction emitted 0.009942
         fraction loss in waste1 drop to hub      0.
         fraction loss in waste2 drop to hub      0.
         fraction loss in waste3 drop to hub      0.
         fraction loss in collection hub drop     0.
         fraction loss in unit                    0.
         fraction loss in line run                0.009942
         component upstream of unit, g/s          0.
         mol fract. headspace upstream (y)        0.
         headspace at conduit discharge, y        0.
         headspace end of conduit (y)             0.
         mol fract. headspace vent base           0.
         headspace flow out vent (cc/s)           0.
         headspace flow down line (cc/s)          0.
         KG surface (m/s)                         0.008286
         KL surface (m/s)                         4.428e-04
         flow of waste down hub (l/s)             0.
         component flow in waste into unit (g/s)  0.018746
         total component into unit, g/s           0.018746
         TOTAL AIR EMISSIONS  (g/s)               1.864e-04
                          (Mg/year)               0.005877
         EMISSION FACTOR  (g/cm2-s)               8.37e-11
         UNIT EXIT CONCENTRATION (ppmw)           0.019838
      DETAILED CALCULATIONS at Unit 4 def.open sump
      Type: open sump
        Project C:\Users\akelley\Desktop\Water9\Water9 H2S -
Ditch #0 and #1\IPT H2S  18:43:54
```

```
COMPOUND: HYDROGEN SULFIDE

Type of unit is open sump
1 Description of unit                        4     def.open
sump
2 Underflow T (C)                                  44.4
3 Total water added at the unit (l/s)              0
4 Area of openings at unit (cm2)                   50
5 Radius of drop pipe (cm)                         5
6 Drop length to conduit (cm)                      61
7 Open surface=1                                   1
8 Subsurface entrance=1                            0
9 subsurface exit =1                               0
10 radius of underflow conduit (cm)                12
11 distance to next unit (cm)                      500
12 slope of underflow conduit                      0.015
13 Open surface of liquid at the unit (cm2)        1000
14 flow entrance depth under surface (cm)          10
15 depth of liquid in sump (cm)                    50
16 velocity air at opening (ft/min)                88
17 municipal waste in conduit =1                   0
18 Assume equilibrium in unit, =1                  0
19 pH  (enter 0 for no pH adjustment)              9.08

Trench model for mass transfer from a surface.
 The effective depth of water flow (h) is 0.32808 ft.
 The water flow rate is 9.356e+05 cm3/s.
 The velocity of the flow (v)is 97.065 ft/s.
 The width of the unit is 31.623 cm.
 The oxygen diffusion coefficient (ratio) adjustment factor
is 0.84517.
 reareation constant(ft/day) = 21.6 * v ^ 0.67 / h ^ 0.85 *
Ratio
 The liquid phase mass transfer coefficient from surface is
0.003562 m/s.
The Schmidt number is 0.76326.
The friction velocity is 13.347 m/s
kg is estimated as 0.008286 m/s.  Model: 3
   fraction loss in waste1 drop to hub      0.
   fraction loss in waste2 drop to hub      0.
   fraction loss in waste3 drop to hub      0.
   fraction loss in collection hub drop     0.
   fraction loss in unit                    4.894e-06
   fraction loss in line run                0.
   component upstream of unit, g/s          0.01856
   mol fract. headspace upstream (y)        0.
   headspace at conduit discharge, y        0.
   headspace end of conduit (y)             8.573e-06
   mol fract. headspace vent base           0.
   headspace flow out vent (cc/s)           0.
   headspace flow down line (cc/s)          -0.0306
   KG surface (m/s)                         0.008286
```

```
         KL surface (m/s)                          0.003562
         flow of waste down hub (l/s)              0.
         component flow in waste into unit (g/s)   0.
         total component into unit, g/s            0.01856
         TOTAL AIR EMISSIONS  (g/s)                9.083e-08
                           (Mg/year)               2.864e-06
         EMISSION FACTOR  (g/cm2-s)                8.37e-11
         UNIT EXIT CONCENTRATION (ppmw)            0.019838
      DETAILED CALCULATIONS at Unit 5 def.Closed trench
      Type: Closed trench
        Project C:\Users\akelley\Desktop\Water9\Water9 H2S -
Ditch #0 and #1\IPT H2S  18:43:54
      COMPOUND: HYDROGEN SULFIDE

      Type of unit is Closed trench
      1 Description of unit                       5     def.Closed
trench
      2 Underflow T (C)                                 44.4
      3 Total water added at the unit (l/s)             0
      4 Area of openings at unit (cm2)                  50
      5 Radius of drop pipe (cm)                        5
      6 Drop length to conduit (cm)                     61
      7 Open surface=1                                  0
      8 Subsurface entrance=1                           0
      9 subsurface exit =1                              0
      10 width of trench (m)                            1.2
      11 distance to next unit (cm)                     42614
      12 slope of underflow conduit                     0.015
      13 depth  of trench (m)                           3
      16 velocity air at opening (ft/min)               84
      17 municipal waste in conduit =1                  0
      18 Assume equilibrium in unit, =1                 0
      19 pH  (enter 0 for no pH adjustment)             0

      Trench model for mass transfer from a surface.
       The effective depth of water flow (h) is 1.00454 ft.
       The water flow rate is 9.356e+05 cm3/s.
       The velocity of the flow (v)is 8.35415 ft/s.
       The width of the unit is 120. cm.
       The oxygen diffusion coefficient (ratio) adjustment factor
is 0.84517.
       reareation constant(ft/day) = 21.6 * v ^ 0.67 / h ^ 0.85 *
Ratio
       The liquid phase mass transfer coefficient from surface is
2.66e-04 m/s.

      Covered Ground Level Trench (U drain);   UNIT: 5
      width 120. cm;  Rho 0.001091 g/cc;  Visc 1.8e-04 cp
      Liquid Depth 30.618cm;  Slope 0.015;     Roughness  0.21336
cm
      Length 45.869 ft;  Friction Factor0.      Manning coef 0.
      Headspace temp.  44.4 C;  Humidity 100. %;       Water
```

```
temp. 44.4 C
      Velocity  254.6344 cm/s;   Flow 0. gal/min
      ________drag_____________
      average water velocity 254.634 cm/s.   Fraction full:
0.10206
      average water surface velocity 288.957cm/sec
      velocity of air from internal recirculation  144.479 cm/sec
      Reynolds number for internal air flow 1.535e+05

      Properties of HYDROGEN SULFIDE at 44.4 deg.C (111.9 deg.F)
         hl= 0.014831 atm-m3/mol      vp= 2.329e+04 mmHg (450.395
psia)
             823.96 y/x
             0.5695 g/L gas per g/L liquid
         Temperature adjustment factor = 1.046 ^(T-25), deg. C
         kl= 0. L/g-hr          dl= 1.715e-05 cm2/s  dv= 0.19653
cm2/s
      _____loss due to mass transfer in conduit
run_________________
        The length of the run of conduit line is 426.14 m
(1398.097 ft.)
        Flow of headspace gas in the conduit run_____10.523 L/s
           the pressure gradient for the headspace flow
is -0.1206 gf/cm2
           the headspace area of the sewer 3.233e+04 cm2
           the headspace average velocity is 0.32553 cm/s.
           the headspace recirculation velocity is 144.479 cm/s.
        Flow of water in the conduit run______935.575 L/s
           the width of the surface is 120. cm.
           the depth of the liquid is 30.618 cm. (12.054 in.)
           the average depth of the liquid is 30.618 cm. (12.054
in.)
           fraction full of liquid is 0.10206
           the residence time of the liquid is 167.354 s.
       The oil corrected aqueous HL is 8.24e+02 (y/x)
        Wind Velocity 447. cm/sec ( 10.M.P.H.) (879.921 ft/min)
        Velocity of headspace in sewer 0.32553 cm/sec  (0.007282
M.P.H.) (0.6408ft/min)
      kg is estimated as 0.001258 m/s.  Model: 5
      Modified J factor model is used for mass transfer.
           the effective gas speed for the correlation is 144.479
cm/s.
           the effective width for the correlation is 4.261e+
04cm.
           the gas phase mass transfer coefficient is 5.2424e-06
gmol/cm2-s.
      (kg)                                              1.2582e-03
m/s.
        Trench model (Owens) for mass transfer in liquid phase.
           the average liquid velocity is 254.634 cm/s.
           the liquid depth in the underflow 30.618 cm.
           the liquid phase mass transfer coefficient is
```

```
1.3428e-03 gmol/cm2-s.
      (kl)
2.4171e-04 m/s.
        Overall mass transfer coefficient.
              KL = 1 / (1 / kg / koc + 1 / kl) * 0.18
           the corrected partition coefficient is 823.96 y/x at
one atm.
      (KL) the overall liquid based mass transfer coefficient is
1.8439e-04 m/s.
      Countercurrent flow model model is used for mass transfer.
           the overall mass transfer coefficient is 1.844e-04
m/s.
           the average depth of the liquid is 30.618 cm.
           the ratio of the transfer coefficient to average depth
is 6.022e-04
           the residence time of the liquid is 167.354 s.
           the maximum fraction from open air mass transfer is
0.095872
           the molar liquid flow is 5.198e+04 gmol/s.
           the molar gas flow is 0.40406 gmol/s.
      (fe) the fraction lost from the liquid is 6.4048e-03
           the g/s from the gas to the liquid is 0.e+00 g/s.
         fraction loss in waste1 drop to hub      0.
         fraction loss in waste2 drop to hub      0.
         fraction loss in waste3 drop to hub      0.
         fraction loss in collection hub drop     0.
         fraction loss in unit                    0.
         fraction loss in line run                0.006365
         component upstream of unit, g/s          0.01856
         mol fract. headspace upstream (y)        0.
         headspace at conduit discharge, y        8.573e-06
         headspace end of conduit (y)             0.
         mol fract. headspace vent base           8.573e-06
         headspace flow out vent (cc/s)           1.052e+04
         headspace flow down line (cc/s)          -1.052e+04
         KG surface (m/s)                         0.001258
         KL surface (m/s)                         2.417e-04
         flow of waste down hub (l/s)             0.
         component flow in waste into unit (g/s)  -0.00012
         total component into unit, g/s           0.01856
         TOTAL AIR EMISSIONS  (g/s)               1.181e-04
                            (Mg/year)             0.003725
         EMISSION FACTOR  (g/cm2-s)               8.37e-11
         UNIT EXIT CONCENTRATION (ppmw)           0.019711
      DETAILED CALCULATIONS at Unit 6 def.open trench
      Type: open trench
        Project C:\Users\akelley\Desktop\Water9\Water9 H2S -
Ditch #0 and #1\IPT H2S  18:43:54
      COMPOUND: HYDROGEN SULFIDE

      Type of unit is open trench
      1 Description of unit                      6     def.open
```

```
trench
      2 Underflow T (C)                                44.4
      3 Total water added at the unit (l/s)            0
      8 Subsurface entrance=1                          0
      9 subsurface exit =1                             0
      10 width of trench (m)                           3.65
      11 distance to next unit (cm)                    60000
      12 slope of underflow conduit                    0.015
      13 depth  of trench (m)                          3
      19 pH  (enter 0 for no pH adjustment)            8.94

      Trench model for mass transfer from a surface.
       The effective depth of water flow (h) is 0.43996 ft.
       The water flow rate is 9.356e+05 cm3/s.
       The velocity of the flow (v)is 6.27108 ft/s.
       The width of the unit is 365. cm.
       The oxygen diffusion coefficient (ratio) adjustment factor
is 0.84517.
       reareation constant(ft/day) = 21.6 * v ^ 0.67 / h ^ 0.85 *
Ratio
       The liquid phase mass transfer coefficient from surface is
4.428e-04 m/s.
      The Schmidt number is 0.76326.
      The friction velocity is 13.347 m/s
      kg is estimated as 0.008286 m/s.  Model: 3
      The slope of the U drain is 0.015
      The water velocity is 191.142 cm/s.  (6.27108 ft/s.)
      The depth of the water is 13.41 cm (5.47347 in.)
      Kl= 4.428e-04 m/s;  Kg=  8.286482E-03 m/s
      the ratio of the mass transfer to depth is
4.15874782502909E-04
      The residence time in the trench is  313.9021 sec.
      fraction emitted 0.12238
         fraction loss in waste1 drop to hub      0.
         fraction loss in waste2 drop to hub      0.
         fraction loss in waste3 drop to hub      0.
         fraction loss in collection hub drop     0.
         fraction loss in unit                    0.
         fraction loss in line run                0.12238
         component upstream of unit, g/s          0.018442
         mol fract. headspace upstream (y)        0.
         headspace at conduit discharge, y        0.
         headspace end of conduit (y)             0.
         mol fract. headspace vent base           0.
         headspace flow out vent (cc/s)           0.
         headspace flow down line (cc/s)          0.
         KG surface (m/s)                         0.008286
         KL surface (m/s)                         4.428e-04
         flow of waste down hub (l/s)             0.
         component flow in waste into unit (g/s)  0.
         total component into unit, g/s           0.018442
         TOTAL AIR EMISSIONS  (g/s)               0.002257
```

```
                         (Mg/year)                0.071174
         EMISSION FACTOR  (g/cm2-s)                1.031e-10
         UNIT EXIT CONCENTRATION (ppmw)            0.017299
      DETAILED CALCULATIONS at Unit 7 def.system exit st
      Type: system exit stream
        Project C:\Users\akelley\Desktop\Water9\Water9 H2S -
Ditch #0 and #1\IPT H2S  18:43:54
      COMPOUND: HYDROGEN SULFIDE

      Type of unit is system exit stream
      1 Description of unit                       7     def.system
exit st

         TOTAL AIR EMISSIONS  (g/s)                0.
                         (Mg/year)                 0.
         EMISSION FACTOR  (g/cm2-s)                1.031e-10
         UNIT EXIT CONCENTRATION (ppmw)            0.017299
```

Table A-37
Water9 Inputs - ASB
New-Indy Catawba - Catawba, SC

Sources	Variable	Value	Unit	Source
ASB Zone 1	Wastewater Temperature	35.2	C	Average Temperature during IPT (7/9-11/2021)
	Length of aeration unit	225	m	Estimated based on Google Earth and drone footage (when available)
	Width of aeration unit	225	m	Estimated based on Google Earth and drone footage (when available)
	depth of aeration unit	1.4	m	Estimated based on site-specific data
	area of agitation (per aerator)	135	m^2	Aerator Design
	total number of agitators in the unit	16		Figure 2-1
	power of agitation, each aerator	75	HP	Aerator Design
	impeller diameter	49.53	cm	Aerator Design
	impeller rotation	1200	RPM	Aerator Design
	agitator mechanical efficiency	0.83		Water9 Default
	aerator effectiveness, alpha	0.83		Water9 Default
	overall biorate	19	mg/g bio-hr	Water9 Default
	aeration air flow		m^3/s	Water9 Default
	active biomass, aeration	0.3	g/l	Water9 Default
	pH	8.28		Average pH during IPT (7/9-11/2021)

Table A-37
Water9 Inputs - ASB
New-Indy Catawba - Catawba, SC

Sources	Variable	Value	Unit	Source
ASB Zone 2	Wastewater Temperature	32.4	C	Average Temperature during IPT (7/9-11/2021)
	Length of aeration unit	365	m	Estimated based on Google Earth and drone footage (when available)
	Width of aeration unit	182.3	m	Estimated based on Google Earth and drone footage (when available)
	depth of aeration unit	0.97	m	Estimated based on site-specific data
	area of agitation (per aerator)	135	m^2	Aerator Design
	total number of agitators in the unit	15		Figure 2-1
	power of agitation	75	HP	Aerator Design
	impeller diameter	49.53	cm	Aerator Design
	impeller rotation	1200	RPM	Aerator Design
	agitator mechanical efficiency	0.83		Water9 Default
	aerator effectiveness, alpha	0.83		Water9 Default
	overall biorate	19	mg/g bio-hr	Water9 Default
	aeration air flow		m^3/s	Water9 Default
	active biomass, aeration	0.3	g/l	Water9 Default
	pH	8.33		Average pH during IPT (7/9-11/2021)

Table A-37
Water9 Inputs - ASB
New-Indy Catawba - Catawba, SC

Sources	Variable	Value	Unit	Source
ASB Zone 3	Wastewater Temperature	31.211	C	Average Temperature during IPT (7/9-11/2021)
	Length of aeration unit	380.4	m	Estimated based on Google Earth and drone footage (when available)
	Width of aeration unit	190.2	m	Estimated based on Google Earth and drone footage (when available)
	depth of aeration unit	0.91	m	Estimated based on site-specific data
	area of agitation (per aerator)	135	m^2	Aerator Design
	total number of agitators in the unit	6		Figure 2-1
	power of agitation	75	HP	Aerator Design
	impeller diameter	49.53	cm	Aerator Design
	impeller rotation	1200	RPM	Aerator Design
	agitator mechanical efficiency	0.83		Water9 Default
	aerator effectiveness, alpha	0.83		Water9 Default
	overall biorate	19	mg/g bio-hr	Water9 Default
	aeration air flow		m^3/s	Water9 Default
	active biomass, aeration	0.3	g/l	Water9 Default
	pH	8.37		Average pH during IPT (7/9-11/2021)

NCASI WASTEWATER HYDROGEN SULFIDE EMISSIONS SIMULATOR (H2SSIM)

Version 1.3

7/9/2021

Data Type 1. Site Identification

Company Name	New-Indy
Facility Name	Catawba SC
Basin Name	ASB

Data Type 2. Model Zone Information

Number of Zones	3
Zone Location of Hardpipe	1
Type of Basin	ASB

Data Type 3. Load Characteristics

Loading Characteristics	Main Influent	Hardpipe	Units
Flow	21.66	0.33	MGD
Total Sulfide	0.0254	114.2	mg/L
Sulfate	390	390	mg/L

Data Type 4. Atmospheric Conditions

Windspeed	3.79	mph
Ambient Temperature	79	F

Data Type 5. Zone Physical and Chemical Conditions

Zone Condition	Zone 1	Zone 2	Zone 3	Zone 4	Units
Dissolved Oxygen	0.69	0.29	2		mg/L
Temperature	95.8	89.2	87.2		F
pH	8.75	8.57	8.74		s.u.
Redox Condition	Aerobic	Aerobic	Aerobic	Aerobic	
Length	739	1196	1248		feet
Width	739	598	624		feet
Depth	4.5	3.2	3		feet
Mixing	Moderat	Moderat	Moderat		
Number of Aerators	16	15	6		
Total Horsepower	1200	1125	450		HP
Impellor Size	1.625	1.625	1.625		feet
Impellor RPM	1200	1200	1200		RPM
Diffused Air Flow	0	0	0		cms
Weir Height	0	0	0		feet

Model Controls

Run H2SSIM

View Parameters

Clear Input Sheet

H2SSIM Results 7/9/2021

Basin Emissions		Units
Total Emissions (H_2S)	0.071	gms/s
Total Emissions (H_2S)	4954.0	lbs/yr
Total Emissions (H_2S)	2.5	tons/yr
Total Emissions (H_2S)	2.2	tonnes/yr
Emission Flux (H_2S)	11.9	gms/m^2 yr

Zone Emissions	Zone 1	Zone 2	Zone 3	Zone 4	Units
Zone Emissions (H_2S)	0.02	0.03	0.02		gms/s
Zone Emissions (H_2S)	1640.4	1735.9	1577.6		lbs/yr
Emission Flux (H_2S)	14.7	11.9	9.9		gms/m^2 yr
Liquid Conc. (Total Sulfide)	0.010	0.008	0.001		mg/L
Liquid Sulfide Load (lbs/yr)	105.700	87.000	9.900		lbs/yr

Percent Inlet Sulfide Removed	95.7%

Current Parameters	
kgen	0.25
ThetaGen	1.06
KDO	0.05
KSO4	10
kanox	0.006
ThetaOx	1.05
m	1
n	0.2
MLVSS	196.11
O_2 Transfer Coeff.	2
alpha 1	0.83
alpha 2	0.6

NCASI WASTEWATER HYDROGEN SULFIDE EMISSIONS SIMULATOR (H2SSIM)

Version 1.3

7/10/2021

Data Type 1. Site Identification

Company Name	New-Indy
Facility Name	Catawba SC
Basin Name	ASB

Data Type 2. Model Zone Information

Number of Zones	3
Zone Location of Hardpipe	1
Type of Basin	ASB

Data Type 3. Load Characteristics

Loading Characteristics	Main Influent	Hardpipe	Units
Flow	21.58	0.35	MGD
Total Sulfide	0.0125	96.94	mg/L
Sulfate	390	390	mg/L

Data Type 4. Atmospheric Conditions

Windspeed	3.79	mph
Ambient Temperature	79	F

Data Type 5. Zone Physical and Chemical Conditions

Zone Condition	Zone 1	Zone 2	Zone 3	Zone 4	Units
Dissolved Oxygen	0.06	0.05	1.5		mg/L
Temperature	97.16	89.6	87.8		F
pH	8.08	8.39	8.38		s.u.
Redox Condition	Aerobic	Aerobic	Aerobic	Aerobic	
Length	739	1196	1248		feet
Width	739	598	624		feet
Depth	4.5	3.2	3		feet
Mixing	Moderat	Moderat	Moderat		
Number of Aerators	16	15	6		
Total Horsepower	1200	1125	450		HP
Impellor Size	1.625	1.625	1.625		feet
Impellor RPM	1200	1200	1200		RPM
Diffused Air Flow	0	0	0		cms
Weir Height	0	0	0		feet

Model Controls

Run H2SSIM

View Parameters

Clear Input Sheet

H2SSIM Results 7/10/2021

Basin Emissions		Units
Total Emissions (H_2S)	0.144	gms/s
Total Emissions (H_2S)	9998.9	lbs/yr
Total Emissions (H_2S)	5.0	tons/yr
Total Emissions (H_2S)	4.5	tonnes/yr
Emission Flux (H_2S)	23.9	gms/m^2 yr

Zone Emissions	Zone 1	Zone 2	Zone 3	Zone 4	Units
Zone Emissions (H_2S)	0.08	0.04	0.02		gms/s
Zone Emissions (H_2S)	5359.9	3014.2	1624.9		lbs/yr
Emission Flux (H_2S)	47.9	20.6	10.2		gms/m^2 yr
Liquid Conc. (Total Sulfide)	0.047	0.041	0.002		mg/L
Liquid Sulfide Load (lbs/yr)	493.300	429.100	16.400		lbs/yr

Percent Inlet Sulfide Removed	90.4%

Current Parameters	
kgen	0.25
ThetaGen	1.06
KDO	0.05
KSO4	10
kanox	0.006
ThetaOx	1.05
m	1
n	0.2
MLVSS	232.67
O_2 Transfer Coeff.	2
alpha 1	0.83
alpha 2	0.6

NCASI WASTEWATER HYDROGEN SULFIDE EMISSIONS SIMULATOR (H2SSIM)

Version 1.3

7/11/2021

Data Type 1. Site Identification

Company Name	New-Indy
Facility Name	Catawba SC
Basin Name	ASB

Data Type 2. Model Zone Information

Number of Zones	3
Zone Location of Hardpipe	1
Type of Basin	ASB

Data Type 3. Load Characteristics

Loading Characteristics	Main Influent	Hardpipe	Units
Flow	20.82	0.33	MGD
Total Sulfide	0.014	46.86	mg/L
Sulfate	390	390	mg/L

Data Type 4. Atmospheric Conditions

Windspeed	3.79	mph
Ambient Temperature	79	F

Data Type 5. Zone Physical and Chemical Conditions

Zone Condition	Zone 1	Zone 2	Zone 3	Zone 4	Units
Dissolved Oxygen	0.11	0.11	1		mg/L
Temperature	93.32	92	89.54		F
pH	8.02	8.01	7.99		s.u.
Redox Condition	Aerobic	Aerobic	Aerobic	Aerobic	
Length	739	1196	1248		feet
Width	739	598	624		feet
Depth	4.5	3.2	3		feet
Mixing	Moderat	Moderat	Moderat		
Number of Aerators	16	15	6		
Total Horsepower	1200	1125	450		HP
Impellor Size	1.625	1.625	1.625		feet
Impellor RPM	1200	1200	1200		RPM
Diffused Air Flow	0	0	0		cms
Weir Height	0	0	0		feet

Model Controls

Run H2SSIM

View Parameters

Clear Input Sheet

H2SSIM Results 7/11/2021

Basin Emissions		Units
Total Emissions (H_2S)	0.133	gms/s
Total Emissions (H_2S)	9276.1	lbs/yr
Total Emissions (H_2S)	4.6	tons/yr
Total Emissions (H_2S)	4.2	tonnes/yr
Emission Flux (H_2S)	22.2	gms/m^2 yr

Zone Emissions	Zone 1	Zone 2	Zone 3	Zone 4	Units
Zone Emissions (H_2S)	0.05	0.05	0.03		gms/s
Zone Emissions (H_2S)	3851.1	3647.0	1778.0		lbs/yr
Emission Flux (H_2S)	34.4	24.9	11.1		gms/m^2 yr
Liquid Conc. (Total Sulfide)	0.028	0.024	0.002		mg/L
Liquid Sulfide Load (lbs/yr)	287.900	239.000	24.800		lbs/yr

Percent Inlet Sulfide Removed	80.6%

Current Parameters	
kgen	0.25
ThetaGen	1.06
KDO	0.05
KSO4	10
kanox	0.006
ThetaOx	1.05
m	1
n	0.2
MLVSS	272.2
O_2 Transfer Coeff.	2
alpha 1	0.83
alpha 2	0.6

```
Type of unit is
1 Total water added at the unit (l/s)      50     0
2 Area of openings at unit (cm2)                  50
3 Radius of drop pipe (cm)                        5
4 Drop length to conduit (cm)                     61
5 Humidity of inlet air (%)                       40
6 Temperature of air (C)                          25
7 Drain air velocity (ft/min)                     84
8 manhole air velocity (ft/min)                   128
9 Conduit air velocity (ft/min)                   66
10 Wind speed (cm/s at 10 m)                      447
11 distance to next unit (cm)                     500
12 slope of underflow conduit                     .015
13 friction factor liquid                         .016
14 friction factor gas                            .006
15 radius of underflow conduit (cm)               12
16 Underflow T (C)                                25
17 oscillation cycle time (min)                   5
18 design collection velocities  (ft/s)           2
19 design branch line fraction full               .4

Type of unit is
8 HL partition flag=1, adjust for sorption        0
9 unit recycle convergence number                 200
10 oil molecular weight                           0
11 oil density  (g/cc)                            0
12 NaUT 1=municipal 2=industrial  3=turb.         0
13 NaUT 1=mass tr. 2=equil                        0
14 parts biomass per 1000 parts COD
15 oil water partition method 0=owpc
16 use UNIFAC aqueous data base =1
17 specify mass transfer for unit, =1
18 Use biomass for unit option, =1
19 biogrowth Monod half concentration ppm

DETAILED CALCULATIONS at Unit 11 ASB Zone 1
Type: aerated biotreatment
  Project C:\Users\akelley\Desktop\Water9\October 5
Comments Run\ASB\ASB Oct 5 Response v2 10/4/2021 7:59:10 PM
22:20:43
COMPOUND: DIMETHYL DISULFIDE

Type of unit is aerated biotreatment
1 Description of unit                      11    ASB Zone 1
2 Wastewater temperature   (C)                   35.2
3 length of aeration unit (m)                   225
4 width of aeration unit (m)                    225
5 depth of aeration unit (m)                    1.4
6 Area of agitation (each aerator,m2)           135
7 Total number of agitators in the unit         16
```

```
      8 Power of agitation (each aerator,HP)          75
      9 Impeller diameter (cm)                        49.53
      10 Impeller rotation (RPM)                      1200
      11 Agitator mechanical efficiency               0.83
      12 aerator effectiveness, alpha                 0.83
      13 if there is plug flow, enter 1               0
      14 Overall biorate (mg/g bio-hr)                19
      15 Aeration air flow (m3/s)                     0
      16 active biomass, aeration (g/l)               0.3
      17 If covered, then enter 1                     0
      18 special input                                0
      19 pH  (enter 0 for no pH adjustment)           8.28

      Properties of DIMETHYL DISULFIDE at 35.2 deg.C (95.4 deg.F)
         hl= 0.001806 atm-m3/mol      vp= 48.422 mmHg (0.93658
psia)
             100.332 y/x
             0.071416 g/L gas per g/L liquid
         Temperature adjustment factor = 1.046 ^(T-25), deg. C
         kl= 0. L/g-hr          dl= 1.045e-05 cm2/s  dv= 0.088584
cm2/s
      Compound flow rate from inlet water is 0.11846 g/s.
      Compound flow rate from inlet vent is 0. g/s.
      Compound flow rate from inlet duct is 0. g/s.
      Submerged aeration rate from inlet vent is 0. m3/s.
      Total submerged aeration is 0. m3/s.
      The residence time in the unit is 20.713 hr.
      ____Biomass production_______________
          The biomass production rate is 0.mg/hr. (0. mg/L)
          The fraction dissolved solids converted is 0. .
          The estimated biomass exit concentration is 0. mg/L.
      ________Quiescent wind shear surface___Springer_
      The fetch to depth ratio is 181.347.
      kl is estimated as 5.985e-06 m/s.
      kg is estimated as 0.005792 m/s.  Model: 2
      kg is estimated as 0.005792 m/s.  Model: 2
      The Schmidt number is 1.69331.
      The friction velocity is 37.398 m/s
      kg is estimated as 0.012978 m/s.  Model: 3
      ________Agitated surface___________________
      The rotation speed is 125.654 radians per second.
      The rotation factor NRW is 2.052e+06.
      The power number NPR is 7.881e-04.
      The rotation factor NFR is 797.027.
      kg (agitated)is estimated as 0.11601 m/s.
      kl (agitated)is estimated as 0.017989 m/s.
          The specified and growth biomass is 0.3 g/L.
       The effective KL (surface + diffused air) is 2.564e-04
m/s.
       The effective stripping time (surface + diffused air) is
90.994 minutes. (1.51657 hrs.)
       The pump mixing time is 5 x the pumping recirculaion time,
```

```
0. min.
       The ratio of the mixing to the striping (surface +
diffused air) is 0.
       The mean residence time is 1242.781 min. (20.713 hr.)
       The ratio of the pump mixing to the residence time is 0.
         KG aerated (m/s)                          0.11819
         KL aerated (m/s)                          0.017989
         KL OVERALL AERATED (m/s)                  0.005878
         KG quiescent (m/s)                        0.005901
         KL quiescent (m/s)                        5.985e-06
         KL OVERALL QUIESCENT (m/s)                5.904e-06
         KL OVERALL (m/s)                          2.564e-04
         air stripping time constant (min)         90.994
         FRACTION SURFACE VOLATILIZED              0.33406
         FRACTION SUBMERGED VOLATILIZED            0.
         TOTAL FRACTION VOLATILIZED                0.33406
         FRACTION BIOLOGICALLY REMOVED             0.64148
         FRACTION ABSORBED                         0.
         TOTAL AIR EMISSIONS  (g/s)                0.039572
                            (Mg/year)              1.24795
         EMISSION FACTOR  (g/cm2-s)                7.817e-11
         UNIT EXIT CONCENTRATION (ppmw)            0.003048
      DETAILED CALCULATIONS at Unit 12 def.system exit st
      Type: system exit stream
        Project C:\Users\akelley\Desktop\Water9\October 5
Comments Run\ASB\ASB Oct 5 Response v2 10/4/2021 7:59:10 PM
22:20:43
      COMPOUND: DIMETHYL DISULFIDE

      Type of unit is system exit stream
      1 Description of unit                       12    def.system
exit st

         TOTAL AIR EMISSIONS  (g/s)                0.
                            (Mg/year)              0.
         EMISSION FACTOR  (g/cm2-s)                7.817e-11
         UNIT EXIT CONCENTRATION (ppmw)            3.484e-06
      DETAILED CALCULATIONS at Unit 13 default open hub d
      Type: open hub drain
        Project C:\Users\akelley\Desktop\Water9\October 5
Comments Run\ASB\ASB Oct 5 Response v2 10/4/2021 7:59:10 PM
22:20:43
      COMPOUND: DIMETHYL DISULFIDE

      Type of unit is open hub drain
      1 Description of unit                       13    default
open hub d
      2 Underflow T (C)                                 44.4
      3 Total water added at the unit (l/s)             0
      4 Area of openings at unit (cm2)                  50
      5 Radius of drop pipe (cm)                        5
      6 Drop length to conduit (cm)                     61
```

```
      7 Open surface=1                                  1
      8 Subsurface entrance=1                           0
      9 subsurface exit =1                              0
      10 radius of underflow conduit (cm)               12
      11 distance to next unit (cm)                     500
      12 slope of underflow conduit                     0.015
      16 velocity air at drain opening (ft/min)         84
      17 municipal waste in conduit =1                  0
      18 Assume equilibrium in unit, =1                 0
      19 pH  (enter 0 for no pH adjustment)             8.9

       Equilibrium partitioning in drain drop hub is assumed.
         Total drain flow is  950.489 l/s.
         Weight fraction down is  1.37709E-07
         Gas concentration in  0 mol fraction.
         Gas flow  950.489 L/s
         Weight fraction out at base of drop is
1.24628900916417E-07
         fraction transferred in the drain drop from hub
is .094984
         fraction loss in waste1 drop to hub      0.
         fraction loss in waste2 drop to hub      0.
         fraction loss in waste3 drop to hub      0.
         fraction loss in collection hub drop     0.094984
         fraction loss in unit                    0.
         fraction loss in line run                6.29e-08
         component upstream of unit, g/s          0.
         mol fract. headspace upstream (y)        0.
         headspace at conduit discharge, y        0.
         headspace end of conduit (y)             1.653e-19
         mol fract. headspace vent base           3.616e-06
         headspace flow out vent (cc/s)           -9.505e+05
         headspace flow down line (cc/s)          9.505e+05
         KG surface (m/s)                         1701.612
         KL surface (m/s)                         5.911e-09
         flow of waste down hub (l/s)             0.
         component flow in waste into unit (g/s)  0.13089
         total component into unit, g/s           0.11846
         TOTAL AIR EMISSIONS  (g/s)               0.012433
                          (Mg/year)               0.39207
         EMISSION FACTOR  (g/cm2-s)               7.817e-11
         UNIT EXIT CONCENTRATION (ppmw)           0.12463
      DETAILED CALCULATIONS at Unit 17 ASB Zone 3
      Type: aerated biotreatment
        Project C:\Users\akelley\Desktop\Water9\October 5
Comments Run\ASB\ASB Oct 5 Response v2 10/4/2021 7:59:10 PM
22:20:43
      COMPOUND: DIMETHYL DISULFIDE

      Type of unit is aerated biotreatment
      1 Description of unit                      17    ASB Zone 3
      2 Wastewater temperature   (C)                   31.211
```

```
3 length of aeration unit (m)                    380.4
4 width of aeration unit (m)                     190.2
5 depth of aeration unit (m)                     0.91
6 Area of agitation (each aerator,m2)            135
7 Total number of agitators in the unit          6
8 Power of agitation (each aerator,HP)           75
9 Impeller diameter (cm)                         49.53
10 Impeller rotation (RPM)                       1200
11 Agitator mechanical efficiency                0.83
12 aerator effectiveness, alpha                  0.83
13 if there is plug flow, enter 1                0
14 Overall biorate (mg/g bio-hr)                 19
15 Aeration air flow (m3/s)                      0
16 active biomass, aeration (g/l)                0.3
17 If covered, then enter 1                      0
18 special input                                 0
19 pH  (enter 0 for no pH adjustment)            8.37

Properties of DIMETHYL DISULFIDE at 31.2 deg.C (88.2 deg.F)
   hl= 0.001495 atm-m3/mol      vp= 40.078 mmHg (0.77518
psia)
       83.042 y/x
       0.059884 g/L gas per g/L liquid
   Temperature adjustment factor = 1.046 ^(T-25), deg. C
   kl= 0. L/g-hr          dl= 1.031e-05 cm2/s  dv= 0.086588
cm2/s
Compound flow rate from inlet water is 8.625e-05 g/s.
Compound flow rate from inlet vent is 0. g/s.
Compound flow rate from inlet duct is 0. g/s.
Submerged aeration rate from inlet vent is 0. m3/s.
Total submerged aeration is 0. m3/s.
The residence time in the unit is 19.242 hr.
____Biomass production_______________
    The biomass production rate is 0.mg/hr. (0. mg/L)
    The fraction dissolved solids converted is 0. .
    The estimated biomass exit concentration is 0. mg/L.
_______Quiescent wind shear surface___Springer_
The fetch to depth ratio is 333.533.
kl is estimated as 5.934e-06 m/s.
kg is estimated as 0.005594 m/s.  Model: 2
kg is estimated as 0.005594 m/s.  Model: 2
The Schmidt number is 1.73233.
The friction velocity is 37.398 m/s
kg is estimated as 0.012797 m/s.  Model: 3
_______Agitated surface_________________
The rotation speed is 125.654 radians per second.
The rotation factor NRW is 2.052e+06.
The power number NPR is 7.881e-04.
The rotation factor NFR is 797.027.
kg (agitated)is estimated as 0.1147 m/s.
kl (agitated)is estimated as 0.016259 m/s.
    The specified and growth biomass is 0.3 g/L.
```

The effective KL (surface + diffused air) is 6.133e-05 m/s.
The effective stripping time (surface + diffused air) is 247.292 minutes. (4.12153 hrs.)
The pump mixing time is 5 x the pumping recirculaion time, 0. min.
The ratio of the mixing to the striping (surface + diffused air) is 0.
The mean residence time is 1154.5 min. (19.242 hr.)
The ratio of the pump mixing to the residence time is 0.

KG aerated (m/s)	0.11685
KL aerated (m/s)	0.016259
KL OVERALL AERATED (m/s)	0.004963
KG quiescent (m/s)	0.005698
KL quiescent (m/s)	5.934e-06
KL OVERALL QUIESCENT (m/s)	5.834e-06
KL OVERALL (m/s)	6.133e-05
air stripping time constant (min)	247.292
FRACTION SURFACE VOLATILIZED	0.17927
FRACTION SUBMERGED VOLATILIZED	0.
TOTAL FRACTION VOLATILIZED	0.17927
FRACTION BIOLOGICALLY REMOVED	0.78233
FRACTION ABSORBED	0.
TOTAL AIR EMISSIONS (g/s)	1.546e-05
(Mg/year)	4.876e-04
EMISSION FACTOR (g/cm2-s)	2.137e-14
UNIT EXIT CONCENTRATION (ppmw)	3.484e-06

DETAILED CALCULATIONS at Unit 18 ASB Zone 2
Type: aerated biotreatment
Project C:\Users\akelley\Desktop\Water9\October 5 Run\ASB\ASB Oct 5 Response v2 10/4/2021 7:59:10 PM
Comments 22:20:43
COMPOUND: DIMETHYL DISULFIDE

Type of unit is aerated biotreatment

1 Description of unit	18	ASB Zone 2
2 Wastewater temperature (C)		32.4
3 length of aeration unit (m)		365
4 width of aeration unit (m)		182.3
5 depth of aeration unit (m)		0.97
6 Area of agitation (each aerator,m2)		135
7 Total number of agitators in the unit		15
8 Power of agitation (each aerator,HP)		75
9 Impeller diameter (cm)		49.53
10 Impeller rotation (RPM)		1200
11 Agitator mechanical efficiency		0.83
12 aerator effectiveness, alpha		0.83
13 if there is plug flow, enter 1		0
14 Overall biorate (mg/g bio-hr)		19
15 Aeration air flow (m3/s)		0
16 active biomass, aeration (g/l)		0.3
17 If covered, then enter 1		0

```
      18 special input                                  0
      19 pH  (enter 0 for no pH adjustment)            8.33

      Properties of DIMETHYL DISULFIDE at 32.4 deg.C (90.3 deg.F)
         hl= 0.001582 atm-m3/mol      vp= 42.429 mmHg (0.82066
psia)
             87.913 y/x
             0.06315 g/L gas per g/L liquid
         Temperature adjustment factor = 1.046 ^(T-25), deg. C
         kl= 0. L/g-hr          dl= 1.035e-05 cm2/s  dv= 0.087181
cm2/s
      Compound flow rate from inlet water is 0.002897 g/s.
      Compound flow rate from inlet vent is 0. g/s.
      Compound flow rate from inlet duct is 0. g/s.
      Submerged aeration rate from inlet vent is 0. m3/s.
      Total submerged aeration is 0. m3/s.
      The residence time in the unit is 18.863 hr.
      ____Biomass production_______________
          The biomass production rate is 0.mg/hr. (0. mg/L)
          The fraction dissolved solids converted is 0. .
          The estimated biomass exit concentration is 0. mg/L.
      ________Quiescent wind shear surface___Springer_
      The fetch to depth ratio is 300.07.
      kl is estimated as 5.949e-06 m/s.
      kg is estimated as 0.005645 m/s.  Model: 2
      kg is estimated as 0.005645 m/s.  Model: 2
      The Schmidt number is 1.72055.
      The friction velocity is 37.398 m/s
      kg is estimated as 0.012851 m/s.  Model: 3
      ________Agitated surface___________________
      The rotation speed is 125.654 radians per second.
      The rotation factor NRW is 2.052e+06.
      The power number NPR is 7.881e-04.
      The rotation factor NFR is 797.027.
      kg (agitated)is estimated as 0.11509 m/s.
      kl (agitated)is estimated as 0.016757 m/s.
          The specified and growth biomass is 0.3 g/L.
       The effective KL (surface + diffused air) is 1.646e-04
m/s.
       The effective stripping time (surface + diffused air) is
98.199 minutes. (1.63664 hrs.)
       The pump mixing time is 5 x the pumping recirculaion time,
0. min.
       The ratio of the mixing to the striping (surface +
diffused air) is 0.
       The mean residence time is 1131.756 min. (18.863 hr.)
       The ratio of the pump mixing to the residence time is 0.
         KG aerated (m/s)                        0.11725
         KL aerated (m/s)                        0.016757
         KL OVERALL AERATED (m/s)                0.005223
         KG quiescent (m/s)                      0.005751
         KL quiescent (m/s)                      5.949e-06
```

KL OVERALL QUIESCENT (m/s)	5.855e-06
KL OVERALL (m/s)	1.646e-04
air stripping time constant (min)	98.199
FRACTION SURFACE VOLATILIZED	0.34308
FRACTION SUBMERGED VOLATILIZED	0.
TOTAL FRACTION VOLATILIZED	0.34308
FRACTION BIOLOGICALLY REMOVED	0.62716
FRACTION ABSORBED	0.
TOTAL AIR EMISSIONS (g/s)	9.94e-04
(Mg/year)	0.031348
EMISSION FACTOR (g/cm2-s)	1.494e-12
UNIT EXIT CONCENTRATION (ppmw)	9.074e-05

```
Type of unit is
1 Total water added at the unit (l/s)      50     0
2 Area of openings at unit (cm2)                  50
3 Radius of drop pipe (cm)                        5
4 Drop length to conduit (cm)                     61
5 Humidity of inlet air (%)                       40
6 Temperature of air (C)                          25
7 Drain air velocity (ft/min)                     84
8 manhole air velocity (ft/min)                   128
9 Conduit air velocity (ft/min)                   66
10 Wind speed (cm/s at 10 m)                      447
11 distance to next unit (cm)                     500
12 slope of underflow conduit                     .015
13 friction factor liquid                         .016
14 friction factor gas                            .006
15 radius of underflow conduit (cm)               12
16 Underflow T (C)                                25
17 oscillation cycle time (min)                   5
18 design collection velocities  (ft/s)           2
19 design branch line fraction full               .4

Type of unit is
8 HL partition flag=1, adjust for sorption        0
9 unit recycle convergence number                 200
10 oil molecular weight                           0
11 oil density  (g/cc)                            0
12 NaUT 1=municipal 2=industrial  3=turb.         0
13 NaUT 1=mass tr. 2=equil                        0
14 parts biomass per 1000 parts COD
15 oil water partition method 0=owpc
16 use UNIFAC aqueous data base =1
17 specify mass transfer for unit, =1
18 Use biomass for unit option, =1
19 biogrowth Monod half concentration ppm

DETAILED CALCULATIONS at Unit 11 ASB Zone 1
Type: aerated biotreatment
  Project C:\Users\akelley\Desktop\Water9\October 5
Comments Run\ASB\ASB Oct 5 Response v2 10/4/2021 7:59:10 PM
22:21:04
COMPOUND: DIMETHYL SULFIDE  (DMS)

Type of unit is aerated biotreatment
1 Description of unit                      11    ASB Zone 1
2 Wastewater temperature   (C)                   35.2
3 length of aeration unit (m)                    225
4 width of aeration unit (m)                     225
5 depth of aeration unit (m)                     1.4
6 Area of agitation (each aerator,m2)            135
7 Total number of agitators in the unit          16
```

```
      8 Power of agitation (each aerator,HP)          75
      9 Impeller diameter (cm)                        49.53
      10 Impeller rotation (RPM)                      1200
      11 Agitator mechanical efficiency               0.83
      12 aerator effectiveness, alpha                 0.83
      13 if there is plug flow, enter 1               0
      14 Overall biorate (mg/g bio-hr)                19
      15 Aeration air flow (m3/s)                     0
      16 active biomass, aeration (g/l)               0.3
      17 If covered, then enter 1                     0
      18 special input                                0
      19 pH  (enter 0 for no pH adjustment)           8.28

      Properties of DIMETHYL SULFIDE  (DMS) at 35.2 deg.C (95.4
deg.F)
         hl= 0.003045 atm-m3/mol      vp= 733.622 mmHg (14.19
psia)
             169.142 y/x
             0.1204 g/L gas per g/L liquid
         Temperature adjustment factor = 1.046 ^(T-25), deg. C
         kl= 0. L/g-hr          dl= 1.51e-05 cm2/s  dv= 0.14859
cm2/s
      Compound flow rate from inlet water is 0.10355 g/s.
      Compound flow rate from inlet vent is 0. g/s.
      Compound flow rate from inlet duct is 0. g/s.
      Submerged aeration rate from inlet vent is 0. m3/s.
      Total submerged aeration is 0. m3/s.
      The residence time in the unit is 20.713 hr.
      ____Biomass production_______________
          The biomass production rate is 0.mg/hr. (0. mg/L)
          The fraction dissolved solids converted is 0. .
          The estimated biomass exit concentration is 0. mg/L.
      ________Quiescent wind shear surface___Springer_
      The fetch to depth ratio is 181.347.
      kl is estimated as 7.652e-06 m/s.
      kg is estimated as 0.008191 m/s.  Model: 2
      kg is estimated as 0.008191 m/s.  Model: 2
      The Schmidt number is 1.00946.
      The friction velocity is 37.398 m/s
      kg is estimated as 0.017945 m/s.  Model: 3
      ________Agitated surface___________________
      The rotation speed is 125.654 radians per second.
      The rotation factor NRW is 2.052e+06.
      The power number NPR is 7.881e-04.
      The rotation factor NFR is 797.027.
      kg (agitated)is estimated as 0.15025 m/s.
      kl (agitated)is estimated as 0.021629 m/s.
          The specified and growth biomass is 0.3 g/L.
       The effective KL (surface + diffused air) is 4.396e-04
m/s.
       The effective stripping time (surface + diffused air) is
53.083 minutes. (0.88472 hrs.)
```

```
       The pump mixing time is 5 x the pumping recirculaion time,
0. min.
       The ratio of the mixing to the striping (surface +
diffused air) is 0.
       The mean residence time is 1242.781 min. (20.713 hr.)
       The ratio of the pump mixing to the residence time is 0.
         KG aerated (m/s)                          0.15307
         KL aerated (m/s)                          0.021629
         KL OVERALL AERATED (m/s)                  0.010132
         KG quiescent (m/s)                        0.008345
         KL quiescent (m/s)                        7.652e-06
         KL OVERALL QUIESCENT (m/s)                7.596e-06
         KL OVERALL (m/s)                          4.396e-04
         air stripping time constant (min)         53.083
         FRACTION SURFACE VOLATILIZED              0.77235
         FRACTION SUBMERGED VOLATILIZED            0.
         TOTAL FRACTION VOLATILIZED                0.77235
         FRACTION BIOLOGICALLY REMOVED             0.19466
         FRACTION ABSORBED                         0.
         TOTAL AIR EMISSIONS  (g/s)                0.07998
                          (Mg/year)                2.52225
         EMISSION FACTOR  (g/cm2-s)                1.58e-10
         UNIT EXIT CONCENTRATION (ppmw)            0.003594
      DETAILED CALCULATIONS at Unit 12 def.system exit st
      Type: system exit stream
        Project C:\Users\akelley\Desktop\Water9\October 5
Comments Run\ASB\ASB Oct 5 Response v2 10/4/2021 7:59:10 PM
22:21:04
      COMPOUND: DIMETHYL SULFIDE  (DMS)

      Type of unit is system exit stream
      1 Description of unit                      12    def.system
exit st

         TOTAL AIR EMISSIONS  (g/s)                0.
                          (Mg/year)                0.
         EMISSION FACTOR  (g/cm2-s)                1.58e-10
         UNIT EXIT CONCENTRATION (ppmw)            1.009e-05
      DETAILED CALCULATIONS at Unit 13 default open hub d
      Type: open hub drain
        Project C:\Users\akelley\Desktop\Water9\October 5
Comments Run\ASB\ASB Oct 5 Response v2 10/4/2021 7:59:10 PM
22:21:04
      COMPOUND: DIMETHYL SULFIDE  (DMS)

      Type of unit is open hub drain
      1 Description of unit                      13    default
open hub d
      2 Underflow T (C)                                44.4
      3 Total water added at the unit (l/s)            0
      4 Area of openings at unit (cm2)                 50
      5 Radius of drop pipe (cm)                       5
```

```
      6 Drop length to conduit (cm)                    61
      7 Open surface=1                                 1
      8 Subsurface entrance=1                          0
      9 subsurface exit =1                             0
      10 radius of underflow conduit (cm)              12
      11 distance to next unit (cm)                    500
      12 slope of underflow conduit                    0.015
      16 velocity air at drain opening (ft/min)        84
      17 municipal waste in conduit =1                 0
      18 Assume equilibrium in unit, =1                0
      19 pH  (enter 0 for no pH adjustment)            8.9

       Equilibrium partitioning in drain drop hub is assumed.
         Total drain flow is  950.489 l/s.
         Weight fraction down is  1.26472E-07
         Gas concentration in  0 mol fraction.
         Gas flow  950.489 L/s
         Weight fraction out at base of drop is
1.08947962902627E-07
         fraction transferred in the drain drop from hub
is .138561
         fraction loss in waste1 drop to hub      0.
         fraction loss in waste2 drop to hub      0.
         fraction loss in waste3 drop to hub      0.
         fraction loss in collection hub drop     0.13856
         fraction loss in unit                    0.
         fraction loss in line run                -7.195e-08
         component upstream of unit, g/s          0.
         mol fract. headspace upstream (y)        0.
         headspace at conduit discharge, y        0.
         headspace end of conduit (y)             2.837e-19
         mol fract. headspace vent base           7.346e-06
         headspace flow out vent (cc/s)           -9.505e+05
         headspace flow down line (cc/s)          9.505e+05
         KG surface (m/s)                         2402.706
         KL surface (m/s)                         7.651e-09
         flow of waste down hub (l/s)             0.
         component flow in waste into unit (g/s)  0.12021
         total component into unit, g/s           0.10355
         TOTAL AIR EMISSIONS  (g/s)               0.016656
                            (Mg/year)             0.52528
         EMISSION FACTOR  (g/cm2-s)               1.58e-10
         UNIT EXIT CONCENTRATION (ppmw)           0.10895
      DETAILED CALCULATIONS at Unit 17 ASB Zone 3
      Type: aerated biotreatment
        Project C:\Users\akelley\Desktop\Water9\October 5
Comments Run\ASB\ASB Oct 5 Response v2 10/4/2021 7:59:10 PM
22:21:04
      COMPOUND: DIMETHYL SULFIDE  (DMS)

      Type of unit is aerated biotreatment
      1 Description of unit                      17    ASB Zone 3
```

```
2 Wastewater temperature   (C)                    31.211
3 length of aeration unit (m)                     380.4
4 width of aeration unit (m)                      190.2
5 depth of aeration unit (m)                      0.91
6 Area of agitation (each aerator,m2)             135
7 Total number of agitators in the unit           6
8 Power of agitation (each aerator,HP)            75
9 Impeller diameter (cm)                          49.53
10 Impeller rotation (RPM)                        1200
11 Agitator mechanical efficiency                 0.83
12 aerator effectiveness, alpha                   0.83
13 if there is plug flow, enter 1                 0
14 Overall biorate (mg/g bio-hr)                  19
15 Aeration air flow (m3/s)                       0
16 active biomass, aeration (g/l)                 0.3
17 If covered, then enter 1                       0
18 special input                                  0
19 pH  (enter 0 for no pH adjustment)             8.37

Properties of DIMETHYL SULFIDE  (DMS) at 31.2 deg.C (88.2
deg.F)
   hl= 0.002634 atm-m3/mol      vp= 634.599 mmHg (12.274
psia)
       146.312 y/x
       0.10551 g/L gas per g/L liquid
   Temperature adjustment factor = 1.046 ^(T-25), deg. C
   kl= 0. L/g-hr          dl= 1.49e-05 cm2/s  dv= 0.14525
cm2/s
Compound flow rate from inlet water is 1.317e-04 g/s.
Compound flow rate from inlet vent is 0. g/s.
Compound flow rate from inlet duct is 0. g/s.
Submerged aeration rate from inlet vent is 0. m3/s.
Total submerged aeration is 0. m3/s.
The residence time in the unit is 19.242 hr.
____Biomass production_______________
    The biomass production rate is 0.mg/hr. (0. mg/L)
    The fraction dissolved solids converted is 0. .
    The estimated biomass exit concentration is 0. mg/L.
________Quiescent wind shear surface___Springer_
The fetch to depth ratio is 333.533.
kl is estimated as 7.586e-06 m/s.
kg is estimated as 0.00791 m/s.  Model: 2
kg is estimated as 0.00791 m/s.  Model: 2
The Schmidt number is 1.03272.
The friction velocity is 37.398 m/s
kg is estimated as 0.017688 m/s.  Model: 3
________Agitated surface___________________
The rotation speed is 125.654 radians per second.
The rotation factor NRW is 2.052e+06.
The power number NPR is 7.881e-04.
The rotation factor NFR is 797.027.
kg (agitated)is estimated as 0.14855 m/s.
```

kl (agitated)is estimated as 0.019549 m/s.
The specified and growth biomass is 0.3 g/L.
The effective KL (surface + diffused air) is 1.069e-04 m/s.
The effective stripping time (surface + diffused air) is 141.812 minutes. (2.36353 hrs.)
The pump mixing time is 5 x the pumping recirculaion time, 0. min.
The ratio of the mixing to the striping (surface + diffused air) is 0.
The mean residence time is 1154.5 min. (19.242 hr.)
The ratio of the pump mixing to the residence time is 0.

KG aerated (m/s)	0.15134
KL aerated (m/s)	0.019549
KL OVERALL AERATED (m/s)	0.008889
KG quiescent (m/s)	0.008059
KL quiescent (m/s)	7.586e-06
KL OVERALL QUIESCENT (m/s)	7.52e-06
KL OVERALL (m/s)	1.069e-04
air stripping time constant (min)	141.812
FRACTION SURFACE VOLATILIZED	0.59325
FRACTION SUBMERGED VOLATILIZED	0.
TOTAL FRACTION VOLATILIZED	0.59325
FRACTION BIOLOGICALLY REMOVED	0.33388
FRACTION ABSORBED	0.
TOTAL AIR EMISSIONS (g/s)	7.81e-05
(Mg/year)	0.002463
EMISSION FACTOR (g/cm2-s)	1.08e-13
UNIT EXIT CONCENTRATION (ppmw)	1.009e-05

DETAILED CALCULATIONS at Unit 18 ASB Zone 2
Type: aerated biotreatment
Project C:\Users\akelley\Desktop\Water9\October 5 Comments Run\ASB\ASB Oct 5 Response v2 10/4/2021 7:59:10 PM 22:21:04
COMPOUND: DIMETHYL SULFIDE (DMS)

Type of unit is aerated biotreatment

1 Description of unit	18	ASB Zone 2
2 Wastewater temperature (C)		32.4
3 length of aeration unit (m)		365
4 width of aeration unit (m)		182.3
5 depth of aeration unit (m)		0.97
6 Area of agitation (each aerator,m2)		135
7 Total number of agitators in the unit		15
8 Power of agitation (each aerator,HP)		75
9 Impeller diameter (cm)		49.53
10 Impeller rotation (RPM)		1200
11 Agitator mechanical efficiency		0.83
12 aerator effectiveness, alpha		0.83
13 if there is plug flow, enter 1		0
14 Overall biorate (mg/g bio-hr)		19
15 Aeration air flow (m3/s)		0

```
      16 active biomass, aeration (g/l)                0.3
      17 If covered, then enter 1                      0
      18 special input                                 0
      19 pH  (enter 0 for no pH adjustment)            8.33

      Properties of DIMETHYL SULFIDE  (DMS) at 32.4 deg.C (90.3
deg.F)
         hl= 0.002751 atm-m3/mol      vp= 662.92 mmHg (12.822
psia)
             152.841 y/x
             0.10979 g/L gas per g/L liquid
         Temperature adjustment factor = 1.046 ^(T-25), deg. C
         kl= 0. L/g-hr          dl= 1.496e-05 cm2/s  dv= 0.14624
cm2/s
      Compound flow rate from inlet water is 0.003416 g/s.
      Compound flow rate from inlet vent is 0. g/s.
      Compound flow rate from inlet duct is 0. g/s.
      Submerged aeration rate from inlet vent is 0. m3/s.
      Total submerged aeration is 0. m3/s.
      The residence time in the unit is 18.863 hr.
      ____Biomass production_______________
          The biomass production rate is 0.mg/hr. (0. mg/L)
          The fraction dissolved solids converted is 0. .
          The estimated biomass exit concentration is 0. mg/L.
      ________Quiescent wind shear surface___Springer_
      The fetch to depth ratio is 300.07.
      kl is estimated as 7.606e-06 m/s.
      kg is estimated as 0.007983 m/s.  Model: 2
      kg is estimated as 0.007983 m/s.  Model: 2
      The Schmidt number is 1.0257.
      The friction velocity is 37.398 m/s
      kg is estimated as 0.017764 m/s.  Model: 3
      ________Agitated surface___________________
      The rotation speed is 125.654 radians per second.
      The rotation factor NRW is 2.052e+06.
      The power number NPR is 7.881e-04.
      The rotation factor NFR is 797.027.
      kg (agitated)is estimated as 0.14906 m/s.
      kl (agitated)is estimated as 0.020147 m/s.
          The specified and growth biomass is 0.3 g/L.
       The effective KL (surface + diffused air) is 2.887e-04
m/s.
       The effective stripping time (surface + diffused air) is
56.001 minutes. (0.93335 hrs.)
       The pump mixing time is 5 x the pumping recirculaion time,
0. min.
       The ratio of the mixing to the striping (surface +
diffused air) is 0.
       The mean residence time is 1131.756 min. (18.863 hr.)
       The ratio of the pump mixing to the residence time is 0.
         KG aerated (m/s)                        0.15185
         KL aerated (m/s)                        0.020147
```

KL OVERALL AERATED (m/s)	0.009246
KG quiescent (m/s)	0.008133
KL quiescent (m/s)	7.606e-06
KL OVERALL QUIESCENT (m/s)	7.543e-06
KL OVERALL (m/s)	2.887e-04
air stripping time constant (min)	56.001
FRACTION SURFACE VOLATILIZED	0.77885
FRACTION SUBMERGED VOLATILIZED	0.
TOTAL FRACTION VOLATILIZED	0.77885
FRACTION BIOLOGICALLY REMOVED	0.18261
FRACTION ABSORBED	0.
TOTAL AIR EMISSIONS (g/s)	0.002661
(Mg/year)	0.083908
EMISSION FACTOR (g/cm2-s)	3.999e-12
UNIT EXIT CONCENTRATION (ppmw)	1.385e-04

```
Type of unit is
1 Total water added at the unit (l/s)      50     0
2 Area of openings at unit (cm2)                  50
3 Radius of drop pipe (cm)                        5
4 Drop length to conduit (cm)                     61
5 Humidity of inlet air (%)                       40
6 Temperature of air (C)                          25
7 Drain air velocity (ft/min)                     84
8 manhole air velocity (ft/min)                   128
9 Conduit air velocity (ft/min)                   66
10 Wind speed (cm/s at 10 m)                      447
11 distance to next unit (cm)                     500
12 slope of underflow conduit                     .015
13 friction factor liquid                         .016
14 friction factor gas                            .006
15 radius of underflow conduit (cm)               12
16 Underflow T (C)                                25
17 oscillation cycle time (min)                   5
18 design collection velocities  (ft/s)           2
19 design branch line fraction full               .4

Type of unit is
8 HL partition flag=1, adjust for sorption        0
9 unit recycle convergence number                 200
10 oil molecular weight                           0
11 oil density  (g/cc)                            0
12 NaUT 1=municipal 2=industrial  3=turb.         0
13 NaUT 1=mass tr. 2=equil                        0
14 parts biomass per 1000 parts COD
15 oil water partition method 0=owpc
16 use UNIFAC aqueous data base =1
17 specify mass transfer for unit, =1
18 Use biomass for unit option, =1
19 biogrowth Monod half concentration ppm

DETAILED CALCULATIONS at Unit 11 ASB Zone 1
Type: aerated biotreatment
  Project C:\Users\akelley\Desktop\Water9\October 5
Comments Run\ASB\ASB Oct 5 Response v2 10/4/2021 7:59:10 PM
22:21:39
COMPOUND: METHANETHIOL(methyl mercaptan)

Type of unit is aerated biotreatment
1 Description of unit                      11    ASB Zone 1
2 Wastewater temperature   (C)                   35.2
3 length of aeration unit (m)                    225
4 width of aeration unit (m)                     225
5 depth of aeration unit (m)                     1.4
6 Area of agitation (each aerator,m2)            135
7 Total number of agitators in the unit          16
```

```
      8 Power of agitation (each aerator,HP)           75
      9 Impeller diameter (cm)                         49.53
      10 Impeller rotation (RPM)                       1200
      11 Agitator mechanical efficiency                0.83
      12 aerator effectiveness, alpha                  0.83
      13 if there is plug flow, enter 1                0
      14 Overall biorate (mg/g bio-hr)                 19
      15 Aeration air flow (m3/s)                      0
      16 active biomass, aeration (g/l)                0.3
      17 If covered, then enter 1                      0
      18 special input                                 0
      19 pH  (enter 0 for no pH adjustment)            8.28

      Properties of METHANETHIOL(methyl mercaptan) at 35.2 deg.C
(95.4 deg.F)
         hl= 0.004295 atm-m3/mol      vp= 2347.095 mmHg (45.398
psia)
             238.61 y/x
             0.16984 g/L gas per g/L liquid
         Temperature adjustment factor = 1.046 ^(T-25), deg. C
         kl= 0. L/g-hr          dl= 1.531e-05 cm2/s  dv= 0.23854
cm2/s
      Compound flow rate from inlet water is 0.051199 g/s.
      Compound flow rate from inlet vent is 0. g/s.
      Compound flow rate from inlet duct is 0. g/s.
      Submerged aeration rate from inlet vent is 0. m3/s.
      Total submerged aeration is 0. m3/s.
      The residence time in the unit is 20.713 hr.
      ____Biomass production_______________
          The biomass production rate is 0.mg/hr. (0. mg/L)
          The fraction dissolved solids converted is 0. .
          The estimated biomass exit concentration is 0. mg/L.
      ________Quiescent wind shear surface___Springer_
      The fetch to depth ratio is 181.347.
      kl is estimated as 7.722e-06 m/s.
      kg is estimated as 0.011248 m/s.  Model: 2
      kg is estimated as 0.011248 m/s.  Model: 2
      The Schmidt number is 0.62883.
      The friction velocity is 37.398 m/s
      kg is estimated as 0.024272 m/s.  Model: 3
      ________Agitated surface___________________
      The rotation speed is 125.654 radians per second.
      The rotation factor NRW is 2.052e+06.
      The power number NPR is 7.881e-04.
      The rotation factor NFR is 797.027.
      kg (agitated)is estimated as 0.19037 m/s.
      kl (agitated)is estimated as 0.021776 m/s.
          The specified and growth biomass is 0.3 g/L.
       The effective KL (surface + diffused air) is 5.742e-04
m/s.
       The effective stripping time (surface + diffused air) is
40.638 minutes. (0.67729 hrs.)
```

```
       The pump mixing time is 5 x the pumping recirculaion time,
0. min.
       The ratio of the mixing to the striping (surface +
diffused air) is 0.
       The mean residence time is 1242.781 min. (20.713 hr.)
       The ratio of the pump mixing to the residence time is 0.
         KG aerated (m/s)                          0.19394
         KL aerated (m/s)                          0.021776
         KL OVERALL AERATED (m/s)                  0.013285
         KG quiescent (m/s)                        0.011459
         KL quiescent (m/s)                        7.722e-06
         KL OVERALL QUIESCENT (m/s)                7.692e-06
         KL OVERALL (m/s)                          5.742e-04
         air stripping time constant (min)         40.638
         FRACTION SURFACE VOLATILIZED              0.86677
         FRACTION SUBMERGED VOLATILIZED            0.
         TOTAL FRACTION VOLATILIZED                0.86677
         FRACTION BIOLOGICALLY REMOVED             0.10489
         FRACTION ABSORBED                         0.
         TOTAL AIR EMISSIONS  (g/s)                0.044378
                          (Mg/year)                1.39951
         EMISSION FACTOR  (g/cm2-s)                8.766e-11
         UNIT EXIT CONCENTRATION (ppmw)            0.001527
      DETAILED CALCULATIONS at Unit 12 def.system exit st
      Type: system exit stream
        Project C:\Users\akelley\Desktop\Water9\October 5
Comments Run\ASB\ASB Oct 5 Response v2 10/4/2021 7:59:10 PM
22:21:39
      COMPOUND: METHANETHIOL(methyl mercaptan)

      Type of unit is system exit stream
      1 Description of unit                       12    def.system
exit st

         TOTAL AIR EMISSIONS  (g/s)                0.
                          (Mg/year)                0.
         EMISSION FACTOR  (g/cm2-s)                8.766e-11
         UNIT EXIT CONCENTRATION (ppmw)            3.417e-06
      DETAILED CALCULATIONS at Unit 13 default open hub d
      Type: open hub drain
        Project C:\Users\akelley\Desktop\Water9\October 5
Comments Run\ASB\ASB Oct 5 Response v2 10/4/2021 7:59:10 PM
22:21:39
      COMPOUND: METHANETHIOL(methyl mercaptan)

      Type of unit is open hub drain
      1 Description of unit                       13    default
open hub d
      2 Underflow T (C)                                 44.4
      3 Total water added at the unit (l/s)             0
      4 Area of openings at unit (cm2)                  50
      5 Radius of drop pipe (cm)                        5
```

```
      6 Drop length to conduit (cm)                    61
      7 Open surface=1                                 1
      8 Subsurface entrance=1                          0
      9 subsurface exit =1                             0
      10 radius of underflow conduit (cm)              12
      11 distance to next unit (cm)                    500
      12 slope of underflow conduit                    0.015
      16 velocity air at drain opening (ft/min)        84
      17 municipal waste in conduit =1                 0
      18 Assume equilibrium in unit, =1                0
      19 pH  (enter 0 for no pH adjustment)            8.9

       Equilibrium partitioning in drain drop hub is assumed.
         Total drain flow is  950.489 l/s.
         Weight fraction down is  6.535299E-08
         Gas concentration in  0 mol fraction.
         Gas flow  950.489 L/s
         Weight fraction out at base of drop is
5.38664415102028E-08
         fraction transferred in the drain drop from hub
is .175762
         fraction loss in waste1 drop to hub      0.
         fraction loss in waste2 drop to hub      0.
         fraction loss in waste3 drop to hub      0.
         fraction loss in collection hub drop     0.17576
         fraction loss in unit                    0.
         fraction loss in line run                7.276e-08
         component upstream of unit, g/s          0.
         mol fract. headspace upstream (y)        0.
         headspace at conduit discharge, y        0.
         headspace end of conduit (y)             1.829e-19
         mol fract. headspace vent base           6.219e-06
         headspace flow out vent (cc/s)           -9.505e+05
         headspace flow down line (cc/s)          9.505e+05
         KG surface (m/s)                         3294.605
         KL surface (m/s)                         7.724e-09
         flow of waste down hub (l/s)             0.
         component flow in waste into unit (g/s)  0.062117
         total component into unit, g/s           0.051199
         TOTAL AIR EMISSIONS  (g/s)               0.010918
                            (Mg/year)             0.34431
         EMISSION FACTOR  (g/cm2-s)               8.766e-11
         UNIT EXIT CONCENTRATION (ppmw)           0.053866
      DETAILED CALCULATIONS at Unit 17 ASB Zone 3
      Type: aerated biotreatment
        Project C:\Users\akelley\Desktop\Water9\October 5
Comments Run\ASB\ASB Oct 5 Response v2 10/4/2021 7:59:10 PM
22:21:39
      COMPOUND: METHANETHIOL(methyl mercaptan)

      Type of unit is aerated biotreatment
      1 Description of unit                      17    ASB Zone 3
```

```
2 Wastewater temperature   (C)                    31.211
3 length of aeration unit (m)                     380.4
4 width of aeration unit (m)                      190.2
5 depth of aeration unit (m)                      0.91
6 Area of agitation (each aerator,m2)             135
7 Total number of agitators in the unit           6
8 Power of agitation (each aerator,HP)            75
9 Impeller diameter (cm)                          49.53
10 Impeller rotation (RPM)                        1200
11 Agitator mechanical efficiency                 0.83
12 aerator effectiveness, alpha                   0.83
13 if there is plug flow, enter 1                 0
14 Overall biorate (mg/g bio-hr)                  19
15 Aeration air flow (m3/s)                       0
16 active biomass, aeration (g/l)                 0.3
17 If covered, then enter 1                       0
18 special input                                  0
19 pH  (enter 0 for no pH adjustment)             8.37

Properties of METHANETHIOL(methyl mercaptan) at 31.2 deg.C
(88.2 deg.F)
   hl= 0.003821 atm-m3/mol      vp= 2088.317 mmHg (40.392
psia)
       212.302 y/x
       0.1531 g/L gas per g/L liquid
   Temperature adjustment factor = 1.046 ^(T-25), deg. C
   kl= 0. L/g-hr          dl= 1.511e-05 cm2/s  dv= 0.23316
cm2/s
Compound flow rate from inlet water is 4.733e-05 g/s.
Compound flow rate from inlet vent is 0. g/s.
Compound flow rate from inlet duct is 0. g/s.
Submerged aeration rate from inlet vent is 0. m3/s.
Total submerged aeration is 0. m3/s.
The residence time in the unit is 19.242 hr.
____Biomass production_______________
    The biomass production rate is 0.mg/hr. (0. mg/L)
    The fraction dissolved solids converted is 0. .
    The estimated biomass exit concentration is 0. mg/L.
________Quiescent wind shear surface___Springer_
The fetch to depth ratio is 333.533.
kl is estimated as 7.655e-06 m/s.
kg is estimated as 0.010862 m/s.  Model: 2
kg is estimated as 0.010862 m/s.  Model: 2
The Schmidt number is 0.64333.
The friction velocity is 37.398 m/s
kg is estimated as 0.02392 m/s.  Model: 3
________Agitated surface___________________
The rotation speed is 125.654 radians per second.
The rotation factor NRW is 2.052e+06.
The power number NPR is 7.881e-04.
The rotation factor NFR is 797.027.
kg (agitated)is estimated as 0.18821 m/s.
```

kl (agitated)is estimated as 0.019682 m/s.
The specified and growth biomass is 0.3 g/L.
The effective KL (surface + diffused air) is 1.405e-04 m/s.
The effective stripping time (surface + diffused air) is 107.921 minutes. (1.79869 hrs.)
The pump mixing time is 5 x the pumping recirculaion time, 0. min.
The ratio of the mixing to the striping (surface + diffused air) is 0.
The mean residence time is 1154.5 min. (19.242 hr.)
The ratio of the pump mixing to the residence time is 0.

KG aerated (m/s)	0.19174
KL aerated (m/s)	0.019682
KL OVERALL AERATED (m/s)	0.01188
KG quiescent (m/s)	0.011066
KL quiescent (m/s)	7.655e-06
KL OVERALL QUIESCENT (m/s)	7.621e-06
KL OVERALL (m/s)	1.405e-04
air stripping time constant (min)	107.921
FRACTION SURFACE VOLATILIZED	0.73417
FRACTION SUBMERGED VOLATILIZED	0.
TOTAL FRACTION VOLATILIZED	0.73417
FRACTION BIOLOGICALLY REMOVED	0.1972
FRACTION ABSORBED	0.
TOTAL AIR EMISSIONS (g/s)	3.475e-05
(Mg/year)	0.001096
EMISSION FACTOR (g/cm2-s)	4.802e-14
UNIT EXIT CONCENTRATION (ppmw)	3.417e-06

DETAILED CALCULATIONS at Unit 18 ASB Zone 2
Type: aerated biotreatment
Project C:\Users\akelley\Desktop\Water9\October 5 Comments Run\ASB\ASB Oct 5 Response v2 10/4/2021 7:59:10 PM 22:21:39
COMPOUND: METHANETHIOL(methyl mercaptan)

Type of unit is aerated biotreatment

1 Description of unit	18	ASB Zone 2
2 Wastewater temperature (C)		32.4
3 length of aeration unit (m)		365
4 width of aeration unit (m)		182.3
5 depth of aeration unit (m)		0.97
6 Area of agitation (each aerator,m2)		135
7 Total number of agitators in the unit		15
8 Power of agitation (each aerator,HP)		75
9 Impeller diameter (cm)		49.53
10 Impeller rotation (RPM)		1200
11 Agitator mechanical efficiency		0.83
12 aerator effectiveness, alpha		0.83
13 if there is plug flow, enter 1		0
14 Overall biorate (mg/g bio-hr)		19
15 Aeration air flow (m3/s)		0

```
      16 active biomass, aeration (g/l)                0.3
      17 If covered, then enter 1                      0
      18 special input                                 0
      19 pH  (enter 0 for no pH adjustment)            8.33

      Properties of METHANETHIOL(methyl mercaptan) at 32.4 deg.C
(90.3 deg.F)
         hl= 0.003958 atm-m3/mol      vp= 2163.09 mmHg (41.839
psia)
             219.904 y/x
             0.15796 g/L gas per g/L liquid
         Temperature adjustment factor = 1.046 ^(T-25), deg. C
         kl= 0. L/g-hr          dl= 1.517e-05 cm2/s  dv= 0.23476
cm2/s
      Compound flow rate from inlet water is 0.001451 g/s.
      Compound flow rate from inlet vent is 0. g/s.
      Compound flow rate from inlet duct is 0. g/s.
      Submerged aeration rate from inlet vent is 0. m3/s.
      Total submerged aeration is 0. m3/s.
      The residence time in the unit is 18.863 hr.
      ____Biomass production_______________
          The biomass production rate is 0.mg/hr. (0. mg/L)
          The fraction dissolved solids converted is 0. .
          The estimated biomass exit concentration is 0. mg/L.
      ________Quiescent wind shear surface___Springer_
      The fetch to depth ratio is 300.07.
      kl is estimated as 7.675e-06 m/s.
      kg is estimated as 0.010962 m/s.  Model: 2
      kg is estimated as 0.010962 m/s.  Model: 2
      The Schmidt number is 0.63895.
      The friction velocity is 37.398 m/s
      kg is estimated as 0.024025 m/s.  Model: 3
      ________Agitated surface___________________
      The rotation speed is 125.654 radians per second.
      The rotation factor NRW is 2.052e+06.
      The power number NPR is 7.881e-04.
      The rotation factor NFR is 797.027.
      kg (agitated)is estimated as 0.18886 m/s.
      kl (agitated)is estimated as 0.020285 m/s.
          The specified and growth biomass is 0.3 g/L.
       The effective KL (surface + diffused air) is 3.813e-04
m/s.
       The effective stripping time (surface + diffused air) is
42.403 minutes. (0.70671 hrs.)
       The pump mixing time is 5 x the pumping recirculaion time,
0. min.
       The ratio of the mixing to the striping (surface +
diffused air) is 0.
       The mean residence time is 1131.756 min. (18.863 hr.)
       The ratio of the pump mixing to the residence time is 0.
         KG aerated (m/s)                        0.1924
         KL aerated (m/s)                        0.020285
```

KL OVERALL AERATED (m/s)	0.012284
KG quiescent (m/s)	0.011168
KL quiescent (m/s)	7.675e-06
KL OVERALL QUIESCENT (m/s)	7.643e-06
KL OVERALL (m/s)	3.813e-04
air stripping time constant (min)	42.403
FRACTION SURFACE VOLATILIZED	0.87048
FRACTION SUBMERGED VOLATILIZED	0.
TOTAL FRACTION VOLATILIZED	0.87048
FRACTION BIOLOGICALLY REMOVED	0.096909
FRACTION ABSORBED	0.
TOTAL AIR EMISSIONS (g/s)	0.001263
(Mg/year)	0.039835
EMISSION FACTOR (g/cm2-s)	1.898e-12
UNIT EXIT CONCENTRATION (ppmw)	4.979e-05

Table A-38
Water9 Inputs - Holding Pond
New-Indy Catawba - Catawba, SC

Sources	Variable	Value	Unit	Source
Open Trench No. 10 (Ditch #2)	Underflow Temperature	31.6	C	Average ASB Effluent Temperature during IPT (7/9-11/2021)
	width of trench	3.65	m	Estimated based on Google Earth and drone footage (when available)
	Distance to next unit	50000	cm	Estimated based on Google Earth and drone footage (when available)
	Slope of underflow conduit	0.015		Water9 Default
	depth of trench	3	m	Water9 Default
	pH	7.47		Average ASB Effllluent pH during IPT (7/9-11/2021)

Table A-38
Water9 Inputs - Holding Pond
New-Indy Catawba - Catawba, SC

Sources	Variable	Value	Unit	Source
Aerated Biotreatment No. 11 (Holding Pond #1)	Wastewater Temperature	30.4		Average of ASB Effluent and Post-ASB Influent Temperature during IPT (7/9-11/2021)
	length of aeration unit	Impeller Diameter	m	Calculated length from area of Holding Pond (96 acres)
	width of aeration unit	Impeller Rotation	m	Calculated width from area of Holding Pond (96 acres)
	depth of aeration unit	8.5	m	Estimated based on site-specific data
	Area of agitation (each aerator)	47	m^2	Water9 Default
	Total number of agitators	2		
	Power of agitation	75	HP	Aerator Design
	Impeller diameter	49.53	cm	Aerator Design
	Impeller rotation	1200	rpm	Aerator Design
	Agitator Mechanical efficiency	0.83		Water9 Default
	Aerator effectiveness	0.83	alpha	Water9 Default
	Overall biorate	19	mg/g bio-hr	Water9 Default
	active biomass	0.3	g/l	Water9 Default
	pH	7.56		Average of ASB Effluent and Post-ASB Influent pH during IPT (7/9-11/2021)

Free Sulfide Fraction Calculation Tool

pH	7.47
K1	1.036E-07
K2	6.43E-16

Convert Total Sulfide to H2S(dissolved)

Hydrogen Concentration	3.38844E-08
Hydrogen Concenration	3.38844E-11

Free Fraction	24.646%

Convert Total Sulfide Measurement to H2S(dissolved)

5.5	96.8%
5.75	94.5%
6	90.6%
6.25	84.4%
6.5	75.3%
6.75	63.2%
7	49.1%
7.25	35.2%
7.5	23.4%
7.75	14.7%
8	8.8%
8.25	5.1%
8.5	3.0%
8.75	1.7%
9	1.0%

Ditch #2 H2S Emissions Calculation

0.0004276	m/s	KL
3.65	m	Width of Ditch #2
500	m	Length of Ditch #2
0.008	mg/L	Concentration of Hydrogen Sulfide Entering Ditch #2
0.246		Free Sulfide pH Adjustment
1,000	L/m^3	Conversion Factor
1,000	mg/g	Conversion Factor

$$\frac{0.0004276}{m/s} \times \frac{3.65}{m} \times \frac{500}{m} \times \frac{0.01}{mg/L} \times 0.246 \times \frac{1000}{L/m^3} \times \frac{1}{1000}\frac{g}{mg}$$

H2S emissions rate

0.00156 g/s

3.2 Sulfide Dissociation

Inorganic, free sulfide can exist in three forms, the concentrations of which depend upon the wastewater pH. H2SSIM calculates the effect of pH on the predominant sulfide form present in the wastewater. This calculation is significant because only H_2S is a volatile form of sulfide.

At the near neutral pH conditions encountered in most wastewaters undergoing biological treatment, hydrogen sulfide dissociates to yield a hydrogen ion and hydrogen sulfide ion (Equation 3.4).

$$H_2S \leftrightarrow H^+ + HS^- \qquad \text{Equation 3.4}$$

At very high pH levels, the hydrogen sulfide ion can dissociate again to a hydrogen ion and sulfur ion (Equation 3.5).

$$HS^- \leftrightarrow H^+ + S^{2-} \qquad \text{Equation 3.5}$$

When the reaction is considered to be at equilibrium, the reaction and concentration products can be defined by Equations 3.6 and 3.7.

$$K_1 = \frac{[H^+][HS^-]}{H_2S} \qquad \text{Equation 3.6}$$

$$K_2 = \frac{[H^+][S^{2-}]}{HS^-} \qquad \text{Equation 3.7}$$

If the reactions represented in Equations 3.4 and 3.5 are considered to occur much faster than the other processes in the overall mass balance equation, a local equilibrium holds (Chapra 1997) and the sulfide dissociation reaction can be solved outside of the sulfide mass balance equation.

If a local equilibrium exists for sulfide dissociation, the fraction of total sulfide that exists as each species at the specified pH can be calculated (Equations 3.8 through 3.10).

$$F_{HS} = \frac{K_1[H^+]}{1+K_1[H^+]+K_1K_2[H^+]^2} \qquad \text{Equation 3.8}$$

$$F_{H_2S} = \frac{K_1K_2[H^+]^2}{1+K_1[H^+]+K_1K_2[H^+]^2} \qquad \text{Equation 3.9}$$

$$F_S = \frac{1}{1+K_1[H^+]+K_1K_2[H^+]^2} \qquad \text{Equation 3.10}$$

Where: F_{HS} = Fraction of total sulfide as HS^-

F_{H2S} = Fraction of total sulfide as H_2S

F_S = Fraction of total sulfide as S^{2-}

The fraction of each sulfide species calculated by these equations with pKa1 = 7.04 and pKa = 11.96 is shown in Figure 3.2.

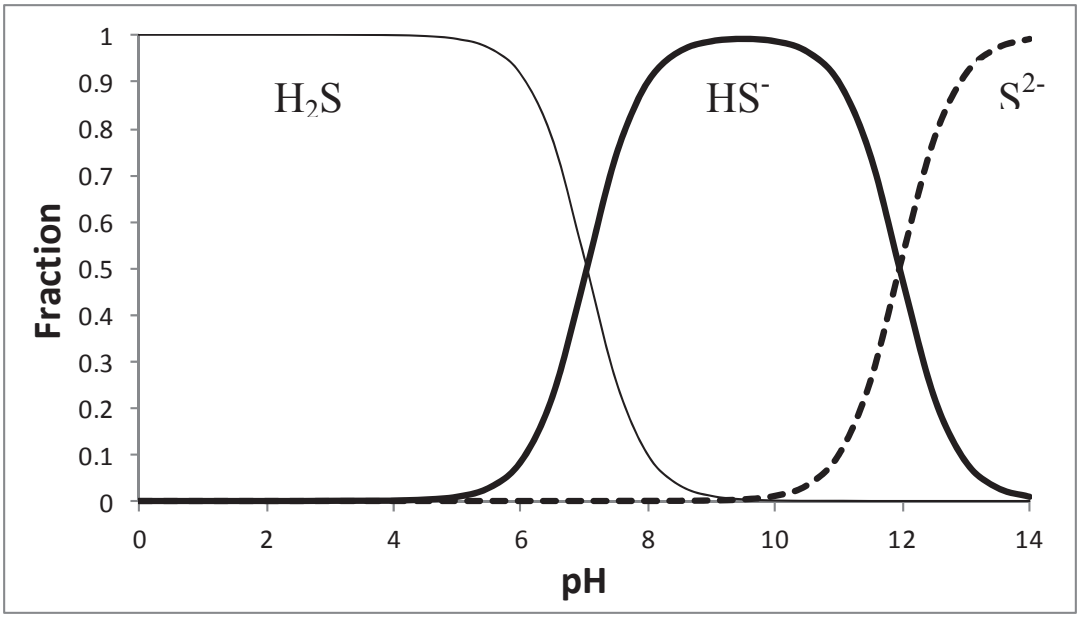

Figure 3.2 Fraction of Sulfide Species as a Function of Wastewater pH

The fractions of each sulfide species are calculated internally by H2SSIM and used to define the concentration of each dissociated form as a function of pH and total sulfide concentration. A critical use of these fractions is calculating the amount of sulfide available to volatilize to the atmosphere as H_2S (i.e., the volatilization term in Equation 3.2).

3.3 Generation of Sulfide in Wastewater

Sulfide can be generated in wastewater when conditions are favorable. These conditions include sufficient concentration of the reactants and an anoxic (i.e., dissolved oxygen is near zero) environment. A quantitative expression relating the sulfide generation rate to temperature, sulfate concentration, and oxygen concentration in pulp and paper wastewaters has been developed based on laboratory batch reactor experiments. The technical details of that study and subsequent equation development are reported in Appendix A.

The expression for sulfide generation in pulp and paper wastewaters is presented in Equation 3.11.

$$R_1 = k_{gen}\left(\frac{SO_4}{K_{SO_4} + SO_4}\right)\left(\frac{K_{DO}}{K_{DO} + DO}\right) \qquad \text{Equation 3.11}$$

Where: R_1 = Sulfide generation rate (M/L^3T)
SO_4 = Sulfate concentration (M/L^3)
DO = Dissolved oxygen concentration (M/L^3)
k_{gen} = Generation rate coefficient at 20 °C (M/L^3T)
K_{SO4} = Sulfate half saturation coefficient (M/L^3)
K_{DO} = Oxygen half saturation coefficient (M/L^3)

Equation 3.11 states that the rate of sulfide generation is proportional to an empirical rate coefficient and may be limited by low sulfate concentrations or the presence of oxygen.

The rate of sulfide generation is also affected by temperature. The optimal temperature for sulfate reducing bacteria has been reported as 25 to 35°C. The temperature correction should account for bacterial inhibition at temperatures greater than 35°C as in Equations 3.12 and 3.13.

When the wastewater temperature is 35°C or less, the model uses

$$k_{\mathrm{Temp}} = k_{20}\theta^{Temp-20} \qquad \text{Equation 3.12}$$

Where θ = Temperature coefficient
k_{Temp} = Rate coefficient at actual temperature
k_{20} = rate coefficient at 20°
Temp = Temperature °C

When the wastewater temperature is greater than 35°C, the model uses

$$k_{Temp} = k_{20}\theta^{15} * \theta_2^{Temp-35} \qquad \text{Equation 3.13}$$

Where: θ_2 = Second temperature coefficient

The overall effect of Equations 3.12 and 3.13 is an increasing rate coefficient up to 35 °C. As temperatures increase further, the rate coefficient decreases. Details concerning Equation 3.13 can be found in NCASI (1985b).

3.4 Sulfide Oxidation

Sulfide is oxidized rapidly to sulfate and several intermediate sulfur species when exposed to aerobic conditions. A commonly used sulfide oxidation rate equation was found to adequately describe sulfide oxidation data from pulp and paper mill wastewaters (Palumbo, Brown, and Stratton 2010). This equation is presented here as Equation 3.14.

$$R_2 = k_{ox} S_{-II}{}^{m} (DO)^{n} \qquad \text{Equation 3.14}$$

Where: R_2 = Rate of sulfide oxidation (M/L^3T)
k_{ox} = Aerobic sulfide oxidation coefficient (T^{-1})
S_{-II} = Sulfide concentration (M/L)
DO = Dissolved oxygen concentration (M/L)
m = order of reaction with respect to sulfide (-)
n = order of reaction with respect to oxygen (-)

The sulfide oxidation rate changes as a function of pH. This change is represented in the model through a varying oxidation rate coefficient. The relationship between the rate coefficient and pH is shown in Equation 3.15. The derivation of Equation 3.15 is described in Appendix B.

$$k_{ox} = 7.16 * (1 - \exp(-0.84 * (pH - 6.15)) \qquad \text{Equation 3.15}$$

In Equation 3.15, it is assumed that the oxidation rate coefficient is zero below a pH value of 6.15.

When oxygen is absent, sulfide is more slowly oxidized in wastewaters. The rate of sulfide oxidation under anoxic conditions can be modeled using a modification of Equation 3.14. The development of this equation is presented in Appendix B.

$$R_2 = k_{anox} S_{-II}^{m} \qquad \text{Equation 3.16}$$

Where k_{anox} = Anoxic sulfide oxidation rate coefficient (T^{-1})

```
      Type of unit is
      1 Total water added at the unit (l/s)      50     0
      2 Area of openings at unit (cm2)                  50
      3 Radius of drop pipe (cm)                        5
      4 Drop length to conduit (cm)                     61
      5 Humidity of inlet air (%)                       40
      6 Temperature of air (C)                          25
      7 Drain air velocity (ft/min)                     84
      8 manhole air velocity (ft/min)                   128
      9 Conduit air velocity (ft/min)                   66
      10 Wind speed (cm/s at 10 m)                      447
      11 distance to next unit (cm)                     500
      12 slope of underflow conduit                     .015
      13 friction factor liquid                         .016
      14 friction factor gas                            .006
      15 radius of underflow conduit (cm)               12
      16 Underflow T (C)                                25
      17 oscillation cycle time (min)                   5
      18 design collection velocities  (ft/s)           2
      19 design branch line fraction full               .4

      Type of unit is
      8 HL partition flag=1, adjust for sorption        0
      9 unit recycle convergence number                 200
      10 oil molecular weight                           0
      11 oil density  (g/cc)                            0
      12 NaUT 1=municipal 2=industrial  3=turb.         0
      13 NaUT 1=mass tr. 2=equil                        0
      14 parts biomass per 1000 parts COD
      15 oil water partition method 0=owpc
      16 use UNIFAC aqueous data base =1
      17 specify mass transfer for unit, =1
      18 Use biomass for unit option, =1
      19 biogrowth Monod half concentration ppm

      DETAILED CALCULATIONS at Unit 10 def.open trench
      Type: open trench
        Project C:\Users\akelley\Desktop\Water9\October 5
Comments Run\RSK Holding Pond\IPT Holding Pond Oct 5 Response
10/4/2021 8:09:56 PM  22:29:24
      COMPOUND: DIMETHYL DISULFIDE

      Type of unit is open trench
      1 Description of unit                       10    def.open
trench
      2 Underflow T (C)                                 31.6
      3 Total water added at the unit (l/s)             0
      8 Subsurface entrance=1                           0
      9 subsurface exit =1                              0
      10 width of trench (m)                            3.65
```

```
      11 distance to next unit (cm)                    50000
      12 slope of underflow conduit                    0.015
      13 depth  of trench (m)                          3
      19 pH  (enter 0 for no pH adjustment)            7.47

      Trench model for mass transfer from a surface.
       The effective depth of water flow (h) is 0.44324 ft.
       The water flow rate is 9.505e+05 cm3/s.
       The velocity of the flow (v)is 6.32388 ft/s.
       The width of the unit is 365. cm.
       The oxygen diffusion coefficient (ratio) adjustment factor
is 0.55467.
       reareation constant(ft/day) = 21.6 * v ^ 0.67 / h ^ 0.85 *
Ratio
       The liquid phase mass transfer coefficient from surface is
2.904e-04 m/s.
      The Schmidt number is 1.72847.
      The friction velocity is 13.347 m/s
      kg is estimated as 0.005209 m/s.  Model: 3
      The slope of the U drain is 0.015
      The water velocity is 192.752 cm/s.  (6.32388 ft/s.)
      The depth of the water is 13.51 cm (5.51429 in.)
      Kl= 2.904e-04 m/s;  Kg=  5.208595E-03 m/s
      the ratio of the mass transfer to depth is
1.14422640253297E-03
      The residence time in the trench is  259.4007 sec.
      fraction emitted 0.25682
         fraction loss in waste1 drop to hub      0.
         fraction loss in waste2 drop to hub      0.
         fraction loss in waste3 drop to hub      0.
         fraction loss in collection hub drop     0.
         fraction loss in unit                    0.
         fraction loss in line run                0.25682
         component upstream of unit, g/s          0.001746
         mol fract. headspace upstream (y)        2.97e-08
         headspace at conduit discharge, y        0.
         headspace end of conduit (y)             0.
         mol fract. headspace vent base           0.
         headspace flow out vent (cc/s)           0.
         headspace flow down line (cc/s)          0.
         KG surface (m/s)                         0.005209
         KL surface (m/s)                         2.904e-04
         flow of waste down hub (l/s)             0.
         component flow in waste into unit (g/s)  0.
         total component into unit, g/s           0.001746
         TOTAL AIR EMISSIONS  (g/s)               4.484e-04
                          (Mg/year)               0.014142
         EMISSION FACTOR  (g/cm2-s)               2.457e-11
         UNIT EXIT CONCENTRATION (ppmw)           0.001365
      DETAILED CALCULATIONS at Unit 11 def.aerated biotre
      Type: aerated biotreatment
        Project C:\Users\akelley\Desktop\Water9\October 5
```

```
Comments Run\RSK Holding Pond\IPT Holding Pond Oct 5 Response
10/4/2021 8:09:56 PM  22:29:24
      COMPOUND: DIMETHYL DISULFIDE

      Type of unit is aerated biotreatment
      1 Description of unit                        11
def.aerated biotre
      2 Wastewater temperature   (C)                    30.4
      3 length of aeration unit (m)                     818
      4 width of aeration unit (m)                      475
      5 depth of aeration unit (m)                      8.5
      6 Area of agitation (each aerator,m2)             47
      7 Total number of agitators in the unit           2
      8 Power of agitation (each aerator,HP)            75
      9 Impeller diameter (cm)                          49.53
      10 Impeller rotation (RPM)                        1200
      11 Agitator mechanical efficiency                 0.83
      12 aerator effectiveness, alpha                   0.83
      13 if there is plug flow, enter 1                 0
      14 Overall biorate (mg/g bio-hr)                  19
      15 Aeration air flow (m3/s)                       0
      16 active biomass, aeration (g/l)                 0.3
      17 If covered, then enter 1                       0
      18 special input                                  0
      19 pH  (enter 0 for no pH adjustment)             7.56

      Properties of DIMETHYL DISULFIDE at 30.4 deg.C (86.7 deg.F)
         hl= 0.001437 atm-m3/mol      vp= 38.537 mmHg (0.74539
psia)
             79.85 y/x
             0.057737 g/L gas per g/L liquid
         Temperature adjustment factor = 1.046 ^(T-25), deg. C
         kl= 0. L/g-hr          dl= 1.028e-05 cm2/s  dv= 0.086185
cm2/s
      Compound flow rate from inlet water is 0.001298 g/s.
      Compound flow rate from inlet vent is 0. g/s.
      Compound flow rate from inlet duct is 0. g/s.
      Submerged aeration rate from inlet vent is 0. m3/s.
      Total submerged aeration is 0. m3/s.
      The residence time in the unit is 965.198 hr.
      ____Biomass production_______________
          The biomass production rate is 0.mg/hr. (0. mg/L)
          The fraction dissolved solids converted is 0. .
          The estimated biomass exit concentration is 0. mg/L.
      ________Quiescent wind shear surface___Springer_
      The fetch to depth ratio is 82.748.
      kl is estimated as 5.923e-06 m/s.
      kg is estimated as 0.005084 m/s.  Model: 2
      kg is estimated as 0.005084 m/s.  Model: 2
      The Schmidt number is 1.74044.
      The friction velocity is 31.28 m/s
      kg is estimated as 0.010834 m/s.  Model: 3
```

```
        _______Agitated surface_________________
      The rotation speed is 125.654 radians per second.
      The rotation factor NRW is 2.052e+06.
      The power number NPR is 7.881e-04.
      The rotation factor NFR is 797.027.
      kg (agitated)is estimated as 0.11443 m/s.
      kl (agitated)is estimated as 0.045752 m/s.
          The specified and growth biomass is 0.3 g/L.
       The effective KL (surface + diffused air) is 7.251e-06
m/s.
       The effective stripping time (surface + diffused air) is
1.954e+04 minutes. (325.645 hrs.)
       The pump mixing time is 5 x the pumping recirculaion time,
0. min.
       The ratio of the mixing to the striping (surface +
diffused air) is 0.
       The mean residence time is 5.791e+04 min. (965.198 hr.)
       The ratio of the pump mixing to the residence time is 0.
         KG aerated (m/s)                          0.11657
         KL aerated (m/s)                          0.045752
         KL OVERALL AERATED (m/s)                  0.00596
         KG quiescent (m/s)                        0.005179
         KL quiescent (m/s)                        5.923e-06
         KL OVERALL QUIESCENT (m/s)                5.81e-06
         KL OVERALL (m/s)                          7.251e-06
         air stripping time constant (min)         1.954e+04
         FRACTION SURFACE VOLATILIZED              0.002996
         FRACTION SUBMERGED VOLATILIZED            0.
         TOTAL FRACTION VOLATILIZED                0.002996
         FRACTION BIOLOGICALLY REMOVED             0.99599
         FRACTION ABSORBED                         0.
         TOTAL AIR EMISSIONS  (g/s)                3.888e-06
                            (Mg/year)              1.226e-04
         EMISSION FACTOR  (g/cm2-s)                1.001e-15
         UNIT EXIT CONCENTRATION (ppmw)            1.38e-06
      DETAILED CALCULATIONS at Unit 12 def.system exit st
      Type: system exit stream
        Project C:\Users\akelley\Desktop\Water9\October 5
Comments Run\RSK Holding Pond\IPT Holding Pond Oct 5 Response
10/4/2021 8:09:56 PM  22:29:24
      COMPOUND: DIMETHYL DISULFIDE

      Type of unit is system exit stream
      1 Description of unit                      12    def.system
exit st

         TOTAL AIR EMISSIONS  (g/s)                0.
                            (Mg/year)              0.
         EMISSION FACTOR  (g/cm2-s)                1.001e-15
         UNIT EXIT CONCENTRATION (ppmw)            1.38e-06
      DETAILED CALCULATIONS at Unit 13 default open hub d
      Type: open hub drain
```

```
        Project C:\Users\akelley\Desktop\Water9\October 5
Comments Run\RSK Holding Pond\IPT Holding Pond Oct 5 Response
10/4/2021 8:09:56 PM  22:29:24
      COMPOUND: DIMETHYL DISULFIDE

      Type of unit is open hub drain
      1 Description of unit                      13    default
open hub d
      2 Underflow T (C)                                31.6
      3 Total water added at the unit (l/s)            0
      4 Area of openings at unit (cm2)                 50
      5 Radius of drop pipe (cm)                       5
      6 Drop length to conduit (cm)                    61
      7 Open surface=1                                 0
      8 Subsurface entrance=1                          0
      9 subsurface exit =1                             0
      10 radius of underflow conduit (cm)              12
      11 distance to next unit (cm)                    500
      12 slope of underflow conduit                    0.015
      16 velocity air at drain opening (ft/min)        84
      17 municipal waste in conduit =1                 0
      18 Assume equilibrium in unit, =1                0
      19 pH  (enter 0 for no pH adjustment)            7.47

       Equilibrium partitioning in drain drop hub is assumed.
         Total drain flow is  950.489 l/s.
         Weight fraction down is  1.949E-09
         Gas concentration in  0 mol fraction.
         Gas flow  950.489 L/s
         Weight fraction out at base of drop is
1.83704940384407E-09
         fraction transferred in the drain drop from hub
is .05744
         fraction loss in waste1 drop to hub      0.
         fraction loss in waste2 drop to hub      0.
         fraction loss in waste3 drop to hub      0.
         fraction loss in collection hub drop     0.05744
         fraction loss in unit                    0.
         fraction loss in line run                -6.667e-08
         component upstream of unit, g/s          0.
         mol fract. headspace upstream (y)        0.
         headspace at conduit discharge, y        2.97e-08
         headspace end of conduit (y)             2.97e-08
         mol fract. headspace vent base           2.97e-08
         headspace flow out vent (cc/s)           -9.505e+05
         headspace flow down line (cc/s)          9.505e+05
         KG surface (m/s)                         1621.827
         KL surface (m/s)                         5.743e-09
         flow of waste down hub (l/s)             0.
         component flow in waste into unit (g/s)  0.001853
         total component into unit, g/s           0.001746
         TOTAL AIR EMISSIONS  (g/s)               0.
```

	(Mg/year)	0.
EMISSION FACTOR	(g/cm2-s)	1.001e-15
UNIT EXIT CONCENTRATION	(ppmw)	0.001837

```
      Type of unit is
      1 Total water added at the unit (l/s)      50     0
      2 Area of openings at unit (cm2)                  50
      3 Radius of drop pipe (cm)                        5
      4 Drop length to conduit (cm)                     61
      5 Humidity of inlet air (%)                       40
      6 Temperature of air (C)                          25
      7 Drain air velocity (ft/min)                     84
      8 manhole air velocity (ft/min)                   128
      9 Conduit air velocity (ft/min)                   66
      10 Wind speed (cm/s at 10 m)                      447
      11 distance to next unit (cm)                     500
      12 slope of underflow conduit                     .015
      13 friction factor liquid                         .016
      14 friction factor gas                            .006
      15 radius of underflow conduit (cm)               12
      16 Underflow T (C)                                25
      17 oscillation cycle time (min)                   5
      18 design collection velocities  (ft/s)           2
      19 design branch line fraction full               .4

      Type of unit is
      8 HL partition flag=1, adjust for sorption        0
      9 unit recycle convergence number                 200
      10 oil molecular weight                           0
      11 oil density  (g/cc)                            0
      12 NaUT 1=municipal 2=industrial  3=turb.         0
      13 NaUT 1=mass tr. 2=equil                        0
      14 parts biomass per 1000 parts COD
      15 oil water partition method 0=owpc
      16 use UNIFAC aqueous data base =1
      17 specify mass transfer for unit, =1
      18 Use biomass for unit option, =1
      19 biogrowth Monod half concentration ppm

      DETAILED CALCULATIONS at Unit 10 def.open trench
      Type: open trench
        Project C:\Users\akelley\Desktop\Water9\October 5
Comments Run\RSK Holding Pond\IPT Holding Pond Oct 5 Response
10/4/2021 8:09:56 PM  22:29:47
      COMPOUND: DIMETHYL SULFIDE  (DMS)

      Type of unit is open trench
      1 Description of unit                      10    def.open
trench
      2 Underflow T (C)                                31.6
      3 Total water added at the unit (l/s)            0
      8 Subsurface entrance=1                          0
      9 subsurface exit =1                             0
      10 width of trench (m)                           3.65
```

```
      11 distance to next unit (cm)                    50000
      12 slope of underflow conduit                    0.015
      13 depth  of trench (m)                          3
      19 pH  (enter 0 for no pH adjustment)            7.47

      Trench model for mass transfer from a surface.
       The effective depth of water flow (h) is 0.44324 ft.
       The water flow rate is 9.505e+05 cm3/s.
       The velocity of the flow (v)is 6.32388 ft/s.
       The width of the unit is 365. cm.
       The oxygen diffusion coefficient (ratio) adjustment factor
is 0.75312.
       reareation constant(ft/day) = 21.6 * v ^ 0.67 / h ^ 0.85 *
Ratio
       The liquid phase mass transfer coefficient from surface is
3.943e-04 m/s.
      The Schmidt number is 1.03042.
      The friction velocity is 13.347 m/s
      kg is estimated as 0.006957 m/s.  Model: 3
      The slope of the U drain is 0.015
      The water velocity is 192.752 cm/s.  (6.32388 ft/s.)
      The depth of the water is 13.51 cm (5.51429 in.)
      Kl= 3.943e-04 m/s;  Kg=  6.956951E-03 m/s
      the ratio of the mass transfer to depth is
1.9339408383684E-03
      The residence time in the trench is  259.4007 sec.
      fraction emitted 0.39448
         fraction loss in waste1 drop to hub      0.
         fraction loss in waste2 drop to hub      0.
         fraction loss in waste3 drop to hub      0.
         fraction loss in collection hub drop     0.
         fraction loss in unit                    0.
         fraction loss in line run                0.39448
         component upstream of unit, g/s          0.004224
         mol fract. headspace upstream (y)        1.911e-07
         headspace at conduit discharge, y        0.
         headspace end of conduit (y)             0.
         mol fract. headspace vent base           0.
         headspace flow out vent (cc/s)           0.
         headspace flow down line (cc/s)          0.
         KG surface (m/s)                         0.006957
         KL surface (m/s)                         3.943e-04
         flow of waste down hub (l/s)             0.
         component flow in waste into unit (g/s)  0.
         total component into unit, g/s           0.004224
         TOTAL AIR EMISSIONS  (g/s)               0.001666
                          (Mg/year)               0.052547
         EMISSION FACTOR  (g/cm2-s)               9.13e-11
         UNIT EXIT CONCENTRATION (ppmw)           0.002691
      DETAILED CALCULATIONS at Unit 11 def.aerated biotre
      Type: aerated biotreatment
        Project C:\Users\akelley\Desktop\Water9\October 5
```

```
Comments Run\RSK Holding Pond\IPT Holding Pond Oct 5 Response
10/4/2021 8:09:56 PM  22:29:47
      COMPOUND: DIMETHYL SULFIDE  (DMS)

      Type of unit is aerated biotreatment
      1 Description of unit                      11
def.aerated biotre
      2 Wastewater temperature   (C)                    30.4
      3 length of aeration unit (m)                    818
      4 width of aeration unit (m)                     475
      5 depth of aeration unit (m)                     8.5
      6 Area of agitation (each aerator,m2)            47
      7 Total number of agitators in the unit          2
      8 Power of agitation (each aerator,HP)           75
      9 Impeller diameter (cm)                         49.53
      10 Impeller rotation (RPM)                       1200
      11 Agitator mechanical efficiency                0.83
      12 aerator effectiveness, alpha                  0.83
      13 if there is plug flow, enter 1                0
      14 Overall biorate (mg/g bio-hr)                 19
      15 Aeration air flow (m3/s)                      0
      16 active biomass, aeration (g/l)                0.3
      17 If covered, then enter 1                      0
      18 special input                                 0
      19 pH  (enter 0 for no pH adjustment)            7.56

      Properties of DIMETHYL SULFIDE  (DMS) at 30.4 deg.C (86.7
deg.F)
         hl= 0.002556 atm-m3/mol      vp= 615.845 mmHg (11.912
psia)
             141.988 y/x
             0.10267 g/L gas per g/L liquid
         Temperature adjustment factor = 1.046 ^(T-25), deg. C
         kl= 0. L/g-hr          dl= 1.486e-05 cm2/s  dv= 0.14457
cm2/s
      Compound flow rate from inlet water is 0.002558 g/s.
      Compound flow rate from inlet vent is 0. g/s.
      Compound flow rate from inlet duct is 0. g/s.
      Submerged aeration rate from inlet vent is 0. m3/s.
      Total submerged aeration is 0. m3/s.
      The residence time in the unit is 965.198 hr.
      ____Biomass production_______________
          The biomass production rate is 0.mg/hr. (0. mg/L)
          The fraction dissolved solids converted is 0. .
          The estimated biomass exit concentration is 0. mg/L.
      _______Quiescent wind shear surface___Springer_
      The fetch to depth ratio is 82.748.
      kl is estimated as 7.572e-06 m/s.
      kg is estimated as 0.007189 m/s.  Model: 2
      kg is estimated as 0.007189 m/s.  Model: 2
      The Schmidt number is 1.03756.
      The friction velocity is 31.28 m/s
```

```
      kg is estimated as 0.014912 m/s.  Model: 3
      _______Agitated surface_________________
      The rotation speed is 125.654 radians per second.
      The rotation factor NRW is 2.052e+06.
      The power number NPR is 7.881e-04.
      The rotation factor NFR is 797.027.
      kg (agitated)is estimated as 0.1482 m/s.
      kl (agitated)is estimated as 0.055007 m/s.
          The specified and growth biomass is 0.3 g/L.
       The effective KL (surface + diffused air) is 1.046e-05
m/s.
       The effective stripping time (surface + diffused air) is
1.354e+04 minutes. (225.655 hrs.)
       The pump mixing time is 5 x the pumping recirculaion time,
0. min.
       The ratio of the mixing to the striping (surface +
diffused air) is 0.
       The mean residence time is 5.791e+04 min. (965.198 hr.)
       The ratio of the pump mixing to the residence time is 0.
         KG aerated (m/s)                          0.15098
         KL aerated (m/s)                          0.055007
         KL OVERALL AERATED (m/s)                  0.012264
         KG quiescent (m/s)                        0.007324
         KL quiescent (m/s)                        7.572e-06
         KL OVERALL QUIESCENT (m/s)                7.498e-06
         KL OVERALL (m/s)                          1.046e-05
         air stripping time constant (min)         1.354e+04
         FRACTION SURFACE VOLATILIZED              0.018853
         FRACTION SUBMERGED VOLATILIZED            0.
         TOTAL FRACTION VOLATILIZED                0.018853
         FRACTION BIOLOGICALLY REMOVED             0.97674
         FRACTION ABSORBED                         0.
         TOTAL AIR EMISSIONS  (g/s)                4.822e-05
                          (Mg/year)                0.001521
         EMISSION FACTOR  (g/cm2-s)                1.241e-14
         UNIT EXIT CONCENTRATION (ppmw)            1.186e-05
      DETAILED CALCULATIONS at Unit 12 def.system exit st
      Type: system exit stream
        Project C:\Users\akelley\Desktop\Water9\October 5
Comments Run\RSK Holding Pond\IPT Holding Pond Oct 5 Response
10/4/2021 8:09:56 PM  22:29:47
      COMPOUND: DIMETHYL SULFIDE  (DMS)

      Type of unit is system exit stream
      1 Description of unit                       12    def.system
exit st

         TOTAL AIR EMISSIONS  (g/s)                0.
                          (Mg/year)                0.
         EMISSION FACTOR  (g/cm2-s)                1.241e-14
         UNIT EXIT CONCENTRATION (ppmw)            1.186e-05
      DETAILED CALCULATIONS at Unit 13 default open hub d
```

```
      Type: open hub drain
        Project C:\Users\akelley\Desktop\Water9\October 5
Comments Run\RSK Holding Pond\IPT Holding Pond Oct 5 Response
10/4/2021 8:09:56 PM  22:29:47
      COMPOUND: DIMETHYL SULFIDE  (DMS)

      Type of unit is open hub drain
      1 Description of unit                      13    default
open hub d
      2 Underflow T (C)                                31.6
      3 Total water added at the unit (l/s)            0
      4 Area of openings at unit (cm2)                 50
      5 Radius of drop pipe (cm)                       5
      6 Drop length to conduit (cm)                    61
      7 Open surface=1                                 0
      8 Subsurface entrance=1                          0
      9 subsurface exit =1                             0
      10 radius of underflow conduit (cm)              12
      11 distance to next unit (cm)                    500
      12 slope of underflow conduit                    0.015
      16 velocity air at drain opening (ft/min)        84
      17 municipal waste in conduit =1                 0
      18 Assume equilibrium in unit, =1                0
      19 pH  (enter 0 for no pH adjustment)            7.47

       Equilibrium partitioning in drain drop hub is assumed.
         Total drain flow is  950.489 l/s.
         Weight fraction down is  4.919E-09
         Gas concentration in  0 mol fraction.
         Gas flow  950.489 L/s
         Weight fraction out at base of drop is
4.44393573700197E-09
         fraction transferred in the drain drop from hub
is .096577
         fraction loss in waste1 drop to hub      0.
         fraction loss in waste2 drop to hub      0.
         fraction loss in waste3 drop to hub      0.
         fraction loss in collection hub drop     0.096577
         fraction loss in unit                    0.
         fraction loss in line run                0.
         component upstream of unit, g/s          0.
         mol fract. headspace upstream (y)        0.
         headspace at conduit discharge, y        1.911e-07
         headspace end of conduit (y)             1.911e-07
         mol fract. headspace vent base           1.911e-07
         headspace flow out vent (cc/s)           -9.505e+05
         headspace flow down line (cc/s)          9.505e+05
         KG surface (m/s)                         2290.047
         KL surface (m/s)                         7.434e-09
         flow of waste down hub (l/s)             0.
         component flow in waste into unit (g/s)  0.004675
         total component into unit, g/s           0.004224
```

TOTAL AIR EMISSIONS (g/s)	0.
(Mg/year)	0.
EMISSION FACTOR (g/cm2-s)	1.241e-14
UNIT EXIT CONCENTRATION (ppmw)	0.004444

```
      Type of unit is
      1 Total water added at the unit (l/s)      50     0
      2 Area of openings at unit (cm2)                  50
      3 Radius of drop pipe (cm)                        5
      4 Drop length to conduit (cm)                     61
      5 Humidity of inlet air (%)                       40
      6 Temperature of air (C)                          25
      7 Drain air velocity (ft/min)                     84
      8 manhole air velocity (ft/min)                   128
      9 Conduit air velocity (ft/min)                   66
      10 Wind speed (cm/s at 10 m)                      447
      11 distance to next unit (cm)                     500
      12 slope of underflow conduit                     .015
      13 friction factor liquid                         .016
      14 friction factor gas                            .006
      15 radius of underflow conduit (cm)               12
      16 Underflow T (C)                                25
      17 oscillation cycle time (min)                   5
      18 design collection velocities  (ft/s)           2
      19 design branch line fraction full               .4

      Type of unit is
      8 HL partition flag=1, adjust for sorption        0
      9 unit recycle convergence number                 200
      10 oil molecular weight                           0
      11 oil density  (g/cc)                            0
      12 NaUT 1=municipal 2=industrial  3=turb.         0
      13 NaUT 1=mass tr. 2=equil                        0
      14 parts biomass per 1000 parts COD
      15 oil water partition method 0=owpc
      16 use UNIFAC aqueous data base =1
      17 specify mass transfer for unit, =1
      18 Use biomass for unit option, =1
      19 biogrowth Monod half concentration ppm

      DETAILED CALCULATIONS at Unit 10 def.open trench
      Type: open trench
        Project C:\Users\akelley\Desktop\Water9\October 5
Comments Run\RSK Holding Pond\IPT Holding Pond Oct 5 Response
10/4/2021 8:09:56 PM  22:30:27
      COMPOUND: METHANETHIOL(methyl mercaptan)

      Type of unit is open trench
      1 Description of unit                      10    def.open
trench
      2 Underflow T (C)                                31.6
      3 Total water added at the unit (l/s)            0
      8 Subsurface entrance=1                          0
      9 subsurface exit =1                             0
      10 width of trench (m)                           3.65
```

```
      11 distance to next unit (cm)                    50000
      12 slope of underflow conduit                    0.015
      13 depth  of trench (m)                          3
      19 pH  (enter 0 for no pH adjustment)            7.47

      Trench model for mass transfer from a surface.
       The effective depth of water flow (h) is 0.44324 ft.
       The water flow rate is 9.505e+05 cm3/s.
       The velocity of the flow (v)is 6.32388 ft/s.
       The width of the unit is 365. cm.
       The oxygen diffusion coefficient (ratio) adjustment factor
is 0.76167.
       reareation constant(ft/day) = 21.6 * v ^ 0.67 / h ^ 0.85 *
Ratio
       The liquid phase mass transfer coefficient from surface is
3.988e-04 m/s.
      The Schmidt number is 0.64189.
      The friction velocity is 13.347 m/s
      kg is estimated as 0.009184 m/s.  Model: 3
      The slope of the U drain is 0.015
      The water velocity is 192.752 cm/s.  (6.32388 ft/s.)
      The depth of the water is 13.51 cm (5.51429 in.)
      Kl= 3.988e-04 m/s;  Kg=  9.18442E-03 m/s
      the ratio of the mass transfer to depth is
2.32502892978858E-03
      The residence time in the trench is  259.4007 sec.
      fraction emitted 0.45289
         fraction loss in waste1 drop to hub      0.
         fraction loss in waste2 drop to hub      0.
         fraction loss in waste3 drop to hub      0.
         fraction loss in collection hub drop     0.
         fraction loss in unit                    0.
         fraction loss in line run                0.45289
         component upstream of unit, g/s          8.157e-04
         mol fract. headspace upstream (y)        6.898e-08
         headspace at conduit discharge, y        0.
         headspace end of conduit (y)             0.
         mol fract. headspace vent base           0.
         headspace flow out vent (cc/s)           0.
         headspace flow down line (cc/s)          0.
         KG surface (m/s)                         0.009184
         KL surface (m/s)                         3.988e-04
         flow of waste down hub (l/s)             0.
         component flow in waste into unit (g/s)  0.
         total component into unit, g/s           8.157e-04
         TOTAL AIR EMISSIONS  (g/s)               3.694e-04
                          (Mg/year)               0.011651
         EMISSION FACTOR  (g/cm2-s)               2.024e-11
         UNIT EXIT CONCENTRATION (ppmw)           4.695e-04
      DETAILED CALCULATIONS at Unit 11 def.aerated biotre
      Type: aerated biotreatment
        Project C:\Users\akelley\Desktop\Water9\October 5
```

```
Comments Run\RSK Holding Pond\IPT Holding Pond Oct 5 Response
10/4/2021 8:09:56 PM  22:30:27
      COMPOUND: METHANETHIOL(methyl mercaptan)

      Type of unit is aerated biotreatment
      1 Description of unit                      11
def.aerated biotre
      2 Wastewater temperature   (C)                    30.4
      3 length of aeration unit (m)                    818
      4 width of aeration unit (m)                     475
      5 depth of aeration unit (m)                     8.5
      6 Area of agitation (each aerator,m2)            47
      7 Total number of agitators in the unit          2
      8 Power of agitation (each aerator,HP)           75
      9 Impeller diameter (cm)                         49.53
      10 Impeller rotation (RPM)                       1200
      11 Agitator mechanical efficiency                0.83
      12 aerator effectiveness, alpha                  0.83
      13 if there is plug flow, enter 1                0
      14 Overall biorate (mg/g bio-hr)                 19
      15 Aeration air flow (m3/s)                      0
      16 active biomass, aeration (g/l)                0.3
      17 If covered, then enter 1                      0
      18 special input                                 0
      19 pH  (enter 0 for no pH adjustment)            7.56

      Properties of METHANETHIOL(methyl mercaptan) at 30.4 deg.C
(86.7 deg.F)
         hl= 0.00373 atm-m3/mol      vp= 2038.439 mmHg (39.428
psia)
             207.231 y/x
             0.14984 g/L gas per g/L liquid
         Temperature adjustment factor = 1.046 ^(T-25), deg. C
         kl= 0. L/g-hr          dl= 1.507e-05 cm2/s  dv= 0.23208
cm2/s
      Compound flow rate from inlet water is 4.463e-04 g/s.
      Compound flow rate from inlet vent is 0. g/s.
      Compound flow rate from inlet duct is 0. g/s.
      Submerged aeration rate from inlet vent is 0. m3/s.
      Total submerged aeration is 0. m3/s.
      The residence time in the unit is 965.198 hr.
      ____Biomass production_______________
          The biomass production rate is 0.mg/hr. (0. mg/L)
          The fraction dissolved solids converted is 0. .
          The estimated biomass exit concentration is 0. mg/L.
      ________Quiescent wind shear surface___Springer_
      The fetch to depth ratio is 82.748.
      kl is estimated as 7.641e-06 m/s.
      kg is estimated as 0.009872 m/s.  Model: 2
      kg is estimated as 0.009872 m/s.  Model: 2
      The Schmidt number is 0.64634.
      The friction velocity is 31.28 m/s
```

```
      kg is estimated as 0.020108 m/s.  Model: 3
      _______Agitated surface_________________
      The rotation speed is 125.654 radians per second.
      The rotation factor NRW is 2.052e+06.
      The power number NPR is 7.881e-04.
      The rotation factor NFR is 797.027.
      kg (agitated)is estimated as 0.18777 m/s.
      kl (agitated)is estimated as 0.055383 m/s.
          The specified and growth biomass is 0.3 g/L.
       The effective KL (surface + diffused air) is 1.223e-05
m/s.
       The effective stripping time (surface + diffused air) is
1.159e+04 minutes. (193.128 hrs.)
       The pump mixing time is 5 x the pumping recirculaion time,
0. min.
       The ratio of the mixing to the striping (surface +
diffused air) is 0.
       The mean residence time is 5.791e+04 min. (965.198 hr.)
       The ratio of the pump mixing to the residence time is 0.
         KG aerated (m/s)                          0.19129
         KL aerated (m/s)                          0.055383
         KL OVERALL AERATED (m/s)                  0.019113
         KG quiescent (m/s)                        0.010057
         KL quiescent (m/s)                        7.641e-06
         KL OVERALL QUIESCENT (m/s)                7.604e-06
         KL OVERALL (m/s)                          1.223e-05
         air stripping time constant (min)         1.159e+04
         FRACTION SURFACE VOLATILIZED              0.034475
         FRACTION SUBMERGED VOLATILIZED            0.
         TOTAL FRACTION VOLATILIZED                0.034475
         FRACTION BIOLOGICALLY REMOVED             0.95863
         FRACTION ABSORBED                         0.
         TOTAL AIR EMISSIONS  (g/s)                1.539e-05
                          (Mg/year)                4.852e-04
         EMISSION FACTOR  (g/cm2-s)                3.96e-15
         UNIT EXIT CONCENTRATION (ppmw)            3.239e-06
      DETAILED CALCULATIONS at Unit 12 def.system exit st
      Type: system exit stream
        Project C:\Users\akelley\Desktop\Water9\October 5
Comments Run\RSK Holding Pond\IPT Holding Pond Oct 5 Response
10/4/2021 8:09:56 PM  22:30:27
      COMPOUND: METHANETHIOL(methyl mercaptan)

      Type of unit is system exit stream
      1 Description of unit                       12    def.system
exit st

         TOTAL AIR EMISSIONS  (g/s)                0.
                          (Mg/year)                0.
         EMISSION FACTOR  (g/cm2-s)                3.96e-15
         UNIT EXIT CONCENTRATION (ppmw)            3.239e-06
      DETAILED CALCULATIONS at Unit 13 default open hub d
```

```
      Type: open hub drain
        Project C:\Users\akelley\Desktop\Water9\October 5
Comments Run\RSK Holding Pond\IPT Holding Pond Oct 5 Response
10/4/2021 8:09:56 PM  22:30:27
      COMPOUND: METHANETHIOL(methyl mercaptan)

      Type of unit is open hub drain
      1 Description of unit                      13    default
open hub d
      2 Underflow T (C)                                31.6
      3 Total water added at the unit (l/s)            0
      4 Area of openings at unit (cm2)                 50
      5 Radius of drop pipe (cm)                       5
      6 Drop length to conduit (cm)                    61
      7 Open surface=1                                 0
      8 Subsurface entrance=1                          0
      9 subsurface exit =1                             0
      10 radius of underflow conduit (cm)              12
      11 distance to next unit (cm)                    500
      12 slope of underflow conduit                    0.015
      16 velocity air at drain opening (ft/min)        84
      17 municipal waste in conduit =1                 0
      18 Assume equilibrium in unit, =1                0
      19 pH  (enter 0 for no pH adjustment)            7.47

       Equilibrium partitioning in drain drop hub is assumed.
         Total drain flow is  950.489 l/s.
         Weight fraction down is  9.909999E-10
         Gas concentration in  0 mol fraction.
         Gas flow  950.489 L/s
         Weight fraction out at base of drop is
8.58241983977018E-10
         fraction transferred in the drain drop from hub
is .133964
         fraction loss in waste1 drop to hub      0.
         fraction loss in waste2 drop to hub      0.
         fraction loss in waste3 drop to hub      0.
         fraction loss in collection hub drop     0.13396
         fraction loss in unit                    0.
         fraction loss in line run                0.
         component upstream of unit, g/s          0.
         mol fract. headspace upstream (y)        0.
         headspace at conduit discharge, y        6.898e-08
         headspace end of conduit (y)             6.898e-08
         mol fract. headspace vent base           6.898e-08
         headspace flow out vent (cc/s)           -9.505e+05
         headspace flow down line (cc/s)          9.505e+05
         KG surface (m/s)                         3140.126
         KL surface (m/s)                         7.505e-09
         flow of waste down hub (l/s)             0.
         component flow in waste into unit (g/s)  9.419e-04
         total component into unit, g/s           8.157e-04
```

TOTAL AIR EMISSIONS	(g/s)	0.
	(Mg/year)	0.
EMISSION FACTOR	(g/cm2-s)	3.96e-15
UNIT EXIT CONCENTRATION	(ppmw)	8.582e-04

Table A-39
Water9 Inputs - Post-ASB
New-Indy Catawba - Catawba, SC

Sources	Variable	Value	Unit	Source
Post-ASB	Wastewater Temperature	28.9	C	Average Post-ASB Influent Temperature during IPT (7/9-11/2021)
	Length of Aeration Basin	18.3	m	Estimated based on Google Earth and drone footage (when available)
	Width of Aeration Basin	12.2	m	Estimated based on Google Earth and drone footage (when available)
	Depth of Aeration Basin	4.6	m	Estimated based on site-specific data
	Area of Agitation	47	m^2	Water9 Default
	Total number of Agitators	1		
	Power of Agitation	75	HP	Aerator Design
	Impeller Diameter	49.53	cm	Aerator Design
	Impeller Rotation	1200	rpm	Water9 Default
	Agitator Mechanical Efficiency	0.83		Water9 Default
	Aerator Effectiveness, alpha	0.83		Water9 Default
	Overall Biorate	19	mg/g bio-hr	Water9 Default
	Aeration Flow rate		m^3/s	
	Active Biomass, aeration	0.3	g/l	Water9 Default
	pH	7.86		Average Post-ASB Influent pH during IPT (7/9-11/2021)

Table A-39
Water9 Inputs - Post-ASB
New-Indy Catawba - Catawba, SC

Sources	Variable	Value	Unit	Source
Diffused Air	Wastewater Temperature	28.9	C	Average Post-ASB Influent Temperature during IPT (7/9-11/2021)
	Length of Aeration Basin	17.9	m	Calculated by subtracting area of agitation from aerator from area of Post-ASB
	Width of Aeration Basin	9.9	m	Calculated by subtracting area of agitation from aerator from area of Post-ASB
	Depth of Aeration Basin	4.6	m	Estimated based on site-specific data
	Fraction of surface agitated by air	1		100% agitation based on aerial
	Fraction of surface quiescent	0		100% agitation based on aerial
	Overall Biorate	19	mg/g bio-hr	Water9 Default
	Aeration air flow		m^3/s	
	Activated sludge biomass	2	g/l	Water9 Default
	pH	7.86		Average Post-ASB Influent pH during IPT (7/9-11/2021)

NCASI WASTEWATER HYDROGEN SULFIDE EMISSIONS SIMULATOR (H2SSIM)

Version 1.3

7/9/2021

Data Type 1. Site Identification

Company Name	New-Indy
Facility Name	Catawba SC
Basin Name	Post ASB Tank

Data Type 2. Model Zone Information

Number of Zones	1
Zone Location of Hardpipe	None
Type of Basin	ASB

Data Type 3. Load Characteristics

Loading Characteristics	Main Influent	Hardpipe	Units
Flow	25.1	0	MGD
Total Sulfide	0.0025	0	mg/L
Sulfate	390	0	mg/L

Data Type 4. Atmospheric Conditions

Windspeed	3.79	mph
Ambient Temperature	79	F

Data Type 5. Zone Physical and Chemical Conditions

Zone Condition	Zone 1	Zone 2	Zone 3	Zone 4	Units
Dissolved Oxygen	0.25				mg/L
Temperature	85.2				F
pH	7.67				s.u.
Redox Condition	Aerobic	Aerobic	Aerobic	Aerobic	
Length	60				feet
Width	40				feet
Depth	15				feet
Mixing	High	Moderat	Moderat		
Number of Aerators	3				
Total Horsepower	234				HP
Impellor Size	1.625				feet
Impellor RPM	1200				RPM
Diffused Air Flow	0				cms
Weir Height	0				meters

Model Controls

Run H2SSIM

View Parameters

Clear Input Sheet

H2SSIM Results 7/9/2021

Basin Emissions		Units
Total Emissions (H_2S)	0.002	gms/s
Total Emissions (H_2S)	152.1	lbs/yr
Total Emissions (H_2S)	0.1	tons/yr
Total Emissions (H_2S)	0.1	tonnes/yr
Emission Flux (H_2S)	309.3	gms/m^2 yr

Zone Emissions	Zone 1	Zone 2	Zone 3	Zone 4	Units
Zone Emissions (H_2S)	0.00				gms/s
Zone Emissions (H_2S)	152.1				lbs/yr
Emission Flux (H_2S)	309.3				gms/m^2 yr
Liquid Conc. (Total Sulfide)	0.007				mg/L
Liquid Sulfide Load (lbs/yr)	87.100				lbs/yr

Percent Inlet Sulfide Removed	-25.2%

Current Parameters	
kgen	0.25
ThetaGen	1.06
KDO	0.05
KSO4	10
kanox	0.006
ThetaOx	1.05
m	1
n	0.2
MLVSS	2500
O_2 Transfer Coeff.	1.24
alpha 1	0.83
alpha 2	0.6

NCASI WASTEWATER HYDROGEN SULFIDE EMISSIONS SIMULATOR (H2SSIM)

Version 1.3

7/10/2021

Data Type 1. Site Identification

Company Name	New-Indy
Facility Name	Catawba SC
Basin Name	Post ASB Tank

Data Type 2. Model Zone Information

Number of Zones	1
Zone Location of Hardpipe	None
Type of Basin	ASB

Data Type 3. Load Characteristics

Loading Characteristics	Main Influent	Hardpipe	Units
Flow	24.7	0	MGD
Total Sulfide	0.00083	0	mg/L
Sulfate	390	0	mg/L

Data Type 4. Atmospheric Conditions

Windspeed	3.79	mph
Ambient Temperature	79	F

Data Type 5. Zone Physical and Chemical Conditions

Zone Condition	Zone 1	Zone 2	Zone 3	Zone 4	Units
Dissolved Oxygen	0.53				mg/L
Temperature	84.5				F
pH	7.69				s.u.
Redox Condition	Aerobic	Aerobic	Aerobic	Aerobic	
Length	60				feet
Width	40				feet
Depth	15				feet
Mixing	High	Moderat	Moderat		
Number of Aerators	3				
Total Horsepower	234				HP
Impellor Size	1.625				feet
Impellor RPM	1200				RPM
Diffused Air Flow	0				cms
Weir Height	0				meters

Model Controls

Run H2SSIM

View Parameters

Clear Input Sheet

H2SSIM Results 7/10/2021

Basin Emissions		Units
Total Emissions (H_2S)	0.001	gms/s
Total Emissions (H_2S)	68.0	lbs/yr
Total Emissions (H_2S)	0.0	tons/yr
Total Emissions (H_2S)	0.0	tonnes/yr
Emission Flux (H_2S)	138.3	gms/m^2 yr

Zone Emissions	Zone 1	Zone 2	Zone 3	Zone 4	Units
Zone Emissions (H_2S)	0.00				gms/s
Zone Emissions (H_2S)	68.0				lbs/yr
Emission Flux (H_2S)	138.3				gms/m^2 yr
Liquid Conc. (Total Sulfide)	0.003				mg/L
Liquid Sulfide Load (lbs/yr)	38.700				lbs/yr

Percent Inlet Sulfide Removed	-70.9%

Current Parameters	
kgen	0.25
ThetaGen	1.06
KDO	0.05
KSO4	10
kanox	0.006
ThetaOx	1.05
m	1
n	0.2
MLVSS	2500
O_2 Transfer Coeff.	1.24
alpha 1	0.83
alpha 2	0.6

NCASI WASTEWATER HYDROGEN SULFIDE EMISSIONS SIMULATOR (H2SSIM)

Version 1.3

7/11/2021

Data Type 1. Site Identification

Company Name	New-Indy
Facility Name	Catawba SC
Basin Name	Post ASB Tank

Data Type 2. Model Zone Information

Number of Zones	1
Zone Location of Hardpipe	None
Type of Basin	ASB

Data Type 3. Load Characteristics

Loading Characteristics	Main Influent	Hardpipe	Units
Flow	19.3	0	MGD
Total Sulfide	0.0018	0	mg/L
Sulfate	390	0	mg/L

Data Type 4. Atmospheric Conditions

Windspeed	3.79	mph
Ambient Temperature	79	F

Data Type 5. Zone Physical and Chemical Conditions

Zone Condition	Zone 1	Zone 2	Zone 3	Zone 4	Units
Dissolved Oxygen	3.68				mg/L
Temperature	84.5				F
pH	7.6				s.u.
Redox Condition	Aerobic	Aerobic	Aerobic	Aerobic	
Length	60				feet
Width	40				feet
Depth	15				feet
Mixing	High	Moderat	Moderat		
Number of Aerators	3				
Total Horsepower	234				HP
Impellor Size	1.625				feet
Impellor RPM	1200				RPM
Diffused Air Flow	0				cms
Weir Height	0				meters

Model Controls

Run H2SSIM

View Parameters

Clear Input Sheet

H2SSIM Results 7/11/2021

Basin Emissions		Units
Total Emissions (H_2S)	0.000	gms/s
Total Emissions (H_2S)	21.9	lbs/yr
Total Emissions (H_2S)	0.0	tons/yr
Total Emissions (H_2S)	0.0	tonnes/yr
Emission Flux (H_2S)	44.7	gms/m^2 yr

Zone Emissions	Zone 1	Zone 2	Zone 3	Zone 4	Units
Zone Emissions (H_2S)	0.00				gms/s
Zone Emissions (H_2S)	21.9				lbs/yr
Emission Flux (H_2S)	44.7				gms/m^2 yr
Liquid Conc. (Total Sulfide)	0.001				mg/L
Liquid Sulfide Load (lbs/yr)	7.100				lbs/yr

Percent Inlet Sulfide Removed	72.6%

Current Parameters	
kgen	0.25
ThetaGen	1.06
KDO	0.05
KSO4	10
kanox	0.006
ThetaOx	1.05
m	1
n	0.2
MLVSS	2500
O_2 Transfer Coeff.	1.24
alpha 1	0.83
alpha 2	0.6

```
      Type of unit is
      1 Total water added at the unit (l/s)      50     0
      2 Area of openings at unit (cm2)                  50
      3 Radius of drop pipe (cm)                        5
      4 Drop length to conduit (cm)                     61
      5 Humidity of inlet air (%)                       40
      6 Temperature of air (C)                          25
      7 Drain air velocity (ft/min)                     84
      8 manhole air velocity (ft/min)                   128
      9 Conduit air velocity (ft/min)                   66
      10 Wind speed (cm/s at 10 m)                      447
      11 distance to next unit (cm)                     500
      12 slope of underflow conduit                     .015
      13 friction factor liquid                         .016
      14 friction factor gas                            .006
      15 radius of underflow conduit (cm)               12
      16 Underflow T (C)                                25
      17 oscillation cycle time (min)                   5
      18 design collection velocities  (ft/s)           2
      19 design branch line fraction full               .4

      Type of unit is
      8 HL partition flag=1, adjust for sorption        0
      9 unit recycle convergence number                 200
      10 oil molecular weight                           0
      11 oil density  (g/cc)                            0
      12 NaUT 1=municipal 2=industrial  3=turb.         0
      13 NaUT 1=mass tr. 2=equil                        0
      14 parts biomass per 1000 parts COD
      15 oil water partition method 0=owpc
      16 use UNIFAC aqueous data base =1
      17 specify mass transfer for unit, =1
      18 Use biomass for unit option, =1
      19 biogrowth Monod half concentration ppm

      DETAILED CALCULATIONS at Unit 11 def.aerated biotre
      Type: aerated biotreatment
        Project C:\Users\akelley\Desktop\Water9\October 5
Comments Run\Post-ASB\Post ASB Oct 5 Response v2 10/4/2021
8:20:08 PM  22:31:17
      COMPOUND: DIMETHYL DISULFIDE

      Type of unit is aerated biotreatment
      1 Description of unit                      11
def.aerated biotre
      2 Wastewater temperature   (C)                   28.9
      3 length of aeration unit (m)                   18.3
      4 width of aeration unit (m)                    12.2
      5 depth of aeration unit (m)                    4.6
      6 Area of agitation (each aerator,m2)           47
```

```
      7 Total number of agitators in the unit          1
      8 Power of agitation (each aerator,HP)           75
      9 Impeller diameter (cm)                         49.53
      10 Impeller rotation (RPM)                       1200
      11 Agitator mechanical efficiency                0.83
      12 aerator effectiveness, alpha                  0.83
      13 if there is plug flow, enter 1                0
      14 Overall biorate (mg/g bio-hr)                 19
      15 Aeration air flow (m3/s)                      0
      16 active biomass, aeration (g/l)                0.3
      17 If covered, then enter 1                      0
      18 special input                                 0
      19 pH  (enter 0 for no pH adjustment)            7.86

      Properties of DIMETHYL DISULFIDE at 28.9 deg.C (84. deg.F)
         hl= 0.001336 atm-m3/mol      vp= 35.818 mmHg (0.6928
psia)
             74.216 y/x
             0.053929 g/L gas per g/L liquid
         Temperature adjustment factor = 1.046 ^(T-25), deg. C
         kl= 0. L/g-hr          dl= 1.023e-05 cm2/s  dv= 0.085441
cm2/s
      Compound flow rate from inlet water is 0.003822 g/s.
      Compound flow rate from inlet vent is 0. g/s.
      Compound flow rate from inlet duct is 0. g/s.
      Submerged aeration rate from inlet vent is 0. m3/s.
      Total submerged aeration is 0. m3/s.
      The residence time in the unit is 0.28269 hr.
      ____Biomass production_______________
          The biomass production rate is 0.mg/hr. (0. mg/L)
          The fraction dissolved solids converted is 0. .
          The estimated biomass exit concentration is 0. mg/L.
      ________Quiescent wind shear surface___Springer_
      Springer correlation does not apply, use Mackay and Yeun
(1983).
      The friction velocity is 13.347cm/s.
      The Schmidt number is 977.316.
      kl is estimated as 6.485e-06 m/s.
      kg is estimated as 0.007619 m/s.  Model: 2
      kg is estimated as 0.007619 m/s.  Model: 2
      The Schmidt number is 1.75559.
      The friction velocity is 31.28 m/s
      kg is estimated as 0.010777 m/s.  Model: 3
      ________Agitated surface___________________
      The rotation speed is 125.654 radians per second.
      The rotation factor NRW is 2.052e+06.
      The power number NPR is 7.881e-04.
      The rotation factor NFR is 797.027.
      kg (agitated)is estimated as 0.11393 m/s.
      kl (agitated)is estimated as 0.044043 m/s.
          The specified and growth biomass is 0.3 g/L.
       The effective KL (surface + diffused air) is 0.001172 m/s.
```

The effective stripping time (surface + diffused air) is 65.412 minutes. (1.09019 hrs.)
The pump mixing time is 5 x the pumping recirculaion time, 0. min.
The ratio of the mixing to the striping (surface + diffused air) is 0.
The mean residence time is 16.961 min. (0.28269 hr.)
The ratio of the pump mixing to the residence time is 0.

KG aerated (m/s)	0.11607
KL aerated (m/s)	0.044043
KL OVERALL AERATED (m/s)	0.005544
KG quiescent (m/s)	0.007762
KL quiescent (m/s)	6.485e-06
KL OVERALL QUIESCENT (m/s)	6.388e-06
KL OVERALL (m/s)	0.001172
air stripping time constant (min)	65.412
FRACTION SURFACE VOLATILIZED	0.16959
FRACTION SUBMERGED VOLATILIZED	0.
TOTAL FRACTION VOLATILIZED	0.16959
FRACTION BIOLOGICALLY REMOVED	0.17636
FRACTION ABSORBED	0.
TOTAL AIR EMISSIONS (g/s)	6.481e-04
(Mg/year)	0.020439
EMISSION FACTOR (g/cm2-s)	2.903e-10
UNIT EXIT CONCENTRATION (ppmw)	0.002477

DETAILED CALCULATIONS at Unit 14 default open hub d
Type: open hub drain
Project C:\Users\akelley\Desktop\Water9\October 5 Comments Run\Post-ASB\Post ASB Oct 5 Response v2 10/4/2021 8:20:08 PM 22:31:17
COMPOUND: DIMETHYL DISULFIDE

Type of unit is open hub drain

1 Description of unit	14	default open hub d
2 Underflow T (C)		29.3
3 Total water added at the unit (l/s)		0
4 Area of openings at unit (cm2)		50
5 Radius of drop pipe (cm)		5
6 Drop length to conduit (cm)		61
7 Open surface=1		0
8 Subsurface entrance=1		0
9 subsurface exit =1		0
10 radius of underflow conduit (cm)		12
11 distance to next unit (cm)		500
12 slope of underflow conduit		0.015
16 velocity air at drain opening (ft/min)		84
17 municipal waste in conduit =1		0
18 Assume equilibrium in unit, =1		0
19 pH (enter 0 for no pH adjustment)		7.65

Equilibrium partitioning in drain drop hub is assumed.

```
         Total drain flow is  1009.151 l/s.
         Weight fraction down is  3.994999E-09
         Gas concentration in  0 mol fraction.
         Gas flow  1009.151 L/s
         Weight fraction out at base of drop is
3.78699280644153E-09
         fraction transferred in the drain drop from hub
is .052067
         fraction loss in waste1 drop to hub      0.
         fraction loss in waste2 drop to hub      0.
         fraction loss in waste3 drop to hub      0.
         fraction loss in collection hub drop     0.052067
         fraction loss in unit                    0.
         fraction loss in line run                0.
         component upstream of unit, g/s          0.
         mol fract. headspace upstream (y)        0.
         headspace at conduit discharge, y        5.477e-08
         headspace end of conduit (y)             5.477e-08
         mol fract. headspace vent base           5.477e-08
         headspace flow out vent (cc/s)           -1.009e+06
         headspace flow down line (cc/s)          1.009e+06
         KG surface (m/s)                         1686.846
         KL surface (m/s)                         5.947e-09
         flow of waste down hub (l/s)             0.
         component flow in waste into unit (g/s)  0.004032
         total component into unit, g/s           0.003822
         TOTAL AIR EMISSIONS  (g/s)               2.099e-04
                            (Mg/year)             0.00662
         EMISSION FACTOR  (g/cm2-s)               2.903e-10
         UNIT EXIT CONCENTRATION (ppmw)           0.003787
      DETAILED CALCULATIONS at Unit 15 def.diffused air b
      Type: diffused air biotreatment
        Project C:\Users\akelley\Desktop\Water9\October 5
Comments Run\Post-ASB\Post ASB Oct 5 Response v2 10/4/2021
8:20:08 PM  22:31:17
      COMPOUND: DIMETHYL DISULFIDE

      Type of unit is diffused air biotreatment
      1 Description of unit                      15
def.diffused air b
      2 Wastewater temperature   (C)                  28.9
      3 length of aeration unit (m)                   17.9
      4 width of aeration unit (m)                    9.9
      5 depth of aeration unit (m)                    4.6
      6 fraction of surface agitated by air           1
      7 fraction of surface quiescent                 0
      13 if there is plug flow, enter 1               0
      14 Overall biorate (mg/g bio-hr)                19
      15 Aeration air flow (m3/s)                     0
      16 activated sludge biomass(g/l)                2
      17 If covered, then enter 1                     0
      18 special input                                0
```

```
      19 pH  (enter 0 for no pH adjustment)           7.86

      Properties of DIMETHYL DISULFIDE at 28.9 deg.C (84. deg.F)
         hl= 0.001336 atm-m3/mol      vp= 35.818 mmHg (0.6928
psia)
             74.216 y/x
             0.053929 g/L gas per g/L liquid
         Temperature adjustment factor = 1.046 ^(T-25), deg. C
         kl= 0. L/g-hr          dl= 1.023e-05 cm2/s  dv= 0.085441
cm2/s
      Compound flow rate from inlet water is 0.0025 g/s.
      Compound flow rate from inlet vent is 0. g/s.
      Compound flow rate from inlet duct is 0. g/s.
      Submerged aeration rate from inlet vent is 0. m3/s.
      Total submerged aeration is 0. m3/s.
      The residence time in the unit is 0.22438 hr.
      ____Biomass production_______________
          The biomass production rate is 0.mg/hr. (0. mg/L)
          The fraction dissolved solids converted is 0. .
          The estimated biomass exit concentration is 0. mg/L.
      ________Quiescent wind shear surface___Springer_
      Springer correlation does not apply, use Mackay and Yeun
(1983).
      The friction velocity is 13.347cm/s.
      The Schmidt number is 977.316.
      kl is estimated as 6.485e-06 m/s.
      kg is estimated as 0.007716 m/s.  Model: 2
      kg is estimated as 0.007716 m/s.  Model: 2
      The Schmidt number is 1.75559.
      The friction velocity is 28.484 m/s
      kg is estimated as 0.009902 m/s.  Model: 3
      ________Agitated surface___________________
      The rotation speed is 125.654 radians per second.
      The rotation factor NRW is 3.011e+06.
      The power number NPR is 6.188e-05.
      The rotation factor NFR is 965.508.
      kg (agitated)is estimated as 0.056285 m/s.
      kl (agitated)is estimated as 0.016945 m/s.
          The specified and growth biomass is 2. g/L.
       The effective KL (surface + diffused air) is 0.002644 m/s.
       The effective stripping time (surface + diffused air) is
28.996 minutes. (0.48326 hrs.)
       The pump mixing time is 5 x the pumping recirculaion time,
0. min.
       The ratio of the mixing to the striping (surface +
diffused air) is 0.
       The mean residence time is 13.463 min. (0.22438 hr.)
       The ratio of the pump mixing to the residence time is 0.
         KG aerated (m/s)                          0.05734
         KL aerated (m/s)                          0.016945
         KL OVERALL AERATED (m/s)                  0.002644
         KG quiescent (m/s)                        0.007861
```

```
         KL quiescent (m/s)                        6.485e-06
         KL OVERALL QUIESCENT (m/s)                6.389e-06
         KL OVERALL (m/s)                          0.002644
         air stripping time constant (min)         28.996
         FRACTION SURFACE VOLATILIZED              0.16057
         FRACTION SUBMERGED VOLATILIZED            0.
         TOTAL FRACTION VOLATILIZED                0.16057
         FRACTION BIOLOGICALLY REMOVED             0.4936
         FRACTION ABSORBED                         0.
         TOTAL AIR EMISSIONS  (g/s)                4.014e-04
                          (Mg/year)                0.012657
         EMISSION FACTOR  (g/cm2-s)                2.265e-10
         UNIT EXIT CONCENTRATION (ppmw)            8.566e-04
      DETAILED CALCULATIONS at Unit 17 def.system exit st
      Type: system exit stream
        Project C:\Users\akelley\Desktop\Water9\October 5
Comments Run\Post-ASB\Post ASB Oct 5 Response v2 10/4/2021
8:20:08 PM  22:31:17
      COMPOUND: DIMETHYL DISULFIDE

      Type of unit is system exit stream
      1 Description of unit                       17    def.system
exit st

         TOTAL AIR EMISSIONS  (g/s)                0.
                          (Mg/year)                0.
         EMISSION FACTOR  (g/cm2-s)                2.265e-10
         UNIT EXIT CONCENTRATION (ppmw)            8.566e-04
```

```
      Type of unit is
      1 Total water added at the unit (l/s)      50     0
      2 Area of openings at unit (cm2)                  50
      3 Radius of drop pipe (cm)                        5
      4 Drop length to conduit (cm)                     61
      5 Humidity of inlet air (%)                       40
      6 Temperature of air (C)                          25
      7 Drain air velocity (ft/min)                     84
      8 manhole air velocity (ft/min)                   128
      9 Conduit air velocity (ft/min)                   66
      10 Wind speed (cm/s at 10 m)                      447
      11 distance to next unit (cm)                     500
      12 slope of underflow conduit                     .015
      13 friction factor liquid                         .016
      14 friction factor gas                            .006
      15 radius of underflow conduit (cm)               12
      16 Underflow T (C)                                25
      17 oscillation cycle time (min)                   5
      18 design collection velocities  (ft/s)           2
      19 design branch line fraction full               .4

      Type of unit is
      8 HL partition flag=1, adjust for sorption        0
      9 unit recycle convergence number                 200
      10 oil molecular weight                           0
      11 oil density  (g/cc)                            0
      12 NaUT 1=municipal 2=industrial  3=turb.         0
      13 NaUT 1=mass tr. 2=equil                        0
      14 parts biomass per 1000 parts COD
      15 oil water partition method 0=owpc
      16 use UNIFAC aqueous data base =1
      17 specify mass transfer for unit, =1
      18 Use biomass for unit option, =1
      19 biogrowth Monod half concentration ppm

      DETAILED CALCULATIONS at Unit 11 def.aerated biotre
      Type: aerated biotreatment
        Project C:\Users\akelley\Desktop\Water9\October 5
Comments Run\Post-ASB\Post ASB Oct 5 Response v2 10/4/2021
8:20:08 PM  22:31:38
      COMPOUND: DIMETHYL SULFIDE  (DMS)

      Type of unit is aerated biotreatment
      1 Description of unit                      11
def.aerated biotre
      2 Wastewater temperature   (C)                   28.9
      3 length of aeration unit (m)                    18.3
      4 width of aeration unit (m)                     12.2
      5 depth of aeration unit (m)                     4.6
      6 Area of agitation (each aerator,m2)            47
```

```
      7 Total number of agitators in the unit          1
      8 Power of agitation (each aerator,HP)           75
      9 Impeller diameter (cm)                         49.53
      10 Impeller rotation (RPM)                       1200
      11 Agitator mechanical efficiency                0.83
      12 aerator effectiveness, alpha                  0.83
      13 if there is plug flow, enter 1                0
      14 Overall biorate (mg/g bio-hr)                 19
      15 Aeration air flow (m3/s)                      0
      16 active biomass, aeration (g/l)                0.3
      17 If covered, then enter 1                      0
      18 special input                                 0
      19 pH  (enter 0 for no pH adjustment)            7.86

      Properties of DIMETHYL SULFIDE  (DMS) at 28.9 deg.C (84.
deg.F)
         hl= 0.002417 atm-m3/mol      vp= 582.329 mmHg (11.263
psia)
             134.26 y/x
             0.097561 g/L gas per g/L liquid
         Temperature adjustment factor = 1.046 ^(T-25), deg. C
         k1= 0. L/g-hr          dl= 1.479e-05 cm2/s  dv= 0.14332
cm2/s
      Compound flow rate from inlet water is 0.001475 g/s.
      Compound flow rate from inlet vent is 0. g/s.
      Compound flow rate from inlet duct is 0. g/s.
      Submerged aeration rate from inlet vent is 0. m3/s.
      Total submerged aeration is 0. m3/s.
      The residence time in the unit is 0.28269 hr.
      ____Biomass production_______________
          The biomass production rate is 0.mg/hr. (0. mg/L)
          The fraction dissolved solids converted is 0. .
          The estimated biomass exit concentration is 0. mg/L.
      ________Quiescent wind shear surface___Springer_
      Springer correlation does not apply, use Mackay and Yeun
(1983).
      The friction velocity is 13.347cm/s.
      The Schmidt number is 676.088.
      kl is estimated as 7.595e-06 m/s.
      kg is estimated as 0.010775 m/s.  Model: 2
      kg is estimated as 0.010775 m/s.  Model: 2
      The Schmidt number is 1.04659.
      The friction velocity is 31.28 m/s
      kg is estimated as 0.014832 m/s.  Model: 3
      _______Agitated surface___________________
      The rotation speed is 125.654 radians per second.
      The rotation factor NRW is 2.052e+06.
      The power number NPR is 7.881e-04.
      The rotation factor NFR is 797.027.
      kg (agitated)is estimated as 0.14756 m/s.
      kl (agitated)is estimated as 0.052954 m/s.
          The specified and growth biomass is 0.3 g/L.
```

The effective KL (surface + diffused air) is 0.002449 m/s.
The effective stripping time (surface + diffused air) is 31.31 minutes. (0.52184 hrs.)
The pump mixing time is 5 x the pumping recirculaion time, 0. min.
The ratio of the mixing to the striping (surface + diffused air) is 0.
The mean residence time is 16.961 min. (0.28269 hr.)
The ratio of the pump mixing to the residence time is 0.

KG aerated (m/s)	0.15033
KL aerated (m/s)	0.052954
KL OVERALL AERATED (m/s)	0.011603
KG quiescent (m/s)	0.010977
KL quiescent (m/s)	7.595e-06
KL OVERALL QUIESCENT (m/s)	7.542e-06
KL OVERALL (m/s)	0.002449
air stripping time constant (min)	31.31
FRACTION SURFACE VOLATILIZED	0.33807
FRACTION SUBMERGED VOLATILIZED	0.
TOTAL FRACTION VOLATILIZED	0.33807
FRACTION BIOLOGICALLY REMOVED	0.037861
FRACTION ABSORBED	0.
TOTAL AIR EMISSIONS (g/s)	4.986e-04
(Mg/year)	0.015724
EMISSION FACTOR (g/cm2-s)	2.233e-10
UNIT EXIT CONCENTRATION (ppmw)	9.12e-04

DETAILED CALCULATIONS at Unit 14 default open hub d
Type: open hub drain
Project C:\Users\akelley\Desktop\Water9\October 5 Comments Run\Post-ASB\Post ASB Oct 5 Response v2 10/4/2021 8:20:08 PM 22:31:38
COMPOUND: DIMETHYL SULFIDE (DMS)

Type of unit is open hub drain

1 Description of unit	14	default open hub d
2 Underflow T (C)		29.3
3 Total water added at the unit (l/s)		0
4 Area of openings at unit (cm2)		50
5 Radius of drop pipe (cm)		5
6 Drop length to conduit (cm)		61
7 Open surface=1		0
8 Subsurface entrance=1		0
9 subsurface exit =1		0
10 radius of underflow conduit (cm)		12
11 distance to next unit (cm)		500
12 slope of underflow conduit		0.015
16 velocity air at drain opening (ft/min)		84
17 municipal waste in conduit =1		0
18 Assume equilibrium in unit, =1		0
19 pH (enter 0 for no pH adjustment)		7.65

```
       Equilibrium partitioning in drain drop hub is assumed.
         Total drain flow is  1009.151 l/s.
         Weight fraction down is  1.606E-09
         Gas concentration in  0 mol fraction.
         Gas flow  1009.151 L/s
         Weight fraction out at base of drop is
1.46145163148041E-09
         fraction transferred in the drain drop from hub
is .090005
         fraction loss in waste1 drop to hub      0.
         fraction loss in waste2 drop to hub      0.
         fraction loss in waste3 drop to hub      0.
         fraction loss in collection hub drop     0.090005
         fraction loss in unit                    0.
         fraction loss in line run                0.
         component upstream of unit, g/s          0.
         mol fract. headspace upstream (y)        0.
         headspace at conduit discharge, y        5.772e-08
         headspace end of conduit (y)             5.772e-08
         mol fract. headspace vent base           5.771e-08
         headspace flow out vent (cc/s)           -1.009e+06
         headspace flow down line (cc/s)          1.009e+06
         KG surface (m/s)                         2381.856
         KL surface (m/s)                         7.697e-09
         flow of waste down hub (l/s)             0.
         component flow in waste into unit (g/s)  0.001621
         total component into unit, g/s           0.001475
         TOTAL AIR EMISSIONS  (g/s)               1.459e-04
                          (Mg/year)               0.0046
         EMISSION FACTOR  (g/cm2-s)               2.233e-10
         UNIT EXIT CONCENTRATION (ppmw)           0.001461
      DETAILED CALCULATIONS at Unit 15 def.diffused air b
      Type: diffused air biotreatment
        Project C:\Users\akelley\Desktop\Water9\October 5
Comments Run\Post-ASB\Post ASB Oct 5 Response v2 10/4/2021
8:20:08 PM  22:31:38
      COMPOUND: DIMETHYL SULFIDE  (DMS)

      Type of unit is diffused air biotreatment
      1 Description of unit                      15
def.diffused air b
      2 Wastewater temperature   (C)                    28.9
      3 length of aeration unit (m)                     17.9
      4 width of aeration unit (m)                      9.9
      5 depth of aeration unit (m)                      4.6
      6 fraction of surface agitated by air             1
      7 fraction of surface quiescent                   0
      13 if there is plug flow, enter 1                 0
      14 Overall biorate (mg/g bio-hr)                  19
      15 Aeration air flow (m3/s)                       0
      16 activated sludge biomass(g/l)                  2
      17 If covered, then enter 1                       0
```

```
      18 special input                                  0
      19 pH  (enter 0 for no pH adjustment)             7.86

      Properties of DIMETHYL SULFIDE  (DMS) at 28.9 deg.C (84.
deg.F)
         hl= 0.002417 atm-m3/mol      vp= 582.329 mmHg (11.263
psia)
             134.26 y/x
             0.097561 g/L gas per g/L liquid
         Temperature adjustment factor = 1.046 ^(T-25), deg. C
         kl= 0. L/g-hr          dl= 1.479e-05 cm2/s  dv= 0.14332
cm2/s
      Compound flow rate from inlet water is 9.204e-04 g/s.
      Compound flow rate from inlet vent is 0. g/s.
      Compound flow rate from inlet duct is 0. g/s.
      Submerged aeration rate from inlet vent is 0. m3/s.
      Total submerged aeration is 0. m3/s.
      The residence time in the unit is 0.22438 hr.
      ____Biomass production_______________
          The biomass production rate is 0.mg/hr. (0. mg/L)
          The fraction dissolved solids converted is 0. .
          The estimated biomass exit concentration is 0. mg/L.
      ________Quiescent wind shear surface___Springer_
      Springer correlation does not apply, use Mackay and Yeun
(1983).
      The friction velocity is 13.347cm/s.
      The Schmidt number is 676.088.
      kl is estimated as 7.595e-06 m/s.
      kg is estimated as 0.010912 m/s.  Model: 2
      kg is estimated as 0.010912 m/s.  Model: 2
      The Schmidt number is 1.04659.
      The friction velocity is 28.484 m/s
      kg is estimated as 0.013594 m/s.  Model: 3
      ________Agitated surface___________________
      The rotation speed is 125.654 radians per second.
      The rotation factor NRW is 3.011e+06.
      The power number NPR is 6.188e-05.
      The rotation factor NFR is 965.508.
      kg (agitated)is estimated as 0.072898 m/s.
      kl (agitated)is estimated as 0.020373 m/s.
          The specified and growth biomass is 2. g/L.
       The effective KL (surface + diffused air) is 0.005396 m/s.
       The effective stripping time (surface + diffused air) is
14.208 minutes. (0.23679 hrs.)
       The pump mixing time is 5 x the pumping recirculaion time,
0. min.
       The ratio of the mixing to the striping (surface +
diffused air) is 0.
       The mean residence time is 13.463 min. (0.22438 hr.)
       The ratio of the pump mixing to the residence time is 0.
         KG aerated (m/s)                        0.074264
         KL aerated (m/s)                        0.020373
```

```
         KL OVERALL AERATED (m/s)                  0.005396
         KG quiescent (m/s)                        0.011117
         KL quiescent (m/s)                        7.595e-06
         KL OVERALL QUIESCENT (m/s)                7.543e-06
         KL OVERALL (m/s)                          0.005396
         air stripping time constant (min)         14.208
         FRACTION SURFACE VOLATILIZED              0.41769
         FRACTION SUBMERGED VOLATILIZED            0.
         TOTAL FRACTION VOLATILIZED                0.41769
         FRACTION BIOLOGICALLY REMOVED             0.14151
         FRACTION ABSORBED                         0.
         TOTAL AIR EMISSIONS  (g/s)                3.844e-04
                          (Mg/year)                0.012124
         EMISSION FACTOR  (g/cm2-s)                2.169e-10
         UNIT EXIT CONCENTRATION (ppmw)            4.02e-04
      DETAILED CALCULATIONS at Unit 17 def.system exit st
      Type: system exit stream
        Project C:\Users\akelley\Desktop\Water9\October 5
Comments Run\Post-ASB\Post ASB Oct 5 Response v2 10/4/2021
8:20:08 PM  22:31:38
      COMPOUND: DIMETHYL SULFIDE  (DMS)

      Type of unit is system exit stream
      1 Description of unit                      17    def.system
exit st

         TOTAL AIR EMISSIONS  (g/s)                0.
                          (Mg/year)                0.
         EMISSION FACTOR  (g/cm2-s)                2.169e-10
         UNIT EXIT CONCENTRATION (ppmw)            4.02e-04
```

```
      Type of unit is
      1 Total water added at the unit (l/s)      50     0
      2 Area of openings at unit (cm2)                  50
      3 Radius of drop pipe (cm)                        5
      4 Drop length to conduit (cm)                     61
      5 Humidity of inlet air (%)                       40
      6 Temperature of air (C)                          25
      7 Drain air velocity (ft/min)                     84
      8 manhole air velocity (ft/min)                   128
      9 Conduit air velocity (ft/min)                   66
      10 Wind speed (cm/s at 10 m)                      447
      11 distance to next unit (cm)                     500
      12 slope of underflow conduit                     .015
      13 friction factor liquid                         .016
      14 friction factor gas                            .006
      15 radius of underflow conduit (cm)               12
      16 Underflow T (C)                                25
      17 oscillation cycle time (min)                   5
      18 design collection velocities  (ft/s)           2
      19 design branch line fraction full               .4

      Type of unit is
      8 HL partition flag=1, adjust for sorption        0
      9 unit recycle convergence number                 200
      10 oil molecular weight                           0
      11 oil density  (g/cc)                            0
      12 NaUT 1=municipal 2=industrial  3=turb.         0
      13 NaUT 1=mass tr. 2=equil                        0
      14 parts biomass per 1000 parts COD
      15 oil water partition method 0=owpc
      16 use UNIFAC aqueous data base =1
      17 specify mass transfer for unit, =1
      18 Use biomass for unit option, =1
      19 biogrowth Monod half concentration ppm

      DETAILED CALCULATIONS at Unit 11 def.aerated biotre
      Type: aerated biotreatment
        Project C:\Users\akelley\Desktop\Water9\October 5
Comments Run\Post-ASB\Post ASB Oct 5 Response v2 10/4/2021
8:20:08 PM  22:32:11
      COMPOUND: METHANETHIOL(methyl mercaptan)

      Type of unit is aerated biotreatment
      1 Description of unit                      11
def.aerated biotre
      2 Wastewater temperature   (C)                   28.9
      3 length of aeration unit (m)                    18.3
      4 width of aeration unit (m)                     12.2
      5 depth of aeration unit (m)                     4.6
      6 Area of agitation (each aerator,m2)            47
```

```
      7 Total number of agitators in the unit          1
      8 Power of agitation (each aerator,HP)           75
      9 Impeller diameter (cm)                         49.53
      10 Impeller rotation (RPM)                       1200
      11 Agitator mechanical efficiency                0.83
      12 aerator effectiveness, alpha                  0.83
      13 if there is plug flow, enter 1                0
      14 Overall biorate (mg/g bio-hr)                 19
      15 Aeration air flow (m3/s)                      0
      16 active biomass, aeration (g/l)                0.3
      17 If covered, then enter 1                      0
      18 special input                                 0
      19 pH  (enter 0 for no pH adjustment)            7.86

      Properties of METHANETHIOL(methyl mercaptan) at 28.9 deg.C
(84. deg.F)
         hl= 0.003566 atm-m3/mol      vp= 1948.555 mmHg (37.689
psia)
             198.094 y/x
             0.14395 g/L gas per g/L liquid
         Temperature adjustment factor = 1.046 ^(T-25), deg. C
         k1= 0. L/g-hr          dl= 1.499e-05 cm2/s  dv= 0.23007
cm2/s
      Compound flow rate from inlet water is 4.422e-04 g/s.
      Compound flow rate from inlet vent is 0. g/s.
      Compound flow rate from inlet duct is 0. g/s.
      Submerged aeration rate from inlet vent is 0. m3/s.
      Total submerged aeration is 0. m3/s.
      The residence time in the unit is 0.28269 hr.
      ____Biomass production_______________
          The biomass production rate is 0.mg/hr. (0. mg/L)
          The fraction dissolved solids converted is 0. .
          The estimated biomass exit concentration is 0. mg/L.
      ________Quiescent wind shear surface___Springer_
      Springer correlation does not apply, use Mackay and Yeun
(1983).
      The friction velocity is 13.347cm/s.
      The Schmidt number is 666.952.
      kl is estimated as 7.64e-06 m/s.
      kg is estimated as 0.014795 m/s.  Model: 2
      kg is estimated as 0.014795 m/s.  Model: 2
      The Schmidt number is 0.65197.
      The friction velocity is 31.28 m/s
      kg is estimated as 0.019997 m/s.  Model: 3
      _______Agitated surface___________________
      The rotation speed is 125.654 radians per second.
      The rotation factor NRW is 2.052e+06.
      The power number NPR is 7.881e-04.
      The rotation factor NFR is 797.027.
      kg (agitated)is estimated as 0.18696 m/s.
      kl (agitated)is estimated as 0.053315 m/s.
          The specified and growth biomass is 0.3 g/L.
```

The effective KL (surface + diffused air) is 0.003851 m/s.
The effective stripping time (surface + diffused air) is 19.911 minutes. (0.33184 hrs.)
The pump mixing time is 5 x the pumping recirculaion time, 0. min.
The ratio of the mixing to the striping (surface + diffused air) is 0.
The mean residence time is 16.961 min. (0.28269 hr.)
The ratio of the pump mixing to the residence time is 0.

KG aerated (m/s)	0.19047
KL aerated (m/s)	0.053315
KL OVERALL AERATED (m/s)	0.018262
KG quiescent (m/s)	0.015073
KL quiescent (m/s)	7.64e-06
KL OVERALL QUIESCENT (m/s)	7.614e-06
KL OVERALL (m/s)	0.003851
air stripping time constant (min)	19.911
FRACTION SURFACE VOLATILIZED	0.45075
FRACTION SUBMERGED VOLATILIZED	0.
TOTAL FRACTION VOLATILIZED	0.45075
FRACTION BIOLOGICALLY REMOVED	0.020131
FRACTION ABSORBED	0.
TOTAL AIR EMISSIONS (g/s)	1.993e-04
(Mg/year)	0.006286
EMISSION FACTOR (g/cm2-s)	8.929e-11
UNIT EXIT CONCENTRATION (ppmw)	2.319e-04

DETAILED CALCULATIONS at Unit 14 default open hub d
Type: open hub drain
Project C:\Users\akelley\Desktop\Water9\October 5 Comments Run\Post-ASB\Post ASB Oct 5 Response v2 10/4/2021 8:20:08 PM 22:32:11
COMPOUND: METHANETHIOL(methyl mercaptan)

Type of unit is open hub drain

1 Description of unit	14	default open hub d
2 Underflow T (C)		29.3
3 Total water added at the unit (l/s)		0
4 Area of openings at unit (cm2)		50
5 Radius of drop pipe (cm)		5
6 Drop length to conduit (cm)		61
7 Open surface=1		0
8 Subsurface entrance=1		0
9 subsurface exit =1		0
10 radius of underflow conduit (cm)		12
11 distance to next unit (cm)		500
12 slope of underflow conduit		0.015
16 velocity air at drain opening (ft/min)		84
17 municipal waste in conduit =1		0
18 Assume equilibrium in unit, =1		0
19 pH (enter 0 for no pH adjustment)		7.65

```
       Equilibrium partitioning in drain drop hub is assumed.
         Total drain flow is  1009.151 l/s.
         Weight fraction down is  5.02E-10
         Gas concentration in  0 mol fraction.
         Gas flow  1009.151 L/s
         Weight fraction out at base of drop is
4.38233328871256E-10
         fraction transferred in the drain drop from hub
is .127025
         fraction loss in waste1 drop to hub      0.
         fraction loss in waste2 drop to hub      0.
         fraction loss in waste3 drop to hub      0.
         fraction loss in collection hub drop     0.12703
         fraction loss in unit                    0.
         fraction loss in line run                6.581e-08
         component upstream of unit, g/s          0.
         mol fract. headspace upstream (y)        0.
         headspace at conduit discharge, y        3.288e-08
         headspace end of conduit (y)             3.288e-08
         mol fract. headspace vent base           3.288e-08
         headspace flow out vent (cc/s)           -1.009e+06
         headspace flow down line (cc/s)          1.009e+06
         KG surface (m/s)                         3266.015
         KL surface (m/s)                         7.771e-09
         flow of waste down hub (l/s)             0.
         component flow in waste into unit (g/s)  5.066e-04
         total component into unit, g/s           4.422e-04
         TOTAL AIR EMISSIONS  (g/s)               6.435e-05
                         (Mg/year)                0.002029
         EMISSION FACTOR  (g/cm2-s)               8.929e-11
         UNIT EXIT CONCENTRATION (ppmw)           4.382e-04
      DETAILED CALCULATIONS at Unit 15 def.diffused air b
      Type: diffused air biotreatment
        Project C:\Users\akelley\Desktop\Water9\October 5
Comments Run\Post-ASB\Post ASB Oct 5 Response v2 10/4/2021
8:20:08 PM  22:32:11
      COMPOUND: METHANETHIOL(methyl mercaptan)

      Type of unit is diffused air biotreatment
      1 Description of unit                      15
def.diffused air b
      2 Wastewater temperature   (C)                    28.9
      3 length of aeration unit (m)                     17.9
      4 width of aeration unit (m)                      9.9
      5 depth of aeration unit (m)                      4.6
      6 fraction of surface agitated by air             1
      7 fraction of surface quiescent                   0
      13 if there is plug flow, enter 1                 0
      14 Overall biorate (mg/g bio-hr)                  19
      15 Aeration air flow (m3/s)                       0
      16 activated sludge biomass(g/l)                  2
      17 If covered, then enter 1                       0
```

```
      18 special input                                  0
      19 pH  (enter 0 for no pH adjustment)             7.86

      Properties of METHANETHIOL(methyl mercaptan) at 28.9 deg.C
(84. deg.F)
         hl= 0.003566 atm-m3/mol      vp= 1948.555 mmHg (37.689
psia)
             198.094 y/x
             0.14395 g/L gas per g/L liquid
         Temperature adjustment factor = 1.046 ^(T-25), deg. C
         kl= 0. L/g-hr          dl= 1.499e-05 cm2/s  dv= 0.23007
cm2/s
      Compound flow rate from inlet water is 2.34e-04 g/s.
      Compound flow rate from inlet vent is 0. g/s.
      Compound flow rate from inlet duct is 0. g/s.
      Submerged aeration rate from inlet vent is 0. m3/s.
      Total submerged aeration is 0. m3/s.
      The residence time in the unit is 0.22438 hr.
      ____Biomass production_______________
          The biomass production rate is 0.mg/hr. (0. mg/L)
          The fraction dissolved solids converted is 0. .
          The estimated biomass exit concentration is 0. mg/L.
      ________Quiescent wind shear surface___Springer_
      Springer correlation does not apply, use Mackay and Yeun
(1983).
      The friction velocity is 13.347cm/s.
      The Schmidt number is 666.952.
      kl is estimated as 7.64e-06 m/s.
      kg is estimated as 0.014984 m/s.  Model: 2
      kg is estimated as 0.014984 m/s.  Model: 2
      The Schmidt number is 0.65197.
      The friction velocity is 28.484 m/s
      kg is estimated as 0.018298 m/s.  Model: 3
      ________Agitated surface___________________
      The rotation speed is 125.654 radians per second.
      The rotation factor NRW is 3.011e+06.
      The power number NPR is 6.188e-05.
      The rotation factor NFR is 965.508.
      kg (agitated)is estimated as 0.092361 m/s.
      kl (agitated)is estimated as 0.020512 m/s.
          The specified and growth biomass is 2. g/L.
       The effective KL (surface + diffused air) is 0.008222 m/s.
       The effective stripping time (surface + diffused air) is
9.325 minutes. (0.15541 hrs.)
       The pump mixing time is 5 x the pumping recirculaion time,
0. min.
       The ratio of the mixing to the striping (surface +
diffused air) is 0.
       The mean residence time is 13.463 min. (0.22438 hr.)
       The ratio of the pump mixing to the residence time is 0.
         KG aerated (m/s)                        0.094092
         KL aerated (m/s)                        0.020512
```

```
         KL OVERALL AERATED (m/s)                  0.008222
         KG quiescent (m/s)                        0.015265
         KL quiescent (m/s)                        7.64e-06
         KL OVERALL QUIESCENT (m/s)                7.614e-06
         KL OVERALL (m/s)                          0.008222
         air stripping time constant (min)         9.325
         FRACTION SURFACE VOLATILIZED              0.54583
         FRACTION SUBMERGED VOLATILIZED            0.
         TOTAL FRACTION VOLATILIZED                0.54583
         FRACTION BIOLOGICALLY REMOVED             0.076112
         FRACTION ABSORBED                         0.
         TOTAL AIR EMISSIONS  (g/s)                1.277e-04
                          (Mg/year)                0.004028
         EMISSION FACTOR  (g/cm2-s)                7.208e-11
         UNIT EXIT CONCENTRATION (ppmw)            8.766e-05
      DETAILED CALCULATIONS at Unit 17 def.system exit st
      Type: system exit stream
        Project C:\Users\akelley\Desktop\Water9\October 5
Comments Run\Post-ASB\Post ASB Oct 5 Response v2 10/4/2021
8:20:08 PM  22:32:11
      COMPOUND: METHANETHIOL(methyl mercaptan)

      Type of unit is system exit stream
      1 Description of unit                      17    def.system
exit st

         TOTAL AIR EMISSIONS  (g/s)                0.
                          (Mg/year)                0.
         EMISSION FACTOR  (g/cm2-s)                7.208e-11
         UNIT EXIT CONCENTRATION (ppmw)            8.766e-05
```

Table A-40
Flow and Concentration Inputs - Water9
New Indy Catawba - Catawba, SC

	Flow[a] (l/s)	H_2S Concentration (ppm)	DMDS Concentration (ppm)	DMS Concentration (ppm)	MMC Concentration (ppm)
Clarifier to Ditch #1[b]	935.58		0.036	0.130	1.09E-03
Ditch #0 to Ditch #1[b][c]	935.58	0.020			
ASB	950.49	1.35	0.14	0.13	0.07
Holding Pond	950.49	8.13E-03	1.95E-03	4.92E-03	9.91E-04
Post-ASB[d]	1009.15	1.71E-03	4.00E-03	1.61E-03	5.02E-04

[a] Includes a 10% evaporation factor.

[b] Concentrations of TRS compounds in Mill Sewer were backcalculated using the fraction removed calculated in Water9 and the ASB influent concentration.

[c] The Primary Clarifier was not modeled for H2S in Water9. A separate model run starting with Ditch #0 was used to estimate H2S emissions rates from Ditch #0 and Ditch #1

[d] Post-ASB flow represents actual discharge between 7/9-11/2021

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
01-Jan-15 00:00:00	01-Jan-15 01:00:00		0.00	0.00	0.00	21.48	2.1	329.7		0.00	0.00	0.00	7.08		10.35	18.92	83.84	86.68	01-Jan-15 00:00:00		**10.35**	**18.92**	**83.84**	**93.76**
01-Jan-15 01:00:00	01-Jan-15 02:00:00		0.00	0.00	0.00	6.64	2.1	329.7		0.00	0.00	0.00	2.19		10.35	18.92	83.84	86.68	01-Jan-15 01:00:00		**10.35**	**18.92**	**83.84**	**88.87**
01-Jan-15 02:00:00	01-Jan-15 03:00:00		0.00	0.00	0.00	6.61	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	01-Jan-15 02:00:00		**10.35**	**18.92**	**83.84**	**88.86**
01-Jan-15 03:00:00	01-Jan-15 04:00:00		0.00	0.00	0.00	38.32	2.1	329.7		0.00	0.00	0.00	12.64		10.35	18.92	83.84	86.68	01-Jan-15 03:00:00		**10.35**	**18.92**	**83.84**	**99.32**
01-Jan-15 04:00:00	01-Jan-15 05:00:00		0.00	0.00	0.00	6.75	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	01-Jan-15 04:00:00		**10.35**	**18.92**	**83.84**	**88.90**
01-Jan-15 05:00:00	01-Jan-15 06:00:00		0.00	0.00	0.00	10.21	2.1	329.7		0.00	0.00	0.00	3.37		10.35	18.92	83.84	86.68	01-Jan-15 05:00:00		**10.35**	**18.92**	**83.84**	**90.05**
01-Jan-15 06:00:00	01-Jan-15 07:00:00		0.00	0.00	0.00	6.59	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	01-Jan-15 06:00:00		**10.35**	**18.92**	**83.84**	**88.85**
01-Jan-15 07:00:00	01-Jan-15 08:00:00		0.00	0.00	0.00	6.60	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	01-Jan-15 07:00:00		**10.35**	**18.92**	**83.84**	**88.86**
01-Jan-15 08:00:00	01-Jan-15 09:00:00		0.00	0.00	0.00	28.55	2.1	329.7		0.00	0.00	0.00	9.41		10.35	18.92	83.84	86.68	01-Jan-15 08:00:00		**10.35**	**18.92**	**83.84**	**96.09**
01-Jan-15 09:00:00	01-Jan-15 10:00:00		0.00	0.00	0.00	6.48	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	01-Jan-15 09:00:00		**10.35**	**18.92**	**83.84**	**88.82**
01-Jan-15 10:00:00	01-Jan-15 11:00:00		0.00	0.00	0.00	6.14	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	01-Jan-15 10:00:00		**10.35**	**18.92**	**83.84**	**88.70**
01-Jan-15 11:00:00	01-Jan-15 12:00:00		0.00	0.00	0.00	5.79	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	01-Jan-15 11:00:00		**10.35**	**18.92**	**83.84**	**88.59**
01-Jan-15 12:00:00	01-Jan-15 13:00:00		0.00	0.00	0.00	7.97	2.1	329.7		0.00	0.00	0.00	2.63		10.35	18.92	83.84	86.68	01-Jan-15 12:00:00		**10.35**	**18.92**	**83.84**	**89.31**
01-Jan-15 13:00:00	01-Jan-15 14:00:00		0.00	0.00	0.00	5.46	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	01-Jan-15 13:00:00		**10.35**	**18.92**	**83.84**	**88.48**
01-Jan-15 14:00:00	01-Jan-15 15:00:00		0.00	0.00	0.00	5.08	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	01-Jan-15 14:00:00		**10.35**	**18.92**	**83.84**	**88.36**
01-Jan-15 15:00:00	01-Jan-15 16:00:00		0.00	0.00	0.00	5.65	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	01-Jan-15 15:00:00		**10.35**	**18.92**	**83.84**	**88.54**
01-Jan-15 16:00:00	01-Jan-15 17:00:00		0.00	0.00	0.00	4.77	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	01-Jan-15 16:00:00		**10.35**	**18.92**	**83.84**	**88.25**
01-Jan-15 17:00:00	01-Jan-15 18:00:00		0.00	0.00	0.00	4.73	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	01-Jan-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.24**
01-Jan-15 18:00:00	01-Jan-15 19:00:00		0.00	0.00	0.00	5.40	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	01-Jan-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.46**
01-Jan-15 19:00:00	01-Jan-15 20:00:00		0.00	0.00	0.00	5.51	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	01-Jan-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.50**
01-Jan-15 20:00:00	01-Jan-15 21:00:00		0.00	0.00	0.00	5.36	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	01-Jan-15 20:00:00		**10.35**	**18.92**	**83.84**	**88.45**
01-Jan-15 21:00:00	01-Jan-15 22:00:00		0.00	0.00	0.00	5.41	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	01-Jan-15 21:00:00		**10.35**	**18.92**	**83.84**	**88.46**
01-Jan-15 22:00:00	01-Jan-15 23:00:00		0.00	0.00	0.00	5.18	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	01-Jan-15 22:00:00		**10.35**	**18.92**	**83.84**	**88.39**
01-Jan-15 23:00:00	02-Jan-15 00:00:00		0.00	0.00	0.00	5.19	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	01-Jan-15 23:00:00		**10.35**	**18.92**	**83.84**	**88.39**
02-Jan-15 00:00:00	02-Jan-15 01:00:00		0.00	0.00	0.00	5.21	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	02-Jan-15 00:00:00		**10.35**	**18.92**	**83.84**	**88.40**
02-Jan-15 01:00:00	02-Jan-15 02:00:00		0.00	0.00	0.00	7.24	2.1	329.7		0.00	0.00	0.00	2.39		10.35	18.92	83.84	86.68	02-Jan-15 01:00:00		**10.35**	**18.92**	**83.84**	**89.07**
02-Jan-15 02:00:00	02-Jan-15 03:00:00		0.02	0.00	0.00	414.91	2.1	329.7		0.01	0.00	0.00	136.80		10.35	18.92	83.84	86.68	02-Jan-15 02:00:00		**10.36**	**18.92**	**83.84**	**223.48**
02-Jan-15 03:00:00	02-Jan-15 04:00:00		0.43	0.00	0.00	485.83	2.1	329.7		0.14	0.00	0.00	160.18		10.35	18.92	83.84	86.68	02-Jan-15 03:00:00		**10.49**	**18.92**	**83.84**	**246.86**
02-Jan-15 04:00:00	02-Jan-15 05:00:00		1.02	0.00	0.00	4.86	2.1	329.7		0.34	0.00	0.00	1.60		10.35	18.92	83.84	86.68	02-Jan-15 04:00:00		**10.69**	**18.92**	**83.84**	**88.28**
02-Jan-15 05:00:00	02-Jan-15 06:00:00		1.60	0.00	0.00	5.78	2.1	329.7		0.53	0.00	0.00	1.90		10.35	18.92	83.84	86.68	02-Jan-15 05:00:00		**10.88**	**18.92**	**83.84**	**88.58**
02-Jan-15 06:00:00	02-Jan-15 07:00:00		2.11	0.00	0.00	5.17	2.1	329.7		0.70	0.00	0.00	1.70		10.35	18.92	83.84	86.68	02-Jan-15 06:00:00		**11.05**	**18.92**	**83.84**	**88.38**
02-Jan-15 07:00:00	02-Jan-15 08:00:00		1.46	0.00	0.00	5.35	2.1	329.7		0.48	0.00	0.00	1.76		10.35	18.92	83.84	86.68	02-Jan-15 07:00:00		**10.83**	**18.92**	**83.84**	**88.44**
02-Jan-15 08:00:00	02-Jan-15 09:00:00		0.00	0.00	0.00	5.53	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	02-Jan-15 08:00:00		**10.35**	**18.92**	**83.84**	**88.50**
02-Jan-15 09:00:00	02-Jan-15 10:00:00		0.00	0.00	0.00	5.82	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	02-Jan-15 09:00:00		**10.35**	**18.92**	**83.84**	**88.60**
02-Jan-15 10:00:00	02-Jan-15 11:00:00		0.00	0.00	0.00	5.37	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	02-Jan-15 10:00:00		**10.35**	**18.92**	**83.84**	**88.45**
02-Jan-15 11:00:00	02-Jan-15 12:00:00		0.00	0.00	0.00	5.19	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	02-Jan-15 11:00:00		**10.35**	**18.92**	**83.84**	**88.39**
02-Jan-15 12:00:00	02-Jan-15 13:00:00		0.00	0.00	0.00	8.81	2.1	329.7		0.00	0.00	0.00	2.91		10.35	18.92	83.84	86.68	02-Jan-15 12:00:00		**10.35**	**18.92**	**83.84**	**89.59**
02-Jan-15 13:00:00	02-Jan-15 14:00:00		0.00	0.00	0.00	5.12	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	02-Jan-15 13:00:00		**10.35**	**18.92**	**83.84**	**88.37**
02-Jan-15 14:00:00	02-Jan-15 15:00:00		0.00	0.00	0.00	5.06	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	02-Jan-15 14:00:00		**10.35**	**18.92**	**83.84**	**88.35**
02-Jan-15 15:00:00	02-Jan-15 16:00:00		0.00	0.00	0.00	6.18	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	02-Jan-15 15:00:00		**10.35**	**18.92**	**83.84**	**88.72**
02-Jan-15 16:00:00	02-Jan-15 17:00:00		0.00	0.00	0.00	5.35	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	02-Jan-15 16:00:00		**10.35**	**18.92**	**83.84**	**88.44**
02-Jan-15 17:00:00	02-Jan-15 18:00:00		0.00	0.00	0.00	5.32	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	02-Jan-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.43**
02-Jan-15 18:00:00	02-Jan-15 19:00:00		0.00	0.00	0.00	5.90	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	02-Jan-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.63**
02-Jan-15 19:00:00	02-Jan-15 20:00:00		0.00	0.00	0.00	7.49	2.1	329.7		0.00	0.00	0.00	2.47		10.35	18.92	83.84	86.68	02-Jan-15 19:00:00		**10.35**	**18.92**	**83.84**	**89.15**
02-Jan-15 20:00:00	02-Jan-15 21:00:00		0.00	0.00	0.00	6.78	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	02-Jan-15 20:00:00		**10.35**	**18.92**	**83.84**	**88.92**
02-Jan-15 21:00:00	02-Jan-15 22:00:00		0.00	0.00	0.00	6.07	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	02-Jan-15 21:00:00		**10.35**	**18.92**	**83.84**	**88.68**
02-Jan-15 22:00:00	02-Jan-15 23:00:00		0.00	0.00	0.00	7.81	2.1	329.7		0.00	0.00	0.00	2.58		10.35	18.92	83.84	86.68	02-Jan-15 22:00:00		**10.35**	**18.92**	**83.84**	**89.26**
02-Jan-15 23:00:00	03-Jan-15 00:00:00		0.00	0.00	0.00	6.18	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	02-Jan-15 23:00:00		**10.35**	**18.92**	**83.84**	**88.72**
03-Jan-15 00:00:00	03-Jan-15 01:00:00		0.00	0.00	0.00	5.88	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	03-Jan-15 00:00:00		**10.35**	**18.92**	**83.84**	**88.62**
03-Jan-15 01:00:00	03-Jan-15 02:00:00		0.00	0.00	0.00	5.57	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	03-Jan-15 01:00:00		**10.35**	**18.92**	**83.84**	**88.52**
03-Jan-15 02:00:00	03-Jan-15 03:00:00		0.00	0.00	0.00	8.11	2.1	329.7		0.00	0.00	0.00	2.67		10.35	18.92	83.84	86.68	03-Jan-15 02:00:00		**10.35**	**18.92**	**83.84**	**89.35**
03-Jan-15 03:00:00	03-Jan-15 04:00:00		0.00	0.00	0.00	5.72	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	03-Jan-15 03:00:00		**10.35**	**18.92**	**83.84**	**88.56**
03-Jan-15 04:00:00	03-Jan-15 05:00:00		0.00	0.00	0.00	5.74	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	03-Jan-15 04:00:00		**10.35**	**18.92**	**83.84**	**88.57**
03-Jan-15 05:00:00	03-Jan-15 06:00:00		0.00	0.00	0.00	7.07	2.1	329.7		0.00	0.00	0.00	2.33		10.35	18.92	83.84	86.68	03-Jan-15 05:00:00		**10.35**	**18.92**	**83.84**	**89.01**
03-Jan-15 06:00:00	03-Jan-15 07:00:00		0.00	0.00	0.00	5.79	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	03-Jan-15 06:00:00		**10.35**	**18.92**	**83.84**	**88.59**
03-Jan-15 07:00:00	03-Jan-15 08:00:00		0.00	0.00	0.00	5.82	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	03-Jan-15 07:00:00		**10.35**	**18.92**	**83.84**	**88.60**
03-Jan-15 08:00:00	03-Jan-15 09:00:00		0.00	0.00	0.00	7.75	2.1	329.7		0.00	0.00	0.00	2.55		10.35	18.92	83.84	86.68	03-Jan-15 08:00:00		**10.35**	**18.92**	**83.84**	**89.23**
03-Jan-15 09:00:00	03-Jan-15 10:00:00		0.00	0.00	0.00	5.73	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	03-Jan-15 09:00:00		**10.35**	**18.92**	**83.84**	**88.57**
03-Jan-15 10:00:00	03-Jan-15 11:00:00		0.00	0.00	0.00	5.56	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	03-Jan-15 10:00:00		**10.35**	**18.92**	**83.84**	**88.51**
03-Jan-15 11:00:00	03-Jan-15 12:00:00		0.00	0.00	0.00	5.38	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	03-Jan-15 11:00:00		**10.35**	**18.92**	**83.84**	**88.45**
03-Jan-15 12:00:00	03-Jan-15 13:00:00		0.00	0.00	0.00	36.38	2.1	329.7		0.00	0.00	0.00	11.99		10.35	18.92	83.84	86.68	03-Jan-15 12:00:00		**10.35**	**18.92**	**83.84**	**98.67**
03-Jan-15 13:00:00	03-Jan-15 14:00:00		0.00	0.00	0.00	5.36	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	03-Jan-15 13:00:00		**10.35**	**18.92**	**83.84**	**88.45**
03-Jan-15 14:00:00	03-Jan-15 15:00:00		0.00	0.00	0.00	5.44	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	03-Jan-15 14:00:00		**10.35**	**18.92**	**83.84**	**88.47**
03-Jan-15 15:00:00	03-Jan-15 16:00:00		0.00	0.00	0.00	31.54	2.1	329.7		0.00	0.00	0.00	10.40		10.35	18.92	83.84	86.68	03-Jan-15 15:00:00		**10.35**	**18.92**	**83.84**	**97.08**
03-Jan-15 16:00:00	03-Jan-15 17:00:00		0.00	0.00	0.00	5.34	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	03-Jan-15 16:00:00		**10.35**	**18.92**	**83.84**	**88.44**
03-Jan-15 17:00:00	03-Jan-15 18:00:00		0.00	0.00	0.00	5.31	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	03-Jan-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.43**
03-Jan-15 18:00:00	03-Jan-15 19:00:00		0.00	0.00	0.00	5.28	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	03-Jan-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.42**
03-Jan-15 19:00:00	03-Jan-15 20:00:00		0.00	0.00	0.00	5.25	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	03-Jan-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.41**
03-Jan-15 20:00:00	03-Jan-15 21:00:00		0.00	0.00	0.00	5.23	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	03-Jan-15 20:00:00		**10.35**	**18.92**	**83.84**	**88.40**
03-Jan-15 21:00:00	03-Jan-15 22:00:00		0.00	0.00	0.00	5.22	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	03-Jan-15 21:00:00		**10.35**	**18.92**	**83.84**	**88.40**
03-Jan-15 22:00:00	03-Jan-15 23:00:00		0.00	0.00	0.00	5.22	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	03-Jan-15 22:00:00		**10.35**	**18.92**	**83.84**	**88.40**
03-Jan-15 23:00:00	04-Jan-15 00:00:00		0.00	0.00	0.00	5.21	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	03-Jan-15 23:00:00		**10.35**	**18.92**	**83.84**	**88.40**
04-Jan-15 00:00:00	04-Jan-15 01:00:00		0.00	0.00	0.00	5.11	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	04-Jan-15 00:00:00		**10.35**	**18.92**	**83.84**	**88.36**
04-Jan-15 01:00:00	04-Jan-15 02:00:00		0.00	0.00	0.00	4.90	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	04-Jan-15 01:00:00		**10.35**	**18.92**	**83.84**	**88.30**
04-Jan-15 02:00:00	04-Jan-15 03:00:00		0.00	0.00	0.00	114.83	2.1	329.7		0.00	0.00	0.00	37.86		10.35	18.92	83.84	86.68	04-Jan-15 02:00:00		**10.35**	**18.92**	**83.84**	**124.54**
04-Jan-15 03:00:00	04-Jan-15 04:00:00		0.00	0.00	0.00	4.74	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	04-Jan-15 03:00:00		**10.35**	**18.92**	**83.84**	**88.24**
04-Jan-15 04:00:00	04-Jan-15 05:00:00		0.00	0.00	0.00	4.52	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	04-Jan-15 04:00:00		**10.35**	**18.92**	**83.84**	**88.17**
04-Jan-15 05:00:00	04-Jan-15 06:00:00		0.00	0.00	0.00	16.79	2.1	329.7		0.00	0.00	0.00	5.54		10.35	18.92	83.84	86.68	04-Jan-15 05:00:00		**10.35**	**18.92**	**83.84**	**92.22**
04-Jan-15 06:00:00	04-Jan-15 07:00:00		0.00	0.00	0.00	4.10	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	04-Jan-15 06:00:00		**10.35**	**18.92**	**83.84**	**88.03**
04-Jan-15 07:00:00	04-Jan-15 08:00:00		0.00	0.00	0.00	4.12	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	04-Jan-15 07:00:00		**10.35**	**18.92**	**83.84**	**88.04**
04-Jan-15 08:00:00	04-Jan-15 09:00:00		0.00	0.00	0.00	4.14	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	04-Jan-15 08:00:00		**10.35**	**18.92**	**83.84**	**88.05**
04-Jan-15 09:00:00	04-Jan-15 10:00:00		0.00	0.00	0.00	7.29	2.1	329.7		0.00	0.00	0.00	2.40		10.35	18.92	83.84	86.68	04-Jan-15 09:00:00		**10.35**	**18.92**	**83.84**	**89.08**
04-Jan-15 10:00:00	04-Jan-15 11:00:00		0.00	0.00	55.17	89.22	2.1	329.7		0.00	0.00	18.19	29.42		10.35	18.92	83.84	86.68	04-Jan-15 10:00:00		**10.35**	**18.92**	**102.03**	**116.10**
04-Jan-15 11:00:00	04-Jan-15 12:00:00		0.00	0.00	80.35	206.04	2.1	329.7		0.00	0.00	26.49	67.93		10.35	18.92	83.84	86.68	04-Jan-15 11:00:00		**10.35**	**18.92**	**110.33**	**154.61**
04-Jan-15 12:00:00	04-Jan-15 13:00:00		0.00	0.00	0.00	4.57	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	04-Jan-15 12:00:00		**10.35**	**18.92**	**83.84**	**88.19**
04-Jan-15 13:00:00	04-Jan-15 14:00:00		0.00	0.00	0.00	4.64	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	04-Jan-15 13:00:00		**10.35**	**18.92**	**83.84**	**88.21**
04-Jan-15 14:00:00	04-Jan-15 15:00:00		0.00	0.00	0.00	4.71	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	04-Jan-15 14:00:00		**10.35**	**18.92**	**83.84**	**88.23**
04-Jan-15 15:00:00	04-Jan-15 16:00:00		0.00	0.00	0.00	4.66	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	04-Jan-15 15:00:00		**10.35**	**18.92**	**83.84**	**88.22**
04-Jan-15 16:00:00	04-Jan-15 17:00:00		0.00	0.00	0.00	4.62	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	04-Jan-15 16:00:00		**10.35**	**18.92**	**83.84**	**88.20**
04-Jan-15 17:00:00	04-Jan-15 18:00:00		0.00	0.00	0.00	4.64	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	04-Jan-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.21**
04-Jan-15 18:00:00	04-Jan-15 19:00:00		0.00	0.00	0.00	4.66	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	04-Jan-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.22**
04-Jan-15 19:00:00	04-Jan-15 20:00:00		0.00	0.00	138.64	4.73	2.1	329.7		0.00	0.00	45.71	1.56		10.35	18.92	83.84	86.68	04-Jan-15 19:00:00		**10.35**	**18.92**	**129.55**	**88.24**
04-Jan-15 20:00:00	04-Jan-15 21:00:00		0.00	0.00	0.00	5.10	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	04-Jan-15 20:00:00		**10.35**	**18.92**	**83.84**	**88.36**
04-Jan-15 21:00:00	04-Jan-15 22:00:00		0.00	0.00	0.00	5.50

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
06-Jan-15 19:00:00	06-Jan-15 20:00:00		0.00	0.00	0.00	5.12	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	06-Jan-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.37**
06-Jan-15 20:00:00	06-Jan-15 21:00:00		0.00	0.00	0.00	18.11	2.1	329.7		0.00	0.00	0.00	5.97		10.35	18.92	83.84	86.68	06-Jan-15 20:00:00		**10.35**	**18.92**	**83.84**	**92.65**
06-Jan-15 21:00:00	06-Jan-15 22:00:00		0.22	0.00	0.00	5.56	2.1	329.7		0.07	0.00	0.00	1.83		10.35	18.92	83.84	86.68	06-Jan-15 21:00:00		**10.42**	**18.92**	**83.84**	**88.51**
06-Jan-15 22:00:00	06-Jan-15 23:00:00		1.85	0.00	0.00	5.86	2.1	329.7		0.61	0.00	0.00	1.93		10.35	18.92	83.84	86.68	06-Jan-15 22:00:00		**10.96**	**18.92**	**83.84**	**88.61**
06-Jan-15 23:00:00	07-Jan-15 00:00:00		0.86	0.00	0.00	6.16	2.1	329.7		0.28	0.00	0.00	2.03		10.35	18.92	83.84	86.68	06-Jan-15 23:00:00		**10.63**	**18.92**	**83.84**	**88.71**
07-Jan-15 00:00:00	07-Jan-15 01:00:00		0.00	0.00	0.00	6.42	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	07-Jan-15 00:00:00		**10.35**	**18.92**	**83.84**	**88.80**
07-Jan-15 01:00:00	07-Jan-15 02:00:00		0.00	0.00	0.00	6.56	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	07-Jan-15 01:00:00		**10.35**	**18.92**	**83.84**	**88.84**
07-Jan-15 02:00:00	07-Jan-15 03:00:00		0.00	0.00	0.00	6.71	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	07-Jan-15 02:00:00		**10.35**	**18.92**	**83.84**	**88.89**
07-Jan-15 03:00:00	07-Jan-15 04:00:00		6.83	0.00	0.00	6.86	2.1	329.7		2.25	0.00	0.00	2.26		10.35	18.92	83.84	86.68	07-Jan-15 03:00:00		**12.60**	**18.92**	**83.84**	**88.94**
07-Jan-15 04:00:00	07-Jan-15 05:00:00		11.85	0.00	81.08	6.98	2.1	329.7		3.91	0.00	26.73	2.30		10.35	18.92	83.84	86.68	07-Jan-15 04:00:00		**14.26**	**18.92**	**110.57**	**88.98**
07-Jan-15 05:00:00	07-Jan-15 06:00:00		0.00	0.00	155.74	6.89	2.1	329.7		0.00	0.00	51.35	2.27		10.35	18.92	83.84	86.68	07-Jan-15 05:00:00		**10.35**	**18.92**	**135.19**	**88.95**
07-Jan-15 06:00:00	07-Jan-15 07:00:00		0.00	0.00	179.56	6.75	2.1	329.7		0.00	0.00	59.20	2.23		10.35	18.92	83.84	86.68	07-Jan-15 06:00:00		**10.35**	**18.92**	**143.04**	**88.91**
07-Jan-15 07:00:00	07-Jan-15 08:00:00		0.00	0.00	110.95	6.62	2.1	329.7		0.00	0.00	36.58	2.18		10.35	18.92	83.84	86.68	07-Jan-15 07:00:00		**10.35**	**18.92**	**120.42**	**88.86**
07-Jan-15 08:00:00	07-Jan-15 09:00:00		0.00	0.00	73.37	6.49	2.1	329.7		0.00	0.00	24.19	2.14		10.35	18.92	83.84	86.68	07-Jan-15 08:00:00		**10.35**	**18.92**	**108.03**	**88.82**
07-Jan-15 09:00:00	07-Jan-15 10:00:00		0.00	0.00	0.00	6.34	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	07-Jan-15 09:00:00		**10.35**	**18.92**	**83.84**	**88.77**
07-Jan-15 10:00:00	07-Jan-15 11:00:00		0.00	0.00	0.00	13.47	2.1	329.7		0.00	0.00	0.00	4.44		10.35	18.92	83.84	86.68	07-Jan-15 10:00:00		**10.35**	**18.92**	**83.84**	**91.12**
07-Jan-15 11:00:00	07-Jan-15 12:00:00		0.00	0.00	0.00	6.11	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	07-Jan-15 11:00:00		**10.35**	**18.92**	**83.84**	**88.69**
07-Jan-15 12:00:00	07-Jan-15 13:00:00		0.00	0.00	0.00	6.00	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	07-Jan-15 12:00:00		**10.35**	**18.92**	**83.84**	**88.66**
07-Jan-15 13:00:00	07-Jan-15 14:00:00		0.00	0.00	0.00	5.89	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	07-Jan-15 13:00:00		**10.35**	**18.92**	**83.84**	**88.62**
07-Jan-15 14:00:00	07-Jan-15 15:00:00		0.00	0.00	0.00	5.84	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	07-Jan-15 14:00:00		**10.35**	**18.92**	**83.84**	**88.61**
07-Jan-15 15:00:00	07-Jan-15 16:00:00		0.00	0.00	0.00	5.91	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	07-Jan-15 15:00:00		**10.35**	**18.92**	**83.84**	**88.63**
07-Jan-15 16:00:00	07-Jan-15 17:00:00		0.00	0.00	0.00	5.97	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	07-Jan-15 16:00:00		**10.35**	**18.92**	**83.84**	**88.65**
07-Jan-15 17:00:00	07-Jan-15 18:00:00		0.00	0.00	0.00	6.04	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	07-Jan-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.67**
07-Jan-15 18:00:00	07-Jan-15 19:00:00		0.00	0.00	0.00	6.03	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	07-Jan-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.67**
07-Jan-15 19:00:00	07-Jan-15 20:00:00		0.00	0.00	0.00	6.23	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	07-Jan-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.73**
07-Jan-15 20:00:00	07-Jan-15 21:00:00		0.00	0.00	0.00	6.51	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	07-Jan-15 20:00:00		**10.35**	**18.92**	**83.84**	**88.83**
07-Jan-15 21:00:00	07-Jan-15 22:00:00		0.00	0.00	0.00	6.79	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	07-Jan-15 21:00:00		**10.35**	**18.92**	**83.84**	**88.92**
07-Jan-15 22:00:00	07-Jan-15 23:00:00		3.00	0.00	0.00	7.04	2.1	329.7		0.99	0.00	0.00	2.32		10.35	18.92	83.84	86.68	07-Jan-15 22:00:00		**11.34**	**18.92**	**83.84**	**89.00**
07-Jan-15 23:00:00	08-Jan-15 00:00:00		2.03	0.00	0.00	7.21	2.1	329.7		0.67	0.00	0.00	2.38		10.35	18.92	83.84	86.68	07-Jan-15 23:00:00		**11.02**	**18.92**	**83.84**	**89.06**
08-Jan-15 00:00:00	08-Jan-15 01:00:00		0.42	0.00	0.00	7.39	2.1	329.7		0.14	0.00	0.00	2.44		10.35	18.92	83.84	86.68	08-Jan-15 00:00:00		**10.49**	**18.92**	**83.84**	**89.12**
08-Jan-15 01:00:00	08-Jan-15 02:00:00		6.98	0.00	0.00	7.57	2.1	329.7		2.30	0.00	0.00	2.50		10.35	18.92	83.84	86.68	08-Jan-15 01:00:00		**12.65**	**18.92**	**83.84**	**89.18**
08-Jan-15 02:00:00	08-Jan-15 03:00:00		2.77	0.00	0.00	7.77	2.1	329.7		0.91	0.00	0.00	2.56		10.35	18.92	83.84	86.68	08-Jan-15 02:00:00		**11.26**	**18.92**	**83.84**	**89.24**
08-Jan-15 03:00:00	08-Jan-15 04:00:00		5.90	0.00	0.00	7.99	2.1	329.7		1.95	0.00	0.00	2.63		10.35	18.92	83.84	86.68	08-Jan-15 03:00:00		**12.30**	**18.92**	**83.84**	**89.31**
08-Jan-15 04:00:00	08-Jan-15 05:00:00		6.94	0.00	0.00	8.21	2.1	329.7		2.29	0.00	0.00	2.71		10.35	18.92	83.84	86.68	08-Jan-15 04:00:00		**12.64**	**18.92**	**83.84**	**89.39**
08-Jan-15 05:00:00	08-Jan-15 06:00:00		1.14	0.00	0.00	8.44	2.1	329.7		0.38	0.00	0.00	2.78		10.35	18.92	83.84	86.68	08-Jan-15 05:00:00		**10.73**	**18.92**	**83.84**	**89.46**
08-Jan-15 06:00:00	08-Jan-15 07:00:00		2.99	0.00	0.00	8.56	2.1	329.7		0.98	0.00	0.00	2.82		10.35	18.92	83.84	86.68	08-Jan-15 06:00:00		**11.33**	**18.92**	**83.84**	**89.50**
08-Jan-15 07:00:00	08-Jan-15 08:00:00		0.69	0.00	0.00	8.47	2.1	329.7		0.23	0.00	0.00	2.79		10.35	18.92	83.84	86.68	08-Jan-15 07:00:00		**10.58**	**18.92**	**83.84**	**89.47**
08-Jan-15 08:00:00	08-Jan-15 09:00:00		1.56	0.00	17.81	8.36	2.1	329.7		0.52	0.00	5.87	2.76		10.35	18.92	83.84	86.68	08-Jan-15 08:00:00		**10.87**	**18.92**	**89.71**	**89.44**
08-Jan-15 09:00:00	08-Jan-15 10:00:00		0.52	0.00	2.51	8.26	2.1	329.7		0.17	0.00	0.83	2.72		10.35	18.92	83.84	86.68	08-Jan-15 09:00:00		**10.52**	**18.92**	**84.67**	**89.40**
08-Jan-15 10:00:00	08-Jan-15 11:00:00		0.00	0.00	4.45	8.08	2.1	329.7		0.00	0.00	1.47	2.66		10.35	18.92	83.84	86.68	08-Jan-15 10:00:00		**10.35**	**18.92**	**85.31**	**89.34**
08-Jan-15 11:00:00	08-Jan-15 12:00:00		0.00	213.46	0.00	7.84	2.1	329.7		0.00	70.38	0.00	2.59		10.35	18.92	83.84	86.68	08-Jan-15 11:00:00		**10.35**	**89.30**	**83.84**	**89.27**
08-Jan-15 12:00:00	08-Jan-15 13:00:00		0.00	700.42	0.00	7.66	2.1	329.7		0.00	230.93	0.00	2.52		10.35	18.92	83.84	86.68	08-Jan-15 12:00:00		**10.35**	**249.85**	**83.84**	**89.20**
08-Jan-15 13:00:00	08-Jan-15 14:00:00		0.47	687.08	0.00	7.47	2.1	329.7		0.15	226.53	0.00	2.46		10.35	18.92	83.84	86.68	08-Jan-15 13:00:00		**10.50**	**245.45**	**83.84**	**89.14**
08-Jan-15 14:00:00	08-Jan-15 15:00:00		2.15	628.21	0.00	47.59	2.1	329.7		0.71	207.12	0.00	15.69		10.35	18.92	83.84	86.68	08-Jan-15 14:00:00		**11.06**	**226.04**	**83.84**	**102.37**
08-Jan-15 15:00:00	08-Jan-15 16:00:00		3.90	639.05	0.00	650.37	2.1	329.7		1.28	210.69	0.00	214.43		10.35	18.92	83.84	86.68	08-Jan-15 15:00:00		**11.63**	**229.61**	**83.84**	**301.11**
08-Jan-15 16:00:00	08-Jan-15 17:00:00		3.18	710.27	0.00	173.50	2.1	329.7		1.05	234.17	0.00	57.20		10.35	18.92	83.84	86.68	08-Jan-15 16:00:00		**11.40**	**253.09**	**83.84**	**143.88**
08-Jan-15 17:00:00	08-Jan-15 18:00:00		0.00	745.03	0.00	6.53	2.1	329.7		0.00	245.64	0.00	2.15		10.35	18.92	83.84	86.68	08-Jan-15 17:00:00		**10.35**	**264.56**	**83.84**	**88.83**
08-Jan-15 18:00:00	08-Jan-15 19:00:00		0.00	793.27	0.00	6.63	2.1	329.7		0.00	261.54	0.00	2.19		10.35	18.92	83.84	86.68	08-Jan-15 18:00:00		**10.35**	**280.46**	**83.84**	**88.87**
08-Jan-15 19:00:00	08-Jan-15 20:00:00		0.00	806.50	0.00	6.73	2.1	329.7		0.00	265.90	0.00	2.22		10.35	18.92	83.84	86.68	08-Jan-15 19:00:00		**10.35**	**284.82**	**83.84**	**88.90**
08-Jan-15 20:00:00	08-Jan-15 21:00:00		0.00	693.54	0.00	6.82	2.1	329.7		0.00	228.66	0.00	2.25		10.35	18.92	83.84	86.68	08-Jan-15 20:00:00		**10.35**	**247.58**	**83.84**	**88.93**
08-Jan-15 21:00:00	08-Jan-15 22:00:00		0.00	793.65	0.00	6.96	2.1	329.7		0.00	261.67	0.00	2.29		10.35	18.92	83.84	86.68	08-Jan-15 21:00:00		**10.35**	**280.59**	**83.84**	**88.97**
08-Jan-15 22:00:00	08-Jan-15 23:00:00		0.00	799.07	0.00	7.10	2.1	329.7		0.00	263.45	0.00	2.34		10.35	18.92	83.84	86.68	08-Jan-15 22:00:00		**10.35**	**282.37**	**83.84**	**89.02**
08-Jan-15 23:00:00	09-Jan-15 00:00:00		0.00	695.10	0.00	7.25	2.1	329.7		0.00	229.17	0.00	2.39		10.35	18.92	83.84	86.68	08-Jan-15 23:00:00		**10.35**	**248.09**	**83.84**	**89.07**
09-Jan-15 00:00:00	09-Jan-15 01:00:00		0.00	1,246.08	0.00	7.30	2.1	329.7		0.00	410.83	0.00	2.41		10.35	18.92	83.84	86.68	09-Jan-15 00:00:00		**10.35**	**429.75**	**83.84**	**89.09**
09-Jan-15 01:00:00	09-Jan-15 02:00:00		267.36	1,225.07	0.00	7.19	2.1	329.7		88.15	403.90	0.00	2.37		10.35	18.92	83.84	86.68	09-Jan-15 01:00:00		**98.50**	**422.82**	**83.84**	**89.05**
09-Jan-15 02:00:00	09-Jan-15 03:00:00		621.30	1,337.12	0.00	7.08	2.1	329.7		204.84	440.85	0.00	2.33		10.35	18.92	83.84	86.68	09-Jan-15 02:00:00		**215.19**	**459.77**	**83.84**	**89.01**
09-Jan-15 03:00:00	09-Jan-15 04:00:00		708.47	1,327.97	0.00	6.97	2.1	329.7		233.58	437.83	0.00	2.30		10.35	18.92	83.84	86.68	09-Jan-15 03:00:00		**243.93**	**456.75**	**83.84**	**88.98**
09-Jan-15 04:00:00	09-Jan-15 05:00:00		591.77	1,240.65	0.00	6.88	2.1	329.7		195.11	409.04	0.00	2.27		10.35	18.92	83.84	86.68	09-Jan-15 04:00:00		**205.46**	**427.96**	**83.84**	**88.95**
09-Jan-15 05:00:00	09-Jan-15 06:00:00		525.12	1,146.11	0.00	6.90	2.1	329.7		173.13	377.87	0.00	2.28		10.35	18.92	83.84	86.68	09-Jan-15 05:00:00		**183.48**	**396.79**	**83.84**	**88.96**
09-Jan-15 06:00:00	09-Jan-15 07:00:00		471.23	1,068.80	12.09	6.94	2.1	329.7		155.36	352.38	3.99	2.29		10.35	18.92	83.84	86.68	09-Jan-15 06:00:00		**165.71**	**371.30**	**87.83**	**88.97**
09-Jan-15 07:00:00	09-Jan-15 08:00:00		434.33	873.33	87.43	6.97	2.1	329.7		143.20	287.94	28.83	2.30		10.35	18.92	83.84	86.68	09-Jan-15 07:00:00		**153.55**	**306.86**	**112.67**	**88.98**
09-Jan-15 08:00:00	09-Jan-15 09:00:00		443.01	871.17	227.11	7.02	2.1	329.7		146.06	287.22	74.88	2.32		10.35	18.92	83.84	86.68	09-Jan-15 08:00:00		**156.41**	**306.14**	**158.72**	**89.00**
09-Jan-15 09:00:00	09-Jan-15 10:00:00		655.74	862.50	434.24	7.12	2.1	329.7		216.20	284.37	143.17	2.35		10.35	18.92	83.84	86.68	09-Jan-15 09:00:00		**226.55**	**303.29**	**227.01**	**89.03**
09-Jan-15 10:00:00	09-Jan-15 11:00:00		590.56	869.56	392.05	388.88	2.1	329.7		194.71	286.69	129.26	128.21		10.35	18.92	83.84	86.68	09-Jan-15 10:00:00		**205.06**	**305.61**	**213.10**	**214.89**
09-Jan-15 11:00:00	09-Jan-15 12:00:00		700.65	866.74	391.58	431.18	2.1	329.7		231.00	285.77	129.11	142.16		10.35	18.92	83.84	86.68	09-Jan-15 11:00:00		**241.35**	**304.69**	**212.95**	**228.84**
09-Jan-15 12:00:00	09-Jan-15 13:00:00		751.60	866.17	214.20	217.20	2.1	329.7		247.80	285.58	70.62	71.61		10.35	18.92	83.84	86.68	09-Jan-15 12:00:00		**258.15**	**304.50**	**154.46**	**158.29**
09-Jan-15 13:00:00	09-Jan-15 14:00:00		697.73	1,077.13	78.14	177.94	2.1	329.7		230.04	355.13	25.73	58.67		10.35	18.92	83.84	86.68	09-Jan-15 13:00:00		**240.39**	**374.05**	**109.57**	**145.35**
09-Jan-15 14:00:00	09-Jan-15 15:00:00		982.61	1,036.89	0.00	161.33	2.1	329.7		323.97	341.86	0.00	53.19		10.35	18.92	83.84	86.68	09-Jan-15 14:00:00		**334.32**	**360.78**	**83.84**	**139.87**
09-Jan-15 15:00:00	09-Jan-15 16:00:00		1,435.19	1,772.92	66.32	201.04	2.1	329.7		473.18	584.53	21.86	66.28		10.35	18.92	83.84	86.68	09-Jan-15 15:00:00		**483.53**	**603.45**	**105.70**	**152.96**
09-Jan-15 16:00:00	09-Jan-15 17:00:00		1,528.59	2,190.62	142.71	290.62	2.1	329.7		503.98	722.25	47.05	95.82		10.35	18.92	83.84	86.68	09-Jan-15 16:00:00		**514.33**	**741.17**	**130.89**	**182.50**
09-Jan-15 17:00:00	09-Jan-15 18:00:00		1,544.05	2,254.41	73.93	178.98	2.1	329.7		509.07	743.28	24.38	59.01		10.35	18.92	83.84	86.68	09-Jan-15 17:00:00		**519.42**	**762.20**	**108.22**	**145.69**
09-Jan-15 18:00:00	09-Jan-15 19:00:00		1,518.44	2,294.48	58.96	249.63	2.1	329.7		500.63	756.49	19.44	82.30		10.35	18.92	83.84	86.68	09-Jan-15 18:00:00		**510.98**	**775.41**	**103.28**	**168.98**
09-Jan-15 19:00:00	09-Jan-15 20:00:00		1,539.48	2,383.21	62.54	324.72	2.1	329.7		507.57	785.74	20.62	107.06		10.35	18.92	83.84	86.68	09-Jan-15 19:00:00		**517.92**	**804.66**	**104.46**	**191.74**
09-Jan-15 20:00:00	09-Jan-15 21:00:00		1,567.00	2,483.66	388.88	133.21	2.1	329.7		516.64	818.86	128.21	43.92		10.35	18.92	83.84	86.68	09-Jan-15 20:00:00		**526.99**	**837.78**	**212.05**	**130.60**
09-Jan-15 21:00:00	09-Jan-15 22:00:00		1,563.80	2,422.08	783.32	5.70	2.1	329.7		515.58	798.56	258.26	1.88		10.35	18.92	83.84	86.68	09-Jan-15 21:00:00		**525.93**	**817.48**	**342.10**	**88.56**
09-Jan-15 22:00:00	09-Jan-15 23:00:00		1,563.83	2,403.87	195.13	6.12	2.1	329.7		515.60	792.56	64.33	2.02		10.35	18.92	83.84	86.68	09-Jan-15 22:00:00		**525.95**	**811.48**	**148.17**	**88.70**
09-Jan-15 23:00:00	10-Jan-15 00:00:00		1,561.42	2,476.67	47.01	6.55	2.1	329.7		514.80	816.56	15.50	2.16		10.35	18.92	83.84	86.68	09-Jan-15 23:00:00		**525.15**	**835.48**	**99.34**	**88.84**
10-Jan-15 00:00:00	10-Jan-15 01:00:00		1,580.04	2,555.01	0.00	7.12	2.1	329.7		520.94	842.39	0.00	2.35		10.35	18.92	83.84	86.68	10-Jan-15 00:00:00		**531.29**	**861.31**	**83.84**	**89.03**
10-Jan-15 01:00:00	10-Jan-15 02:00:00		1,585.29	2,573.22	0.00	9.49	2.1	329.7		522.67	848.39	0.00	3.13		10.35	18.92	83.84	86.68	10-Jan-15 01:00:00		**533.02**	**867.31**	**83.84**	**89.81**
10-Jan-15 02:00:00	10-Jan-15 03:00:00		1,583.07	2,766.71	0.00	7.25	2.1	329.7		521.94	912.19	0.00	2.39		10.35	18.92	83.84	86.68	10-Jan-15 02:00:00		**532.29**	**931.11**	**83.84**	**89.07**
10-Jan-15 03:00:00	10-Jan-15 04:00:00		1,601.00	2,704.45	0.00	7.40	2.1	329.7		527.85	891.66	0.00	2.44		10.35	18.92	83.84	86.68	10-Jan-15 03:00:00		**538.20**	**910.58**	**83.84**	**89.12**
10-Jan-15 04:00:00	10-Jan-15 05:00:00		1,379.25	2,756.61	0.00	12.83	2.1	329.7		454.74	908.85	0.00	4.23		10.35	18.92	83.84	86.68	10-Jan-15 04:00:00		**465.09**	**927.77**	**83.84**	**90.91**
10-Jan-15 05:00:00	10-Jan-15 06:00:00		1,255.60	2,685.45	0.00	13.66	2.1	329.7		413.97	885.39	0.00	4.50		10.35	18.92	83.84	86.68	10-Jan-15 05:00:00		**424.32**	**904.31**	**83.84**	**91.18**
10-Jan-15 06:00:00	10-Jan-15 07:00:00		1,233.03	2,767.74	0.00	14.36	2.1	329.7		406.53	912.52	0.00	4.74		10.35	18.92	83.84	86.68	10-Jan-15 06:00:00		**416.88**	**931.44**	**83.84**	**91.42**
10-Jan-15 07:00:00	10-Jan-15 08:00:00		1,029.52	2,880.09	0.00	436.39	2.1	329.7		339.43	949.57	0.00	143.88		10.35	18.92	83.84	86.68	10-Jan-15 07:00:00		**349.78**	**968.49**	**83.84**	**230.56**
10-Jan-15 08:00:00	10-Jan-15 09:00:00		694.04	1,542.58	80.34	475.17	2.1	329.7		228.83	508.59	26.49	156.66		10.35	18.92	83.84	86.68	10-Jan-15 08:00:00		**239.18**	**527.51**	**110.33**	**243.34**
10-Jan-15 09:00:00	10-Jan-15 10:00:00		676.22	2,340.67	145.38	454.78	2.1	329.7		222.95	771.72	47.93	149.94		10.35	18.92	83.84	86.68	10-Jan-15 09:00:00		**233.30**	**790.64**	**131.77**	**236.62**
10-Jan-15 10:00:00	10-Jan-15 11:00:00		628.17	2,456.29	0.00	359.50	2.1	329.7		207.11	809.84	0.00	118.53		10.35	18.92	83.84	86.68	10-Jan-15 10:00:00		**217.46**	**828.76**	**83.84**	**205.21**
10-Jan-15 11:00:00	10-Jan-15 12:00:00		631.82	2,448.59	0.00	74.63	2.1	329.7		208.31	807.30	0.00	24.60		10.35	18.92	83.84	86.68	10-Jan-15 11:00:00		**218.66**	**826.22**	**83.84**	**111.28**
10-Jan-15 12:00:00	10-Jan-15 13:00:00		629.50	2,492.16	0.00	6.27	2.1	329.7		207.55	821.66	0.00	2.07		10.35	18.92	83.84	86.68	10-Jan-15 12:00:00		**217.90**	**840.58**	**83.84**	**88.75**
10-Jan-15 13:00:00	10-Jan-15 14:00:00		618.47	2,539.78	0.00	6.10	2.1	329.7		203.91	837.37	0.00	2.01		10.35	18.92	83.84	86.68	10-Jan-15 13:00:00		**214.26**	**856.29**	**83.84**	**88.69**
10-Jan-15 14:00:00	10-Jan-15 15:00:00		573.00	2,534.88	0.00	5.93	2.1	329.7		188.92	835.75	0.00	1.95		10.35	18.92	83.84	86.68	10-Jan-15 14:00:00		**199.27**	**854.67**	**83.84**	**88.63**
10-Jan-15 15:00:00	10-Jan-15 16:00:00		573.64	2,504.78	0.00	5.86	2.1	329.7		189.13	825.83	0.00	1.93		10.35	18.92	83.84	86.68

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
12-Jan-15 14:00:00	12-Jan-15 15:00:00		0.00	1,948.70	0.00	5.39	2.1	329.7		0.00	642.49	0.00	1.78		10.35	18.92	83.84	86.68	12-Jan-15 14:00:00		**10.35**	**661.41**	**83.84**	**88.46**
12-Jan-15 15:00:00	12-Jan-15 16:00:00		0.00	1,949.11	0.00	5.38	2.1	329.7		0.00	642.62	0.00	1.77		10.35	18.92	83.84	86.68	12-Jan-15 15:00:00		**10.35**	**661.54**	**83.84**	**88.45**
12-Jan-15 16:00:00	12-Jan-15 17:00:00		102.84	1,947.01	0.00	5.33	2.1	329.7		33.91	641.93	0.00	1.76		10.35	18.92	83.84	86.68	12-Jan-15 16:00:00		**44.26**	**660.85**	**83.84**	**88.44**
12-Jan-15 17:00:00	12-Jan-15 18:00:00		17.63	1,948.52	0.00	5.27	2.1	329.7		5.81	642.43	0.00	1.74		10.35	18.92	83.84	86.68	12-Jan-15 17:00:00		**16.16**	**661.35**	**83.84**	**88.42**
12-Jan-15 18:00:00	12-Jan-15 19:00:00		0.00	1,947.90	0.00	6.94	2.1	329.7		0.00	642.22	0.00	2.29		10.35	18.92	83.84	86.68	12-Jan-15 18:00:00		**10.35**	**661.14**	**83.84**	**88.97**
12-Jan-15 19:00:00	12-Jan-15 20:00:00		0.00	1,948.36	0.00	5.44	2.1	329.7		0.00	642.37	0.00	1.79		10.35	18.92	83.84	86.68	12-Jan-15 19:00:00		**10.35**	**661.29**	**83.84**	**88.47**
12-Jan-15 20:00:00	12-Jan-15 21:00:00		0.00	1,947.72	0.00	5.49	2.1	329.7		0.00	642.16	0.00	1.81		10.35	18.92	83.84	86.68	12-Jan-15 20:00:00		**10.35**	**661.08**	**83.84**	**88.49**
12-Jan-15 21:00:00	12-Jan-15 22:00:00		0.00	1,947.91	0.00	5.55	2.1	329.7		0.00	642.22	0.00	1.83		10.35	18.92	83.84	86.68	12-Jan-15 21:00:00		**10.35**	**661.14**	**83.84**	**88.51**
12-Jan-15 22:00:00	12-Jan-15 23:00:00		0.00	1,947.94	0.00	5.62	2.1	329.7		0.00	642.24	0.00	1.85		10.35	18.92	83.84	86.68	12-Jan-15 22:00:00		**10.35**	**661.16**	**83.84**	**88.53**
12-Jan-15 23:00:00	13-Jan-15 00:00:00		0.00	1,948.43	0.00	5.73	2.1	329.7		0.00	642.40	0.00	1.89		10.35	18.92	83.84	86.68	12-Jan-15 23:00:00		**10.35**	**661.32**	**83.84**	**88.57**
13-Jan-15 00:00:00	13-Jan-15 01:00:00		0.00	1,948.11	0.00	5.66	2.1	329.7		0.00	642.29	0.00	1.86		10.35	18.92	83.84	86.68	13-Jan-15 00:00:00		**10.35**	**661.21**	**83.84**	**88.54**
13-Jan-15 01:00:00	13-Jan-15 02:00:00		0.00	1,946.06	0.00	5.58	2.1	329.7		0.00	641.61	0.00	1.84		10.35	18.92	83.84	86.68	13-Jan-15 01:00:00		**10.35**	**660.53**	**83.84**	**88.52**
13-Jan-15 02:00:00	13-Jan-15 03:00:00		0.00	1,945.74	0.00	5.51	2.1	329.7		0.00	641.51	0.00	1.82		10.35	18.92	83.84	86.68	13-Jan-15 02:00:00		**10.35**	**660.43**	**83.84**	**88.50**
13-Jan-15 03:00:00	13-Jan-15 04:00:00		0.00	1,945.42	0.00	5.59	2.1	329.7		0.00	641.41	0.00	1.84		10.35	18.92	83.84	86.68	13-Jan-15 03:00:00		**10.35**	**660.33**	**83.84**	**88.52**
13-Jan-15 04:00:00	13-Jan-15 05:00:00		0.00	1,946.21	0.00	5.62	2.1	329.7		0.00	641.67	0.00	1.85		10.35	18.92	83.84	86.68	13-Jan-15 04:00:00		**10.35**	**660.59**	**83.84**	**88.53**
13-Jan-15 05:00:00	13-Jan-15 06:00:00		0.19	1,946.26	0.00	5.64	2.1	329.7		0.06	641.68	0.00	1.86		10.35	18.92	83.84	86.68	13-Jan-15 05:00:00		**10.41**	**660.60**	**83.84**	**88.54**
13-Jan-15 06:00:00	13-Jan-15 07:00:00		0.00	1,946.50	0.00	5.67	2.1	329.7		0.00	641.76	0.00	1.87		10.35	18.92	83.84	86.68	13-Jan-15 06:00:00		**10.35**	**660.68**	**83.84**	**88.55**
13-Jan-15 07:00:00	13-Jan-15 08:00:00		0.00	1,945.66	21.15	5.83	2.1	329.7		0.00	641.49	6.97	1.92		10.35	18.92	83.84	86.68	13-Jan-15 07:00:00		**10.35**	**660.41**	**90.81**	**88.60**
13-Jan-15 08:00:00	13-Jan-15 09:00:00		0.00	1,947.98	27.53	6.04	2.1	329.7		0.00	642.25	9.08	1.99		10.35	18.92	83.84	86.68	13-Jan-15 08:00:00		**10.35**	**661.17**	**92.92**	**88.67**
13-Jan-15 09:00:00	13-Jan-15 10:00:00		0.00	1,946.62	96.25	6.25	2.1	329.7		0.00	641.80	31.73	2.06		10.35	18.92	83.84	86.68	13-Jan-15 09:00:00		**10.35**	**660.72**	**115.57**	**88.74**
13-Jan-15 10:00:00	13-Jan-15 11:00:00		0.00	1,949.30	97.16	6.45	2.1	329.7		0.00	642.68	32.03	2.13		10.35	18.92	83.84	86.68	13-Jan-15 10:00:00		**10.35**	**661.60**	**115.87**	**88.81**
13-Jan-15 11:00:00	13-Jan-15 12:00:00		0.00	1,949.15	98.07	6.51	2.1	329.7		0.00	642.63	32.33	2.15		10.35	18.92	83.84	86.68	13-Jan-15 11:00:00		**10.35**	**661.55**	**116.17**	**88.83**
13-Jan-15 12:00:00	13-Jan-15 13:00:00		0.00	1,947.18	102.38	6.46	2.1	329.7		0.00	641.98	33.76	2.13		10.35	18.92	83.84	86.68	13-Jan-15 12:00:00		**10.35**	**660.90**	**117.60**	**88.81**
13-Jan-15 13:00:00	13-Jan-15 14:00:00		0.00	1,948.32	102.81	58.57	2.1	329.7		0.00	642.36	33.90	19.31		10.35	18.92	83.84	86.68	13-Jan-15 13:00:00		**10.35**	**661.28**	**117.74**	**105.99**
13-Jan-15 14:00:00	13-Jan-15 15:00:00		0.00	1,939.21	23.17	6.42	2.1	329.7		0.00	639.36	7.64	2.12		10.35	18.92	83.84	86.68	13-Jan-15 14:00:00		**10.35**	**658.28**	**91.48**	**88.80**
13-Jan-15 15:00:00	13-Jan-15 16:00:00		0.00	1,941.40	77.37	6.42	2.1	329.7		0.00	640.08	25.51	2.12		10.35	18.92	83.84	86.68	13-Jan-15 15:00:00		**10.35**	**659.00**	**109.35**	**88.80**
13-Jan-15 16:00:00	13-Jan-15 17:00:00		0.00	1,945.69	286.47	6.41	2.1	329.7		0.00	641.49	94.45	2.11		10.35	18.92	83.84	86.68	13-Jan-15 16:00:00		**10.35**	**660.41**	**178.29**	**88.79**
13-Jan-15 17:00:00	13-Jan-15 18:00:00		0.00	1,948.63	21.03	6.41	2.1	329.7		0.00	642.46	6.93	2.11		10.35	18.92	83.84	86.68	13-Jan-15 17:00:00		**10.35**	**661.38**	**90.77**	**88.79**
13-Jan-15 18:00:00	13-Jan-15 19:00:00		0.00	1,949.73	0.00	6.38	2.1	329.7		0.00	642.83	0.00	2.11		10.35	18.92	83.84	86.68	13-Jan-15 18:00:00		**10.35**	**661.75**	**83.84**	**88.79**
13-Jan-15 19:00:00	13-Jan-15 20:00:00		0.00	1,949.52	34.71	6.35	2.1	329.7		0.00	642.76	11.44	2.10		10.35	18.92	83.84	86.68	13-Jan-15 19:00:00		**10.35**	**661.68**	**95.28**	**88.78**
13-Jan-15 20:00:00	13-Jan-15 21:00:00		0.00	1,949.53	60.45	74.57	2.1	329.7		0.00	642.76	19.93	24.59		10.35	18.92	83.84	86.68	13-Jan-15 20:00:00		**10.35**	**661.68**	**103.77**	**111.27**
13-Jan-15 21:00:00	13-Jan-15 22:00:00		0.00	1,948.30	63.47	414.28	2.1	329.7		0.00	642.35	20.93	136.59		10.35	18.92	83.84	86.68	13-Jan-15 21:00:00		**10.35**	**661.27**	**104.77**	**223.27**
13-Jan-15 22:00:00	13-Jan-15 23:00:00		0.00	1,946.83	0.00	410.63	2.1	329.7		0.00	641.87	0.00	135.39		10.35	18.92	83.84	86.68	13-Jan-15 22:00:00		**10.35**	**660.79**	**83.84**	**222.07**
13-Jan-15 23:00:00	14-Jan-15 00:00:00		0.00	93.40	0.00	430.84	2.1	329.7		0.00	30.79	0.00	142.05		10.35	18.92	83.84	86.68	13-Jan-15 23:00:00		**10.35**	**49.71**	**83.84**	**228.73**
14-Jan-15 00:00:00	14-Jan-15 01:00:00		0.00	0.00	0.00	620.71	2.1	329.7		0.00	0.00	0.00	204.65		10.35	18.92	83.84	86.68	14-Jan-15 00:00:00		**10.35**	**18.92**	**83.84**	**291.33**
14-Jan-15 01:00:00	14-Jan-15 02:00:00		0.00	0.00	0.00	643.91	2.1	329.7		0.00	0.00	0.00	212.30		10.35	18.92	83.84	86.68	14-Jan-15 01:00:00		**10.35**	**18.92**	**83.84**	**298.98**
14-Jan-15 02:00:00	14-Jan-15 03:00:00		0.00	0.00	0.00	674.56	2.1	329.7		0.00	0.00	0.00	222.40		10.35	18.92	83.84	86.68	14-Jan-15 02:00:00		**10.35**	**18.92**	**83.84**	**309.08**
14-Jan-15 03:00:00	14-Jan-15 04:00:00		0.00	0.00	0.00	686.32	2.1	329.7		0.00	0.00	0.00	226.28		10.35	18.92	83.84	86.68	14-Jan-15 03:00:00		**10.35**	**18.92**	**83.84**	**312.96**
14-Jan-15 04:00:00	14-Jan-15 05:00:00		0.00	0.00	0.00	415.29	2.1	329.7		0.00	0.00	0.00	136.92		10.35	18.92	83.84	86.68	14-Jan-15 04:00:00		**10.35**	**18.92**	**83.84**	**223.60**
14-Jan-15 05:00:00	14-Jan-15 06:00:00		0.00	0.00	0.00	386.95	2.1	329.7		0.00	0.00	0.00	127.58		10.35	18.92	83.84	86.68	14-Jan-15 05:00:00		**10.35**	**18.92**	**83.84**	**214.26**
14-Jan-15 06:00:00	14-Jan-15 07:00:00		0.00	0.00	0.00	109.95	2.1	329.7		0.00	0.00	0.00	36.25		10.35	18.92	83.84	86.68	14-Jan-15 06:00:00		**10.35**	**18.92**	**83.84**	**122.93**
14-Jan-15 07:00:00	14-Jan-15 08:00:00		0.00	0.00	0.00	6.39	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	14-Jan-15 07:00:00		**10.35**	**18.92**	**83.84**	**88.79**
14-Jan-15 08:00:00	14-Jan-15 09:00:00		0.06	0.00	0.00	6.46	2.1	329.7		0.02	0.00	0.00	2.13		10.35	18.92	83.84	86.68	14-Jan-15 08:00:00		**10.37**	**18.92**	**83.84**	**88.81**
14-Jan-15 09:00:00	14-Jan-15 10:00:00		0.07	0.00	0.00	6.53	2.1	329.7		0.02	0.00	0.00	2.15		10.35	18.92	83.84	86.68	14-Jan-15 09:00:00		**10.37**	**18.92**	**83.84**	**88.83**
14-Jan-15 10:00:00	14-Jan-15 11:00:00		0.14	0.00	0.00	11.35	2.1	329.7		0.05	0.00	0.00	3.74		10.35	18.92	83.84	86.68	14-Jan-15 10:00:00		**10.40**	**18.92**	**83.84**	**90.42**
14-Jan-15 11:00:00	14-Jan-15 12:00:00		0.00	0.00	0.00	6.39	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	14-Jan-15 11:00:00		**10.35**	**18.92**	**83.84**	**88.79**
14-Jan-15 12:00:00	14-Jan-15 13:00:00		0.00	0.00	0.00	6.14	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	14-Jan-15 12:00:00		**10.35**	**18.92**	**83.84**	**88.71**
14-Jan-15 13:00:00	14-Jan-15 14:00:00		0.00	0.00	0.00	37.18	2.1	329.7		0.00	0.00	0.00	12.26		10.35	18.92	83.84	86.68	14-Jan-15 13:00:00		**10.35**	**18.92**	**83.84**	**98.94**
14-Jan-15 14:00:00	14-Jan-15 15:00:00		0.00	0.00	0.00	5.80	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	14-Jan-15 14:00:00		**10.35**	**18.92**	**83.84**	**88.59**
14-Jan-15 15:00:00	14-Jan-15 16:00:00		0.00	0.00	0.00	5.65	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	14-Jan-15 15:00:00		**10.35**	**18.92**	**83.84**	**88.54**
14-Jan-15 16:00:00	14-Jan-15 17:00:00		0.00	0.00	0.00	5.50	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	14-Jan-15 16:00:00		**10.35**	**18.92**	**83.84**	**88.49**
14-Jan-15 17:00:00	14-Jan-15 18:00:00		0.00	0.00	0.00	79.93	2.1	329.7		0.00	0.00	0.00	26.35		10.35	18.92	83.84	86.68	14-Jan-15 17:00:00		**10.35**	**18.92**	**83.84**	**113.03**
14-Jan-15 18:00:00	14-Jan-15 19:00:00		0.00	0.00	0.00	5.53	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	14-Jan-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.50**
14-Jan-15 19:00:00	14-Jan-15 20:00:00		0.00	0.00	0.00	5.55	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	14-Jan-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.51**
14-Jan-15 20:00:00	14-Jan-15 21:00:00		0.00	0.00	0.00	5.57	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	14-Jan-15 20:00:00		**10.35**	**18.92**	**83.84**	**88.52**
14-Jan-15 21:00:00	14-Jan-15 22:00:00		0.00	0.00	0.00	22.91	2.1	329.7		0.00	0.00	0.00	7.55		10.35	18.92	83.84	86.68	14-Jan-15 21:00:00		**10.35**	**18.92**	**83.84**	**94.23**
14-Jan-15 22:00:00	14-Jan-15 23:00:00		186.65	0.00	0.00	5.70	2.1	329.7		61.54	0.00	0.00	1.88		10.35	18.92	83.84	86.68	14-Jan-15 22:00:00		**71.89**	**18.92**	**83.84**	**88.56**
14-Jan-15 23:00:00	15-Jan-15 00:00:00		892.18	0.00	0.00	5.80	2.1	329.7		294.15	0.00	0.00	1.91		10.35	18.92	83.84	86.68	14-Jan-15 23:00:00		**304.50**	**18.92**	**83.84**	**88.59**
15-Jan-15 00:00:00	15-Jan-15 01:00:00		827.87	0.00	0.00	5.90	2.1	329.7		272.95	0.00	0.00	1.95		10.35	18.92	83.84	86.68	15-Jan-15 00:00:00		**283.30**	**18.92**	**83.84**	**88.63**
15-Jan-15 01:00:00	15-Jan-15 02:00:00		237.55	0.00	0.00	6.02	2.1	329.7		78.32	0.00	0.00	1.98		10.35	18.92	83.84	86.68	15-Jan-15 01:00:00		**88.67**	**18.92**	**83.84**	**88.66**
15-Jan-15 02:00:00	15-Jan-15 03:00:00		0.00	0.00	0.00	6.16	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	15-Jan-15 02:00:00		**10.35**	**18.92**	**83.84**	**88.71**
15-Jan-15 03:00:00	15-Jan-15 04:00:00		0.00	0.00	0.00	42.20	2.1	329.7		0.00	0.00	0.00	13.91		10.35	18.92	83.84	86.68	15-Jan-15 03:00:00		**10.35**	**18.92**	**83.84**	**100.59**
15-Jan-15 04:00:00	15-Jan-15 05:00:00		0.00	0.00	0.00	6.41	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	15-Jan-15 04:00:00		**10.35**	**18.92**	**83.84**	**88.79**
15-Jan-15 05:00:00	15-Jan-15 06:00:00		0.00	0.00	0.00	6.44	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	15-Jan-15 05:00:00		**10.35**	**18.92**	**83.84**	**88.80**
15-Jan-15 06:00:00	15-Jan-15 07:00:00		0.00	0.00	0.00	13.34	2.1	329.7		0.00	0.00	0.00	4.40		10.35	18.92	83.84	86.68	15-Jan-15 06:00:00		**10.35**	**18.92**	**83.84**	**91.08**
15-Jan-15 07:00:00	15-Jan-15 08:00:00		0.00	0.00	0.00	6.46	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	15-Jan-15 07:00:00		**10.35**	**18.92**	**83.84**	**88.81**
15-Jan-15 08:00:00	15-Jan-15 09:00:00		0.00	0.00	0.00	6.42	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	15-Jan-15 08:00:00		**10.35**	**18.92**	**83.84**	**88.80**
15-Jan-15 09:00:00	15-Jan-15 10:00:00		0.00	0.00	0.00	6.38	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	15-Jan-15 09:00:00		**10.35**	**18.92**	**83.84**	**88.78**
15-Jan-15 10:00:00	15-Jan-15 11:00:00		0.00	0.00	0.00	7.87	2.1	329.7		0.00	0.00	0.00	2.59		10.35	18.92	83.84	86.68	15-Jan-15 10:00:00		**10.35**	**18.92**	**83.84**	**89.27**
15-Jan-15 11:00:00	15-Jan-15 12:00:00		0.00	0.00	0.00	6.10	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	15-Jan-15 11:00:00		**10.35**	**18.92**	**83.84**	**88.69**
15-Jan-15 12:00:00	15-Jan-15 13:00:00		0.00	0.00	0.00	5.83	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	15-Jan-15 12:00:00		**10.35**	**18.92**	**83.84**	**88.60**
15-Jan-15 13:00:00	15-Jan-15 14:00:00		0.00	0.00	0.00	5.57	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	15-Jan-15 13:00:00		**10.35**	**18.92**	**83.84**	**88.51**
15-Jan-15 14:00:00	15-Jan-15 15:00:00		0.00	0.00	0.00	7.00	2.1	329.7		0.00	0.00	0.00	2.31		10.35	18.92	83.84	86.68	15-Jan-15 14:00:00		**10.35**	**18.92**	**83.84**	**88.99**
15-Jan-15 15:00:00	15-Jan-15 16:00:00		0.00	0.00	0.00	5.24	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	15-Jan-15 15:00:00		**10.35**	**18.92**	**83.84**	**88.41**
15-Jan-15 16:00:00	15-Jan-15 17:00:00		0.00	0.00	0.00	5.23	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	15-Jan-15 16:00:00		**10.35**	**18.92**	**83.84**	**88.40**
15-Jan-15 17:00:00	15-Jan-15 18:00:00		0.00	0.00	0.00	12.97	2.1	329.7		0.00	0.00	0.00	4.28		10.35	18.92	83.84	86.68	15-Jan-15 17:00:00		**10.35**	**18.92**	**83.84**	**90.96**
15-Jan-15 18:00:00	15-Jan-15 19:00:00		0.00	0.00	0.00	668.27	2.1	329.7		0.00	0.00	0.00	220.33		10.35	18.92	83.84	86.68	15-Jan-15 18:00:00		**10.35**	**18.92**	**83.84**	**307.01**
15-Jan-15 19:00:00	15-Jan-15 20:00:00		0.00	0.00	0.00	596.97	2.1	329.7		0.00	0.00	0.00	196.82		10.35	18.92	83.84	86.68	15-Jan-15 19:00:00		**10.35**	**18.92**	**83.84**	**283.50**
15-Jan-15 20:00:00	15-Jan-15 21:00:00		0.00	0.00	0.00	93.09	2.1	329.7		0.00	0.00	0.00	30.69		10.35	18.92	83.84	86.68	15-Jan-15 20:00:00		**10.35**	**18.92**	**83.84**	**117.37**
15-Jan-15 21:00:00	15-Jan-15 22:00:00		0.00	0.00	0.00	5.19	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	15-Jan-15 21:00:00		**10.35**	**18.92**	**83.84**	**88.39**
15-Jan-15 22:00:00	15-Jan-15 23:00:00		0.00	0.00	0.00	5.36	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	15-Jan-15 22:00:00		**10.35**	**18.92**	**83.84**	**88.45**
15-Jan-15 23:00:00	16-Jan-15 00:00:00		0.00	0.00	0.00	5.53	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	15-Jan-15 23:00:00		**10.35**	**18.92**	**83.84**	**88.50**
16-Jan-15 00:00:00	16-Jan-15 01:00:00		0.00	0.00	0.00	5.72	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	16-Jan-15 00:00:00		**10.35**	**18.92**	**83.84**	**88.56**
16-Jan-15 01:00:00	16-Jan-15 02:00:00		0.00	0.00	0.00	5.86	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	16-Jan-15 01:00:00		**10.35**	**18.92**	**83.84**	**88.61**
16-Jan-15 02:00:00	16-Jan-15 03:00:00		0.00	0.00	0.00	5.84	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	16-Jan-15 02:00:00		**10.35**	**18.92**	**83.84**	**88.60**
16-Jan-15 03:00:00	16-Jan-15 04:00:00		0.00	0.00	0.00	5.81	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	16-Jan-15 03:00:00		**10.35**	**18.92**	**83.84**	**88.60**
16-Jan-15 04:00:00	16-Jan-15 05:00:00		0.00	0.00	0.00	5.79	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	16-Jan-15 04:00:00		**10.35**	**18.92**	**83.84**	**88.59**
16-Jan-15 05:00:00	16-Jan-15 06:00:00		0.00	0.00	0.00	5.89	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	16-Jan-15 05:00:00		**10.35**	**18.92**	**83.84**	**88.62**
16-Jan-15 06:00:00	16-Jan-15 07:00:00		0.00	0.00	0.00	7.68	2.1	329.7		0.00	0.00	0.00	2.53		10.35	18.92	83.84	86.68	16-Jan-15 06:00:00		**10.35**	**18.92**	**83.84**	**89.21**
16-Jan-15 07:00:00	16-Jan-15 08:00:00		0.00	0.00	0.00	6.07	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	16-Jan-15 07:00:00		**10.35**	**18.92**	**83.84**	**88.68**
16-Jan-15 08:00:00	16-Jan-15 09:00:00		0.00	0.00	0.00	5.99	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	16-Jan-15 08:00:00		**10.35**	**18.92**	**83.84**	**88.66**
16-Jan-15 09:00:00	16-Jan-15 10:00:00		0.04	0.00	0.00	5.91	2.1	329.7		0.01	0.00	0.00	1.95		10.35	18.92	83.84	86.68	16-Jan-15 09:00:00		**10.36**	**18.92**	**83.84**	**88.63**
16-Jan-15 10:00:00	16-Jan-15 11:00:00		0.43	0.00	0.00	5.81	2.1	329.7		0.14	0.00	0.00	1.92		10.35	18.92	83.84	86.68	16-Jan-15 10:00:00		**10.49**	**18.92**	**83.84**

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
18-Jan-15 09:00:00	18-Jan-15 10:00:00		0.00	0.00	0.00	5.51	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	18-Jan-15 09:00:00		**10.35**	**18.92**	**83.84**	**88.50**
18-Jan-15 10:00:00	18-Jan-15 11:00:00		0.11	0.00	0.00	5.45	2.1	329.7		0.04	0.00	0.00	1.80		10.35	18.92	83.84	86.68	18-Jan-15 10:00:00		**10.39**	**18.92**	**83.84**	**88.48**
18-Jan-15 11:00:00	18-Jan-15 12:00:00		0.17	0.00	0.00	5.34	2.1	329.7		0.05	0.00	0.00	1.76		10.35	18.92	83.84	86.68	18-Jan-15 11:00:00		**10.40**	**18.92**	**83.84**	**88.44**
18-Jan-15 12:00:00	18-Jan-15 13:00:00		141.31	0.00	0.00	5.21	2.1	329.7		46.59	0.00	0.00	1.72		10.35	18.92	83.84	86.68	18-Jan-15 12:00:00		**56.94**	**18.92**	**83.84**	**88.40**
18-Jan-15 13:00:00	18-Jan-15 14:00:00		332.62	0.00	79.07	16.91	2.1	329.7		109.67	0.00	26.07	5.57		10.35	18.92	83.84	86.68	18-Jan-15 13:00:00		**120.02**	**18.92**	**109.91**	**92.25**
18-Jan-15 14:00:00	18-Jan-15 15:00:00		330.81	0.00	317.82	5.07	2.1	329.7		109.07	0.00	104.78	1.67		10.35	18.92	83.84	86.68	18-Jan-15 14:00:00		**119.42**	**18.92**	**188.62**	**88.35**
18-Jan-15 15:00:00	18-Jan-15 16:00:00		335.85	0.00	224.81	4.93	2.1	329.7		110.73	0.00	74.12	1.63		10.35	18.92	83.84	86.68	18-Jan-15 15:00:00		**121.08**	**18.92**	**157.96**	**88.31**
18-Jan-15 16:00:00	18-Jan-15 17:00:00		635.05	0.00	12.50	4.80	2.1	329.7		209.38	0.00	4.12	1.58		10.35	18.92	83.84	86.68	18-Jan-15 16:00:00		**219.73**	**18.92**	**87.96**	**88.26**
18-Jan-15 17:00:00	18-Jan-15 18:00:00		638.48	0.00	0.00	4.70	2.1	329.7		210.51	0.00	0.00	1.55		10.35	18.92	83.84	86.68	18-Jan-15 17:00:00		**220.86**	**18.92**	**83.84**	**88.23**
18-Jan-15 18:00:00	18-Jan-15 19:00:00		758.19	0.00	0.00	4.80	2.1	329.7		249.98	0.00	0.00	1.58		10.35	18.92	83.84	86.68	18-Jan-15 18:00:00		**260.33**	**18.92**	**83.84**	**88.26**
18-Jan-15 19:00:00	18-Jan-15 20:00:00		787.16	0.00	0.00	4.92	2.1	329.7		259.53	0.00	0.00	1.62		10.35	18.92	83.84	86.68	18-Jan-15 19:00:00		**269.88**	**18.92**	**83.84**	**88.30**
18-Jan-15 20:00:00	18-Jan-15 21:00:00		631.04	0.00	0.00	5.03	2.1	329.7		208.06	0.00	0.00	1.66		10.35	18.92	83.84	86.68	18-Jan-15 20:00:00		**218.41**	**18.92**	**83.84**	**88.34**
18-Jan-15 21:00:00	18-Jan-15 22:00:00		4.70	0.00	0.00	5.17	2.1	329.7		1.55	0.00	0.00	1.70		10.35	18.92	83.84	86.68	18-Jan-15 21:00:00		**11.90**	**18.92**	**83.84**	**88.38**
18-Jan-15 22:00:00	18-Jan-15 23:00:00		4.75	0.00	0.00	5.35	2.1	329.7		1.57	0.00	0.00	1.76		10.35	18.92	83.84	86.68	18-Jan-15 22:00:00		**11.92**	**18.92**	**83.84**	**88.44**
18-Jan-15 23:00:00	19-Jan-15 00:00:00		0.77	0.00	0.00	5.51	2.1	329.7		0.25	0.00	0.00	1.82		10.35	18.92	83.84	86.68	18-Jan-15 23:00:00		**10.60**	**18.92**	**83.84**	**88.50**
19-Jan-15 00:00:00	19-Jan-15 01:00:00		1.07	0.00	0.00	5.67	2.1	329.7		0.35	0.00	0.00	1.87		10.35	18.92	83.84	86.68	19-Jan-15 00:00:00		**10.70**	**18.92**	**83.84**	**88.55**
19-Jan-15 01:00:00	19-Jan-15 02:00:00		0.71	0.00	0.00	5.83	2.1	329.7		0.23	0.00	0.00	1.92		10.35	18.92	83.84	86.68	19-Jan-15 01:00:00		**10.58**	**18.92**	**83.84**	**88.60**
19-Jan-15 02:00:00	19-Jan-15 03:00:00		1.91	0.00	0.00	5.91	2.1	329.7		0.63	0.00	0.00	1.95		10.35	18.92	83.84	86.68	19-Jan-15 02:00:00		**10.98**	**18.92**	**83.84**	**88.63**
19-Jan-15 03:00:00	19-Jan-15 04:00:00		1.25	0.00	0.00	5.97	2.1	329.7		0.41	0.00	0.00	1.97		10.35	18.92	83.84	86.68	19-Jan-15 03:00:00		**10.76**	**18.92**	**83.84**	**88.65**
19-Jan-15 04:00:00	19-Jan-15 05:00:00		1.60	0.00	0.00	6.02	2.1	329.7		0.53	0.00	0.00	1.99		10.35	18.92	83.84	86.68	19-Jan-15 04:00:00		**10.88**	**18.92**	**83.84**	**88.67**
19-Jan-15 05:00:00	19-Jan-15 06:00:00		0.00	0.00	0.00	6.07	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	19-Jan-15 05:00:00		**10.35**	**18.92**	**83.84**	**88.68**
19-Jan-15 06:00:00	19-Jan-15 07:00:00		0.00	0.00	0.00	6.03	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	19-Jan-15 06:00:00		**10.35**	**18.92**	**83.84**	**88.67**
19-Jan-15 07:00:00	19-Jan-15 08:00:00		0.00	0.00	0.00	6.00	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	19-Jan-15 07:00:00		**10.35**	**18.92**	**83.84**	**88.66**
19-Jan-15 08:00:00	19-Jan-15 09:00:00		0.00	0.00	0.00	5.96	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	19-Jan-15 08:00:00		**10.35**	**18.92**	**83.84**	**88.65**
19-Jan-15 09:00:00	19-Jan-15 10:00:00		0.00	0.00	0.00	5.93	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	19-Jan-15 09:00:00		**10.35**	**18.92**	**83.84**	**88.63**
19-Jan-15 10:00:00	19-Jan-15 11:00:00		0.60	0.00	0.00	5.63	2.1	329.7		0.20	0.00	0.00	1.86		10.35	18.92	83.84	86.68	19-Jan-15 10:00:00		**10.55**	**18.92**	**83.84**	**88.54**
19-Jan-15 11:00:00	19-Jan-15 12:00:00		0.34	0.00	0.00	5.21	2.1	329.7		0.11	0.00	0.00	1.72		10.35	18.92	83.84	86.68	19-Jan-15 11:00:00		**10.46**	**18.92**	**83.84**	**88.40**
19-Jan-15 12:00:00	19-Jan-15 13:00:00		5.76	0.00	0.00	4.79	2.1	329.7		1.90	0.00	0.00	1.58		10.35	18.92	83.84	86.68	19-Jan-15 12:00:00		**12.25**	**18.92**	**83.84**	**88.26**
19-Jan-15 13:00:00	19-Jan-15 14:00:00		5.09	0.00	0.00	4.40	2.1	329.7		1.68	0.00	0.00	1.45		10.35	18.92	83.84	86.68	19-Jan-15 13:00:00		**12.03**	**18.92**	**83.84**	**88.13**
19-Jan-15 14:00:00	19-Jan-15 15:00:00		8.87	0.00	0.00	16.49	2.1	329.7		2.92	0.00	0.00	5.44		10.35	18.92	83.84	86.68	19-Jan-15 14:00:00		**13.27**	**18.92**	**83.84**	**92.12**
19-Jan-15 15:00:00	19-Jan-15 16:00:00		9.32	0.00	0.00	4.25	2.1	329.7		3.07	0.00	0.00	1.40		10.35	18.92	83.84	86.68	19-Jan-15 15:00:00		**13.42**	**18.92**	**83.84**	**88.08**
19-Jan-15 16:00:00	19-Jan-15 17:00:00		11.71	0.00	0.00	4.26	2.1	329.7		3.86	0.00	0.00	1.41		10.35	18.92	83.84	86.68	19-Jan-15 16:00:00		**14.21**	**18.92**	**83.84**	**88.09**
19-Jan-15 17:00:00	19-Jan-15 18:00:00		5.18	0.00	0.00	4.27	2.1	329.7		1.71	0.00	0.00	1.41		10.35	18.92	83.84	86.68	19-Jan-15 17:00:00		**12.06**	**18.92**	**83.84**	**88.09**
19-Jan-15 18:00:00	19-Jan-15 19:00:00		7.56	0.00	0.00	4.41	2.1	329.7		2.49	0.00	0.00	1.45		10.35	18.92	83.84	86.68	19-Jan-15 18:00:00		**12.84**	**18.92**	**83.84**	**88.13**
19-Jan-15 19:00:00	19-Jan-15 20:00:00		5.93	0.00	0.00	4.65	2.1	329.7		1.95	0.00	0.00	1.53		10.35	18.92	83.84	86.68	19-Jan-15 19:00:00		**12.30**	**18.92**	**83.84**	**88.21**
19-Jan-15 20:00:00	19-Jan-15 21:00:00		0.00	0.00	0.00	4.85	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	19-Jan-15 20:00:00		**10.35**	**18.92**	**83.84**	**88.28**
19-Jan-15 21:00:00	19-Jan-15 22:00:00		0.00	0.00	0.00	5.05	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	19-Jan-15 21:00:00		**10.35**	**18.92**	**83.84**	**88.35**
19-Jan-15 22:00:00	19-Jan-15 23:00:00		0.00	0.00	0.00	5.20	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	19-Jan-15 22:00:00		**10.35**	**18.92**	**83.84**	**88.39**
19-Jan-15 23:00:00	20-Jan-15 00:00:00		0.00	0.00	0.00	5.27	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	19-Jan-15 23:00:00		**10.35**	**18.92**	**83.84**	**88.42**
20-Jan-15 00:00:00	20-Jan-15 01:00:00		0.00	0.00	0.00	5.35	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	20-Jan-15 00:00:00		**10.35**	**18.92**	**83.84**	**88.44**
20-Jan-15 01:00:00	20-Jan-15 02:00:00		0.00	0.00	0.00	5.42	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	20-Jan-15 01:00:00		**10.35**	**18.92**	**83.84**	**88.47**
20-Jan-15 02:00:00	20-Jan-15 03:00:00		0.00	0.00	0.00	5.48	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	20-Jan-15 02:00:00		**10.35**	**18.92**	**83.84**	**88.49**
20-Jan-15 03:00:00	20-Jan-15 04:00:00		0.00	0.00	0.00	5.44	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	20-Jan-15 03:00:00		**10.35**	**18.92**	**83.84**	**88.47**
20-Jan-15 04:00:00	20-Jan-15 05:00:00		5.68	0.00	0.00	5.39	2.1	329.7		1.87	0.00	0.00	1.78		10.35	18.92	83.84	86.68	20-Jan-15 04:00:00		**12.22**	**18.92**	**83.84**	**88.46**
20-Jan-15 05:00:00	20-Jan-15 06:00:00		8.20	0.00	0.00	5.35	2.1	329.7		2.70	0.00	0.00	1.76		10.35	18.92	83.84	86.68	20-Jan-15 05:00:00		**13.05**	**18.92**	**83.84**	**88.44**
20-Jan-15 06:00:00	20-Jan-15 07:00:00		4.01	0.00	0.00	36.89	2.1	329.7		1.32	0.00	0.00	12.16		10.35	18.92	83.84	86.68	20-Jan-15 06:00:00		**11.67**	**18.92**	**83.84**	**98.84**
20-Jan-15 07:00:00	20-Jan-15 08:00:00		0.21	0.00	0.00	5.37	2.1	329.7		0.07	0.00	0.00	1.77		10.35	18.92	83.84	86.68	20-Jan-15 07:00:00		**10.42**	**18.92**	**83.84**	**88.45**
20-Jan-15 08:00:00	20-Jan-15 09:00:00		0.00	0.00	0.00	5.43	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	20-Jan-15 08:00:00		**10.35**	**18.92**	**83.84**	**88.47**
20-Jan-15 09:00:00	20-Jan-15 10:00:00		0.00	0.00	0.00	5.50	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	20-Jan-15 09:00:00		**10.35**	**18.92**	**83.84**	**88.49**
20-Jan-15 10:00:00	20-Jan-15 11:00:00		0.00	0.00	0.00	5.46	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	20-Jan-15 10:00:00		**10.35**	**18.92**	**83.84**	**88.48**
20-Jan-15 11:00:00	20-Jan-15 12:00:00		0.04	0.00	0.00	5.23	2.1	329.7		0.01	0.00	0.00	1.72		10.35	18.92	83.84	86.68	20-Jan-15 11:00:00		**10.36**	**18.92**	**83.84**	**88.40**
20-Jan-15 12:00:00	20-Jan-15 13:00:00		0.64	0.00	0.00	16.59	2.1	329.7		0.21	0.00	0.00	5.47		10.35	18.92	83.84	86.68	20-Jan-15 12:00:00		**10.56**	**18.92**	**83.84**	**92.15**
20-Jan-15 13:00:00	20-Jan-15 14:00:00		0.00	0.00	0.00	4.86	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	20-Jan-15 13:00:00		**10.35**	**18.92**	**83.84**	**88.28**
20-Jan-15 14:00:00	20-Jan-15 15:00:00		0.00	0.00	0.00	4.65	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	20-Jan-15 14:00:00		**10.35**	**18.92**	**83.84**	**88.21**
20-Jan-15 15:00:00	20-Jan-15 16:00:00		0.00	0.00	0.00	4.45	2.1	329.7		0.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	20-Jan-15 15:00:00		**10.35**	**18.92**	**83.84**	**88.15**
20-Jan-15 16:00:00	20-Jan-15 17:00:00		0.00	0.00	0.00	4.29	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	20-Jan-15 16:00:00		**10.35**	**18.92**	**83.84**	**88.09**
20-Jan-15 17:00:00	20-Jan-15 18:00:00		0.00	0.00	0.00	4.38	2.1	329.7		0.00	0.00	0.00	1.44		10.35	18.92	83.84	86.68	20-Jan-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.12**
20-Jan-15 18:00:00	20-Jan-15 19:00:00		0.00	0.00	0.00	4.52	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	20-Jan-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.17**
20-Jan-15 19:00:00	20-Jan-15 20:00:00		0.00	0.00	0.00	4.66	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	20-Jan-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.22**
20-Jan-15 20:00:00	20-Jan-15 21:00:00		0.45	0.00	0.00	4.79	2.1	329.7		0.15	0.00	0.00	1.58		10.35	18.92	83.84	86.68	20-Jan-15 20:00:00		**10.50**	**18.92**	**83.84**	**88.26**
20-Jan-15 21:00:00	20-Jan-15 22:00:00		0.65	0.00	0.00	115.04	2.1	329.7		0.22	0.00	0.00	37.93		10.35	18.92	83.84	86.68	20-Jan-15 21:00:00		**10.57**	**18.92**	**83.84**	**124.61**
20-Jan-15 22:00:00	20-Jan-15 23:00:00		0.16	0.00	0.00	5.00	2.1	329.7		0.05	0.00	0.00	1.65		10.35	18.92	83.84	86.68	20-Jan-15 22:00:00		**10.40**	**18.92**	**83.84**	**88.33**
20-Jan-15 23:00:00	21-Jan-15 00:00:00		0.11	0.00	0.00	5.09	2.1	329.7		0.04	0.00	0.00	1.68		10.35	18.92	83.84	86.68	20-Jan-15 23:00:00		**10.39**	**18.92**	**83.84**	**88.36**
21-Jan-15 00:00:00	21-Jan-15 01:00:00		0.05	0.00	0.00	5.17	2.1	329.7		0.02	0.00	0.00	1.71		10.35	18.92	83.84	86.68	21-Jan-15 00:00:00		**10.37**	**18.92**	**83.84**	**88.39**
21-Jan-15 01:00:00	21-Jan-15 02:00:00		0.00	0.00	0.00	14.60	2.1	329.7		0.00	0.00	0.00	4.81		10.35	18.92	83.84	86.68	21-Jan-15 01:00:00		**10.35**	**18.92**	**83.84**	**91.49**
21-Jan-15 02:00:00	21-Jan-15 03:00:00		1.56	0.00	0.00	5.36	2.1	329.7		0.52	0.00	0.00	1.77		10.35	18.92	83.84	86.68	21-Jan-15 02:00:00		**10.87**	**18.92**	**83.84**	**88.45**
21-Jan-15 03:00:00	21-Jan-15 04:00:00		1.61	0.00	0.00	5.52	2.1	329.7		0.53	0.00	0.00	1.82		10.35	18.92	83.84	86.68	21-Jan-15 03:00:00		**10.88**	**18.92**	**83.84**	**88.50**
21-Jan-15 04:00:00	21-Jan-15 05:00:00		0.19	0.00	0.00	5.68	2.1	329.7		0.06	0.00	0.00	1.87		10.35	18.92	83.84	86.68	21-Jan-15 04:00:00		**10.41**	**18.92**	**83.84**	**88.55**
21-Jan-15 05:00:00	21-Jan-15 06:00:00		0.00	0.00	0.00	5.85	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	21-Jan-15 05:00:00		**10.35**	**18.92**	**83.84**	**88.61**
21-Jan-15 06:00:00	21-Jan-15 07:00:00		0.00	0.00	0.00	6.07	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	21-Jan-15 06:00:00		**10.35**	**18.92**	**83.84**	**88.68**
21-Jan-15 07:00:00	21-Jan-15 08:00:00		0.00	0.00	0.00	97.40	2.1	329.7		0.00	0.00	0.00	32.11		10.35	18.92	83.84	86.68	21-Jan-15 07:00:00		**10.35**	**18.92**	**83.84**	**118.79**
21-Jan-15 08:00:00	21-Jan-15 09:00:00		0.00	0.00	0.00	6.23	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	21-Jan-15 08:00:00		**10.35**	**18.92**	**83.84**	**88.74**
21-Jan-15 09:00:00	21-Jan-15 10:00:00		0.00	0.00	0.00	6.06	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	21-Jan-15 09:00:00		**10.35**	**18.92**	**83.84**	**88.68**
21-Jan-15 10:00:00	21-Jan-15 11:00:00		0.00	0.00	0.00	5.88	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	21-Jan-15 10:00:00		**10.35**	**18.92**	**83.84**	**88.62**
21-Jan-15 11:00:00	21-Jan-15 12:00:00		0.00	0.00	0.00	5.70	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	21-Jan-15 11:00:00		**10.35**	**18.92**	**83.84**	**88.56**
21-Jan-15 12:00:00	21-Jan-15 13:00:00		3.07	0.00	0.00	5.43	2.1	329.7		1.01	0.00	0.00	1.79		10.35	18.92	83.84	86.68	21-Jan-15 12:00:00		**11.36**	**18.92**	**83.84**	**88.47**
21-Jan-15 13:00:00	21-Jan-15 14:00:00		0.17	0.00	0.00	5.09	2.1	329.7		0.06	0.00	0.00	1.68		10.35	18.92	83.84	86.68	21-Jan-15 13:00:00		**10.41**	**18.92**	**83.84**	**88.36**
21-Jan-15 14:00:00	21-Jan-15 15:00:00		0.00	0.00	0.00	4.75	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	21-Jan-15 14:00:00		**10.35**	**18.92**	**83.84**	**88.25**
21-Jan-15 15:00:00	21-Jan-15 16:00:00		0.13	0.00	0.00	5.11	2.1	329.7		0.04	0.00	0.00	1.68		10.35	18.92	83.84	86.68	21-Jan-15 15:00:00		**10.39**	**18.92**	**83.84**	**88.36**
21-Jan-15 16:00:00	21-Jan-15 17:00:00		0.00	0.00	0.00	4.88	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	21-Jan-15 16:00:00		**10.35**	**18.92**	**83.84**	**88.29**
21-Jan-15 17:00:00	21-Jan-15 18:00:00		0.00	0.00	0.00	5.04	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	21-Jan-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.34**
21-Jan-15 18:00:00	21-Jan-15 19:00:00		0.00	0.00	0.00	13.94	2.1	329.7		0.00	0.00	0.00	4.59		10.35	18.92	83.84	86.68	21-Jan-15 18:00:00		**10.35**	**18.92**	**83.84**	**91.27**
21-Jan-15 19:00:00	21-Jan-15 20:00:00		0.10	0.00	0.00	5.53	2.1	329.7		0.03	0.00	0.00	1.82		10.35	18.92	83.84	86.68	21-Jan-15 19:00:00		**10.38**	**18.92**	**83.84**	**88.50**
21-Jan-15 20:00:00	21-Jan-15 21:00:00		2.12	0.00	0.00	5.72	2.1	329.7		0.70	0.00	0.00	1.89		10.35	18.92	83.84	86.68	21-Jan-15 20:00:00		**11.05**	**18.92**	**83.84**	**88.57**
21-Jan-15 21:00:00	21-Jan-15 22:00:00		5.39	0.00	0.00	5.92	2.1	329.7		1.78	0.00	0.00	1.95		10.35	18.92	83.84	86.68	21-Jan-15 21:00:00		**12.13**	**18.92**	**83.84**	**88.63**
21-Jan-15 22:00:00	21-Jan-15 23:00:00		2.02	0.00	0.00	19.23	2.1	329.7		0.66	0.00	0.00	6.34		10.35	18.92	83.84	86.68	21-Jan-15 22:00:00		**11.01**	**18.92**	**83.84**	**93.02**
21-Jan-15 23:00:00	22-Jan-15 00:00:00		0.00	0.00	0.00	6.25	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	21-Jan-15 23:00:00		**10.35**	**18.92**	**83.84**	**88.74**
22-Jan-15 00:00:00	22-Jan-15 01:00:00		0.16	0.00	0.00	6.28	2.1	329.7		0.05	0.00	0.00	2.07		10.35	18.92	83.84	86.68	22-Jan-15 00:00:00		**10.40**	**18.92**	**83.84**	**88.75**
22-Jan-15 01:00:00	22-Jan-15 02:00:00		0.00	0.00	0.00	6.32	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	22-Jan-15 01:00:00		**10.35**	**18.92**	**83.84**	**88.76**
22-Jan-15 02:00:00	22-Jan-15 03:00:00		0.00	0.00	0.00	6.34	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	22-Jan-15 02:00:00		**10.35**	**18.92**	**83.84**	**88.77**
22-Jan-15 03:00:00	22-Jan-15 04:00:00		0.00	0.00	0.00	6.48	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	22-Jan-15 03:00:00		**10.35**	**18.92**	**83.84**	**88.82**
22-Jan-15 04:00:00	22-Jan-15 05:00:00		5.11	0.00	0.00	6.63	2.1	329.7		1.68	0.00	0.00	2.19		10.35	18.92	83.84	86.68	22-Jan-15 04:00:00		**12.03**	**18.92**	**83.84**	**88.87**
22-Jan-15 05:00:00	22-Jan-15 06:00:00		3.43	0.00	0.00	6.78	2.1	329.7		1.13	0.00	0.00	2.24		10.35	18.92	83.84	86.68	22-Jan-15 05:00:00		**11.48**	**18.92**	**83.84**	**88.92**
22-Jan-15 06:00:00	22-Jan-15 07:00:00		1.12	0.00	0.00	6.85

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
24-Jan-15 04:00:00	24-Jan-15 05:00:00		13.28	0.00	0.00	6.21	2.1	329.7		4.38	0.00	0.00	2.05		10.35	18.92	83.84	86.68	24-Jan-15 04:00:00		**14.73**	**18.92**	**83.84**	**88.73**
24-Jan-15 05:00:00	24-Jan-15 06:00:00		11.65	0.00	0.00	6.11	2.1	329.7		3.83	0.00	0.00	2.01		10.35	18.92	83.84	86.68	24-Jan-15 05:00:00		**14.18**	**18.92**	**83.84**	**88.69**
24-Jan-15 06:00:00	24-Jan-15 07:00:00		11.79	0.00	0.00	6.02	2.1	329.7		3.89	0.00	0.00	1.98		10.35	18.92	83.84	86.68	24-Jan-15 06:00:00		**14.24**	**18.92**	**83.84**	**88.66**
24-Jan-15 07:00:00	24-Jan-15 08:00:00		8.59	0.00	0.00	6.03	2.1	329.7		2.83	0.00	0.00	1.99		10.35	18.92	83.84	86.68	24-Jan-15 07:00:00		**13.18**	**18.92**	**83.84**	**88.67**
24-Jan-15 08:00:00	24-Jan-15 09:00:00		7.96	0.00	0.00	6.07	2.1	329.7		2.62	0.00	0.00	2.00		10.35	18.92	83.84	86.68	24-Jan-15 08:00:00		**12.97**	**18.92**	**83.84**	**88.68**
24-Jan-15 09:00:00	24-Jan-15 10:00:00		6.13	0.00	0.00	6.10	2.1	329.7		2.02	0.00	0.00	2.01		10.35	18.92	83.84	86.68	24-Jan-15 09:00:00		**12.37**	**18.92**	**83.84**	**88.69**
24-Jan-15 10:00:00	24-Jan-15 11:00:00		6.14	0.00	0.00	6.55	2.1	329.7		2.03	0.00	0.00	2.16		10.35	18.92	83.84	86.68	24-Jan-15 10:00:00		**12.38**	**18.92**	**83.84**	**88.84**
24-Jan-15 11:00:00	24-Jan-15 12:00:00		7.35	0.00	0.00	6.08	2.1	329.7		2.42	0.00	0.00	2.01		10.35	18.92	83.84	86.68	24-Jan-15 11:00:00		**12.77**	**18.92**	**83.84**	**88.69**
24-Jan-15 12:00:00	24-Jan-15 13:00:00		5.24	0.00	0.00	5.95	2.1	329.7		1.73	0.00	0.00	1.96		10.35	18.92	83.84	86.68	24-Jan-15 12:00:00		**12.08**	**18.92**	**83.84**	**88.64**
24-Jan-15 13:00:00	24-Jan-15 14:00:00		2.62	0.00	0.00	5.82	2.1	329.7		0.86	0.00	0.00	1.92		10.35	18.92	83.84	86.68	24-Jan-15 13:00:00		**11.21**	**18.92**	**83.84**	**88.60**
24-Jan-15 14:00:00	24-Jan-15 15:00:00		0.00	0.00	0.00	5.68	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	24-Jan-15 14:00:00		**10.35**	**18.92**	**83.84**	**88.55**
24-Jan-15 15:00:00	24-Jan-15 16:00:00		0.44	0.00	0.00	22.69	2.1	329.7		0.14	0.00	0.00	7.48		10.35	18.92	83.84	86.68	24-Jan-15 15:00:00		**10.49**	**18.92**	**83.84**	**94.16**
24-Jan-15 16:00:00	24-Jan-15 17:00:00		0.00	0.00	0.00	5.46	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	24-Jan-15 16:00:00		**10.35**	**18.92**	**83.84**	**88.48**
24-Jan-15 17:00:00	24-Jan-15 18:00:00		0.00	0.00	0.00	5.36	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	24-Jan-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.45**
24-Jan-15 18:00:00	24-Jan-15 19:00:00		0.00	0.00	0.00	5.26	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	24-Jan-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.42**
24-Jan-15 19:00:00	24-Jan-15 20:00:00		0.09	0.00	0.00	5.34	2.1	329.7		0.03	0.00	0.00	1.76		10.35	18.92	83.84	86.68	24-Jan-15 19:00:00		**10.38**	**18.92**	**83.84**	**88.44**
24-Jan-15 20:00:00	24-Jan-15 21:00:00		0.06	0.00	0.00	6.23	2.1	329.7		0.02	0.00	0.00	2.05		10.35	18.92	83.84	86.68	24-Jan-15 20:00:00		**10.37**	**18.92**	**83.84**	**88.73**
24-Jan-15 21:00:00	24-Jan-15 22:00:00		0.00	0.00	0.00	6.02	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	24-Jan-15 21:00:00		**10.35**	**18.92**	**83.84**	**88.66**
24-Jan-15 22:00:00	24-Jan-15 23:00:00		0.00	0.00	0.00	6.07	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	24-Jan-15 22:00:00		**10.35**	**18.92**	**83.84**	**88.68**
24-Jan-15 23:00:00	25-Jan-15 00:00:00		0.00	0.00	0.00	6.12	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	24-Jan-15 23:00:00		**10.35**	**18.92**	**83.84**	**88.70**
25-Jan-15 00:00:00	25-Jan-15 01:00:00		2.34	0.00	0.00	24.81	2.1	329.7		0.77	0.00	0.00	8.18		10.35	18.92	83.84	86.68	25-Jan-15 00:00:00		**11.12**	**18.92**	**83.84**	**94.86**
25-Jan-15 01:00:00	25-Jan-15 02:00:00		2.72	0.00	0.00	6.34	2.1	329.7		0.90	0.00	0.00	2.09		10.35	18.92	83.84	86.68	25-Jan-15 01:00:00		**11.25**	**18.92**	**83.84**	**88.77**
25-Jan-15 02:00:00	25-Jan-15 03:00:00		3.20	0.00	0.00	26.27	2.1	329.7		1.06	0.00	0.00	8.66		10.35	18.92	83.84	86.68	25-Jan-15 02:00:00		**11.41**	**18.92**	**83.84**	**95.34**
25-Jan-15 03:00:00	25-Jan-15 04:00:00		3.11	0.00	0.00	6.38	2.1	329.7		1.02	0.00	0.00	2.10		10.35	18.92	83.84	86.68	25-Jan-15 03:00:00		**11.37**	**18.92**	**83.84**	**88.78**
25-Jan-15 04:00:00	25-Jan-15 05:00:00		3.13	0.00	0.00	7.27	2.1	329.7		1.03	0.00	0.00	2.40		10.35	18.92	83.84	86.68	25-Jan-15 04:00:00		**11.38**	**18.92**	**83.84**	**89.08**
25-Jan-15 05:00:00	25-Jan-15 06:00:00		8.19	0.00	0.00	6.60	2.1	329.7		2.70	0.00	0.00	2.18		10.35	18.92	83.84	86.68	25-Jan-15 05:00:00		**13.05**	**18.92**	**83.84**	**88.86**
25-Jan-15 06:00:00	25-Jan-15 07:00:00		10.30	0.00	0.00	6.68	2.1	329.7		3.39	0.00	0.00	2.20		10.35	18.92	83.84	86.68	25-Jan-15 06:00:00		**13.74**	**18.92**	**83.84**	**88.88**
25-Jan-15 07:00:00	25-Jan-15 08:00:00		18.96	0.00	0.00	6.75	2.1	329.7		6.25	0.00	0.00	2.23		10.35	18.92	83.84	86.68	25-Jan-15 07:00:00		**16.60**	**18.92**	**83.84**	**88.91**
25-Jan-15 08:00:00	25-Jan-15 09:00:00		28.11	0.00	0.00	6.80	2.1	329.7		9.27	0.00	0.00	2.24		10.35	18.92	83.84	86.68	25-Jan-15 08:00:00		**19.62**	**18.92**	**83.84**	**88.92**
25-Jan-15 09:00:00	25-Jan-15 10:00:00		26.68	0.00	0.00	6.94	2.1	329.7		8.80	0.00	0.00	2.29		10.35	18.92	83.84	86.68	25-Jan-15 09:00:00		**19.15**	**18.92**	**83.84**	**88.97**
25-Jan-15 10:00:00	25-Jan-15 11:00:00		16.08	0.00	0.00	6.22	2.1	329.7		5.30	0.00	0.00	2.05		10.35	18.92	83.84	86.68	25-Jan-15 10:00:00		**15.65**	**18.92**	**83.84**	**88.73**
25-Jan-15 11:00:00	25-Jan-15 12:00:00		1.36	0.00	0.00	5.90	2.1	329.7		0.45	0.00	0.00	1.94		10.35	18.92	83.84	86.68	25-Jan-15 11:00:00		**10.80**	**18.92**	**83.84**	**88.62**
25-Jan-15 12:00:00	25-Jan-15 13:00:00		2.48	0.00	0.00	5.58	2.1	329.7		0.82	0.00	0.00	1.84		10.35	18.92	83.84	86.68	25-Jan-15 12:00:00		**11.17**	**18.92**	**83.84**	**88.52**
25-Jan-15 13:00:00	25-Jan-15 14:00:00		0.00	0.00	0.00	8.83	2.1	329.7		0.00	0.00	0.00	2.91		10.35	18.92	83.84	86.68	25-Jan-15 13:00:00		**10.35**	**18.92**	**83.84**	**89.59**
25-Jan-15 14:00:00	25-Jan-15 15:00:00		0.98	0.00	0.00	5.19	2.1	329.7		0.32	0.00	0.00	1.71		10.35	18.92	83.84	86.68	25-Jan-15 14:00:00		**10.67**	**18.92**	**83.84**	**88.39**
25-Jan-15 15:00:00	25-Jan-15 16:00:00		5.99	0.00	0.00	42.18	2.1	329.7		1.97	0.00	0.00	13.91		10.35	18.92	83.84	86.68	25-Jan-15 15:00:00		**12.32**	**18.92**	**83.84**	**100.59**
25-Jan-15 16:00:00	25-Jan-15 17:00:00		14.68	0.00	0.00	4.75	2.1	329.7		4.84	0.00	0.00	1.57		10.35	18.92	83.84	86.68	25-Jan-15 16:00:00		**15.19**	**18.92**	**83.84**	**88.25**
25-Jan-15 17:00:00	25-Jan-15 18:00:00		21.37	0.00	0.00	41.93	2.1	329.7		7.05	0.00	0.00	13.82		10.35	18.92	83.84	86.68	25-Jan-15 17:00:00		**17.40**	**18.92**	**83.84**	**100.50**
25-Jan-15 18:00:00	25-Jan-15 19:00:00		18.67	0.00	0.00	5.00	2.1	329.7		6.15	0.00	0.00	1.65		10.35	18.92	83.84	86.68	25-Jan-15 18:00:00		**16.50**	**18.92**	**83.84**	**88.33**
25-Jan-15 19:00:00	25-Jan-15 20:00:00		16.57	0.00	0.00	5.27	2.1	329.7		5.46	0.00	0.00	1.74		10.35	18.92	83.84	86.68	25-Jan-15 19:00:00		**15.81**	**18.92**	**83.84**	**88.42**
25-Jan-15 20:00:00	25-Jan-15 21:00:00		6.25	0.00	0.00	5.53	2.1	329.7		2.06	0.00	0.00	1.82		10.35	18.92	83.84	86.68	25-Jan-15 20:00:00		**12.41**	**18.92**	**83.84**	**88.50**
25-Jan-15 21:00:00	25-Jan-15 22:00:00		3.04	0.00	0.00	24.67	2.1	329.7		1.00	0.00	0.00	8.13		10.35	18.92	83.84	86.68	25-Jan-15 21:00:00		**11.35**	**18.92**	**83.84**	**94.81**
25-Jan-15 22:00:00	25-Jan-15 23:00:00		5.79	0.00	0.00	5.87	2.1	329.7		1.91	0.00	0.00	1.94		10.35	18.92	83.84	86.68	25-Jan-15 22:00:00		**12.26**	**18.92**	**83.84**	**88.62**
25-Jan-15 23:00:00	26-Jan-15 00:00:00		0.00	0.00	0.00	5.96	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	25-Jan-15 23:00:00		**10.35**	**18.92**	**83.84**	**88.65**
26-Jan-15 00:00:00	26-Jan-15 01:00:00		0.00	0.00	0.00	6.05	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	26-Jan-15 00:00:00		**10.35**	**18.92**	**83.84**	**88.68**
26-Jan-15 01:00:00	26-Jan-15 02:00:00		0.61	0.00	0.00	6.11	2.1	329.7		0.20	0.00	0.00	2.01		10.35	18.92	83.84	86.68	26-Jan-15 01:00:00		**10.55**	**18.92**	**83.84**	**88.69**
26-Jan-15 02:00:00	26-Jan-15 03:00:00		0.10	0.00	0.00	6.07	2.1	329.7		0.03	0.00	0.00	2.00		10.35	18.92	83.84	86.68	26-Jan-15 02:00:00		**10.38**	**18.92**	**83.84**	**88.68**
26-Jan-15 03:00:00	26-Jan-15 04:00:00		0.00	0.00	0.00	6.04	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	26-Jan-15 03:00:00		**10.35**	**18.92**	**83.84**	**88.67**
26-Jan-15 04:00:00	26-Jan-15 05:00:00		0.00	0.00	0.00	6.01	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	26-Jan-15 04:00:00		**10.35**	**18.92**	**83.84**	**88.66**
26-Jan-15 05:00:00	26-Jan-15 06:00:00		0.00	0.00	0.00	6.06	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	26-Jan-15 05:00:00		**10.35**	**18.92**	**83.84**	**88.68**
26-Jan-15 06:00:00	26-Jan-15 07:00:00		0.00	0.00	0.00	6.05	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	26-Jan-15 06:00:00		**10.35**	**18.92**	**83.84**	**88.68**
26-Jan-15 07:00:00	26-Jan-15 08:00:00		0.00	0.00	0.00	5.96	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	26-Jan-15 07:00:00		**10.35**	**18.92**	**83.84**	**88.64**
26-Jan-15 08:00:00	26-Jan-15 09:00:00		0.00	0.00	0.00	5.86	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	26-Jan-15 08:00:00		**10.35**	**18.92**	**83.84**	**88.61**
26-Jan-15 09:00:00	26-Jan-15 10:00:00		0.00	0.00	0.00	5.78	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	26-Jan-15 09:00:00		**10.35**	**18.92**	**83.84**	**88.59**
26-Jan-15 10:00:00	26-Jan-15 11:00:00		0.00	0.00	0.00	5.62	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	26-Jan-15 10:00:00		**10.35**	**18.92**	**83.84**	**88.53**
26-Jan-15 11:00:00	26-Jan-15 12:00:00		0.00	0.00	0.00	5.41	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	26-Jan-15 11:00:00		**10.35**	**18.92**	**83.84**	**88.46**
26-Jan-15 12:00:00	26-Jan-15 13:00:00		0.00	0.00	0.00	5.21	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	26-Jan-15 12:00:00		**10.35**	**18.92**	**83.84**	**88.40**
26-Jan-15 13:00:00	26-Jan-15 14:00:00		0.58	0.00	0.00	4.93	2.1	329.7		0.19	0.00	0.00	1.62		10.35	18.92	83.84	86.68	26-Jan-15 13:00:00		**10.54**	**18.92**	**83.84**	**88.30**
26-Jan-15 14:00:00	26-Jan-15 15:00:00		0.00	0.00	0.00	4.82	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	26-Jan-15 14:00:00		**10.35**	**18.92**	**83.84**	**88.27**
26-Jan-15 15:00:00	26-Jan-15 16:00:00		0.00	0.00	0.00	4.83	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	26-Jan-15 15:00:00		**10.35**	**18.92**	**83.84**	**88.27**
26-Jan-15 16:00:00	26-Jan-15 17:00:00		0.00	0.00	0.00	4.83	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	26-Jan-15 16:00:00		**10.35**	**18.92**	**83.84**	**88.27**
26-Jan-15 17:00:00	26-Jan-15 18:00:00		0.00	0.00	0.00	4.83	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	26-Jan-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.27**
26-Jan-15 18:00:00	26-Jan-15 19:00:00		0.00	0.00	0.00	4.97	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	26-Jan-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.32**
26-Jan-15 19:00:00	26-Jan-15 20:00:00		0.00	0.00	0.00	5.18	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	26-Jan-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.39**
26-Jan-15 20:00:00	26-Jan-15 21:00:00		0.00	0.00	0.00	5.39	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	26-Jan-15 20:00:00		**10.35**	**18.92**	**83.84**	**88.46**
26-Jan-15 21:00:00	26-Jan-15 22:00:00		0.23	0.00	0.00	5.67	2.1	329.7		0.08	0.00	0.00	1.87		10.35	18.92	83.84	86.68	26-Jan-15 21:00:00		**10.43**	**18.92**	**83.84**	**88.55**
26-Jan-15 22:00:00	26-Jan-15 23:00:00		0.09	0.00	0.00	5.93	2.1	329.7		0.03	0.00	0.00	1.96		10.35	18.92	83.84	86.68	26-Jan-15 22:00:00		**10.38**	**18.92**	**83.84**	**88.64**
26-Jan-15 23:00:00	27-Jan-15 00:00:00		0.05	0.00	0.00	6.11	2.1	329.7		0.02	0.00	0.00	2.02		10.35	18.92	83.84	86.68	26-Jan-15 23:00:00		**10.37**	**18.92**	**83.84**	**88.70**
27-Jan-15 00:00:00	27-Jan-15 01:00:00		1.57	0.00	0.00	6.29	2.1	329.7		0.52	0.00	0.00	2.08		10.35	18.92	83.84	86.68	27-Jan-15 00:00:00		**10.87**	**18.92**	**83.84**	**88.76**
27-Jan-15 01:00:00	27-Jan-15 02:00:00		5.82	0.00	0.00	6.49	2.1	329.7		1.92	0.00	0.00	2.14		10.35	18.92	83.84	86.68	27-Jan-15 01:00:00		**12.27**	**18.92**	**83.84**	**88.82**
27-Jan-15 02:00:00	27-Jan-15 03:00:00		0.00	0.00	0.00	6.71	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	27-Jan-15 02:00:00		**10.35**	**18.92**	**83.84**	**88.89**
27-Jan-15 03:00:00	27-Jan-15 04:00:00		0.23	0.00	0.00	6.44	2.1	329.7		0.08	0.00	0.00	2.12		10.35	18.92	83.84	86.68	27-Jan-15 03:00:00		**10.43**	**18.92**	**83.84**	**88.80**
27-Jan-15 04:00:00	27-Jan-15 05:00:00		5.70	0.00	0.00	6.99	2.1	329.7		1.88	0.00	0.00	2.30		10.35	18.92	83.84	86.68	27-Jan-15 04:00:00		**12.23**	**18.92**	**83.84**	**88.98**
27-Jan-15 05:00:00	27-Jan-15 06:00:00		11.35	0.00	0.00	12.28	2.1	329.7		3.74	0.00	0.00	4.05		10.35	18.92	83.84	86.68	27-Jan-15 05:00:00		**14.09**	**18.92**	**83.84**	**90.73**
27-Jan-15 06:00:00	27-Jan-15 07:00:00		18.44	0.00	0.00	29.82	2.1	329.7		6.08	0.00	0.00	9.83		10.35	18.92	83.84	86.68	27-Jan-15 06:00:00		**16.43**	**18.92**	**83.84**	**96.51**
27-Jan-15 07:00:00	27-Jan-15 08:00:00		17.58	0.00	0.00	6.54	2.1	329.7		5.79	0.00	0.00	2.16		10.35	18.92	83.84	86.68	27-Jan-15 07:00:00		**16.14**	**18.92**	**83.84**	**88.84**
27-Jan-15 08:00:00	27-Jan-15 09:00:00		21.99	0.00	0.00	6.47	2.1	329.7		7.25	0.00	0.00	2.13		10.35	18.92	83.84	86.68	27-Jan-15 08:00:00		**17.60**	**18.92**	**83.84**	**88.81**
27-Jan-15 09:00:00	27-Jan-15 10:00:00		21.39	0.00	0.00	6.40	2.1	329.7		7.05	0.00	0.00	2.11		10.35	18.92	83.84	86.68	27-Jan-15 09:00:00		**17.40**	**18.92**	**83.84**	**88.79**
27-Jan-15 10:00:00	27-Jan-15 11:00:00		20.53	0.00	0.00	6.31	2.1	329.7		6.77	0.00	0.00	2.08		10.35	18.92	83.84	86.68	27-Jan-15 10:00:00		**17.12**	**18.92**	**83.84**	**88.76**
27-Jan-15 11:00:00	27-Jan-15 12:00:00		13.02	0.00	0.00	6.09	2.1	329.7		4.29	0.00	0.00	2.01		10.35	18.92	83.84	86.68	27-Jan-15 11:00:00		**14.64**	**18.92**	**83.84**	**88.69**
27-Jan-15 12:00:00	27-Jan-15 13:00:00		3.54	0.00	0.00	5.86	2.1	329.7		1.17	0.00	0.00	1.93		10.35	18.92	83.84	86.68	27-Jan-15 12:00:00		**11.52**	**18.92**	**83.84**	**88.61**
27-Jan-15 13:00:00	27-Jan-15 14:00:00		0.58	0.00	0.00	5.63	2.1	329.7		0.19	0.00	0.00	1.86		10.35	18.92	83.84	86.68	27-Jan-15 13:00:00		**10.54**	**18.92**	**83.84**	**88.54**
27-Jan-15 14:00:00	27-Jan-15 15:00:00		1.66	0.00	0.00	5.47	2.1	329.7		0.55	0.00	0.00	1.80		10.35	18.92	83.84	86.68	27-Jan-15 14:00:00		**10.90**	**18.92**	**83.84**	**88.48**
27-Jan-15 15:00:00	27-Jan-15 16:00:00		1.80	0.00	0.00	5.37	2.1	329.7		0.59	0.00	0.00	1.77		10.35	18.92	83.84	86.68	27-Jan-15 15:00:00		**10.94**	**18.92**	**83.84**	**88.45**
27-Jan-15 16:00:00	27-Jan-15 17:00:00		1.19	0.00	0.00	5.27	2.1	329.7		0.39	0.00	0.00	1.74		10.35	18.92	83.84	86.68	27-Jan-15 16:00:00		**10.74**	**18.92**	**83.84**	**88.42**
27-Jan-15 17:00:00	27-Jan-15 18:00:00		0.59	0.00	0.00	7.89	2.1	329.7		0.19	0.00	0.00	2.60		10.35	18.92	83.84	86.68	27-Jan-15 17:00:00		**10.54**	**18.92**	**83.84**	**89.28**
27-Jan-15 18:00:00	27-Jan-15 19:00:00		0.07	0.00	0.00	5.46	2.1	329.7		0.02	0.00	0.00	1.80		10.35	18.92	83.84	86.68	27-Jan-15 18:00:00		**10.37**	**18.92**	**83.84**	**88.48**
27-Jan-15 19:00:00	27-Jan-15 20:00:00		0.00	0.00	0.00	5.65	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	27-Jan-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.54**
27-Jan-15 20:00:00	27-Jan-15 21:00:00		0.12	0.00	0.00	5.84	2.1	329.7		0.04	0.00	0.00	1.93		10.35	18.92	83.84	86.68	27-Jan-15 20:00:00		**10.39**	**18.92**	**83.84**	**88.61**
27-Jan-15 21:00:00	27-Jan-15 22:00:00		0.00	0.00	0.00	5.95	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	27-Jan-15 21:00:00		**10.35**	**18.92**	**83.84**	**88.64**
27-Jan-15 22:00:00	27-Jan-15 23:00:00		0.00	0.00	0.00	6.06	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	27-Jan-15 22:00:00		**10.35**	**18.92**	**83.84**	**88.68**
27-Jan-15 23:00:00	28-Jan-15 00:00:00		0.00	0.00	0.00	6.17	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	27-Jan-15 23:00:00		**10.35**	**18.92**	**83.84**	**88.72**
28-Jan-15 00:00:00	28-Jan-15 01:00:00		0.00	0.00	0.00	6.29	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	28-Jan-15 00:00:00		**10.35**	**18.92**	**83.84**	**88.75**
28-Jan-15 01:00:00	28-Jan-15 02:00:00		0.00	0.00	0.00	6.

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
29-Jan-15 23:00:00	30-Jan-15 00:00:00		0.00	0.00	0.00	6.17	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	29-Jan-15 23:00:00		**10.35**	**18.92**	**83.84**	**88.71**
30-Jan-15 00:00:00	30-Jan-15 01:00:00		0.00	0.00	0.00	5.81	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	30-Jan-15 00:00:00		**10.35**	**18.92**	**83.84**	**88.59**
30-Jan-15 01:00:00	30-Jan-15 02:00:00		0.00	0.00	0.00	5.80	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	30-Jan-15 01:00:00		**10.35**	**18.92**	**83.84**	**88.59**
30-Jan-15 02:00:00	30-Jan-15 03:00:00		0.00	0.00	0.00	90.54	2.1	329.7		0.00	0.00	0.00	29.85		10.35	18.92	83.84	86.68	30-Jan-15 02:00:00		**10.35**	**18.92**	**83.84**	**116.53**
30-Jan-15 03:00:00	30-Jan-15 04:00:00		0.00	0.00	0.00	485.78	2.1	329.7		0.00	0.00	0.00	160.16		10.35	18.92	83.84	86.68	30-Jan-15 03:00:00		**10.35**	**18.92**	**83.84**	**246.84**
30-Jan-15 04:00:00	30-Jan-15 05:00:00		0.00	0.00	0.00	359.29	2.1	329.7		0.00	0.00	0.00	118.46		10.35	18.92	83.84	86.68	30-Jan-15 04:00:00		**10.35**	**18.92**	**83.84**	**205.14**
30-Jan-15 05:00:00	30-Jan-15 06:00:00		0.00	0.00	0.00	525.89	2.1	329.7		0.00	0.00	0.00	173.38		10.35	18.92	83.84	86.68	30-Jan-15 05:00:00		**10.35**	**18.92**	**83.84**	**260.06**
30-Jan-15 06:00:00	30-Jan-15 07:00:00		0.00	0.00	0.00	5.00	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	30-Jan-15 06:00:00		**10.35**	**18.92**	**83.84**	**88.33**
30-Jan-15 07:00:00	30-Jan-15 08:00:00		0.00	0.00	0.00	5.10	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	30-Jan-15 07:00:00		**10.35**	**18.92**	**83.84**	**88.36**
30-Jan-15 08:00:00	30-Jan-15 09:00:00		0.00	0.00	0.00	5.20	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	30-Jan-15 08:00:00		**10.35**	**18.92**	**83.84**	**88.40**
30-Jan-15 09:00:00	30-Jan-15 10:00:00		0.00	0.00	0.00	5.29	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	30-Jan-15 09:00:00		**10.35**	**18.92**	**83.84**	**88.42**
30-Jan-15 10:00:00	30-Jan-15 11:00:00		0.89	0.00	0.00	5.28	2.1	329.7		0.29	0.00	0.00	1.74		10.35	18.92	83.84	86.68	30-Jan-15 10:00:00		**10.64**	**18.92**	**83.84**	**88.42**
30-Jan-15 11:00:00	30-Jan-15 12:00:00		0.92	0.00	10.92	5.27	2.1	329.7		0.30	0.00	3.60	1.74		10.35	18.92	83.84	86.68	30-Jan-15 11:00:00		**10.65**	**18.92**	**87.44**	**88.42**
30-Jan-15 12:00:00	30-Jan-15 13:00:00		0.00	0.00	0.00	5.25	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	30-Jan-15 12:00:00		**10.35**	**18.92**	**83.84**	**88.41**
30-Jan-15 13:00:00	30-Jan-15 14:00:00		0.00	0.00	0.00	5.24	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	30-Jan-15 13:00:00		**10.35**	**18.92**	**83.84**	**88.41**
30-Jan-15 14:00:00	30-Jan-15 15:00:00		0.00	0.00	0.00	5.26	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	30-Jan-15 14:00:00		**10.35**	**18.92**	**83.84**	**88.41**
30-Jan-15 15:00:00	30-Jan-15 16:00:00		0.00	0.00	0.00	5.27	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	30-Jan-15 15:00:00		**10.35**	**18.92**	**83.84**	**88.42**
30-Jan-15 16:00:00	30-Jan-15 17:00:00		0.00	0.00	0.00	100.75	2.1	329.7		0.00	0.00	0.00	33.22		10.35	18.92	83.84	86.68	30-Jan-15 16:00:00		**10.35**	**18.92**	**83.84**	**119.90**
30-Jan-15 17:00:00	30-Jan-15 18:00:00		0.00	0.00	0.00	5.45	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	30-Jan-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.48**
30-Jan-15 18:00:00	30-Jan-15 19:00:00		0.14	0.00	0.00	5.51	2.1	329.7		0.05	0.00	0.00	1.82		10.35	18.92	83.84	86.68	30-Jan-15 18:00:00		**10.40**	**18.92**	**83.84**	**88.50**
30-Jan-15 19:00:00	30-Jan-15 20:00:00		0.08	0.00	0.00	5.57	2.1	329.7		0.03	0.00	0.00	1.84		10.35	18.92	83.84	86.68	30-Jan-15 19:00:00		**10.38**	**18.92**	**83.84**	**88.52**
30-Jan-15 20:00:00	30-Jan-15 21:00:00		0.00	0.00	0.00	5.51	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	30-Jan-15 20:00:00		**10.35**	**18.92**	**83.84**	**88.50**
30-Jan-15 21:00:00	30-Jan-15 22:00:00		0.00	0.00	0.00	5.76	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	30-Jan-15 21:00:00		**10.35**	**18.92**	**83.84**	**88.58**
30-Jan-15 22:00:00	30-Jan-15 23:00:00		0.00	0.00	0.00	6.03	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	30-Jan-15 22:00:00		**10.35**	**18.92**	**83.84**	**88.67**
30-Jan-15 23:00:00	31-Jan-15 00:00:00		0.52	0.00	0.00	6.30	2.1	329.7		0.17	0.00	0.00	2.08		10.35	18.92	83.84	86.68	30-Jan-15 23:00:00		**10.52**	**18.92**	**83.84**	**88.76**
31-Jan-15 00:00:00	31-Jan-15 01:00:00		2.69	0.00	0.00	6.59	2.1	329.7		0.89	0.00	0.00	2.17		10.35	18.92	83.84	86.68	31-Jan-15 00:00:00		**11.24**	**18.92**	**83.84**	**88.85**
31-Jan-15 01:00:00	31-Jan-15 02:00:00		1.72	0.00	0.00	16.79	2.1	329.7		0.57	0.00	0.00	5.54		10.35	18.92	83.84	86.68	31-Jan-15 01:00:00		**10.92**	**18.92**	**83.84**	**92.22**
31-Jan-15 02:00:00	31-Jan-15 03:00:00		6.69	0.00	0.00	6.82	2.1	329.7		2.21	0.00	0.00	2.25		10.35	18.92	83.84	86.68	31-Jan-15 02:00:00		**12.56**	**18.92**	**83.84**	**88.93**
31-Jan-15 03:00:00	31-Jan-15 04:00:00		1.48	0.00	0.00	6.93	2.1	329.7		0.49	0.00	0.00	2.28		10.35	18.92	83.84	86.68	31-Jan-15 03:00:00		**10.84**	**18.92**	**83.84**	**88.96**
31-Jan-15 04:00:00	31-Jan-15 05:00:00		3.68	0.00	0.00	7.04	2.1	329.7		1.21	0.00	0.00	2.32		10.35	18.92	83.84	86.68	31-Jan-15 04:00:00		**11.56**	**18.92**	**83.84**	**89.00**
31-Jan-15 05:00:00	31-Jan-15 06:00:00		4.79	0.00	0.00	7.17	2.1	329.7		1.58	0.00	0.00	2.36		10.35	18.92	83.84	86.68	31-Jan-15 05:00:00		**11.93**	**18.92**	**83.84**	**89.04**
31-Jan-15 06:00:00	31-Jan-15 07:00:00		19.54	0.00	0.00	7.20	2.1	329.7		6.44	0.00	0.00	2.38		10.35	18.92	83.84	86.68	31-Jan-15 06:00:00		**16.79**	**18.92**	**83.84**	**89.06**
31-Jan-15 07:00:00	31-Jan-15 08:00:00		28.13	0.00	0.00	7.23	2.1	329.7		9.28	0.00	0.00	2.38		10.35	18.92	83.84	86.68	31-Jan-15 07:00:00		**19.63**	**18.92**	**83.84**	**89.06**
31-Jan-15 08:00:00	31-Jan-15 09:00:00		43.98	0.00	0.00	7.25	2.1	329.7		14.50	0.00	0.00	2.39		10.35	18.92	83.84	86.68	31-Jan-15 08:00:00		**24.85**	**18.92**	**83.84**	**89.07**
31-Jan-15 09:00:00	31-Jan-15 10:00:00		37.46	0.00	0.00	7.10	2.1	329.7		12.35	0.00	0.00	2.34		10.35	18.92	83.84	86.68	31-Jan-15 09:00:00		**22.70**	**18.92**	**83.84**	**89.02**
31-Jan-15 10:00:00	31-Jan-15 11:00:00		16.53	0.00	0.00	6.64	2.1	329.7		5.45	0.00	0.00	2.19		10.35	18.92	83.84	86.68	31-Jan-15 10:00:00		**15.80**	**18.92**	**83.84**	**88.87**
31-Jan-15 11:00:00	31-Jan-15 12:00:00		2.38	0.00	0.00	6.17	2.1	329.7		0.78	0.00	0.00	2.03		10.35	18.92	83.84	86.68	31-Jan-15 11:00:00		**11.13**	**18.92**	**83.84**	**88.71**
31-Jan-15 12:00:00	31-Jan-15 13:00:00		2.21	0.00	0.00	38.43	2.1	329.7		0.73	0.00	0.00	12.67		10.35	18.92	83.84	86.68	31-Jan-15 12:00:00		**11.08**	**18.92**	**83.84**	**99.35**
31-Jan-15 13:00:00	31-Jan-15 14:00:00		2.17	0.00	0.00	5.57	2.1	329.7		0.72	0.00	0.00	1.84		10.35	18.92	83.84	86.68	31-Jan-15 13:00:00		**11.07**	**18.92**	**83.84**	**88.52**
31-Jan-15 14:00:00	31-Jan-15 15:00:00		0.00	0.00	0.00	5.41	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	31-Jan-15 14:00:00		**10.35**	**18.92**	**83.84**	**88.47**
31-Jan-15 15:00:00	31-Jan-15 16:00:00		0.28	0.00	0.00	5.26	2.1	329.7		0.09	0.00	0.00	1.73		10.35	18.92	83.84	86.68	31-Jan-15 15:00:00		**10.44**	**18.92**	**83.84**	**88.41**
31-Jan-15 16:00:00	31-Jan-15 17:00:00		0.00	0.00	0.00	14.92	2.1	329.7		0.00	0.00	0.00	4.92		10.35	18.92	83.84	86.68	31-Jan-15 16:00:00		**10.35**	**18.92**	**83.84**	**91.60**
31-Jan-15 17:00:00	31-Jan-15 18:00:00		0.00	0.00	0.00	5.28	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	31-Jan-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.42**
31-Jan-15 18:00:00	31-Jan-15 19:00:00		0.00	0.00	0.00	5.37	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	31-Jan-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.45**
31-Jan-15 19:00:00	31-Jan-15 20:00:00		0.00	0.00	0.00	5.47	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	31-Jan-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.48**
31-Jan-15 20:00:00	31-Jan-15 21:00:00		0.00	0.00	0.00	5.63	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	31-Jan-15 20:00:00		**10.35**	**18.92**	**83.84**	**88.54**
31-Jan-15 21:00:00	31-Jan-15 22:00:00		0.00	0.00	0.00	5.83	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	31-Jan-15 21:00:00		**10.35**	**18.92**	**83.84**	**88.60**
31-Jan-15 22:00:00	31-Jan-15 23:00:00		0.00	0.00	0.00	6.00	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	31-Jan-15 22:00:00		**10.35**	**18.92**	**83.84**	**88.66**
31-Jan-15 23:00:00	01-Feb-15 00:00:00		0.00	0.00	0.00	6.17	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	31-Jan-15 23:00:00		**10.35**	**18.92**	**83.84**	**88.71**
01-Feb-15 00:00:00	01-Feb-15 01:00:00		0.00	0.00	0.00	6.31	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	01-Feb-15 00:00:00		**10.35**	**18.92**	**83.84**	**88.76**
01-Feb-15 01:00:00	01-Feb-15 02:00:00		0.00	0.00	0.00	6.27	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	01-Feb-15 01:00:00		**10.35**	**18.92**	**83.84**	**88.75**
01-Feb-15 02:00:00	01-Feb-15 03:00:00		0.00	0.00	0.00	6.68	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	01-Feb-15 02:00:00		**10.35**	**18.92**	**83.84**	**88.88**
01-Feb-15 03:00:00	01-Feb-15 04:00:00		0.00	0.00	0.00	6.25	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	01-Feb-15 03:00:00		**10.35**	**18.92**	**83.84**	**88.74**
01-Feb-15 04:00:00	01-Feb-15 05:00:00		0.00	0.00	0.00	7.65	2.1	329.7		0.00	0.00	0.00	2.52		10.35	18.92	83.84	86.68	01-Feb-15 04:00:00		**10.35**	**18.92**	**83.84**	**89.20**
01-Feb-15 05:00:00	01-Feb-15 06:00:00		0.00	0.00	0.00	6.00	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	01-Feb-15 05:00:00		**10.35**	**18.92**	**83.84**	**88.66**
01-Feb-15 06:00:00	01-Feb-15 07:00:00		0.00	0.00	0.00	17.05	2.1	329.7		0.00	0.00	0.00	5.62		10.35	18.92	83.84	86.68	01-Feb-15 06:00:00		**10.35**	**18.92**	**83.84**	**92.30**
01-Feb-15 07:00:00	01-Feb-15 08:00:00		0.00	0.00	0.00	6.02	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	01-Feb-15 07:00:00		**10.35**	**18.92**	**83.84**	**88.66**
01-Feb-15 08:00:00	01-Feb-15 09:00:00		0.00	0.00	0.00	6.00	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	01-Feb-15 08:00:00		**10.35**	**18.92**	**83.84**	**88.66**
01-Feb-15 09:00:00	01-Feb-15 10:00:00		0.00	0.00	0.00	5.98	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	01-Feb-15 09:00:00		**10.35**	**18.92**	**83.84**	**88.65**
01-Feb-15 10:00:00	01-Feb-15 11:00:00		0.00	0.00	0.00	5.85	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	01-Feb-15 10:00:00		**10.35**	**18.92**	**83.84**	**88.61**
01-Feb-15 11:00:00	01-Feb-15 12:00:00		0.00	0.00	0.00	5.47	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	01-Feb-15 11:00:00		**10.35**	**18.92**	**83.84**	**88.48**
01-Feb-15 12:00:00	01-Feb-15 13:00:00		0.63	0.00	0.00	8.73	2.1	329.7		0.21	0.00	0.00	2.88		10.35	18.92	83.84	86.68	01-Feb-15 12:00:00		**10.56**	**18.92**	**83.84**	**89.56**
01-Feb-15 13:00:00	01-Feb-15 14:00:00		0.95	0.00	0.00	5.01	2.1	329.7		0.31	0.00	0.00	1.65		10.35	18.92	83.84	86.68	01-Feb-15 13:00:00		**10.66**	**18.92**	**83.84**	**88.33**
01-Feb-15 14:00:00	01-Feb-15 15:00:00		0.76	0.00	0.00	4.87	2.1	329.7		0.25	0.00	0.00	1.60		10.35	18.92	83.84	86.68	01-Feb-15 14:00:00		**10.60**	**18.92**	**83.84**	**88.28**
01-Feb-15 15:00:00	01-Feb-15 16:00:00		1.96	0.00	0.00	4.72	2.1	329.7		0.65	0.00	0.00	1.56		10.35	18.92	83.84	86.68	01-Feb-15 15:00:00		**11.00**	**18.92**	**83.84**	**88.24**
01-Feb-15 16:00:00	01-Feb-15 17:00:00		2.17	0.00	0.00	68.44	2.1	329.7		0.72	0.00	0.00	22.56		10.35	18.92	83.84	86.68	01-Feb-15 16:00:00		**11.07**	**18.92**	**83.84**	**109.24**
01-Feb-15 17:00:00	01-Feb-15 18:00:00		3.64	0.00	0.00	4.96	2.1	329.7		1.20	0.00	0.00	1.63		10.35	18.92	83.84	86.68	01-Feb-15 17:00:00		**11.55**	**18.92**	**83.84**	**88.31**
01-Feb-15 18:00:00	01-Feb-15 19:00:00		0.00	0.00	0.00	15.82	2.1	329.7		0.00	0.00	0.00	5.22		10.35	18.92	83.84	86.68	01-Feb-15 18:00:00		**10.35**	**18.92**	**83.84**	**91.90**
01-Feb-15 19:00:00	01-Feb-15 20:00:00		0.00	0.00	0.00	5.18	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	01-Feb-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.39**
01-Feb-15 20:00:00	01-Feb-15 21:00:00		0.00	0.00	0.00	6.24	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	01-Feb-15 20:00:00		**10.35**	**18.92**	**83.84**	**88.74**
01-Feb-15 21:00:00	01-Feb-15 22:00:00		0.00	0.00	0.00	5.02	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	01-Feb-15 21:00:00		**10.35**	**18.92**	**83.84**	**88.34**
01-Feb-15 22:00:00	01-Feb-15 23:00:00		0.11	0.00	0.00	4.92	2.1	329.7		0.04	0.00	0.00	1.62		10.35	18.92	83.84	86.68	01-Feb-15 22:00:00		**10.39**	**18.92**	**83.84**	**88.30**
01-Feb-15 23:00:00	02-Feb-15 00:00:00		0.00	0.00	0.00	4.82	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	01-Feb-15 23:00:00		**10.35**	**18.92**	**83.84**	**88.27**
02-Feb-15 00:00:00	02-Feb-15 01:00:00		0.00	0.00	0.00	9.71	2.1	329.7		0.00	0.00	0.00	3.20		10.35	18.92	83.84	86.68	02-Feb-15 00:00:00		**10.35**	**18.92**	**83.84**	**89.88**
02-Feb-15 01:00:00	02-Feb-15 02:00:00		0.00	0.00	0.00	14.42	2.1	329.7		0.00	0.00	0.00	4.75		10.35	18.92	83.84	86.68	02-Feb-15 01:00:00		**10.35**	**18.92**	**83.84**	**91.43**
02-Feb-15 02:00:00	02-Feb-15 03:00:00		0.00	0.00	0.00	5.16	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	02-Feb-15 02:00:00		**10.35**	**18.92**	**83.84**	**88.38**
02-Feb-15 03:00:00	02-Feb-15 04:00:00		0.00	0.00	0.00	5.18	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	02-Feb-15 03:00:00		**10.35**	**18.92**	**83.84**	**88.39**
02-Feb-15 04:00:00	02-Feb-15 05:00:00		0.00	0.00	0.00	5.19	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	02-Feb-15 04:00:00		**10.35**	**18.92**	**83.84**	**88.39**
02-Feb-15 05:00:00	02-Feb-15 06:00:00		0.00	0.00	0.00	5.21	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	02-Feb-15 05:00:00		**10.35**	**18.92**	**83.84**	**88.40**
02-Feb-15 06:00:00	02-Feb-15 07:00:00		0.00	0.00	0.00	5.13	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	02-Feb-15 06:00:00		**10.35**	**18.92**	**83.84**	**88.37**
02-Feb-15 07:00:00	02-Feb-15 08:00:00		0.10	0.00	0.00	4.96	2.1	329.7		0.03	0.00	0.00	1.64		10.35	18.92	83.84	86.68	02-Feb-15 07:00:00		**10.38**	**18.92**	**83.84**	**88.32**
02-Feb-15 08:00:00	02-Feb-15 09:00:00		0.28	0.00	0.00	6.30	2.1	329.7		0.09	0.00	0.00	2.08		10.35	18.92	83.84	86.68	02-Feb-15 08:00:00		**10.44**	**18.92**	**83.84**	**88.76**
02-Feb-15 09:00:00	02-Feb-15 10:00:00		0.46	0.00	0.00	5.21	2.1	329.7		0.15	0.00	0.00	1.72		10.35	18.92	83.84	86.68	02-Feb-15 09:00:00		**10.50**	**18.92**	**83.84**	**88.40**
02-Feb-15 10:00:00	02-Feb-15 11:00:00		5.01	0.00	0.00	5.40	2.1	329.7		1.65	0.00	0.00	1.78		10.35	18.92	83.84	86.68	02-Feb-15 10:00:00		**12.00**	**18.92**	**83.84**	**88.46**
02-Feb-15 11:00:00	02-Feb-15 12:00:00		3.51	0.00	0.00	5.60	2.1	329.7		1.16	0.00	0.00	1.85		10.35	18.92	83.84	86.68	02-Feb-15 11:00:00		**11.51**	**18.92**	**83.84**	**88.53**
02-Feb-15 12:00:00	02-Feb-15 13:00:00		2.10	0.00	0.00	5.77	2.1	329.7		0.69	0.00	0.00	1.90		10.35	18.92	83.84	86.68	02-Feb-15 12:00:00		**11.04**	**18.92**	**83.84**	**88.58**
02-Feb-15 13:00:00	02-Feb-15 14:00:00		1.08	0.00	0.00	5.80	2.1	329.7		0.36	0.00	0.00	1.91		10.35	18.92	83.84	86.68	02-Feb-15 13:00:00		**10.71**	**18.92**	**83.84**	**88.59**
02-Feb-15 14:00:00	02-Feb-15 15:00:00		1.07	0.00	0.00	5.79	2.1	329.7		0.35	0.00	0.00	1.91		10.35	18.92	83.84	86.68	02-Feb-15 14:00:00		**10.70**	**18.92**	**83.84**	**88.59**
02-Feb-15 15:00:00	02-Feb-15 16:00:00		2.38	0.00	0.00	5.78	2.1	329.7		0.79	0.00	0.00	1.91		10.35	18.92	83.84	86.68	02-Feb-15 15:00:00		**11.14**	**18.92**	**83.84**	**88.59**
02-Feb-15 16:00:00	02-Feb-15 17:00:00		0.00	0.00	0.00	5.80	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	02-Feb-15 16:00:00		**10.35**	**18.92**	**83.84**	**88.59**
02-Feb-15 17:00:00	02-Feb-15 18:00:00		0.00	0.00	0.00	5.88	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	02-Feb-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.62**
02-Feb-15 18:00:00	02-Feb-15 19:00:00		0.00	0.00	0.00	5.93	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	02-Feb-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.64**
02-Feb-15 19:00:00	02-Feb-15 20:00:00		0.00	0.00	0.00	5.98	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	02-Feb-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.65**
02-Feb-15 20:00:00	02-Feb-15 21:00:00		0.00	0.00	0.00	6.05

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
04-Feb-15 18:00:00	04-Feb-15 19:00:00		0.00	0.00	0.00	5.17	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	04-Feb-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.38**
04-Feb-15 19:00:00	04-Feb-15 20:00:00		0.00	0.00	0.00	5.24	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	04-Feb-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.41**
04-Feb-15 20:00:00	04-Feb-15 21:00:00		0.00	0.00	0.00	5.30	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	04-Feb-15 20:00:00		**10.35**	**18.92**	**83.84**	**88.43**
04-Feb-15 21:00:00	04-Feb-15 22:00:00		0.00	0.00	0.00	5.28	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	04-Feb-15 21:00:00		**10.35**	**18.92**	**83.84**	**88.42**
04-Feb-15 22:00:00	04-Feb-15 23:00:00		0.00	0.00	0.00	5.27	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	04-Feb-15 22:00:00		**10.35**	**18.92**	**83.84**	**88.42**
04-Feb-15 23:00:00	05-Feb-15 00:00:00		0.00	0.00	0.00	115.31	2.1	329.7		0.00	0.00	0.00	38.02		10.35	18.92	83.84	86.68	04-Feb-15 23:00:00		**10.35**	**18.92**	**83.84**	**124.70**
05-Feb-15 00:00:00	05-Feb-15 01:00:00		0.00	0.00	0.00	5.66	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	05-Feb-15 00:00:00		**10.35**	**18.92**	**83.84**	**88.55**
05-Feb-15 01:00:00	05-Feb-15 02:00:00		0.00	0.00	0.00	5.61	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	05-Feb-15 01:00:00		**10.35**	**18.92**	**83.84**	**88.53**
05-Feb-15 02:00:00	05-Feb-15 03:00:00		0.00	0.00	0.00	5.55	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	05-Feb-15 02:00:00		**10.35**	**18.92**	**83.84**	**88.51**
05-Feb-15 03:00:00	05-Feb-15 04:00:00		0.00	0.00	0.00	5.53	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	05-Feb-15 03:00:00		**10.35**	**18.92**	**83.84**	**88.50**
05-Feb-15 04:00:00	05-Feb-15 05:00:00		0.00	0.00	0.00	5.57	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	05-Feb-15 04:00:00		**10.35**	**18.92**	**83.84**	**88.52**
05-Feb-15 05:00:00	05-Feb-15 06:00:00		0.12	43.81	0.00	5.54	2.1	329.7		0.04	14.44	0.00	1.83		10.35	18.92	83.84	86.68	05-Feb-15 05:00:00		**10.39**	**33.36**	**83.84**	**88.51**
05-Feb-15 06:00:00	05-Feb-15 07:00:00		0.00	489.15	0.00	5.51	2.1	329.7		0.00	161.27	0.00	1.82		10.35	18.92	83.84	86.68	05-Feb-15 06:00:00		**10.35**	**180.19**	**83.84**	**88.50**
05-Feb-15 07:00:00	05-Feb-15 08:00:00		0.00	192.59	0.00	5.56	2.1	329.7		0.00	63.50	0.00	1.83		10.35	18.92	83.84	86.68	05-Feb-15 07:00:00		**10.35**	**82.42**	**83.84**	**88.51**
05-Feb-15 08:00:00	05-Feb-15 09:00:00		0.00	191.85	0.00	5.60	2.1	329.7		0.00	63.25	0.00	1.85		10.35	18.92	83.84	86.68	05-Feb-15 08:00:00		**10.35**	**82.17**	**83.84**	**88.53**
05-Feb-15 09:00:00	05-Feb-15 10:00:00		0.00	192.91	0.00	5.38	2.1	329.7		0.00	63.60	0.00	1.77		10.35	18.92	83.84	86.68	05-Feb-15 09:00:00		**10.35**	**82.52**	**83.84**	**88.45**
05-Feb-15 10:00:00	05-Feb-15 11:00:00		0.22	705.63	0.00	5.17	2.1	329.7		0.07	232.65	0.00	1.70		10.35	18.92	83.84	86.68	05-Feb-15 10:00:00		**10.42**	**251.57**	**83.84**	**88.38**
05-Feb-15 11:00:00	05-Feb-15 12:00:00		1.37	1,288.69	0.00	5.00	2.1	329.7		0.45	424.88	0.00	1.65		10.35	18.92	83.84	86.68	05-Feb-15 11:00:00		**10.80**	**443.80**	**83.84**	**88.33**
05-Feb-15 12:00:00	05-Feb-15 13:00:00		3.58	595.58	0.00	5.02	2.1	329.7		1.18	196.36	0.00	1.65		10.35	18.92	83.84	86.68	05-Feb-15 12:00:00		**11.53**	**215.28**	**83.84**	**88.33**
05-Feb-15 13:00:00	05-Feb-15 14:00:00		0.40	334.93	0.00	4.99	2.1	329.7		0.13	110.43	0.00	1.64		10.35	18.92	83.84	86.68	05-Feb-15 13:00:00		**10.48**	**129.35**	**83.84**	**88.32**
05-Feb-15 14:00:00	05-Feb-15 15:00:00		0.28	332.26	0.00	4.96	2.1	329.7		0.09	109.55	0.00	1.63		10.35	18.92	83.84	86.68	05-Feb-15 14:00:00		**10.44**	**128.47**	**83.84**	**88.31**
05-Feb-15 15:00:00	05-Feb-15 16:00:00		0.16	332.67	0.00	4.95	2.1	329.7		0.05	109.68	0.00	1.63		10.35	18.92	83.84	86.68	05-Feb-15 15:00:00		**10.40**	**128.60**	**83.84**	**88.31**
05-Feb-15 16:00:00	05-Feb-15 17:00:00		0.16	291.50	0.00	5.30	2.1	329.7		0.05	96.11	0.00	1.75		10.35	18.92	83.84	86.68	05-Feb-15 16:00:00		**10.40**	**115.03**	**83.84**	**88.43**
05-Feb-15 17:00:00	05-Feb-15 18:00:00		0.69	185.51	0.00	5.78	2.1	329.7		0.23	61.16	0.00	1.90		10.35	18.92	83.84	86.68	05-Feb-15 17:00:00		**10.58**	**80.08**	**83.84**	**88.58**
05-Feb-15 18:00:00	05-Feb-15 19:00:00		0.00	190.66	30.88	100.61	2.1	329.7		0.00	62.86	10.18	33.17		10.35	18.92	83.84	86.68	05-Feb-15 18:00:00		**10.35**	**81.78**	**94.02**	**119.85**
05-Feb-15 19:00:00	05-Feb-15 20:00:00		0.00	184.89	193.81	397.74	2.1	329.7		0.00	60.96	63.90	131.13		10.35	18.92	83.84	86.68	05-Feb-15 19:00:00		**10.35**	**79.88**	**147.74**	**217.81**
05-Feb-15 20:00:00	05-Feb-15 21:00:00		0.00	185.14	194.90	389.71	2.1	329.7		0.00	61.04	64.26	128.49		10.35	18.92	83.84	86.68	05-Feb-15 20:00:00		**10.35**	**79.96**	**148.10**	**215.17**
05-Feb-15 21:00:00	05-Feb-15 22:00:00		0.00	190.51	194.03	423.28	2.1	329.7		0.00	62.81	63.97	139.55		10.35	18.92	83.84	86.68	05-Feb-15 21:00:00		**10.35**	**81.73**	**147.81**	**226.23**
05-Feb-15 22:00:00	05-Feb-15 23:00:00		2.03	183.10	11.39	74.34	2.1	329.7		0.67	60.37	3.76	24.51		10.35	18.92	83.84	86.68	05-Feb-15 22:00:00		**11.02**	**79.29**	**87.60**	**111.19**
05-Feb-15 23:00:00	06-Feb-15 00:00:00		10.06	183.71	0.00	7.00	2.1	329.7		3.32	60.57	0.00	2.31		10.35	18.92	83.84	86.68	05-Feb-15 23:00:00		**13.67**	**79.49**	**83.84**	**88.99**
06-Feb-15 00:00:00	06-Feb-15 01:00:00		3.52	0.00	0.00	7.21	2.1	329.7		1.16	0.00	0.00	2.38		10.35	18.92	83.84	86.68	06-Feb-15 00:00:00		**11.51**	**18.92**	**83.84**	**89.06**
06-Feb-15 01:00:00	06-Feb-15 02:00:00		3.05	0.00	0.00	7.43	2.1	329.7		1.01	0.00	0.00	2.45		10.35	18.92	83.84	86.68	06-Feb-15 01:00:00		**11.36**	**18.92**	**83.84**	**89.13**
06-Feb-15 02:00:00	06-Feb-15 03:00:00		0.85	0.00	0.00	559.42	2.1	329.7		0.28	0.00	0.00	184.44		10.35	18.92	83.84	86.68	06-Feb-15 02:00:00		**10.63**	**18.92**	**83.84**	**271.12**
06-Feb-15 03:00:00	06-Feb-15 04:00:00		4.08	0.00	0.00	695.34	2.1	329.7		1.34	0.00	0.00	229.25		10.35	18.92	83.84	86.68	06-Feb-15 03:00:00		**11.69**	**18.92**	**83.84**	**315.93**
06-Feb-15 04:00:00	06-Feb-15 05:00:00		2.32	0.00	0.00	346.46	2.1	329.7		0.76	0.00	0.00	114.23		10.35	18.92	83.84	86.68	06-Feb-15 04:00:00		**11.11**	**18.92**	**83.84**	**200.91**
06-Feb-15 05:00:00	06-Feb-15 06:00:00		5.83	0.00	0.00	7.10	2.1	329.7		1.92	0.00	0.00	2.34		10.35	18.92	83.84	86.68	06-Feb-15 05:00:00		**12.27**	**18.92**	**83.84**	**89.02**
06-Feb-15 06:00:00	06-Feb-15 07:00:00		7.10	0.00	0.00	7.37	2.1	329.7		2.34	0.00	0.00	2.43		10.35	18.92	83.84	86.68	06-Feb-15 06:00:00		**12.69**	**18.92**	**83.84**	**89.11**
06-Feb-15 07:00:00	06-Feb-15 08:00:00		5.87	0.00	0.00	7.64	2.1	329.7		1.93	0.00	0.00	2.52		10.35	18.92	83.84	86.68	06-Feb-15 07:00:00		**12.28**	**18.92**	**83.84**	**89.20**
06-Feb-15 08:00:00	06-Feb-15 09:00:00		3.07	0.00	0.00	7.92	2.1	329.7		1.01	0.00	0.00	2.61		10.35	18.92	83.84	86.68	06-Feb-15 08:00:00		**11.36**	**18.92**	**83.84**	**89.29**
06-Feb-15 09:00:00	06-Feb-15 10:00:00		2.96	0.00	0.00	7.63	2.1	329.7		0.98	0.00	0.00	2.52		10.35	18.92	83.84	86.68	06-Feb-15 09:00:00		**11.33**	**18.92**	**83.84**	**89.20**
06-Feb-15 10:00:00	06-Feb-15 11:00:00		4.31	0.00	0.00	7.05	2.1	329.7		1.42	0.00	0.00	2.32		10.35	18.92	83.84	86.68	06-Feb-15 10:00:00		**11.77**	**18.92**	**83.84**	**89.00**
06-Feb-15 11:00:00	06-Feb-15 12:00:00		2.77	0.00	0.00	6.46	2.1	329.7		0.91	0.00	0.00	2.13		10.35	18.92	83.84	86.68	06-Feb-15 11:00:00		**11.26**	**18.92**	**83.84**	**88.81**
06-Feb-15 12:00:00	06-Feb-15 13:00:00		0.66	0.00	0.00	5.92	2.1	329.7		0.22	0.00	0.00	1.95		10.35	18.92	83.84	86.68	06-Feb-15 12:00:00		**10.57**	**18.92**	**83.84**	**88.63**
06-Feb-15 13:00:00	06-Feb-15 14:00:00		6.38	0.00	0.00	5.71	2.1	329.7		2.10	0.00	0.00	1.88		10.35	18.92	83.84	86.68	06-Feb-15 13:00:00		**12.45**	**18.92**	**83.84**	**88.56**
06-Feb-15 14:00:00	06-Feb-15 15:00:00		8.01	0.00	0.00	5.56	2.1	329.7		2.64	0.00	0.00	1.83		10.35	18.92	83.84	86.68	06-Feb-15 14:00:00		**12.99**	**18.92**	**83.84**	**88.51**
06-Feb-15 15:00:00	06-Feb-15 16:00:00		4.41	0.00	0.00	5.41	2.1	329.7		1.45	0.00	0.00	1.78		10.35	18.92	83.84	86.68	06-Feb-15 15:00:00		**11.80**	**18.92**	**83.84**	**88.46**
06-Feb-15 16:00:00	06-Feb-15 17:00:00		2.15	0.00	0.00	5.31	2.1	329.7		0.71	0.00	0.00	1.75		10.35	18.92	83.84	86.68	06-Feb-15 16:00:00		**11.06**	**18.92**	**83.84**	**88.43**
06-Feb-15 17:00:00	06-Feb-15 18:00:00		1.83	0.00	0.00	5.44	2.1	329.7		0.60	0.00	0.00	1.79		10.35	18.92	83.84	86.68	06-Feb-15 17:00:00		**10.95**	**18.92**	**83.84**	**88.47**
06-Feb-15 18:00:00	06-Feb-15 19:00:00		1.25	0.00	0.00	5.55	2.1	329.7		0.41	0.00	0.00	1.83		10.35	18.92	83.84	86.68	06-Feb-15 18:00:00		**10.76**	**18.92**	**83.84**	**88.51**
06-Feb-15 19:00:00	06-Feb-15 20:00:00		0.68	0.00	0.00	5.67	2.1	329.7		0.22	0.00	0.00	1.87		10.35	18.92	83.84	86.68	06-Feb-15 19:00:00		**10.57**	**18.92**	**83.84**	**88.55**
06-Feb-15 20:00:00	06-Feb-15 21:00:00		0.13	0.00	0.00	5.76	2.1	329.7		0.04	0.00	0.00	1.90		10.35	18.92	83.84	86.68	06-Feb-15 20:00:00		**10.39**	**18.92**	**83.84**	**88.58**
06-Feb-15 21:00:00	06-Feb-15 22:00:00		0.00	0.00	0.00	5.83	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	06-Feb-15 21:00:00		**10.35**	**18.92**	**83.84**	**88.60**
06-Feb-15 22:00:00	06-Feb-15 23:00:00		0.00	0.00	0.00	6.00	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	06-Feb-15 22:00:00		**10.35**	**18.92**	**83.84**	**88.66**
06-Feb-15 23:00:00	07-Feb-15 00:00:00		0.00	0.00	0.00	6.17	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	06-Feb-15 23:00:00		**10.35**	**18.92**	**83.84**	**88.71**
07-Feb-15 00:00:00	07-Feb-15 01:00:00		0.35	0.00	0.00	6.35	2.1	329.7		0.11	0.00	0.00	2.09		10.35	18.92	83.84	86.68	07-Feb-15 00:00:00		**10.46**	**18.92**	**83.84**	**88.77**
07-Feb-15 01:00:00	07-Feb-15 02:00:00		4.25	0.00	0.00	6.43	2.1	329.7		1.40	0.00	0.00	2.12		10.35	18.92	83.84	86.68	07-Feb-15 01:00:00		**11.75**	**18.92**	**83.84**	**88.80**
07-Feb-15 02:00:00	07-Feb-15 03:00:00		4.58	0.00	0.00	6.40	2.1	329.7		1.51	0.00	0.00	2.11		10.35	18.92	83.84	86.68	07-Feb-15 02:00:00		**11.86**	**18.92**	**83.84**	**88.79**
07-Feb-15 03:00:00	07-Feb-15 04:00:00		2.59	0.00	0.00	6.37	2.1	329.7		0.85	0.00	0.00	2.10		10.35	18.92	83.84	86.68	07-Feb-15 03:00:00		**11.20**	**18.92**	**83.84**	**88.78**
07-Feb-15 04:00:00	07-Feb-15 05:00:00		0.18	0.00	0.00	6.37	2.1	329.7		0.06	0.00	0.00	2.10		10.35	18.92	83.84	86.68	07-Feb-15 04:00:00		**10.41**	**18.92**	**83.84**	**88.78**
07-Feb-15 05:00:00	07-Feb-15 06:00:00		0.12	0.00	0.00	6.41	2.1	329.7		0.04	0.00	0.00	2.11		10.35	18.92	83.84	86.68	07-Feb-15 05:00:00		**10.39**	**18.92**	**83.84**	**88.79**
07-Feb-15 06:00:00	07-Feb-15 07:00:00		0.05	0.00	0.00	6.41	2.1	329.7		0.02	0.00	0.00	2.11		10.35	18.92	83.84	86.68	07-Feb-15 06:00:00		**10.37**	**18.92**	**83.84**	**88.79**
07-Feb-15 07:00:00	07-Feb-15 08:00:00		0.00	0.00	0.00	6.41	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	07-Feb-15 07:00:00		**10.35**	**18.92**	**83.84**	**88.79**
07-Feb-15 08:00:00	07-Feb-15 09:00:00		0.00	0.00	0.00	6.37	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	07-Feb-15 08:00:00		**10.35**	**18.92**	**83.84**	**88.78**
07-Feb-15 09:00:00	07-Feb-15 10:00:00		0.00	0.00	0.00	6.08	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	07-Feb-15 09:00:00		**10.35**	**18.92**	**83.84**	**88.69**
07-Feb-15 10:00:00	07-Feb-15 11:00:00		4.46	0.00	0.00	5.74	2.1	329.7		1.47	0.00	0.00	1.89		10.35	18.92	83.84	86.68	07-Feb-15 10:00:00		**11.82**	**18.92**	**83.84**	**88.57**
07-Feb-15 11:00:00	07-Feb-15 12:00:00		1.17	0.00	0.00	5.40	2.1	329.7		0.39	0.00	0.00	1.78		10.35	18.92	83.84	86.68	07-Feb-15 11:00:00		**10.74**	**18.92**	**83.84**	**88.46**
07-Feb-15 12:00:00	07-Feb-15 13:00:00		0.23	0.00	0.00	5.02	2.1	329.7		0.08	0.00	0.00	1.66		10.35	18.92	83.84	86.68	07-Feb-15 12:00:00		**10.43**	**18.92**	**83.84**	**88.34**
07-Feb-15 13:00:00	07-Feb-15 14:00:00		2.23	0.00	0.00	4.69	2.1	329.7		0.73	0.00	0.00	1.54		10.35	18.92	83.84	86.68	07-Feb-15 13:00:00		**11.08**	**18.92**	**83.84**	**88.22**
07-Feb-15 14:00:00	07-Feb-15 15:00:00		0.55	0.00	0.00	4.51	2.1	329.7		0.18	0.00	0.00	1.49		10.35	18.92	83.84	86.68	07-Feb-15 14:00:00		**10.53**	**18.92**	**83.84**	**88.17**
07-Feb-15 15:00:00	07-Feb-15 16:00:00		0.00	0.00	0.00	4.34	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	07-Feb-15 15:00:00		**10.35**	**18.92**	**83.84**	**88.11**
07-Feb-15 16:00:00	07-Feb-15 17:00:00		0.00	0.00	0.00	4.22	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	07-Feb-15 16:00:00		**10.35**	**18.92**	**83.84**	**88.07**
07-Feb-15 17:00:00	07-Feb-15 18:00:00		0.00	0.00	0.00	4.37	2.1	329.7		0.00	0.00	0.00	1.44		10.35	18.92	83.84	86.68	07-Feb-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.12**
07-Feb-15 18:00:00	07-Feb-15 19:00:00		0.00	0.00	0.00	4.50	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	07-Feb-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.16**
07-Feb-15 19:00:00	07-Feb-15 20:00:00		0.00	0.00	0.00	4.63	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	07-Feb-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.21**
07-Feb-15 20:00:00	07-Feb-15 21:00:00		0.00	0.00	0.00	4.73	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	07-Feb-15 20:00:00		**10.35**	**18.92**	**83.84**	**88.24**
07-Feb-15 21:00:00	07-Feb-15 22:00:00		0.00	0.00	0.00	4.82	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	07-Feb-15 21:00:00		**10.35**	**18.92**	**83.84**	**88.27**
07-Feb-15 22:00:00	07-Feb-15 23:00:00		0.00	0.00	0.00	5.01	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	07-Feb-15 22:00:00		**10.35**	**18.92**	**83.84**	**88.33**
07-Feb-15 23:00:00	08-Feb-15 00:00:00		0.00	0.00	0.00	5.20	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	07-Feb-15 23:00:00		**10.35**	**18.92**	**83.84**	**88.39**
08-Feb-15 00:00:00	08-Feb-15 01:00:00		0.00	0.00	0.00	5.33	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	08-Feb-15 00:00:00		**10.35**	**18.92**	**83.84**	**88.44**
08-Feb-15 01:00:00	08-Feb-15 02:00:00		0.00	0.00	0.00	5.27	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	08-Feb-15 01:00:00		**10.35**	**18.92**	**83.84**	**88.42**
08-Feb-15 02:00:00	08-Feb-15 03:00:00		0.00	0.00	0.00	5.32	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	08-Feb-15 02:00:00		**10.35**	**18.92**	**83.84**	**88.43**
08-Feb-15 03:00:00	08-Feb-15 04:00:00		0.00	0.00	0.00	5.36	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	08-Feb-15 03:00:00		**10.35**	**18.92**	**83.84**	**88.45**
08-Feb-15 04:00:00	08-Feb-15 05:00:00		0.00	0.00	0.00	5.46	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	08-Feb-15 04:00:00		**10.35**	**18.92**	**83.84**	**88.48**
08-Feb-15 05:00:00	08-Feb-15 06:00:00		0.00	0.00	0.00	5.66	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	08-Feb-15 05:00:00		**10.35**	**18.92**	**83.84**	**88.55**
08-Feb-15 06:00:00	08-Feb-15 07:00:00		0.00	0.00	0.00	5.70	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	08-Feb-15 06:00:00		**10.35**	**18.92**	**83.84**	**88.56**
08-Feb-15 07:00:00	08-Feb-15 08:00:00		0.00	0.00	0.00	5.74	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	08-Feb-15 07:00:00		**10.35**	**18.92**	**83.84**	**88.57**
08-Feb-15 08:00:00	08-Feb-15 09:00:00		0.00	0.00	0.00	5.75	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	08-Feb-15 08:00:00		**10.35**	**18.92**	**83.84**	**88.57**
08-Feb-15 09:00:00	08-Feb-15 10:00:00		0.00	0.00	0.00	5.51	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	08-Feb-15 09:00:00		**10.35**	**18.92**	**83.84**	**88.50**
08-Feb-15 10:00:00	08-Feb-15 11:00:00		0.00	0.00	0.00	5.26	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	08-Feb-15 10:00:00		**10.35**	**18.92**	**83.84**	**88.42**
08-Feb-15 11:00:00	08-Feb-15 12:00:00		0.28	0.00	0.00	5.02	2.1	329.7		0.09	0.00	0.00	1.65		10.35	18.92	83.84	86.68	08-Feb-15 11:00:00		**10.44**	**18.92**	**83.84**	**88.33**
08-Feb-15 12:00:00	08-Feb-15 13:00:00		1.96	0.00	0.00	4.76	2.1	329.7		0.65	0.00	0.00	1.57		10.35	18.92	83.84	86.68	08-Feb-15 12:00:00		**11.00**	**18.92**	**83.84**	**88.25**
08-Feb-15 13:00:00	08-Feb-15 14:00:00		0.05	0.00	0.00	4.54	2.1	329.7		0.02	0.00	0.00	1.50		10.35	18.92	83.84	86.68	08-Feb-15 13:00:00		**10.37**	**18.92**	**83.84**	**88.18**
08-Feb-15 14:00:00	08-Feb-15 15:00:00		0.06	0.00	0.00	4.37	2.1	329.7		0.02	0.00	0.00	1.44		10.35	18.92	83.84	86.68	08-Feb-15 14:00:00		**10.37**	**18.92**	**83.84**	**88.12**
08-Feb-15 15:00:00	08-Feb-15 16:00:00		0.00	0.00	0.00

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
10-Feb-15 13:00:00	10-Feb-15 14:00:00		0.97	0.00	0.00	5.73	2.1	329.7		0.32	0.00	0.00	1.89		10.35	18.92	83.84	86.68	10-Feb-15 13:00:00		**10.67**	**18.92**	**83.84**	**88.57**
10-Feb-15 14:00:00	10-Feb-15 15:00:00		0.94	0.00	0.00	5.89	2.1	329.7		0.31	0.00	0.00	1.94		10.35	18.92	83.84	86.68	10-Feb-15 14:00:00		**10.66**	**18.92**	**83.84**	**88.62**
10-Feb-15 15:00:00	10-Feb-15 16:00:00		2.16	0.00	0.00	5.98	2.1	329.7		0.71	0.00	0.00	1.97		10.35	18.92	83.84	86.68	10-Feb-15 15:00:00		**11.06**	**18.92**	**83.84**	**88.65**
10-Feb-15 16:00:00	10-Feb-15 17:00:00		2.02	0.00	0.00	5.98	2.1	329.7		0.67	0.00	0.00	1.97		10.35	18.92	83.84	86.68	10-Feb-15 16:00:00		**11.02**	**18.92**	**83.84**	**88.65**
10-Feb-15 17:00:00	10-Feb-15 18:00:00		2.05	0.00	0.00	5.98	2.1	329.7		0.68	0.00	0.00	1.97		10.35	18.92	83.84	86.68	10-Feb-15 17:00:00		**11.03**	**18.92**	**83.84**	**88.65**
10-Feb-15 18:00:00	10-Feb-15 19:00:00		3.02	0.00	0.00	5.92	2.1	329.7		0.99	0.00	0.00	1.95		10.35	18.92	83.84	86.68	10-Feb-15 18:00:00		**11.34**	**18.92**	**83.84**	**88.63**
10-Feb-15 19:00:00	10-Feb-15 20:00:00		3.32	0.00	0.00	5.98	2.1	329.7		1.09	0.00	0.00	1.97		10.35	18.92	83.84	86.68	10-Feb-15 19:00:00		**11.44**	**18.92**	**83.84**	**88.65**
10-Feb-15 20:00:00	10-Feb-15 21:00:00		0.21	0.00	0.00	6.13	2.1	329.7		0.07	0.00	0.00	2.02		10.35	18.92	83.84	86.68	10-Feb-15 20:00:00		**10.42**	**18.92**	**83.84**	**88.70**
10-Feb-15 21:00:00	10-Feb-15 22:00:00		0.16	0.00	0.00	6.28	2.1	329.7		0.05	0.00	0.00	2.07		10.35	18.92	83.84	86.68	10-Feb-15 21:00:00		**10.40**	**18.92**	**83.84**	**88.75**
10-Feb-15 22:00:00	10-Feb-15 23:00:00		0.00	0.00	0.00	6.39	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	10-Feb-15 22:00:00		**10.35**	**18.92**	**83.84**	**88.79**
10-Feb-15 23:00:00	11-Feb-15 00:00:00		0.00	0.00	0.00	6.48	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	10-Feb-15 23:00:00		**10.35**	**18.92**	**83.84**	**88.82**
11-Feb-15 00:00:00	11-Feb-15 01:00:00		0.00	0.00	0.00	6.59	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	11-Feb-15 00:00:00		**10.35**	**18.92**	**83.84**	**88.85**
11-Feb-15 01:00:00	11-Feb-15 02:00:00		0.15	0.00	0.00	6.70	2.1	329.7		0.05	0.00	0.00	2.21		10.35	18.92	83.84	86.68	11-Feb-15 01:00:00		**10.40**	**18.92**	**83.84**	**88.89**
11-Feb-15 02:00:00	11-Feb-15 03:00:00		1.40	0.00	0.00	6.85	2.1	329.7		0.46	0.00	0.00	2.26		10.35	18.92	83.84	86.68	11-Feb-15 02:00:00		**10.81**	**18.92**	**83.84**	**88.94**
11-Feb-15 03:00:00	11-Feb-15 04:00:00		0.71	0.00	0.00	6.93	2.1	329.7		0.23	0.00	0.00	2.28		10.35	18.92	83.84	86.68	11-Feb-15 03:00:00		**10.58**	**18.92**	**83.84**	**88.96**
11-Feb-15 04:00:00	11-Feb-15 05:00:00		0.27	0.00	0.00	6.95	2.1	329.7		0.09	0.00	0.00	2.29		10.35	18.92	83.84	86.68	11-Feb-15 04:00:00		**10.44**	**18.92**	**83.84**	**88.97**
11-Feb-15 05:00:00	11-Feb-15 06:00:00		0.14	0.00	0.00	6.97	2.1	329.7		0.05	0.00	0.00	2.30		10.35	18.92	83.84	86.68	11-Feb-15 05:00:00		**10.40**	**18.92**	**83.84**	**88.98**
11-Feb-15 06:00:00	11-Feb-15 07:00:00		9.88	0.00	0.00	6.92	2.1	329.7		3.26	0.00	0.00	2.28		10.35	18.92	83.84	86.68	11-Feb-15 06:00:00		**13.61**	**18.92**	**83.84**	**88.96**
11-Feb-15 07:00:00	11-Feb-15 08:00:00		1.81	0.00	0.00	6.71	2.1	329.7		0.60	0.00	0.00	2.21		10.35	18.92	83.84	86.68	11-Feb-15 07:00:00		**10.95**	**18.92**	**83.84**	**88.89**
11-Feb-15 08:00:00	11-Feb-15 09:00:00		0.00	0.00	0.00	6.51	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	11-Feb-15 08:00:00		**10.35**	**18.92**	**83.84**	**88.83**
11-Feb-15 09:00:00	11-Feb-15 10:00:00		0.00	0.00	0.00	6.32	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	11-Feb-15 09:00:00		**10.35**	**18.92**	**83.84**	**88.76**
11-Feb-15 10:00:00	11-Feb-15 11:00:00		0.00	0.00	0.00	6.12	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	11-Feb-15 10:00:00		**10.35**	**18.92**	**83.84**	**88.70**
11-Feb-15 11:00:00	11-Feb-15 12:00:00		0.00	0.00	0.00	5.87	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	11-Feb-15 11:00:00		**10.35**	**18.92**	**83.84**	**88.62**
11-Feb-15 12:00:00	11-Feb-15 13:00:00		0.00	0.00	0.00	5.62	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	11-Feb-15 12:00:00		**10.35**	**18.92**	**83.84**	**88.53**
11-Feb-15 13:00:00	11-Feb-15 14:00:00		0.19	0.00	0.00	99.36	2.1	329.7		0.06	0.00	0.00	32.76		10.35	18.92	83.84	86.68	11-Feb-15 13:00:00		**10.41**	**18.92**	**83.84**	**119.44**
11-Feb-15 14:00:00	11-Feb-15 15:00:00		0.00	0.00	0.00	5.28	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	11-Feb-15 14:00:00		**10.35**	**18.92**	**83.84**	**88.42**
11-Feb-15 15:00:00	11-Feb-15 16:00:00		0.00	0.00	0.00	17.20	2.1	329.7		0.00	0.00	0.00	5.67		10.35	18.92	83.84	86.68	11-Feb-15 15:00:00		**10.35**	**18.92**	**83.84**	**92.35**
11-Feb-15 16:00:00	11-Feb-15 17:00:00		0.00	0.00	0.00	4.79	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	11-Feb-15 16:00:00		**10.35**	**18.92**	**83.84**	**88.26**
11-Feb-15 17:00:00	11-Feb-15 18:00:00		0.00	0.00	0.00	5.64	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	11-Feb-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.54**
11-Feb-15 18:00:00	11-Feb-15 19:00:00		0.00	0.00	0.00	4.84	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	11-Feb-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.27**
11-Feb-15 19:00:00	11-Feb-15 20:00:00		0.00	0.00	0.00	5.05	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	11-Feb-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.35**
11-Feb-15 20:00:00	11-Feb-15 21:00:00		0.00	0.00	0.00	5.27	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	11-Feb-15 20:00:00		**10.35**	**18.92**	**83.84**	**88.42**
11-Feb-15 21:00:00	11-Feb-15 22:00:00		0.00	0.00	0.00	5.50	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	11-Feb-15 21:00:00		**10.35**	**18.92**	**83.84**	**88.49**
11-Feb-15 22:00:00	11-Feb-15 23:00:00		0.00	0.00	0.00	5.86	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	11-Feb-15 22:00:00		**10.35**	**18.92**	**83.84**	**88.61**
11-Feb-15 23:00:00	12-Feb-15 00:00:00		0.10	0.00	0.00	7.58	2.1	329.7		0.03	0.00	0.00	2.50		10.35	18.92	83.84	86.68	11-Feb-15 23:00:00		**10.38**	**18.92**	**83.84**	**89.18**
12-Feb-15 00:00:00	12-Feb-15 01:00:00		0.00	0.00	0.00	6.28	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	12-Feb-15 00:00:00		**10.35**	**18.92**	**83.84**	**88.75**
12-Feb-15 01:00:00	12-Feb-15 02:00:00		0.00	0.00	0.00	38.70	2.1	329.7		0.00	0.00	0.00	12.76		10.35	18.92	83.84	86.68	12-Feb-15 01:00:00		**10.35**	**18.92**	**83.84**	**99.44**
12-Feb-15 02:00:00	12-Feb-15 03:00:00		1.41	0.00	0.00	7.45	2.1	329.7		0.47	0.00	0.00	2.46		10.35	18.92	83.84	86.68	12-Feb-15 02:00:00		**10.82**	**18.92**	**83.84**	**89.14**
12-Feb-15 03:00:00	12-Feb-15 04:00:00		2.91	0.00	67.94	19.96	2.1	329.7		0.96	0.00	22.40	6.58		10.35	18.92	83.84	86.68	12-Feb-15 03:00:00		**11.31**	**18.92**	**106.24**	**93.26**
12-Feb-15 04:00:00	12-Feb-15 05:00:00		0.84	0.00	461.46	509.78	2.1	329.7		0.28	0.00	152.14	168.07		10.35	18.92	83.84	86.68	12-Feb-15 04:00:00		**10.63**	**18.92**	**235.98**	**254.75**
12-Feb-15 05:00:00	12-Feb-15 06:00:00		4.95	0.00	0.00	157.54	2.1	329.7		1.63	0.00	0.00	51.94		10.35	18.92	83.84	86.68	12-Feb-15 05:00:00		**11.98**	**18.92**	**83.84**	**138.62**
12-Feb-15 06:00:00	12-Feb-15 07:00:00		8.59	0.00	0.00	6.33	2.1	329.7		2.83	0.00	0.00	2.09		10.35	18.92	83.84	86.68	12-Feb-15 06:00:00		**13.18**	**18.92**	**83.84**	**88.77**
12-Feb-15 07:00:00	12-Feb-15 08:00:00		3.87	0.00	0.00	6.87	2.1	329.7		1.28	0.00	0.00	2.26		10.35	18.92	83.84	86.68	12-Feb-15 07:00:00		**11.63**	**18.92**	**83.84**	**88.94**
12-Feb-15 08:00:00	12-Feb-15 09:00:00		0.64	0.00	0.00	6.48	2.1	329.7		0.21	0.00	0.00	2.14		10.35	18.92	83.84	86.68	12-Feb-15 08:00:00		**10.56**	**18.92**	**83.84**	**88.82**
12-Feb-15 09:00:00	12-Feb-15 10:00:00		0.47	0.00	0.00	66.08	2.1	329.7		0.16	0.00	0.00	21.79		10.35	18.92	83.84	86.68	12-Feb-15 09:00:00		**10.51**	**18.92**	**83.84**	**108.47**
12-Feb-15 10:00:00	12-Feb-15 11:00:00		0.28	0.00	0.00	6.08	2.1	329.7		0.09	0.00	0.00	2.01		10.35	18.92	83.84	86.68	12-Feb-15 10:00:00		**10.44**	**18.92**	**83.84**	**88.69**
12-Feb-15 11:00:00	12-Feb-15 12:00:00		0.00	0.00	0.00	5.66	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	12-Feb-15 11:00:00		**10.35**	**18.92**	**83.84**	**88.55**
12-Feb-15 12:00:00	12-Feb-15 13:00:00		0.28	0.00	0.00	7.62	2.1	329.7		0.09	0.00	0.00	2.51		10.35	18.92	83.84	86.68	12-Feb-15 12:00:00		**10.44**	**18.92**	**83.84**	**89.19**
12-Feb-15 13:00:00	12-Feb-15 14:00:00		0.33	0.00	0.00	5.12	2.1	329.7		0.11	0.00	0.00	1.69		10.35	18.92	83.84	86.68	12-Feb-15 13:00:00		**10.46**	**18.92**	**83.84**	**88.37**
12-Feb-15 14:00:00	12-Feb-15 15:00:00		0.00	0.00	0.00	5.17	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	12-Feb-15 14:00:00		**10.35**	**18.92**	**83.84**	**88.38**
12-Feb-15 15:00:00	12-Feb-15 16:00:00		0.24	0.00	0.00	5.21	2.1	329.7		0.08	0.00	0.00	1.72		10.35	18.92	83.84	86.68	12-Feb-15 15:00:00		**10.43**	**18.92**	**83.84**	**88.40**
12-Feb-15 16:00:00	12-Feb-15 17:00:00		0.00	0.00	0.00	5.26	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	12-Feb-15 16:00:00		**10.35**	**18.92**	**83.84**	**88.41**
12-Feb-15 17:00:00	12-Feb-15 18:00:00		0.00	0.00	0.00	18.87	2.1	329.7		0.00	0.00	0.00	6.22		10.35	18.92	83.84	86.68	12-Feb-15 17:00:00		**10.35**	**18.92**	**83.84**	**92.90**
12-Feb-15 18:00:00	12-Feb-15 19:00:00		1.98	0.00	0.00	43.17	2.1	329.7		0.65	0.00	0.00	14.23		10.35	18.92	83.84	86.68	12-Feb-15 18:00:00		**11.00**	**18.92**	**83.84**	**100.91**
12-Feb-15 19:00:00	12-Feb-15 20:00:00		3.35	0.00	0.00	6.30	2.1	329.7		1.10	0.00	0.00	2.08		10.35	18.92	83.84	86.68	12-Feb-15 19:00:00		**11.45**	**18.92**	**83.84**	**88.76**
12-Feb-15 20:00:00	12-Feb-15 21:00:00		0.47	0.00	0.00	6.35	2.1	329.7		0.16	0.00	0.00	2.09		10.35	18.92	83.84	86.68	12-Feb-15 20:00:00		**10.51**	**18.92**	**83.84**	**88.77**
12-Feb-15 21:00:00	12-Feb-15 22:00:00		0.81	0.00	0.00	6.40	2.1	329.7		0.27	0.00	0.00	2.11		10.35	18.92	83.84	86.68	12-Feb-15 21:00:00		**10.62**	**18.92**	**83.84**	**88.79**
12-Feb-15 22:00:00	12-Feb-15 23:00:00		0.58	0.00	0.00	6.45	2.1	329.7		0.19	0.00	0.00	2.13		10.35	18.92	83.84	86.68	12-Feb-15 22:00:00		**10.54**	**18.92**	**83.84**	**88.81**
12-Feb-15 23:00:00	13-Feb-15 00:00:00		1.61	0.00	0.00	6.56	2.1	329.7		0.53	0.00	0.00	2.16		10.35	18.92	83.84	86.68	12-Feb-15 23:00:00		**10.88**	**18.92**	**83.84**	**88.84**
13-Feb-15 00:00:00	13-Feb-15 01:00:00		18.44	0.00	0.00	6.73	2.1	329.7		6.08	0.00	0.00	2.22		10.35	18.92	83.84	86.68	13-Feb-15 00:00:00		**16.43**	**18.92**	**83.84**	**88.90**
13-Feb-15 01:00:00	13-Feb-15 02:00:00		21.45	0.00	0.00	15.02	2.1	329.7		7.07	0.00	0.00	4.95		10.35	18.92	83.84	86.68	13-Feb-15 01:00:00		**17.42**	**18.92**	**83.84**	**91.63**
13-Feb-15 02:00:00	13-Feb-15 03:00:00		10.26	0.00	0.00	6.98	2.1	329.7		3.38	0.00	0.00	2.30		10.35	18.92	83.84	86.68	13-Feb-15 02:00:00		**13.73**	**18.92**	**83.84**	**88.98**
13-Feb-15 03:00:00	13-Feb-15 04:00:00		7.39	0.00	0.00	7.06	2.1	329.7		2.44	0.00	0.00	2.33		10.35	18.92	83.84	86.68	13-Feb-15 03:00:00		**12.79**	**18.92**	**83.84**	**89.01**
13-Feb-15 04:00:00	13-Feb-15 05:00:00		5.11	0.00	0.00	7.13	2.1	329.7		1.68	0.00	0.00	2.35		10.35	18.92	83.84	86.68	13-Feb-15 04:00:00		**12.03**	**18.92**	**83.84**	**89.03**
13-Feb-15 05:00:00	13-Feb-15 06:00:00		2.83	0.00	0.00	7.13	2.1	329.7		0.93	0.00	0.00	2.35		10.35	18.92	83.84	86.68	13-Feb-15 05:00:00		**11.28**	**18.92**	**83.84**	**89.03**
13-Feb-15 06:00:00	13-Feb-15 07:00:00		5.44	0.00	0.00	7.15	2.1	329.7		1.79	0.00	0.00	2.36		10.35	18.92	83.84	86.68	13-Feb-15 06:00:00		**12.14**	**18.92**	**83.84**	**89.04**
13-Feb-15 07:00:00	13-Feb-15 08:00:00		12.63	0.00	0.00	7.21	2.1	329.7		4.16	0.00	0.00	2.38		10.35	18.92	83.84	86.68	13-Feb-15 07:00:00		**14.51**	**18.92**	**83.84**	**89.06**
13-Feb-15 08:00:00	13-Feb-15 09:00:00		35.63	0.00	0.00	7.26	2.1	329.7		11.75	0.00	0.00	2.39		10.35	18.92	83.84	86.68	13-Feb-15 08:00:00		**22.10**	**18.92**	**83.84**	**89.07**
13-Feb-15 09:00:00	13-Feb-15 10:00:00		39.61	0.00	0.00	10.23	2.1	329.7		13.06	0.00	0.00	3.37		10.35	18.92	83.84	86.68	13-Feb-15 09:00:00		**23.41**	**18.92**	**83.84**	**90.05**
13-Feb-15 10:00:00	13-Feb-15 11:00:00		24.49	0.00	0.00	7.04	2.1	329.7		8.07	0.00	0.00	2.32		10.35	18.92	83.84	86.68	13-Feb-15 10:00:00		**18.42**	**18.92**	**83.84**	**89.00**
13-Feb-15 11:00:00	13-Feb-15 12:00:00		26.51	0.00	0.00	53.91	2.1	329.7		8.74	0.00	0.00	17.77		10.35	18.92	83.84	86.68	13-Feb-15 11:00:00		**19.09**	**18.92**	**83.84**	**104.45**
13-Feb-15 12:00:00	13-Feb-15 13:00:00		2.15	0.00	0.00	6.44	2.1	329.7		0.71	0.00	0.00	2.12		10.35	18.92	83.84	86.68	13-Feb-15 12:00:00		**11.06**	**18.92**	**83.84**	**88.80**
13-Feb-15 13:00:00	13-Feb-15 14:00:00		1.14	0.00	0.00	9.27	2.1	329.7		0.38	0.00	0.00	3.06		10.35	18.92	83.84	86.68	13-Feb-15 13:00:00		**10.73**	**18.92**	**83.84**	**89.74**
13-Feb-15 14:00:00	13-Feb-15 15:00:00		0.71	0.00	0.00	6.35	2.1	329.7		0.23	0.00	0.00	2.09		10.35	18.92	83.84	86.68	13-Feb-15 14:00:00		**10.58**	**18.92**	**83.84**	**88.77**
13-Feb-15 15:00:00	13-Feb-15 16:00:00		0.27	0.00	0.00	6.22	2.1	329.7		0.09	0.00	0.00	2.05		10.35	18.92	83.84	86.68	13-Feb-15 15:00:00		**10.44**	**18.92**	**83.84**	**88.73**
13-Feb-15 16:00:00	13-Feb-15 17:00:00		0.00	0.00	0.00	6.08	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	13-Feb-15 16:00:00		**10.35**	**18.92**	**83.84**	**88.69**
13-Feb-15 17:00:00	13-Feb-15 18:00:00		0.00	0.00	0.00	52.60	2.1	329.7		0.00	0.00	0.00	17.34		10.35	18.92	83.84	86.68	13-Feb-15 17:00:00		**10.35**	**18.92**	**83.84**	**104.02**
13-Feb-15 18:00:00	13-Feb-15 19:00:00		0.00	0.00	0.00	6.15	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	13-Feb-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.71**
13-Feb-15 19:00:00	13-Feb-15 20:00:00		0.00	0.00	0.00	6.45	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	13-Feb-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.81**
13-Feb-15 20:00:00	13-Feb-15 21:00:00		0.00	0.00	72.18	6.75	2.1	329.7		0.00	0.00	23.80	2.23		10.35	18.92	83.84	86.68	13-Feb-15 20:00:00		**10.35**	**18.92**	**107.64**	**88.91**
13-Feb-15 21:00:00	13-Feb-15 22:00:00		0.00	0.00	179.58	6.96	2.1	329.7		0.00	0.00	59.21	2.30		10.35	18.92	83.84	86.68	13-Feb-15 21:00:00		**10.35**	**18.92**	**143.05**	**88.98**
13-Feb-15 22:00:00	13-Feb-15 23:00:00		0.00	0.00	0.00	7.04	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	13-Feb-15 22:00:00		**10.35**	**18.92**	**83.84**	**89.00**
13-Feb-15 23:00:00	14-Feb-15 00:00:00		0.00	0.00	0.00	7.14	2.1	329.7		0.00	0.00	0.00	2.36		10.35	18.92	83.84	86.68	13-Feb-15 23:00:00		**10.35**	**18.92**	**83.84**	**89.04**
14-Feb-15 00:00:00	14-Feb-15 01:00:00		0.00	0.00	0.00	7.25	2.1	329.7		0.00	0.00	0.00	2.39		10.35	18.92	83.84	86.68	14-Feb-15 00:00:00		**10.35**	**18.92**	**83.84**	**89.07**
14-Feb-15 01:00:00	14-Feb-15 02:00:00		0.00	0.00	0.00	7.27	2.1	329.7		0.00	0.00	0.00	2.40		10.35	18.92	83.84	86.68	14-Feb-15 01:00:00		**10.35**	**18.92**	**83.84**	**89.08**
14-Feb-15 02:00:00	14-Feb-15 03:00:00		0.30	0.00	0.00	14.22	2.1	329.7		0.10	0.00	0.00	4.69		10.35	18.92	83.84	86.68	14-Feb-15 02:00:00		**10.45**	**18.92**	**83.84**	**91.37**
14-Feb-15 03:00:00	14-Feb-15 04:00:00		1.21	0.00	0.00	27.99	2.1	329.7		0.40	0.00	0.00	9.23		10.35	18.92	83.84	86.68	14-Feb-15 03:00:00		**10.75**	**18.92**	**83.84**	**95.91**
14-Feb-15 04:00:00	14-Feb-15 05:00:00		0.47	0.00	0.00	6.75	2.1	329.7		0.16	0.00	0.00	2.22		10.35	18.92	83.84	86.68	14-Feb-15 04:00:00		**10.51**	**18.92**	**83.84**	**88.90**
14-Feb-15 05:00:00	14-Feb-15 06:00:00		0.09	0.00	0.00	6.70	2.1	329.7		0.03	0.00	0.00	2.21		10.35	18.92	83.84	86.68	14-Feb-15 05:00:00		**10.38**	**18.92**	**83.84**	**88.89**
14-Feb-15 06:00:00	14-Feb-15 07:00:00		0.06	0.00	0.00	6.66	2.1	329.7		0.02	0.00	0.00	2.19		10.35	18.92	83.84	86.68	14-Feb-15 06:00:00		**10.37**	**18.92**	**83.84**	**88.87**
14-Feb-15 07:00:00	14-Feb-15 08:00:00		0.02	0.00	0.00	6.41	2.1	329.7		0.01	0.00	0.00	2.11		10.35	18.92	83.84	86.68	14-Feb-15 07:00:00		**10.36**	**18.92**	**83.84**	**88.79**
14-Feb-15 08:00:00	14-Feb-15 09:00:00		0.00	0.00	0.00	6.30	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	14-Feb-15 08:00:00		**10.35**	**18.92**	**83.84**	**88.76**
14-Feb-15 09:00:00	14-Feb-15 10:00:00		0.00	0.00	0.00	6.20	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	14-Feb-15 09:00:00		**10.35**	**18.92**	**83.84**	**88.73**
14-Feb-15 10:00:00	14-Feb-15 11:00:00		0.00	0.00	0.00	6.10

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
16-Feb-15 08:00:00	16-Feb-15 09:00:00		0.00	0.00	0.00	7.54	2.1	329.7		0.00	0.00	0.00	2.49		10.35	18.92	83.84	86.68	16-Feb-15 08:00:00		**10.35**	**18.92**	**83.84**	**89.17**
16-Feb-15 09:00:00	16-Feb-15 10:00:00		0.00	0.00	0.00	7.47	2.1	329.7		0.00	0.00	0.00	2.46		10.35	18.92	83.84	86.68	16-Feb-15 09:00:00		**10.35**	**18.92**	**83.84**	**89.14**
16-Feb-15 10:00:00	16-Feb-15 11:00:00		0.00	0.00	142.63	7.45	2.1	329.7		0.00	0.00	47.02	2.46		10.35	18.92	83.84	86.68	16-Feb-15 10:00:00		**10.35**	**18.92**	**130.86**	**89.14**
16-Feb-15 11:00:00	16-Feb-15 12:00:00		0.00	0.00	58.82	7.26	2.1	329.7		0.00	0.00	19.39	2.40		10.35	18.92	83.84	86.68	16-Feb-15 11:00:00		**10.35**	**18.92**	**103.23**	**89.08**
16-Feb-15 12:00:00	16-Feb-15 13:00:00		0.00	0.00	0.00	7.08	2.1	329.7		0.00	0.00	0.00	2.34		10.35	18.92	83.84	86.68	16-Feb-15 12:00:00		**10.35**	**18.92**	**83.84**	**89.02**
16-Feb-15 13:00:00	16-Feb-15 14:00:00		0.00	0.00	0.00	6.90	2.1	329.7		0.00	0.00	0.00	2.28		10.35	18.92	83.84	86.68	16-Feb-15 13:00:00		**10.35**	**18.92**	**83.84**	**88.96**
16-Feb-15 14:00:00	16-Feb-15 15:00:00		0.00	0.00	0.00	6.79	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	16-Feb-15 14:00:00		**10.35**	**18.92**	**83.84**	**88.92**
16-Feb-15 15:00:00	16-Feb-15 16:00:00		0.00	0.00	0.00	6.77	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	16-Feb-15 15:00:00		**10.35**	**18.92**	**83.84**	**88.91**
16-Feb-15 16:00:00	16-Feb-15 17:00:00		0.00	514.18	0.00	6.76	2.1	329.7		0.00	169.53	0.00	2.23		10.35	18.92	83.84	86.68	16-Feb-15 16:00:00		**10.35**	**188.45**	**83.84**	**88.91**
16-Feb-15 17:00:00	16-Feb-15 18:00:00		0.00	1,278.87	0.00	6.74	2.1	329.7		0.00	421.64	0.00	2.22		10.35	18.92	83.84	86.68	16-Feb-15 17:00:00		**10.35**	**440.56**	**83.84**	**88.90**
16-Feb-15 18:00:00	16-Feb-15 19:00:00		0.00	1,296.01	0.00	6.79	2.1	329.7		0.00	427.29	0.00	2.24		10.35	18.92	83.84	86.68	16-Feb-15 18:00:00		**10.35**	**446.21**	**83.84**	**88.92**
16-Feb-15 19:00:00	16-Feb-15 20:00:00		0.00	1,295.21	0.00	6.92	2.1	329.7		0.00	427.03	0.00	2.28		10.35	18.92	83.84	86.68	16-Feb-15 19:00:00		**10.35**	**445.95**	**83.84**	**88.96**
16-Feb-15 20:00:00	16-Feb-15 21:00:00		0.00	1,290.56	0.00	7.05	2.1	329.7		0.00	425.50	0.00	2.32		10.35	18.92	83.84	86.68	16-Feb-15 20:00:00		**10.35**	**444.42**	**83.84**	**89.00**
16-Feb-15 21:00:00	16-Feb-15 22:00:00		0.00	1,289.05	0.00	7.18	2.1	329.7		0.00	425.00	0.00	2.37		10.35	18.92	83.84	86.68	16-Feb-15 21:00:00		**10.35**	**443.92**	**83.84**	**89.05**
16-Feb-15 22:00:00	16-Feb-15 23:00:00		1.05	1,288.71	0.00	7.15	2.1	329.7		0.34	424.89	0.00	2.36		10.35	18.92	83.84	86.68	16-Feb-15 22:00:00		**10.69**	**443.81**	**83.84**	**89.04**
16-Feb-15 23:00:00	17-Feb-15 00:00:00		0.00	1,288.12	0.00	7.09	2.1	329.7		0.00	424.69	0.00	2.34		10.35	18.92	83.84	86.68	16-Feb-15 23:00:00		**10.35**	**443.61**	**83.84**	**89.02**
17-Feb-15 00:00:00	17-Feb-15 01:00:00		0.00	1,289.15	0.00	7.03	2.1	329.7		0.00	425.03	0.00	2.32		10.35	18.92	83.84	86.68	17-Feb-15 00:00:00		**10.35**	**443.95**	**83.84**	**89.00**
17-Feb-15 01:00:00	17-Feb-15 02:00:00		0.00	1,290.14	0.00	6.96	2.1	329.7		0.00	425.36	0.00	2.30		10.35	18.92	83.84	86.68	17-Feb-15 01:00:00		**10.35**	**444.28**	**83.84**	**88.98**
17-Feb-15 02:00:00	17-Feb-15 03:00:00		0.00	1,291.12	0.00	6.96	2.1	329.7		0.00	425.68	0.00	2.29		10.35	18.92	83.84	86.68	17-Feb-15 02:00:00		**10.35**	**444.60**	**83.84**	**88.97**
17-Feb-15 03:00:00	17-Feb-15 04:00:00		0.00	1,293.55	0.00	107.84	2.1	329.7		0.00	426.48	0.00	35.56		10.35	18.92	83.84	86.68	17-Feb-15 03:00:00		**10.35**	**445.40**	**83.84**	**122.24**
17-Feb-15 04:00:00	17-Feb-15 05:00:00		0.00	1,290.52	0.00	184.16	2.1	329.7		0.00	425.49	0.00	60.72		10.35	18.92	83.84	86.68	17-Feb-15 04:00:00		**10.35**	**444.41**	**83.84**	**147.40**
17-Feb-15 05:00:00	17-Feb-15 06:00:00		0.00	1,290.72	0.00	195.92	2.1	329.7		0.00	425.55	0.00	64.59		10.35	18.92	83.84	86.68	17-Feb-15 05:00:00		**10.35**	**444.47**	**83.84**	**151.27**
17-Feb-15 06:00:00	17-Feb-15 07:00:00		0.00	1,293.63	0.00	178.51	2.1	329.7		0.00	426.51	0.00	58.85		10.35	18.92	83.84	86.68	17-Feb-15 06:00:00		**10.35**	**445.43**	**83.84**	**145.53**
17-Feb-15 07:00:00	17-Feb-15 08:00:00		0.00	1,293.85	0.00	184.96	2.1	329.7		0.00	426.58	0.00	60.98		10.35	18.92	83.84	86.68	17-Feb-15 07:00:00		**10.35**	**445.50**	**83.84**	**147.66**
17-Feb-15 08:00:00	17-Feb-15 09:00:00		0.00	1,287.27	0.00	74.31	2.1	329.7		0.00	424.41	0.00	24.50		10.35	18.92	83.84	86.68	17-Feb-15 08:00:00		**10.35**	**443.33**	**83.84**	**111.18**
17-Feb-15 09:00:00	17-Feb-15 10:00:00		0.00	1,295.44	0.00	53.64	2.1	329.7		0.00	427.10	0.00	17.68		10.35	18.92	83.84	86.68	17-Feb-15 09:00:00		**10.35**	**446.02**	**83.84**	**104.36**
17-Feb-15 10:00:00	17-Feb-15 11:00:00		0.00	1,295.88	0.00	268.89	2.1	329.7		0.00	427.25	0.00	88.65		10.35	18.92	83.84	86.68	17-Feb-15 10:00:00		**10.35**	**446.17**	**83.84**	**175.33**
17-Feb-15 11:00:00	17-Feb-15 12:00:00		0.00	1,299.84	0.00	58.26	2.1	329.7		0.00	428.56	0.00	19.21		10.35	18.92	83.84	86.68	17-Feb-15 11:00:00		**10.35**	**447.48**	**83.84**	**105.89**
17-Feb-15 12:00:00	17-Feb-15 13:00:00		0.00	1,324.90	0.00	6.09	2.1	329.7		0.00	436.82	0.00	2.01		10.35	18.92	83.84	86.68	17-Feb-15 12:00:00		**10.35**	**455.74**	**83.84**	**88.69**
17-Feb-15 13:00:00	17-Feb-15 14:00:00		0.00	1,289.35	42.34	58.95	2.1	329.7		0.00	425.10	13.96	19.44		10.35	18.92	83.84	86.68	17-Feb-15 13:00:00		**10.35**	**444.02**	**97.80**	**106.12**
17-Feb-15 14:00:00	17-Feb-15 15:00:00		0.00	1,274.94	215.87	392.52	2.1	329.7		0.00	420.35	71.17	129.41		10.35	18.92	83.84	86.68	17-Feb-15 14:00:00		**10.35**	**439.27**	**155.01**	**216.09**
17-Feb-15 15:00:00	17-Feb-15 16:00:00		0.00	1,305.74	88.63	177.99	2.1	329.7		0.00	430.50	29.22	58.68		10.35	18.92	83.84	86.68	17-Feb-15 15:00:00		**10.35**	**449.42**	**113.06**	**145.36**
17-Feb-15 16:00:00	17-Feb-15 17:00:00		0.00	1,306.55	0.00	184.74	2.1	329.7		0.00	430.77	0.00	60.91		10.35	18.92	83.84	86.68	17-Feb-15 16:00:00		**10.35**	**449.69**	**83.84**	**147.59**
17-Feb-15 17:00:00	17-Feb-15 18:00:00		0.00	1,308.03	0.00	210.74	2.1	329.7		0.00	431.26	0.00	69.48		10.35	18.92	83.84	86.68	17-Feb-15 17:00:00		**10.35**	**450.18**	**83.84**	**156.16**
17-Feb-15 18:00:00	17-Feb-15 19:00:00		0.00	1,314.50	87.52	264.29	2.1	329.7		0.00	433.39	28.85	87.14		10.35	18.92	83.84	86.68	17-Feb-15 18:00:00		**10.35**	**452.31**	**112.69**	**173.82**
17-Feb-15 19:00:00	17-Feb-15 20:00:00		187.76	1,317.03	225.50	225.52	2.1	329.7		61.90	434.23	74.35	74.35		10.35	18.92	83.84	86.68	17-Feb-15 19:00:00		**72.25**	**453.15**	**158.19**	**161.03**
17-Feb-15 20:00:00	17-Feb-15 21:00:00		269.57	1,320.17	157.83	167.31	2.1	329.7		88.88	435.26	52.04	55.16		10.35	18.92	83.84	86.68	17-Feb-15 20:00:00		**99.23**	**454.18**	**135.88**	**141.84**
17-Feb-15 21:00:00	17-Feb-15 22:00:00		475.73	1,210.34	117.94	164.81	2.1	329.7		156.85	399.05	38.88	54.34		10.35	18.92	83.84	86.68	17-Feb-15 21:00:00		**167.20**	**417.97**	**122.72**	**141.02**
17-Feb-15 22:00:00	17-Feb-15 23:00:00		379.43	1,205.38	125.55	167.03	2.1	329.7		125.10	397.42	41.39	55.07		10.35	18.92	83.84	86.68	17-Feb-15 22:00:00		**135.45**	**416.34**	**125.23**	**141.75**
17-Feb-15 23:00:00	18-Feb-15 00:00:00		611.79	1,246.41	109.35	165.09	2.1	329.7		201.71	410.94	36.05	54.43		10.35	18.92	83.84	86.68	17-Feb-15 23:00:00		**212.06**	**429.86**	**119.89**	**141.11**
18-Feb-15 00:00:00	18-Feb-15 01:00:00		1,003.97	1,261.19	107.83	199.72	2.1	329.7		331.01	415.82	35.55	65.85		10.35	18.92	83.84	86.68	18-Feb-15 00:00:00		**341.36**	**434.74**	**119.39**	**152.53**
18-Feb-15 01:00:00	18-Feb-15 02:00:00		1,009.27	1,312.68	101.38	335.47	2.1	329.7		332.76	432.79	33.42	110.60		10.35	18.92	83.84	86.68	18-Feb-15 01:00:00		**343.11**	**451.71**	**117.26**	**197.28**
18-Feb-15 02:00:00	18-Feb-15 03:00:00		1,010.31	1,316.20	137.75	334.90	2.1	329.7		333.10	433.95	45.42	110.42		10.35	18.92	83.84	86.68	18-Feb-15 02:00:00		**343.45**	**452.87**	**129.26**	**197.10**
18-Feb-15 03:00:00	18-Feb-15 04:00:00		1,011.25	1,316.26	157.84	333.20	2.1	329.7		333.41	433.97	52.04	109.86		10.35	18.92	83.84	86.68	18-Feb-15 03:00:00		**343.76**	**452.89**	**135.88**	**196.54**
18-Feb-15 04:00:00	18-Feb-15 05:00:00		1,011.57	1,315.39	132.12	331.90	2.1	329.7		333.51	433.68	43.56	109.43		10.35	18.92	83.84	86.68	18-Feb-15 04:00:00		**343.86**	**452.60**	**127.40**	**196.11**
18-Feb-15 05:00:00	18-Feb-15 06:00:00		1,006.35	1,315.80	126.96	321.97	2.1	329.7		331.79	433.82	41.86	106.15		10.35	18.92	83.84	86.68	18-Feb-15 05:00:00		**342.14**	**452.74**	**125.70**	**192.83**
18-Feb-15 06:00:00	18-Feb-15 07:00:00		953.36	1,317.13	151.69	254.28	2.1	329.7		314.32	434.26	50.01	83.84		10.35	18.92	83.84	86.68	18-Feb-15 06:00:00		**324.67**	**453.18**	**133.85**	**170.52**
18-Feb-15 07:00:00	18-Feb-15 08:00:00		954.47	1,314.26	116.67	170.98	2.1	329.7		314.69	433.31	38.47	56.37		10.35	18.92	83.84	86.68	18-Feb-15 07:00:00		**325.04**	**452.23**	**122.31**	**143.05**
18-Feb-15 08:00:00	18-Feb-15 09:00:00		941.92	1,296.35	172.96	176.39	2.1	329.7		310.55	427.41	57.02	58.15		10.35	18.92	83.84	86.68	18-Feb-15 08:00:00		**320.90**	**446.33**	**140.86**	**144.83**
18-Feb-15 09:00:00	18-Feb-15 10:00:00		1,002.07	1,239.77	358.63	277.68	2.1	329.7		330.38	408.75	118.24	91.55		10.35	18.92	83.84	86.68	18-Feb-15 09:00:00		**340.73**	**427.67**	**202.08**	**178.23**
18-Feb-15 10:00:00	18-Feb-15 11:00:00		1,036.18	1,259.49	563.27	416.95	2.1	329.7		341.63	415.25	185.71	137.47		10.35	18.92	83.84	86.68	18-Feb-15 10:00:00		**351.98**	**434.17**	**269.55**	**224.15**
18-Feb-15 11:00:00	18-Feb-15 12:00:00		437.29	1,164.40	563.52	501.78	2.1	329.7		144.17	383.90	185.79	165.44		10.35	18.92	83.84	86.68	18-Feb-15 11:00:00		**154.52**	**402.82**	**269.63**	**252.12**
18-Feb-15 12:00:00	18-Feb-15 13:00:00		0.01	721.62	485.18	328.36	2.1	329.7		0.00	237.92	159.96	108.26		10.35	18.92	83.84	86.68	18-Feb-15 12:00:00		**10.35**	**256.84**	**243.80**	**194.94**
18-Feb-15 13:00:00	18-Feb-15 14:00:00		0.00	434.22	463.96	245.97	2.1	329.7		0.00	143.16	152.97	81.10		10.35	18.92	83.84	86.68	18-Feb-15 13:00:00		**10.35**	**162.08**	**236.81**	**167.78**
18-Feb-15 14:00:00	18-Feb-15 15:00:00		0.00	1,189.33	6.01	295.24	2.1	329.7		0.00	392.12	1.98	97.34		10.35	18.92	83.84	86.68	18-Feb-15 14:00:00		**10.35**	**411.04**	**85.82**	**184.02**
18-Feb-15 15:00:00	18-Feb-15 16:00:00		0.23	2,363.36	0.00	275.67	2.1	329.7		0.08	779.20	0.00	90.89		10.35	18.92	83.84	86.68	18-Feb-15 15:00:00		**10.43**	**798.12**	**83.84**	**177.57**
18-Feb-15 16:00:00	18-Feb-15 17:00:00		0.00	2,363.65	0.00	269.09	2.1	329.7		0.00	779.30	0.00	88.72		10.35	18.92	83.84	86.68	18-Feb-15 16:00:00		**10.35**	**798.22**	**83.84**	**175.40**
18-Feb-15 17:00:00	18-Feb-15 18:00:00		0.00	2,363.09	0.00	234.99	2.1	329.7		0.00	779.11	0.00	77.48		10.35	18.92	83.84	86.68	18-Feb-15 17:00:00		**10.35**	**798.03**	**83.84**	**164.16**
18-Feb-15 18:00:00	18-Feb-15 19:00:00		0.00	2,363.00	0.00	242.78	2.1	329.7		0.00	779.08	0.00	80.05		10.35	18.92	83.84	86.68	18-Feb-15 18:00:00		**10.35**	**798.00**	**83.84**	**166.73**
18-Feb-15 19:00:00	18-Feb-15 20:00:00		374.71	2,363.93	0.00	237.90	2.1	329.7		123.54	779.39	0.00	78.44		10.35	18.92	83.84	86.68	18-Feb-15 19:00:00		**133.89**	**798.31**	**83.84**	**165.12**
18-Feb-15 20:00:00	18-Feb-15 21:00:00		677.54	2,364.71	0.00	235.96	2.1	329.7		223.38	779.65	0.00	77.80		10.35	18.92	83.84	86.68	18-Feb-15 20:00:00		**233.73**	**798.57**	**83.84**	**164.48**
18-Feb-15 21:00:00	18-Feb-15 22:00:00		726.25	2,363.30	0.00	351.01	2.1	329.7		239.44	779.18	0.00	115.73		10.35	18.92	83.84	86.68	18-Feb-15 21:00:00		**249.79**	**798.10**	**83.84**	**202.41**
18-Feb-15 22:00:00	18-Feb-15 23:00:00		317.46	2,365.64	0.00	317.48	2.1	329.7		104.67	779.95	0.00	104.67		10.35	18.92	83.84	86.68	18-Feb-15 22:00:00		**115.02**	**798.87**	**83.84**	**191.35**
18-Feb-15 23:00:00	19-Feb-15 00:00:00		32.42	2,367.43	0.00	199.69	2.1	329.7		10.69	780.54	0.00	65.84		10.35	18.92	83.84	86.68	18-Feb-15 23:00:00		**21.04**	**799.46**	**83.84**	**152.52**
19-Feb-15 00:00:00	19-Feb-15 01:00:00		137.79	2,367.72	0.00	848.15	2.1	329.7		45.43	780.64	0.00	279.64		10.35	18.92	83.84	86.68	19-Feb-15 00:00:00		**55.78**	**799.56**	**83.84**	**366.32**
19-Feb-15 01:00:00	19-Feb-15 02:00:00		363.59	2,367.32	0.00	880.95	2.1	329.7		119.88	780.50	0.00	290.45		10.35	18.92	83.84	86.68	19-Feb-15 01:00:00		**130.23**	**799.42**	**83.84**	**377.13**
19-Feb-15 02:00:00	19-Feb-15 03:00:00		1.23	548.11	20.35	828.37	2.1	329.7		0.41	180.71	6.71	273.11		10.35	18.92	83.84	86.68	19-Feb-15 02:00:00		**10.76**	**199.63**	**90.55**	**359.79**
19-Feb-15 03:00:00	19-Feb-15 04:00:00		7.62	0.00	210.37	602.13	2.1	329.7		2.51	0.00	69.36	198.52		10.35	18.92	83.84	86.68	19-Feb-15 03:00:00		**12.86**	**18.92**	**153.20**	**285.20**
19-Feb-15 04:00:00	19-Feb-15 05:00:00		13.35	0.00	211.05	486.29	2.1	329.7		4.40	0.00	69.58	160.33		10.35	18.92	83.84	86.68	19-Feb-15 04:00:00		**14.75**	**18.92**	**153.42**	**247.01**
19-Feb-15 05:00:00	19-Feb-15 06:00:00		2.27	0.00	116.99	396.47	2.1	329.7		0.75	0.00	38.57	130.72		10.35	18.92	83.84	86.68	19-Feb-15 05:00:00		**11.10**	**18.92**	**122.41**	**217.40**
19-Feb-15 06:00:00	19-Feb-15 07:00:00		2.50	0.00	67.13	487.57	2.1	329.7		0.82	0.00	22.13	160.75		10.35	18.92	83.84	86.68	19-Feb-15 06:00:00		**11.17**	**18.92**	**105.97**	**247.43**
19-Feb-15 07:00:00	19-Feb-15 08:00:00		1.01	0.00	0.00	1,060.33	2.1	329.7		0.33	0.00	0.00	349.59		10.35	18.92	83.84	86.68	19-Feb-15 07:00:00		**10.68**	**18.92**	**83.84**	**436.27**
19-Feb-15 08:00:00	19-Feb-15 09:00:00		0.08	0.00	0.00	1,181.40	2.1	329.7		0.03	0.00	0.00	389.51		10.35	18.92	83.84	86.68	19-Feb-15 08:00:00		**10.38**	**18.92**	**83.84**	**476.19**
19-Feb-15 09:00:00	19-Feb-15 10:00:00		0.06	0.00	0.00	1,179.38	2.1	329.7		0.02	0.00	0.00	388.84		10.35	18.92	83.84	86.68	19-Feb-15 09:00:00		**10.37**	**18.92**	**83.84**	**475.52**
19-Feb-15 10:00:00	19-Feb-15 11:00:00		0.03	0.00	307.42	1,010.97	2.1	329.7		0.01	0.00	101.36	333.32		10.35	18.92	83.84	86.68	19-Feb-15 10:00:00		**10.36**	**18.92**	**185.20**	**420.00**
19-Feb-15 11:00:00	19-Feb-15 12:00:00		0.04	142.35	434.66	1,090.66	2.1	329.7		0.01	46.93	143.31	359.59		10.35	18.92	83.84	86.68	19-Feb-15 11:00:00		**10.36**	**65.85**	**227.15**	**446.27**
19-Feb-15 12:00:00	19-Feb-15 13:00:00		0.50	389.90	155.29	825.22	2.1	329.7		0.16	128.55	51.20	272.07		10.35	18.92	83.84	86.68	19-Feb-15 12:00:00		**10.51**	**147.47**	**135.04**	**358.75**
19-Feb-15 13:00:00	19-Feb-15 14:00:00		1.07	386.38	95.92	734.01	2.1	329.7		0.35	127.39	31.63	242.00		10.35	18.92	83.84	86.68	19-Feb-15 13:00:00		**10.70**	**146.31**	**115.47**	**328.68**
19-Feb-15 14:00:00	19-Feb-15 15:00:00		1.56	388.88	83.62	666.64	2.1	329.7		0.52	128.21	27.57	219.79		10.35	18.92	83.84	86.68	19-Feb-15 14:00:00		**10.87**	**147.13**	**111.41**	**306.47**
19-Feb-15 15:00:00	19-Feb-15 16:00:00		1.95	176.54	140.50	719.28	2.1	329.7		0.64	58.20	46.32	237.15		10.35	18.92	83.84	86.68	19-Feb-15 15:00:00		**10.99**	**77.12**	**130.16**	**323.83**
19-Feb-15 16:00:00	19-Feb-15 17:00:00		1.05	0.00	305.53	728.89	2.1	329.7		0.35	0.00	100.73	240.32		10.35	18.92	83.84	86.68	19-Feb-15 16:00:00		**10.70**	**18.92**	**184.57**	**327.00**
19-Feb-15 17:00:00	19-Feb-15 18:00:00		0.79	0.00	294.50	653.89	2.1	329.7		0.26	0.00	97.10	215.59		10.35	18.92	83.84	86.68	19-Feb-15 17:00:00		**10.61**	**18.92**	**180.94**	**302.27**
19-Feb-15 18:00:00	19-Feb-15 19:00:00		0.00	0.00	266.15	689.61	2.1	329.7		0.00	0.00	87.75	227.36		10.35	18.92	83.84	86.68	19-Feb-15 18:00:00		**10.35**	**18.92**	**171.59**	**314.04**
19-Feb-15 19:00:00	19-Feb-15 20:00:00		0.00	291.60	394.69	1,118.23	2.1	329.7		0.00	96.14	130.13	368.68		10.35	18.92	83.84	86.68	19-Feb-15 19:00:00		**10.35**	**115.06**	**213.97**	**455.36**
19-Feb-15 20:00:00	19-Feb-15 21:00:00		0.00	2,294.34	472.97	1,765.46	2.1	329.7		0.00	756.44	155.94	582.07		10.35	18.92	83.84	86.68	19-Feb-15 20:00:00		**10.35**	**775.36**	**239.78**	**668.75**
19-Feb-15 21:00:00	19-Feb-15 22:00:00		0.16	2,367.02	478.14	1,778.82	2.1	329.7		0.05	780.41	157.64	586.48		10.35	18.92	83.84	86.68	19-Feb-15 21:00:00		**10.40**	**799.33**	**241.48**	**673.16**
19-Feb-15 22:00:00	19-Feb-15 23:00:00		0.59	1,256.12	442.86	1,688.77	2.1	329.7		0.19	414.14	146.01	556.79		10.35	18.92	83.84	86.68	19-Feb-15 22:00:00		**10.54**	**433.06**	**229.85**	**643.47**
19-Feb-15 23:00:00	20-Feb-15 00:00:00		2.86	0.00	218.32	1,071.10	2.1	329.7		0.94	0.00	71.98	353.14		10.35	18.92	83.84	86.68	19-Feb-15 23:00:00		**11.29**	**18.92**	**155.82**	**439.82**
20-Feb-15 00:00:00	20-Feb-15 01:00:00		4.63	531.24	525.91	1,454.93	2.1	329.7		1.53	175.15	173.39	479.69		10.35	18.92	83.84	86.68	20-Feb-15 00:00:00		**11.88**	**194.07**	**257.23**	**566.37**
20-Feb-15 01:00:00	20-Feb-15 02:00:00		0.61	68.57	459.42	1,103.06	2.1	329.7		0.20	22.61	151.47	363.68		10.35	18.92	83.84	86.68	20-Feb-15 01:00:00		**10.55**	**41.53**	**235.31**	**450.36**
20-Feb-15 02:00:00	20-Feb-15 03:00:00		0.68	339.93	333.56	37.27	2.1	329.7		0.23	112.08	109.97	12.29		10.35	18.92	83.84	86.68	20-Feb-15 02:00:00		**10.58**	**131.00**	**193.81**	**98.97**
20-Feb-15 03:00:00	20-Feb-15 04:00:00		0.97	711.97	320.65	871.26	2.1	329.7		0.32	234.74	105.72	287.26		10.35	18.92	83.84	86.68	20-Feb-15 03:00:00		**10.67**	**253.66**	**189.56**	**373.94**
20-Feb-15 04:00:00	20-Feb-15 05:00:00		4.51	0.00	403.60	1,663.36

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
22-Feb-15 03:00:00	22-Feb-15 04:00:00		0.43	0.00	0.00	5.79	2.1	329.7		0.14	0.00	0.00	1.91		10.35	18.92	83.84	86.68	22-Feb-15 03:00:00		10.49	18.92	83.84	88.59
22-Feb-15 04:00:00	22-Feb-15 05:00:00		0.09	0.00	0.00	5.79	2.1	329.7		0.03	0.00	0.00	1.91		10.35	18.92	83.84	86.68	22-Feb-15 04:00:00		10.38	18.92	83.84	88.59
22-Feb-15 05:00:00	22-Feb-15 06:00:00		0.00	0.00	0.00	5.83	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	22-Feb-15 05:00:00		10.35	18.92	83.84	88.60
22-Feb-15 06:00:00	22-Feb-15 07:00:00		0.00	0.00	0.00	5.72	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	22-Feb-15 06:00:00		10.35	18.92	83.84	88.57
22-Feb-15 07:00:00	22-Feb-15 08:00:00		0.00	0.00	0.00	5.46	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	22-Feb-15 07:00:00		10.35	18.92	83.84	88.48
22-Feb-15 08:00:00	22-Feb-15 09:00:00		0.21	0.00	0.00	5.20	2.1	329.7		0.07	0.00	0.00	1.71		10.35	18.92	83.84	86.68	22-Feb-15 08:00:00		10.42	18.92	83.84	88.39
22-Feb-15 09:00:00	22-Feb-15 10:00:00		0.92	0.00	0.00	5.00	2.1	329.7		0.30	0.00	0.00	1.65		10.35	18.92	83.84	86.68	22-Feb-15 09:00:00		10.65	18.92	83.84	88.33
22-Feb-15 10:00:00	22-Feb-15 11:00:00		2.06	0.00	0.00	4.91	2.1	329.7		0.68	0.00	0.00	1.62		10.35	18.92	83.84	86.68	22-Feb-15 10:00:00		11.03	18.92	83.84	88.30
22-Feb-15 11:00:00	22-Feb-15 12:00:00		0.49	0.00	0.00	4.72	2.1	329.7		0.16	0.00	0.00	1.56		10.35	18.92	83.84	86.68	22-Feb-15 11:00:00		10.51	18.92	83.84	88.24
22-Feb-15 12:00:00	22-Feb-15 13:00:00		1.56	0.00	0.00	4.53	2.1	329.7		0.51	0.00	0.00	1.49		10.35	18.92	83.84	86.68	22-Feb-15 12:00:00		10.86	18.92	83.84	88.17
22-Feb-15 13:00:00	22-Feb-15 14:00:00		0.00	0.00	6.94	4.29	2.1	329.7		0.00	0.00	2.29	1.42		10.35	18.92	83.84	86.68	22-Feb-15 13:00:00		10.35	18.92	86.13	88.10
22-Feb-15 14:00:00	22-Feb-15 15:00:00		0.00	0.00	60.42	4.15	2.1	329.7		0.00	0.00	19.92	1.37		10.35	18.92	83.84	86.68	22-Feb-15 14:00:00		10.35	18.92	103.76	88.05
22-Feb-15 15:00:00	22-Feb-15 16:00:00		0.00	0.00	17.71	4.17	2.1	329.7		0.00	0.00	5.84	1.37		10.35	18.92	83.84	86.68	22-Feb-15 15:00:00		10.35	18.92	89.68	88.05
22-Feb-15 16:00:00	22-Feb-15 17:00:00		0.00	0.00	0.00	4.18	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	22-Feb-15 16:00:00		10.35	18.92	83.84	88.06
22-Feb-15 17:00:00	22-Feb-15 18:00:00		0.00	0.00	0.00	4.19	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	22-Feb-15 17:00:00		10.35	18.92	83.84	88.06
22-Feb-15 18:00:00	22-Feb-15 19:00:00		0.00	0.00	0.00	56.06	2.1	329.7		0.00	0.00	0.00	18.48		10.35	18.92	83.84	86.68	22-Feb-15 18:00:00		10.35	18.92	83.84	105.16
22-Feb-15 19:00:00	22-Feb-15 20:00:00		0.00	0.00	0.00	207.84	2.1	329.7		0.00	0.00	0.00	68.53		10.35	18.92	83.84	86.68	22-Feb-15 19:00:00		10.35	18.92	83.84	155.21
22-Feb-15 20:00:00	22-Feb-15 21:00:00		0.00	0.00	0.00	4.67	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	22-Feb-15 20:00:00		10.35	18.92	83.84	88.22
22-Feb-15 21:00:00	22-Feb-15 22:00:00		3.83	0.00	0.00	4.77	2.1	329.7		1.26	0.00	0.00	1.57		10.35	18.92	83.84	86.68	22-Feb-15 21:00:00		11.61	18.92	83.84	88.25
22-Feb-15 22:00:00	22-Feb-15 23:00:00		0.00	0.00	0.00	4.88	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	22-Feb-15 22:00:00		10.35	18.92	83.84	88.29
22-Feb-15 23:00:00	23-Feb-15 00:00:00		0.00	0.00	0.00	4.94	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	22-Feb-15 23:00:00		10.35	18.92	83.84	88.31
23-Feb-15 00:00:00	23-Feb-15 01:00:00		0.00	0.00	0.00	102.39	2.1	329.7		0.00	0.00	0.00	33.76		10.35	18.92	83.84	86.68	23-Feb-15 00:00:00		10.35	18.92	83.84	120.44
23-Feb-15 01:00:00	23-Feb-15 02:00:00		0.00	0.00	0.00	55.83	2.1	329.7		0.00	0.00	0.00	18.41		10.35	18.92	83.84	86.68	23-Feb-15 01:00:00		10.35	18.92	83.84	105.09
23-Feb-15 02:00:00	23-Feb-15 03:00:00		0.00	0.00	0.00	5.19	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	23-Feb-15 02:00:00		10.35	18.92	83.84	88.39
23-Feb-15 03:00:00	23-Feb-15 04:00:00		0.00	0.00	0.00	5.26	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	23-Feb-15 03:00:00		10.35	18.92	83.84	88.41
23-Feb-15 04:00:00	23-Feb-15 05:00:00		0.00	0.00	0.00	5.33	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	23-Feb-15 04:00:00		10.35	18.92	83.84	88.44
23-Feb-15 05:00:00	23-Feb-15 06:00:00		0.00	0.00	0.00	5.33	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	23-Feb-15 05:00:00		10.35	18.92	83.84	88.44
23-Feb-15 06:00:00	23-Feb-15 07:00:00		0.00	0.00	0.00	5.47	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	23-Feb-15 06:00:00		10.35	18.92	83.84	88.48
23-Feb-15 07:00:00	23-Feb-15 08:00:00		1.95	0.00	0.00	5.64	2.1	329.7		0.64	0.00	0.00	1.86		10.35	18.92	83.84	86.68	23-Feb-15 07:00:00		10.99	18.92	83.84	88.54
23-Feb-15 08:00:00	23-Feb-15 09:00:00		0.00	0.00	0.00	5.81	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	23-Feb-15 08:00:00		10.35	18.92	83.84	88.60
23-Feb-15 09:00:00	23-Feb-15 10:00:00		0.23	0.00	0.00	5.95	2.1	329.7		0.08	0.00	0.00	1.96		10.35	18.92	83.84	86.68	23-Feb-15 09:00:00		10.43	18.92	83.84	88.64
23-Feb-15 10:00:00	23-Feb-15 11:00:00		0.00	0.00	0.00	5.89	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	23-Feb-15 10:00:00		10.35	18.92	83.84	88.62
23-Feb-15 11:00:00	23-Feb-15 12:00:00		0.00	0.00	0.00	5.83	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	23-Feb-15 11:00:00		10.35	18.92	83.84	88.60
23-Feb-15 12:00:00	23-Feb-15 13:00:00		0.00	0.00	0.00	5.76	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	23-Feb-15 12:00:00		10.35	18.92	83.84	88.58
23-Feb-15 13:00:00	23-Feb-15 14:00:00		0.00	0.00	0.00	5.71	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	23-Feb-15 13:00:00		10.35	18.92	83.84	88.56
23-Feb-15 14:00:00	23-Feb-15 15:00:00		0.00	0.00	0.00	5.68	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	23-Feb-15 14:00:00		10.35	18.92	83.84	88.55
23-Feb-15 15:00:00	23-Feb-15 16:00:00		0.00	0.00	0.00	5.65	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	23-Feb-15 15:00:00		10.35	18.92	83.84	88.54
23-Feb-15 16:00:00	23-Feb-15 17:00:00		0.00	0.00	0.00	8.85	2.1	329.7		0.00	0.00	0.00	2.92		10.35	18.92	83.84	86.68	23-Feb-15 16:00:00		10.35	18.92	83.84	89.60
23-Feb-15 17:00:00	23-Feb-15 18:00:00		0.00	0.00	0.00	52.41	2.1	329.7		0.00	0.00	0.00	17.28		10.35	18.92	83.84	86.68	23-Feb-15 17:00:00		10.35	18.92	83.84	103.96
23-Feb-15 18:00:00	23-Feb-15 19:00:00		0.00	0.00	0.00	5.85	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	23-Feb-15 18:00:00		10.35	18.92	83.84	88.61
23-Feb-15 19:00:00	23-Feb-15 20:00:00		0.00	0.00	0.00	6.00	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	23-Feb-15 19:00:00		10.35	18.92	83.84	88.66
23-Feb-15 20:00:00	23-Feb-15 21:00:00		0.00	0.00	0.00	6.15	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	23-Feb-15 20:00:00		10.35	18.92	83.84	88.71
23-Feb-15 21:00:00	23-Feb-15 22:00:00		0.00	0.00	0.00	6.15	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	23-Feb-15 21:00:00		10.35	18.92	83.84	88.71
23-Feb-15 22:00:00	23-Feb-15 23:00:00		0.91	0.00	0.00	6.10	2.1	329.7		0.30	0.00	0.00	2.01		10.35	18.92	83.84	86.68	23-Feb-15 22:00:00		10.65	18.92	83.84	88.69
23-Feb-15 23:00:00	24-Feb-15 00:00:00		4.68	0.00	0.00	6.18	2.1	329.7		1.54	0.00	0.00	2.04		10.35	18.92	83.84	86.68	23-Feb-15 23:00:00		11.89	18.92	83.84	88.72
24-Feb-15 00:00:00	24-Feb-15 01:00:00		2.81	0.00	0.00	6.26	2.1	329.7		0.93	0.00	0.00	2.06		10.35	18.92	83.84	86.68	24-Feb-15 00:00:00		11.28	18.92	83.84	88.74
24-Feb-15 01:00:00	24-Feb-15 02:00:00		0.00	0.00	0.00	6.37	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	24-Feb-15 01:00:00		10.35	18.92	83.84	88.78
24-Feb-15 02:00:00	24-Feb-15 03:00:00		0.00	0.00	0.00	6.79	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	24-Feb-15 02:00:00		10.35	18.92	83.84	88.92
24-Feb-15 03:00:00	24-Feb-15 04:00:00		7.43	0.00	0.00	6.89	2.1	329.7		2.45	0.00	0.00	2.27		10.35	18.92	83.84	86.68	24-Feb-15 03:00:00		12.80	18.92	83.84	88.95
24-Feb-15 04:00:00	24-Feb-15 05:00:00		8.79	0.00	0.00	6.91	2.1	329.7		2.90	0.00	0.00	2.28		10.35	18.92	83.84	86.68	24-Feb-15 04:00:00		13.25	18.92	83.84	88.96
24-Feb-15 05:00:00	24-Feb-15 06:00:00		6.68	0.00	0.00	98.20	2.1	329.7		2.20	0.00	0.00	32.38		10.35	18.92	83.84	86.68	24-Feb-15 05:00:00		12.55	18.92	83.84	119.06
24-Feb-15 06:00:00	24-Feb-15 07:00:00		2.68	0.00	0.00	61.77	2.1	329.7		0.88	0.00	0.00	20.36		10.35	18.92	83.84	86.68	24-Feb-15 06:00:00		11.23	18.92	83.84	107.04
24-Feb-15 07:00:00	24-Feb-15 08:00:00		3.69	0.00	0.00	7.09	2.1	329.7		1.22	0.00	0.00	2.34		10.35	18.92	83.84	86.68	24-Feb-15 07:00:00		11.57	18.92	83.84	89.02
24-Feb-15 08:00:00	24-Feb-15 09:00:00		5.02	0.00	0.00	7.21	2.1	329.7		1.65	0.00	0.00	2.38		10.35	18.92	83.84	86.68	24-Feb-15 08:00:00		12.00	18.92	83.84	89.06
24-Feb-15 09:00:00	24-Feb-15 10:00:00		6.25	0.00	0.00	7.34	2.1	329.7		2.06	0.00	0.00	2.42		10.35	18.92	83.84	86.68	24-Feb-15 09:00:00		12.41	18.92	83.84	89.10
24-Feb-15 10:00:00	24-Feb-15 11:00:00		1.18	0.00	46.35	7.48	2.1	329.7		0.39	0.00	15.28	2.47		10.35	18.92	83.84	86.68	24-Feb-15 10:00:00		10.74	18.92	99.12	89.15
24-Feb-15 11:00:00	24-Feb-15 12:00:00		1.91	0.00	212.14	7.57	2.1	329.7		0.63	0.00	69.94	2.50		10.35	18.92	83.84	86.68	24-Feb-15 11:00:00		10.98	18.92	153.78	89.18
24-Feb-15 12:00:00	24-Feb-15 13:00:00		0.93	0.00	6.01	7.43	2.1	329.7		0.31	0.00	1.98	2.45		10.35	18.92	83.84	86.68	24-Feb-15 12:00:00		10.66	18.92	85.82	89.13
24-Feb-15 13:00:00	24-Feb-15 14:00:00		3.25	0.00	0.00	7.29	2.1	329.7		1.07	0.00	0.00	2.40		10.35	18.92	83.84	86.68	24-Feb-15 13:00:00		11.42	18.92	83.84	89.08
24-Feb-15 14:00:00	24-Feb-15 15:00:00		7.08	0.00	0.00	7.15	2.1	329.7		2.33	0.00	0.00	2.36		10.35	18.92	83.84	86.68	24-Feb-15 14:00:00		12.68	18.92	83.84	89.04
24-Feb-15 15:00:00	24-Feb-15 16:00:00		6.62	0.00	0.00	6.88	2.1	329.7		2.18	0.00	0.00	2.27		10.35	18.92	83.84	86.68	24-Feb-15 15:00:00		12.53	18.92	83.84	88.95
24-Feb-15 16:00:00	24-Feb-15 17:00:00		4.95	0.00	0.00	44.22	2.1	329.7		1.63	0.00	0.00	14.58		10.35	18.92	83.84	86.68	24-Feb-15 16:00:00		11.98	18.92	83.84	101.26
24-Feb-15 17:00:00	24-Feb-15 18:00:00		2.78	0.00	0.00	6.65	2.1	329.7		0.92	0.00	0.00	2.19		10.35	18.92	83.84	86.68	24-Feb-15 17:00:00		11.27	18.92	83.84	88.87
24-Feb-15 18:00:00	24-Feb-15 19:00:00		2.51	0.00	0.00	18.77	2.1	329.7		0.83	0.00	0.00	6.19		10.35	18.92	83.84	86.68	24-Feb-15 18:00:00		11.18	18.92	83.84	92.87
24-Feb-15 19:00:00	24-Feb-15 20:00:00		2.36	0.00	98.22	271.90	2.1	329.7		0.78	0.00	32.38	89.64		10.35	18.92	83.84	86.68	24-Feb-15 19:00:00		11.13	18.92	116.22	176.32
24-Feb-15 20:00:00	24-Feb-15 21:00:00		2.22	0.00	36.63	237.25	2.1	329.7		0.73	0.00	12.08	78.22		10.35	18.92	83.84	86.68	24-Feb-15 20:00:00		11.08	18.92	95.92	164.90
24-Feb-15 21:00:00	24-Feb-15 22:00:00		1.27	0.00	0.00	268.16	2.1	329.7		0.42	0.00	0.00	88.41		10.35	18.92	83.84	86.68	24-Feb-15 21:00:00		10.77	18.92	83.84	175.09
24-Feb-15 22:00:00	24-Feb-15 23:00:00		0.48	0.00	193.42	7.09	2.1	329.7		0.16	0.00	63.77	2.34		10.35	18.92	83.84	86.68	24-Feb-15 22:00:00		10.51	18.92	147.61	89.02
24-Feb-15 23:00:00	25-Feb-15 00:00:00		0.50	0.00	383.25	5.82	2.1	329.7		0.16	0.00	126.36	1.92		10.35	18.92	83.84	86.68	24-Feb-15 23:00:00		10.51	18.92	210.20	88.60
25-Feb-15 00:00:00	25-Feb-15 01:00:00		0.43	0.00	102.08	5.86	2.1	329.7		0.14	0.00	33.65	1.93		10.35	18.92	83.84	86.68	25-Feb-15 00:00:00		10.49	18.92	117.49	88.61
25-Feb-15 01:00:00	25-Feb-15 02:00:00		0.27	0.00	65.87	91.38	2.1	329.7		0.09	0.00	21.72	30.13		10.35	18.92	83.84	86.68	25-Feb-15 01:00:00		10.44	18.92	105.56	116.81
25-Feb-15 02:00:00	25-Feb-15 03:00:00		0.12	0.00	0.00	173.15	2.1	329.7		0.04	0.00	0.00	57.09		10.35	18.92	83.84	86.68	25-Feb-15 02:00:00		10.39	18.92	83.84	143.77
25-Feb-15 03:00:00	25-Feb-15 04:00:00		0.01	0.00	0.00	184.77	2.1	329.7		0.00	0.00	0.00	60.92		10.35	18.92	83.84	86.68	25-Feb-15 03:00:00		10.35	18.92	83.84	147.60
25-Feb-15 04:00:00	25-Feb-15 05:00:00		0.00	0.00	0.00	173.62	2.1	329.7		0.00	0.00	0.00	57.24		10.35	18.92	83.84	86.68	25-Feb-15 04:00:00		10.35	18.92	83.84	143.92
25-Feb-15 05:00:00	25-Feb-15 06:00:00		0.00	0.00	0.00	228.79	2.1	329.7		0.00	0.00	0.00	75.43		10.35	18.92	83.84	86.68	25-Feb-15 05:00:00		10.35	18.92	83.84	162.11
25-Feb-15 06:00:00	25-Feb-15 07:00:00		0.00	0.00	0.00	252.90	2.1	329.7		0.00	0.00	0.00	83.38		10.35	18.92	83.84	86.68	25-Feb-15 06:00:00		10.35	18.92	83.84	170.06
25-Feb-15 07:00:00	25-Feb-15 08:00:00		0.00	0.00	0.00	506.86	2.1	329.7		0.00	0.00	0.00	167.11		10.35	18.92	83.84	86.68	25-Feb-15 07:00:00		10.35	18.92	83.84	253.79
25-Feb-15 08:00:00	25-Feb-15 09:00:00		0.00	0.00	0.00	1,132.41	2.1	329.7		0.00	0.00	0.00	373.36		10.35	18.92	83.84	86.68	25-Feb-15 08:00:00		10.35	18.92	83.84	460.04
25-Feb-15 09:00:00	25-Feb-15 10:00:00		0.15	0.00	0.00	1,132.15	2.1	329.7		0.05	0.00	0.00	373.27		10.35	18.92	83.84	86.68	25-Feb-15 09:00:00		10.40	18.92	83.84	459.95
25-Feb-15 10:00:00	25-Feb-15 11:00:00		0.16	0.00	0.00	1,132.32	2.1	329.7		0.05	0.00	0.00	373.33		10.35	18.92	83.84	86.68	25-Feb-15 10:00:00		10.40	18.92	83.84	460.01
25-Feb-15 11:00:00	25-Feb-15 12:00:00		0.41	0.00	0.00	1,129.24	2.1	329.7		0.14	0.00	0.00	372.31		10.35	18.92	83.84	86.68	25-Feb-15 11:00:00		10.49	18.92	83.84	458.99
25-Feb-15 12:00:00	25-Feb-15 13:00:00		0.66	0.00	0.00	1,126.30	2.1	329.7		0.22	0.00	0.00	371.34		10.35	18.92	83.84	86.68	25-Feb-15 12:00:00		10.57	18.92	83.84	458.02
25-Feb-15 13:00:00	25-Feb-15 14:00:00		0.54	0.00	0.00	1,129.52	2.1	329.7		0.18	0.00	0.00	372.40		10.35	18.92	83.84	86.68	25-Feb-15 13:00:00		10.53	18.92	83.84	459.08
25-Feb-15 14:00:00	25-Feb-15 15:00:00		0.48	0.00	0.00	1,128.49	2.1	329.7		0.16	0.00	0.00	372.06		10.35	18.92	83.84	86.68	25-Feb-15 14:00:00		10.51	18.92	83.84	458.74
25-Feb-15 15:00:00	25-Feb-15 16:00:00		0.87	0.00	0.00	1,126.68	2.1	329.7		0.29	0.00	0.00	371.47		10.35	18.92	83.84	86.68	25-Feb-15 15:00:00		10.64	18.92	83.84	458.15
25-Feb-15 16:00:00	25-Feb-15 17:00:00		1.37	0.00	1.44	1,127.68	2.1	329.7		0.45	0.00	0.47	371.80		10.35	18.92	83.84	86.68	25-Feb-15 16:00:00		10.80	18.92	84.31	458.48
25-Feb-15 17:00:00	25-Feb-15 18:00:00		1.19	0.00	0.00	1,130.44	2.1	329.7		0.39	0.00	0.00	372.70		10.35	18.92	83.84	86.68	25-Feb-15 17:00:00		10.74	18.92	83.84	459.38
25-Feb-15 18:00:00	25-Feb-15 19:00:00		0.13	0.00	0.98	1,131.99	2.1	329.7		0.04	0.00	0.32	373.22		10.35	18.92	83.84	86.68	25-Feb-15 18:00:00		10.39	18.92	84.16	459.90
25-Feb-15 19:00:00	25-Feb-15 20:00:00		0.09	0.00	0.00	1,132.25	2.1	329.7		0.03	0.00	0.00	373.30		10.35	18.92	83.84	86.68	25-Feb-15 19:00:00		10.38	18.92	83.84	459.98
25-Feb-15 20:00:00	25-Feb-15 21:00:00		0.04	0.00	0.00	1,130.54	2.1	329.7		0.01	0.00	0.00	372.74		10.35	18.92	83.84	86.68	25-Feb-15 20:00:00		10.36	18.92	83.84	459.42
25-Feb-15 21:00:00	25-Feb-15 22:00:00		0.00	0.00	0.00	1,123.87	2.1	329.7		0.00	0.00	0.00	370.54		10.35	18.92	83.84	86.68	25-Feb-15 21:00:00		10.35	18.92	83.84	457.22
25-Feb-15 22:00:00	25-Feb-15 23:00:00		255.24	400.23	0.00	1,152.00	2.1	329.7		84.15	131.96	0.00	379.82		10.35	18.92	83.84	86.68	25-Feb-15 22:00:00		94.50	150.88	83.84	466.50
25-Feb-15 23:00:00	26-Feb-15 00:00:00		504.77	494.97	0.00	1,163.15	2.1	329.7		166.42	163.19	0.00	383.49		10.35	18.92	83.84	86.68	25-Feb-15 23:00:00		176.77	182.11	83.84	470.17
26-Feb-15 00:00:00	26-Feb

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
27-Feb-15 22:00:00	27-Feb-15 23:00:00		0.00	0.00	0.00	5.93	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	27-Feb-15 22:00:00		**10.35**	**18.92**	**83.84**	**88.64**
27-Feb-15 23:00:00	28-Feb-15 00:00:00		0.00	0.00	0.00	6.01	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	27-Feb-15 23:00:00		**10.35**	**18.92**	**83.84**	**88.66**
28-Feb-15 00:00:00	28-Feb-15 01:00:00		0.00	0.00	0.00	6.17	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	28-Feb-15 00:00:00		**10.35**	**18.92**	**83.84**	**88.71**
28-Feb-15 01:00:00	28-Feb-15 02:00:00		0.00	0.00	0.00	6.35	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	28-Feb-15 01:00:00		**10.35**	**18.92**	**83.84**	**88.77**
28-Feb-15 02:00:00	28-Feb-15 03:00:00		0.00	0.00	0.00	6.52	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	28-Feb-15 02:00:00		**10.35**	**18.92**	**83.84**	**88.83**
28-Feb-15 03:00:00	28-Feb-15 04:00:00		0.00	0.00	0.00	6.59	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	28-Feb-15 03:00:00		**10.35**	**18.92**	**83.84**	**88.85**
28-Feb-15 04:00:00	28-Feb-15 05:00:00		0.00	0.00	0.00	63.47	2.1	329.7		0.00	0.00	0.00	20.93		10.35	18.92	83.84	86.68	28-Feb-15 04:00:00		**10.35**	**18.92**	**83.84**	**107.61**
28-Feb-15 05:00:00	28-Feb-15 06:00:00		0.00	0.00	0.00	6.95	2.1	329.7		0.00	0.00	0.00	2.29		10.35	18.92	83.84	86.68	28-Feb-15 05:00:00		**10.35**	**18.92**	**83.84**	**88.97**
28-Feb-15 06:00:00	28-Feb-15 07:00:00		0.00	0.00	0.00	6.98	2.1	329.7		0.00	0.00	0.00	2.30		10.35	18.92	83.84	86.68	28-Feb-15 06:00:00		**10.35**	**18.92**	**83.84**	**88.98**
28-Feb-15 07:00:00	28-Feb-15 08:00:00		0.21	0.00	336.95	461.05	2.1	329.7		0.07	0.00	111.09	152.01		10.35	18.92	83.84	86.68	28-Feb-15 07:00:00		**10.42**	**18.92**	**194.93**	**238.69**
28-Feb-15 08:00:00	28-Feb-15 09:00:00		0.00	0.00	0.00	6.60	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	28-Feb-15 08:00:00		**10.35**	**18.92**	**83.84**	**88.86**
28-Feb-15 09:00:00	28-Feb-15 10:00:00		0.00	0.00	0.00	6.51	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	28-Feb-15 09:00:00		**10.35**	**18.92**	**83.84**	**88.83**
28-Feb-15 10:00:00	28-Feb-15 11:00:00		0.00	0.00	0.00	6.41	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	28-Feb-15 10:00:00		**10.35**	**18.92**	**83.84**	**88.79**
28-Feb-15 11:00:00	28-Feb-15 12:00:00		0.00	0.00	0.00	6.29	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	28-Feb-15 11:00:00		**10.35**	**18.92**	**83.84**	**88.75**
28-Feb-15 12:00:00	28-Feb-15 13:00:00		0.00	0.00	0.00	6.05	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	28-Feb-15 12:00:00		**10.35**	**18.92**	**83.84**	**88.67**
28-Feb-15 13:00:00	28-Feb-15 14:00:00		0.00	0.00	0.00	5.94	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	28-Feb-15 13:00:00		**10.35**	**18.92**	**83.84**	**88.64**
28-Feb-15 14:00:00	28-Feb-15 15:00:00		0.00	0.00	0.00	5.84	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	28-Feb-15 14:00:00		**10.35**	**18.92**	**83.84**	**88.60**
28-Feb-15 15:00:00	28-Feb-15 16:00:00		0.00	0.00	0.00	55.60	2.1	329.7		0.00	0.00	0.00	18.33		10.35	18.92	83.84	86.68	28-Feb-15 15:00:00		**10.35**	**18.92**	**83.84**	**105.01**
28-Feb-15 16:00:00	28-Feb-15 17:00:00		0.00	0.00	0.00	396.33	2.1	329.7		0.00	0.00	0.00	130.67		10.35	18.92	83.84	86.68	28-Feb-15 16:00:00		**10.35**	**18.92**	**83.84**	**217.35**
28-Feb-15 17:00:00	28-Feb-15 18:00:00		0.00	0.00	0.00	399.64	2.1	329.7		0.00	0.00	0.00	131.76		10.35	18.92	83.84	86.68	28-Feb-15 17:00:00		**10.35**	**18.92**	**83.84**	**218.44**
28-Feb-15 18:00:00	28-Feb-15 19:00:00		0.00	0.00	0.00	387.23	2.1	329.7		0.00	0.00	0.00	127.67		10.35	18.92	83.84	86.68	28-Feb-15 18:00:00		**10.35**	**18.92**	**83.84**	**214.35**
28-Feb-15 19:00:00	28-Feb-15 20:00:00		0.00	0.00	0.00	184.28	2.1	329.7		0.00	0.00	0.00	60.76		10.35	18.92	83.84	86.68	28-Feb-15 19:00:00		**10.35**	**18.92**	**83.84**	**147.44**
28-Feb-15 20:00:00	28-Feb-15 21:00:00		0.00	0.00	144.55	5.38	2.1	329.7		0.00	0.00	47.66	1.77		10.35	18.92	83.84	86.68	28-Feb-15 20:00:00		**10.35**	**18.92**	**131.50**	**88.45**
28-Feb-15 21:00:00	28-Feb-15 22:00:00		0.00	0.00	86.91	172.80	2.1	329.7		0.00	0.00	28.65	56.97		10.35	18.92	83.84	86.68	28-Feb-15 21:00:00		**10.35**	**18.92**	**112.49**	**143.65**
28-Feb-15 22:00:00	28-Feb-15 23:00:00		0.00	0.00	0.00	93.57	2.1	329.7		0.00	0.00	0.00	30.85		10.35	18.92	83.84	86.68	28-Feb-15 22:00:00		**10.35**	**18.92**	**83.84**	**117.53**
28-Feb-15 23:00:00	01-Mar-15 00:00:00		0.00	0.00	0.00	5.97	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	28-Feb-15 23:00:00		**10.35**	**18.92**	**83.84**	**88.65**
01-Mar-15 00:00:00	01-Mar-15 01:00:00		0.00	0.00	128.59	6.13	2.1	329.7		0.00	0.00	42.40	2.02		10.35	18.92	83.84	86.68	01-Mar-15 00:00:00		**10.35**	**18.92**	**126.24**	**88.70**
01-Mar-15 01:00:00	01-Mar-15 02:00:00		0.00	0.00	174.27	102.20	2.1	329.7		0.00	0.00	57.46	33.69		10.35	18.92	83.84	86.68	01-Mar-15 01:00:00		**10.35**	**18.92**	**141.30**	**120.37**
01-Mar-15 02:00:00	01-Mar-15 03:00:00		0.00	0.00	235.70	412.85	2.1	329.7		0.00	0.00	77.71	136.12		10.35	18.92	83.84	86.68	01-Mar-15 02:00:00		**10.35**	**18.92**	**161.55**	**222.80**
01-Mar-15 03:00:00	01-Mar-15 04:00:00		0.00	0.00	163.03	259.81	2.1	329.7		0.00	0.00	53.75	85.66		10.35	18.92	83.84	86.68	01-Mar-15 03:00:00		**10.35**	**18.92**	**137.59**	**172.34**
01-Mar-15 04:00:00	01-Mar-15 05:00:00		0.00	0.00	0.00	303.85	2.1	329.7		0.00	0.00	0.00	100.18		10.35	18.92	83.84	86.68	01-Mar-15 04:00:00		**10.35**	**18.92**	**83.84**	**186.86**
01-Mar-15 05:00:00	01-Mar-15 06:00:00		0.00	0.00	176.76	379.66	2.1	329.7		0.00	0.00	58.28	125.18		10.35	18.92	83.84	86.68	01-Mar-15 05:00:00		**10.35**	**18.92**	**142.12**	**211.86**
01-Mar-15 06:00:00	01-Mar-15 07:00:00		0.00	0.00	6.49	327.58	2.1	329.7		0.00	0.00	2.14	108.00		10.35	18.92	83.84	86.68	01-Mar-15 06:00:00		**10.35**	**18.92**	**85.98**	**194.68**
01-Mar-15 07:00:00	01-Mar-15 08:00:00		0.00	0.00	0.00	398.86	2.1	329.7		0.00	0.00	0.00	131.51		10.35	18.92	83.84	86.68	01-Mar-15 07:00:00		**10.35**	**18.92**	**83.84**	**218.19**
01-Mar-15 08:00:00	01-Mar-15 09:00:00		0.02	0.00	65.82	401.02	2.1	329.7		0.01	0.00	21.70	132.22		10.35	18.92	83.84	86.68	01-Mar-15 08:00:00		**10.36**	**18.92**	**105.54**	**218.90**
01-Mar-15 09:00:00	01-Mar-15 10:00:00		0.04	0.00	299.23	332.84	2.1	329.7		0.01	0.00	98.66	109.74		10.35	18.92	83.84	86.68	01-Mar-15 09:00:00		**10.36**	**18.92**	**182.50**	**196.42**
01-Mar-15 10:00:00	01-Mar-15 11:00:00		0.07	0.00	142.03	205.70	2.1	329.7		0.02	0.00	46.83	67.82		10.35	18.92	83.84	86.68	01-Mar-15 10:00:00		**10.37**	**18.92**	**130.67**	**154.50**
01-Mar-15 11:00:00	01-Mar-15 12:00:00		0.08	0.00	0.00	252.82	2.1	329.7		0.02	0.00	0.00	83.36		10.35	18.92	83.84	86.68	01-Mar-15 11:00:00		**10.37**	**18.92**	**83.84**	**170.04**
01-Mar-15 12:00:00	01-Mar-15 13:00:00		0.00	0.00	0.00	591.80	2.1	329.7		0.00	0.00	0.00	195.12		10.35	18.92	83.84	86.68	01-Mar-15 12:00:00		**10.35**	**18.92**	**83.84**	**281.80**
01-Mar-15 13:00:00	01-Mar-15 14:00:00		0.00	0.00	0.00	440.45	2.1	329.7		0.00	0.00	0.00	145.22		10.35	18.92	83.84	86.68	01-Mar-15 13:00:00		**10.35**	**18.92**	**83.84**	**231.90**
01-Mar-15 14:00:00	01-Mar-15 15:00:00		0.00	0.00	0.00	140.73	2.1	329.7		0.00	0.00	0.00	46.40		10.35	18.92	83.84	86.68	01-Mar-15 14:00:00		**10.35**	**18.92**	**83.84**	**131.08**
01-Mar-15 15:00:00	01-Mar-15 16:00:00		0.00	0.00	0.00	139.61	2.1	329.7		0.00	0.00	0.00	46.03		10.35	18.92	83.84	86.68	01-Mar-15 15:00:00		**10.35**	**18.92**	**83.84**	**132.71**
01-Mar-15 16:00:00	01-Mar-15 17:00:00		0.00	0.00	0.00	62.46	2.1	329.7		0.00	0.00	0.00	20.59		10.35	18.92	83.84	86.68	01-Mar-15 16:00:00		**10.35**	**18.92**	**83.84**	**107.27**
01-Mar-15 17:00:00	01-Mar-15 18:00:00		0.00	0.00	0.00	6.22	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	01-Mar-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.73**
01-Mar-15 18:00:00	01-Mar-15 19:00:00		0.00	0.00	0.00	5.89	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	01-Mar-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.62**
01-Mar-15 19:00:00	01-Mar-15 20:00:00		0.00	0.00	0.00	5.55	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	01-Mar-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.51**
01-Mar-15 20:00:00	01-Mar-15 21:00:00		0.00	0.00	0.00	5.33	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	01-Mar-15 20:00:00		**10.35**	**18.92**	**83.84**	**88.44**
01-Mar-15 21:00:00	01-Mar-15 22:00:00		0.00	0.00	0.00	5.34	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	01-Mar-15 21:00:00		**10.35**	**18.92**	**83.84**	**88.44**
01-Mar-15 22:00:00	01-Mar-15 23:00:00		0.00	0.00	0.00	5.36	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	01-Mar-15 22:00:00		**10.35**	**18.92**	**83.84**	**88.45**
01-Mar-15 23:00:00	02-Mar-15 00:00:00		0.00	0.00	0.00	5.38	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	01-Mar-15 23:00:00		**10.35**	**18.92**	**83.84**	**88.45**
02-Mar-15 00:00:00	02-Mar-15 01:00:00		0.00	0.00	0.00	5.31	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	02-Mar-15 00:00:00		**10.35**	**18.92**	**83.84**	**88.43**
02-Mar-15 01:00:00	02-Mar-15 02:00:00		0.00	0.00	0.00	5.30	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	02-Mar-15 01:00:00		**10.35**	**18.92**	**83.84**	**88.43**
02-Mar-15 02:00:00	02-Mar-15 03:00:00		0.00	0.00	0.00	5.32	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	02-Mar-15 02:00:00		**10.35**	**18.92**	**83.84**	**88.43**
02-Mar-15 03:00:00	02-Mar-15 04:00:00		0.00	0.00	0.00	5.33	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	02-Mar-15 03:00:00		**10.35**	**18.92**	**83.84**	**88.44**
02-Mar-15 04:00:00	02-Mar-15 05:00:00		0.00	0.00	0.00	5.25	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	02-Mar-15 04:00:00		**10.35**	**18.92**	**83.84**	**88.41**
02-Mar-15 05:00:00	02-Mar-15 06:00:00		0.00	0.00	0.00	5.14	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	02-Mar-15 05:00:00		**10.35**	**18.92**	**83.84**	**88.38**
02-Mar-15 06:00:00	02-Mar-15 07:00:00		0.00	0.00	0.00	5.07	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	02-Mar-15 06:00:00		**10.35**	**18.92**	**83.84**	**88.35**
02-Mar-15 07:00:00	02-Mar-15 08:00:00		0.00	0.00	0.00	4.99	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	02-Mar-15 07:00:00		**10.35**	**18.92**	**83.84**	**88.33**
02-Mar-15 08:00:00	02-Mar-15 09:00:00		0.00	0.00	0.00	4.89	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	02-Mar-15 08:00:00		**10.35**	**18.92**	**83.84**	**88.29**
02-Mar-15 09:00:00	02-Mar-15 10:00:00		0.00	0.00	0.00	4.81	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	02-Mar-15 09:00:00		**10.35**	**18.92**	**83.84**	**88.26**
02-Mar-15 10:00:00	02-Mar-15 11:00:00		0.00	0.00	0.00	4.74	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	02-Mar-15 10:00:00		**10.35**	**18.92**	**83.84**	**88.24**
02-Mar-15 11:00:00	02-Mar-15 12:00:00		1.28	0.00	0.00	4.67	2.1	329.7		0.42	0.00	0.00	1.54		10.35	18.92	83.84	86.68	02-Mar-15 11:00:00		**10.77**	**18.92**	**83.84**	**88.22**
02-Mar-15 12:00:00	02-Mar-15 13:00:00		0.14	0.00	0.00	4.55	2.1	329.7		0.05	0.00	0.00	1.50		10.35	18.92	83.84	86.68	02-Mar-15 12:00:00		**10.40**	**18.92**	**83.84**	**88.18**
02-Mar-15 13:00:00	02-Mar-15 14:00:00		0.00	0.00	0.00	4.43	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	02-Mar-15 13:00:00		**10.35**	**18.92**	**83.84**	**88.14**
02-Mar-15 14:00:00	02-Mar-15 15:00:00		0.00	0.00	0.00	4.32	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	02-Mar-15 14:00:00		**10.35**	**18.92**	**83.84**	**88.10**
02-Mar-15 15:00:00	02-Mar-15 16:00:00		0.00	0.00	0.00	4.20	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	02-Mar-15 15:00:00		**10.35**	**18.92**	**83.84**	**88.07**
02-Mar-15 16:00:00	02-Mar-15 17:00:00		0.00	0.00	0.00	4.29	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	02-Mar-15 16:00:00		**10.35**	**18.92**	**83.84**	**88.09**
02-Mar-15 17:00:00	02-Mar-15 18:00:00		0.00	0.00	0.00	4.42	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	02-Mar-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.14**
02-Mar-15 18:00:00	02-Mar-15 19:00:00		0.00	0.00	0.00	4.50	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	02-Mar-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.17**
02-Mar-15 19:00:00	02-Mar-15 20:00:00		0.00	0.00	0.00	4.59	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	02-Mar-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.19**
02-Mar-15 20:00:00	02-Mar-15 21:00:00		0.00	0.00	0.00	4.74	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	02-Mar-15 20:00:00		**10.35**	**18.92**	**83.84**	**88.24**
02-Mar-15 21:00:00	02-Mar-15 22:00:00		0.00	0.00	0.00	4.87	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	02-Mar-15 21:00:00		**10.35**	**18.92**	**83.84**	**88.29**
02-Mar-15 22:00:00	02-Mar-15 23:00:00		0.00	0.00	0.00	4.99	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	02-Mar-15 22:00:00		**10.35**	**18.92**	**83.84**	**88.32**
02-Mar-15 23:00:00	03-Mar-15 00:00:00		0.00	0.00	0.00	5.10	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	02-Mar-15 23:00:00		**10.35**	**18.92**	**83.84**	**88.36**
03-Mar-15 00:00:00	03-Mar-15 01:00:00		0.00	0.00	0.00	5.12	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	03-Mar-15 00:00:00		**10.35**	**18.92**	**83.84**	**88.37**
03-Mar-15 01:00:00	03-Mar-15 02:00:00		0.00	0.00	0.00	5.15	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	03-Mar-15 01:00:00		**10.35**	**18.92**	**83.84**	**88.38**
03-Mar-15 02:00:00	03-Mar-15 03:00:00		0.00	0.00	0.00	5.21	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	03-Mar-15 02:00:00		**10.35**	**18.92**	**83.84**	**88.40**
03-Mar-15 03:00:00	03-Mar-15 04:00:00		0.00	0.00	0.00	5.28	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	03-Mar-15 03:00:00		**10.35**	**18.92**	**83.84**	**88.42**
03-Mar-15 04:00:00	03-Mar-15 05:00:00		0.00	0.00	0.00	5.41	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	03-Mar-15 04:00:00		**10.35**	**18.92**	**83.84**	**88.46**
03-Mar-15 05:00:00	03-Mar-15 06:00:00		0.00	0.00	0.00	5.54	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	03-Mar-15 05:00:00		**10.35**	**18.92**	**83.84**	**88.51**
03-Mar-15 06:00:00	03-Mar-15 07:00:00		0.89	0.00	0.00	5.64	2.1	329.7		0.29	0.00	0.00	1.86		10.35	18.92	83.84	86.68	03-Mar-15 06:00:00		**10.64**	**18.92**	**83.84**	**88.54**
03-Mar-15 07:00:00	03-Mar-15 08:00:00		1.84	0.00	0.00	5.75	2.1	329.7		0.61	0.00	0.00	1.89		10.35	18.92	83.84	86.68	03-Mar-15 07:00:00		**10.96**	**18.92**	**83.84**	**88.57**
03-Mar-15 08:00:00	03-Mar-15 09:00:00		1.29	0.00	0.00	5.92	2.1	329.7		0.43	0.00	0.00	1.95		10.35	18.92	83.84	86.68	03-Mar-15 08:00:00		**10.78**	**18.92**	**83.84**	**88.63**
03-Mar-15 09:00:00	03-Mar-15 10:00:00		0.75	0.00	0.00	6.11	2.1	329.7		0.25	0.00	0.00	2.01		10.35	18.92	83.84	86.68	03-Mar-15 09:00:00		**10.60**	**18.92**	**83.84**	**88.69**
03-Mar-15 10:00:00	03-Mar-15 11:00:00		0.27	0.00	0.00	6.28	2.1	329.7		0.09	0.00	0.00	2.07		10.35	18.92	83.84	86.68	03-Mar-15 10:00:00		**10.44**	**18.92**	**83.84**	**88.75**
03-Mar-15 11:00:00	03-Mar-15 12:00:00		3.33	0.00	0.00	6.44	2.1	329.7		1.10	0.00	0.00	2.12		10.35	18.92	83.84	86.68	03-Mar-15 11:00:00		**11.45**	**18.92**	**83.84**	**88.80**
03-Mar-15 12:00:00	03-Mar-15 13:00:00		1.20	0.00	0.00	6.50	2.1	329.7		0.39	0.00	0.00	2.14		10.35	18.92	83.84	86.68	03-Mar-15 12:00:00		**10.74**	**18.92**	**83.84**	**88.82**
03-Mar-15 13:00:00	03-Mar-15 14:00:00		1.54	0.00	0.00	6.44	2.1	329.7		0.51	0.00	0.00	2.12		10.35	18.92	83.84	86.68	03-Mar-15 13:00:00		**10.86**	**18.92**	**83.84**	**88.80**
03-Mar-15 14:00:00	03-Mar-15 15:00:00		1.21	0.00	0.00	6.40	2.1	329.7		0.40	0.00	0.00	2.11		10.35	18.92	83.84	86.68	03-Mar-15 14:00:00		**10.75**	**18.92**	**83.84**	**88.79**
03-Mar-15 15:00:00	03-Mar-15 16:00:00		4.13	0.00	0.00	6.36	2.1	329.7		1.36	0.00	0.00	2.10		10.35	18.92	83.84	86.68	03-Mar-15 15:00:00		**11.71**	**18.92**	**83.84**	**88.78**
03-Mar-15 16:00:00	03-Mar-15 17:00:00		2.49	0.00	0.00	6.22	2.1	329.7		0.82	0.00	0.00	2.05		10.35	18.92	83.84	86.68	03-Mar-15 16:00:00		**11.17**	**18.92**	**83.84**	**88.73**
03-Mar-15 17:00:00	03-Mar-15 18:00:00		3.36	0.00	0.00	6.10	2.1	329.7		1.11	0.00	0.00	2.01		10.35	18.92	83.84	86.68	03-Mar-15 17:00:00		**11.46**	**18.92**	**83.84**	**88.69**
03-Mar-15 18:00:00	03-Mar-15 19:00:00		0.99	0.00	0.00	6.02	2.1	329.7		0.33	0.00	0.00	1.98		10.35	18.92	83.84	86.68	03-Mar-15 18:00:00		**10.68**	**18.92**	**83.84**	**88.66**
03-Mar-15 19:00:00	03-Mar-15 20:00:00		1.57	0.00	0.00	5.94

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
05-Mar-15 17:00:00	05-Mar-15 18:00:00		86.05	0.00	0.00	6.24	2.1	329.7		28.37	0.00	0.00	2.06		10.35	18.92	83.84	86.68	05-Mar- 15 17:00:00		38.72	18.92	83.84	88.74
05-Mar-15 18:00:00	05-Mar-15 19:00:00		0.90	0.00	0.00	6.29	2.1	329.7		0.30	0.00	0.00	2.07		10.35	18.92	83.84	86.68	05-Mar-15 18:00:00		10.65	18.92	83.84	88.75
05-Mar-15 19:00:00	05-Mar-15 20:00:00		2.29	0.00	0.00	6.36	2.1	329.7		0.75	0.00	0.00	2.10		10.35	18.92	83.84	86.68	05-Mar-15 19:00:00		11.10	18.92	83.84	88.78
05-Mar-15 20:00:00	05-Mar-15 21:00:00		4.56	0.00	0.00	6.48	2.1	329.7		1.50	0.00	0.00	2.14		10.35	18.92	83.84	86.68	05-Mar-15 20:00:00		11.85	18.92	83.84	88.82
05-Mar-15 21:00:00	05-Mar-15 22:00:00		2.85	0.00	0.00	6.58	2.1	329.7		0.94	0.00	0.00	2.17		10.35	18.92	83.84	86.68	05-Mar-15 21:00:00		11.29	18.92	83.84	88.85
05-Mar-15 22:00:00	05-Mar-15 23:00:00		0.00	0.00	0.00	6.69	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	05-Mar-15 22:00:00		10.35	18.92	83.84	88.88
05-Mar-15 23:00:00	06-Mar-15 00:00:00		0.00	0.00	0.00	116.70	2.1	329.7		0.00	0.00	0.00	38.48		10.35	18.92	83.84	86.68	05-Mar-15 23:00:00		10.35	18.92	83.84	125.16
06-Mar-15 00:00:00	06-Mar-15 01:00:00		0.00	0.00	0.00	6.80	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	06-Mar-15 00:00:00		10.35	18.92	83.84	88.92
06-Mar-15 01:00:00	06-Mar-15 02:00:00		0.00	0.00	0.00	6.21	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	06-Mar-15 01:00:00		10.35	18.92	83.84	108.84
06-Mar-15 02:00:00	06-Mar-15 03:00:00		0.00	0.00	0.00	6.82	2.1	329.7		0.00	0.00	0.00	2.25		10.35	18.92	83.84	86.68	06-Mar-15 02:00:00		10.35	18.92	83.84	88.93
06-Mar-15 03:00:00	06-Mar-15 04:00:00		0.00	0.00	0.00	6.75	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	06-Mar-15 03:00:00		10.35	18.92	83.84	88.90
06-Mar-15 04:00:00	06-Mar-15 05:00:00		0.31	0.00	0.00	6.68	2.1	329.7		0.10	0.00	0.00	2.20		10.35	18.92	83.84	86.68	06-Mar-15 04:00:00		10.45	18.92	83.84	88.88
06-Mar-15 05:00:00	06-Mar-15 06:00:00		0.41	0.00	0.00	21.73	2.1	329.7		0.14	0.00	0.00	7.16		10.35	18.92	83.84	86.68	06-Mar-15 05:00:00		10.49	18.92	83.84	93.84
06-Mar-15 06:00:00	06-Mar-15 07:00:00		0.94	0.00	0.00	6.91	2.1	329.7		0.31	0.00	0.00	2.28		10.35	18.92	83.84	86.68	06-Mar-15 06:00:00		10.66	18.92	83.84	88.96
06-Mar-15 07:00:00	06-Mar-15 08:00:00		13.24	0.00	0.00	7.42	2.1	329.7		4.37	0.00	0.00	2.45		10.35	18.92	83.84	86.68	06-Mar-15 07:00:00		14.72	18.92	83.84	89.13
06-Mar-15 08:00:00	06-Mar-15 09:00:00		15.15	0.00	0.00	7.21	2.1	329.7		4.99	0.00	0.00	2.38		10.35	18.92	83.84	86.68	06-Mar-15 08:00:00		15.34	18.92	83.84	89.06
06-Mar-15 09:00:00	06-Mar-15 10:00:00		21.11	0.00	0.00	7.95	2.1	329.7		6.96	0.00	0.00	2.62		10.35	18.92	83.84	86.68	06-Mar-15 09:00:00		17.31	18.92	83.84	89.30
06-Mar-15 10:00:00	06-Mar-15 11:00:00		9.90	0.00	0.00	6.82	2.1	329.7		3.26	0.00	0.00	2.25		10.35	18.92	83.84	86.68	06-Mar-15 10:00:00		13.61	18.92	83.84	88.93
06-Mar-15 11:00:00	06-Mar-15 12:00:00		11.65	0.00	0.00	6.68	2.1	329.7		3.84	0.00	0.00	2.20		10.35	18.92	83.84	86.68	06-Mar-15 11:00:00		14.19	18.92	83.84	88.88
06-Mar-15 12:00:00	06-Mar-15 13:00:00		11.31	0.00	0.00	6.53	2.1	329.7		3.73	0.00	0.00	2.15		10.35	18.92	83.84	86.68	06-Mar-15 12:00:00		14.08	18.92	83.84	88.83
06-Mar-15 13:00:00	06-Mar-15 14:00:00		9.00	0.00	0.00	6.40	2.1	329.7		2.97	0.00	0.00	2.11		10.35	18.92	83.84	86.68	06-Mar-15 13:00:00		13.32	18.92	83.84	88.79
06-Mar-15 14:00:00	06-Mar-15 15:00:00		6.05	0.00	0.00	6.18	2.1	329.7		1.99	0.00	0.00	2.04		10.35	18.92	83.84	86.68	06-Mar-15 14:00:00		12.34	18.92	83.84	88.72
06-Mar-15 15:00:00	06-Mar-15 16:00:00		0.52	0.00	0.00	5.96	2.1	329.7		0.17	0.00	0.00	1.96		10.35	18.92	83.84	86.68	06-Mar-15 15:00:00		10.52	18.92	83.84	88.64
06-Mar-15 16:00:00	06-Mar-15 17:00:00		0.65	0.00	0.00	5.73	2.1	329.7		0.21	0.00	0.00	1.89		10.35	18.92	83.84	86.68	06-Mar-15 16:00:00		10.56	18.92	83.84	88.57
06-Mar-15 17:00:00	06-Mar-15 18:00:00		0.00	0.00	0.00	5.61	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	06-Mar-15 17:00:00		10.35	18.92	83.84	88.53
06-Mar-15 18:00:00	06-Mar-15 19:00:00		0.00	0.00	0.00	5.66	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	06-Mar-15 18:00:00		10.35	18.92	83.84	88.55
06-Mar-15 19:00:00	06-Mar-15 20:00:00		0.00	0.00	0.00	17.85	2.1	329.7		0.00	0.00	0.00	5.88		10.35	18.92	83.84	86.68	06-Mar-15 19:00:00		10.35	18.92	83.84	92.56
06-Mar-15 20:00:00	06-Mar-15 21:00:00		0.00	0.00	0.00	5.95	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	06-Mar-15 20:00:00		10.35	18.92	83.84	88.64
06-Mar-15 21:00:00	06-Mar-15 22:00:00		593.42	0.00	0.00	6.17	2.1	329.7		195.65	0.00	0.00	2.04		10.35	18.92	83.84	86.68	06-Mar-15 21:00:00		206.00	18.92	83.84	88.72
06-Mar-15 22:00:00	06-Mar-15 23:00:00		1,638.28	1,370.23	0.00	6.40	2.1	329.7		540.14	451.76	0.00	2.11		10.35	18.92	83.84	86.68	06-Mar-15 22:00:00		550.49	470.68	83.84	88.79
06-Mar-15 23:00:00	07-Mar-15 00:00:00		1,996.19	2,307.22	0.00	6.62	2.1	329.7		658.14	760.69	0.00	2.18		10.35	18.92	83.84	86.68	06-Mar-15 23:00:00		668.49	779.61	83.84	88.86
07-Mar-15 00:00:00	07-Mar-15 01:00:00		2,047.87	2,333.72	0.00	6.74	2.1	329.7		675.18	769.43	0.00	2.22		10.35	18.92	83.84	86.68	07-Mar-15 00:00:00		685.53	788.35	83.84	88.90
07-Mar-15 01:00:00	07-Mar-15 02:00:00		2,058.41	2,198.00	0.00	6.79	2.1	329.7		678.66	724.68	0.00	2.24		10.35	18.92	83.84	86.68	07-Mar-15 01:00:00		689.01	743.60	83.84	88.92
07-Mar-15 02:00:00	07-Mar-15 03:00:00		2,072.73	1,962.89	0.00	6.84	2.1	329.7		683.38	647.17	0.00	2.26		10.35	18.92	83.84	86.68	07-Mar-15 02:00:00		693.73	666.09	83.84	88.94
07-Mar-15 03:00:00	07-Mar-15 04:00:00		2,050.88	1,959.86	0.00	6.89	2.1	329.7		676.18	646.17	0.00	2.27		10.35	18.92	83.84	86.68	07-Mar-15 03:00:00		686.53	665.09	83.84	88.95
07-Mar-15 04:00:00	07-Mar-15 05:00:00		2,059.74	2,031.33	0.00	6.85	2.1	329.7		679.10	669.73	0.00	2.26		10.35	18.92	83.84	86.68	07-Mar-15 04:00:00		689.45	688.65	83.84	88.94
07-Mar-15 05:00:00	07-Mar-15 06:00:00		1,968.74	1,983.89	0.00	6.78	2.1	329.7		649.09	654.09	0.00	2.24		10.35	18.92	83.84	86.68	07-Mar-15 05:00:00		659.44	673.01	83.84	88.92
07-Mar-15 06:00:00	07-Mar-15 07:00:00		447.46	2,378.17	0.00	125.96	2.1	329.7		147.53	784.08	0.00	41.53		10.35	18.92	83.84	86.68	07-Mar-15 06:00:00		157.88	803.00	83.84	128.21
07-Mar-15 07:00:00	07-Mar-15 08:00:00		3.00	2,355.84	0.00	623.03	2.1	329.7		0.99	776.72	0.00	205.41		10.35	18.92	83.84	86.68	07-Mar-15 07:00:00		11.34	795.64	83.84	292.09
07-Mar-15 08:00:00	07-Mar-15 09:00:00		16.40	2,354.47	0.00	104.24	2.1	329.7		5.41	776.27	0.00	34.37		10.35	18.92	83.84	86.68	07-Mar-15 08:00:00		15.76	795.19	83.84	121.05
07-Mar-15 09:00:00	07-Mar-15 10:00:00		17.56	2,326.45	0.00	5.69	2.1	329.7		5.79	767.03	0.00	1.88		10.35	18.92	83.84	86.68	07-Mar-15 09:00:00		16.14	785.95	83.84	88.56
07-Mar-15 10:00:00	07-Mar-15 11:00:00		47.62	2,334.21	0.00	5.34	2.1	329.7		15.70	769.59	0.00	1.76		10.35	18.92	83.84	86.68	07-Mar-15 10:00:00		26.05	788.51	83.84	88.44
07-Mar-15 11:00:00	07-Mar-15 12:00:00		61.76	2,373.61	0.00	4.98	2.1	329.7		20.36	782.58	0.00	1.64		10.35	18.92	83.84	86.68	07-Mar-15 11:00:00		30.71	801.50	83.84	88.32
07-Mar-15 12:00:00	07-Mar-15 13:00:00		24.70	2,370.13	0.00	4.63	2.1	329.7		8.14	781.43	0.00	1.53		10.35	18.92	83.84	86.68	07-Mar-15 12:00:00		18.49	800.35	83.84	88.21
07-Mar-15 13:00:00	07-Mar-15 14:00:00		0.00	2,811.58	0.00	4.50	2.1	329.7		0.00	926.98	0.00	1.48		10.35	18.92	83.84	86.68	07-Mar-15 13:00:00		10.35	945.90	83.84	88.16
07-Mar-15 14:00:00	07-Mar-15 15:00:00		0.00	2,917.64	0.00	4.39	2.1	329.7		0.00	961.95	0.00	1.45		10.35	18.92	83.84	86.68	07-Mar-15 14:00:00		10.35	980.87	83.84	88.13
07-Mar-15 15:00:00	07-Mar-15 16:00:00		0.00	2,621.84	0.00	4.27	2.1	329.7		0.00	864.42	0.00	1.41		10.35	18.92	83.84	86.68	07-Mar-15 15:00:00		10.35	883.34	83.84	88.09
07-Mar-15 16:00:00	07-Mar-15 17:00:00		0.00	2,893.92	0.00	4.29	2.1	329.7		0.00	954.13	0.00	1.41		10.35	18.92	83.84	86.68	07-Mar-15 16:00:00		10.35	973.05	83.84	88.09
07-Mar-15 17:00:00	07-Mar-15 18:00:00		0.00	2,877.62	0.00	4.31	2.1	329.7		0.00	948.75	0.00	1.42		10.35	18.92	83.84	86.68	07-Mar-15 17:00:00		10.35	967.67	83.84	88.10
07-Mar-15 18:00:00	07-Mar-15 19:00:00		0.00	2,887.62	0.00	4.33	2.1	329.7		0.00	952.05	0.00	1.43		10.35	18.92	83.84	86.68	07-Mar-15 18:00:00		10.35	970.97	83.84	88.11
07-Mar-15 19:00:00	07-Mar-15 20:00:00		0.00	2,879.54	0.00	4.35	2.1	329.7		0.00	949.39	0.00	1.43		10.35	18.92	83.84	86.68	07-Mar-15 19:00:00		10.35	968.31	83.84	88.11
07-Mar-15 20:00:00	07-Mar-15 21:00:00		0.00	2,418.07	0.00	4.46	2.1	329.7		0.00	797.24	0.00	1.47		10.35	18.92	83.84	86.68	07-Mar-15 20:00:00		10.35	816.16	83.84	88.15
07-Mar-15 21:00:00	07-Mar-15 22:00:00		0.00	2,454.71	0.00	4.68	2.1	329.7		0.00	809.32	0.00	1.54		10.35	18.92	83.84	86.68	07-Mar-15 21:00:00		10.35	828.24	83.84	88.22
07-Mar-15 22:00:00	07-Mar-15 23:00:00		0.00	2,242.62	0.00	4.91	2.1	329.7		0.00	739.39	0.00	1.62		10.35	18.92	83.84	86.68	07-Mar-15 22:00:00		10.35	758.31	83.84	88.30
07-Mar-15 23:00:00	08-Mar-15 00:00:00		0.00	2,196.55	0.00	5.14	2.1	329.7		0.00	724.20	0.00	1.69		10.35	18.92	83.84	86.68	07-Mar-15 23:00:00		10.35	743.12	83.84	88.37
08-Mar-15 00:00:00	08-Mar-15 01:00:00		0.00	2,070.92	0.00	5.34	2.1	329.7		0.00	682.78	0.00	1.76		10.35	18.92	83.84	86.68	08-Mar-15 00:00:00		10.35	701.70	83.84	88.44
08-Mar-15 01:00:00	08-Mar-15 03:00:00		0.00	2,121.21	0.00	5.49	2.1	329.7		0.00	699.36	0.00	1.81		10.35	18.92	83.84	86.68	08-Mar-15 01:00:00		10.35	718.28	83.84	88.49
08-Mar-15 03:00:00	08-Mar-15 04:00:00		0.00	2,185.86	0.00	5.65	2.1	329.7		0.00	720.68	0.00	1.86		10.35	18.92	83.84	86.68	08-Mar-15 03:00:00		10.35	739.60	83.84	88.54
08-Mar-15 04:00:00	08-Mar-15 05:00:00		0.00	2,275.99	0.00	5.76	2.1	329.7		0.00	750.40	0.00	1.90		10.35	18.92	83.84	86.68	08-Mar-15 04:00:00		10.35	769.32	83.84	88.58
08-Mar-15 05:00:00	08-Mar-15 06:00:00		0.00	1,785.05	0.00	5.79	2.1	329.7		0.00	588.53	0.00	1.91		10.35	18.92	83.84	86.68	08-Mar-15 05:00:00		10.35	607.45	83.84	88.59
08-Mar-15 06:00:00	08-Mar-15 07:00:00		0.00	1,329.01	0.00	5.83	2.1	329.7		0.00	438.17	0.00	1.92		10.35	18.92	83.84	86.68	08-Mar-15 06:00:00		10.35	457.09	83.84	88.60
08-Mar-15 07:00:00	08-Mar-15 08:00:00		0.00	825.99	0.00	5.86	2.1	329.7		0.00	272.33	0.00	1.93		10.35	18.92	83.84	86.68	08-Mar-15 07:00:00		10.35	291.25	83.84	88.61
08-Mar-15 08:00:00	08-Mar-15 09:00:00		0.00	0.00	0.00	5.95	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	08-Mar-15 08:00:00		10.35	18.92	83.84	88.64
08-Mar-15 09:00:00	08-Mar-15 10:00:00		0.00	0.00	0.00	5.62	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	08-Mar-15 09:00:00		10.35	18.92	83.84	88.53
08-Mar-15 10:00:00	08-Mar-15 11:00:00		0.00	0.00	0.00	5.25	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	08-Mar-15 10:00:00		10.35	18.92	83.84	88.41
08-Mar-15 11:00:00	08-Mar-15 12:00:00		0.00	0.00	0.00	4.89	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	08-Mar-15 11:00:00		10.35	18.92	83.84	88.29
08-Mar-15 12:00:00	08-Mar-15 13:00:00		0.00	0.00	0.00	4.53	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	08-Mar-15 12:00:00		10.35	18.92	83.84	88.17
08-Mar-15 13:00:00	08-Mar-15 14:00:00		0.00	0.00	0.00	4.28	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	08-Mar-15 13:00:00		10.35	18.92	83.84	88.09
08-Mar-15 14:00:00	08-Mar-15 15:00:00		0.00	0.00	0.00	4.04	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	08-Mar-15 14:00:00		10.35	18.92	83.84	88.01
08-Mar-15 15:00:00	08-Mar-15 16:00:00		0.00	0.00	0.00	3.80	2.1	329.7		0.00	0.00	0.00	1.25		10.35	18.92	83.84	86.68	08-Mar-15 15:00:00		10.35	18.92	83.84	87.93
08-Mar-15 16:00:00	08-Mar-15 17:00:00		0.00	0.00	0.00	3.50	2.1	329.7		0.00	0.00	0.00	1.15		10.35	18.92	83.84	86.68	08-Mar-15 16:00:00		10.35	18.92	83.84	87.83
08-Mar-15 17:00:00	08-Mar-15 18:00:00		0.00	0.00	0.00	3.57	2.1	329.7		0.00	0.00	0.00	1.18		10.35	18.92	83.84	86.68	08-Mar-15 17:00:00		10.35	18.92	83.84	87.86
08-Mar-15 18:00:00	08-Mar-15 19:00:00		0.00	0.00	0.00	3.67	2.1	329.7		0.00	0.00	0.00	1.21		10.35	18.92	83.84	86.68	08-Mar-15 18:00:00		10.35	18.92	83.84	87.89
08-Mar-15 19:00:00	08-Mar-15 20:00:00		0.00	0.00	0.00	3.78	2.1	329.7		0.00	0.00	0.00	1.25		10.35	18.92	83.84	86.68	08-Mar-15 19:00:00		10.35	18.92	83.84	87.93
08-Mar-15 20:00:00	08-Mar-15 21:00:00		0.00	0.00	0.00	3.84	2.1	329.7		0.00	0.00	0.00	1.27		10.35	18.92	83.84	86.68	08-Mar-15 20:00:00		10.35	18.92	83.84	87.95
08-Mar-15 21:00:00	08-Mar-15 22:00:00		0.00	0.00	0.00	4.01	2.1	329.7		0.00	0.00	0.00	1.32		10.35	18.92	83.84	86.68	08-Mar-15 21:00:00		10.35	18.92	83.84	88.00
08-Mar-15 22:00:00	08-Mar-15 23:00:00		0.00	0.00	0.00	4.21	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	08-Mar-15 22:00:00		10.35	18.92	83.84	88.07
08-Mar-15 23:00:00	09-Mar-15 00:00:00		0.00	0.00	0.00	4.40	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	08-Mar-15 23:00:00		10.35	18.92	83.84	88.13
09-Mar-15 00:00:00	09-Mar-15 01:00:00		0.00	0.00	0.00	4.67	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	09-Mar-15 00:00:00		10.35	18.92	83.84	88.22
09-Mar-15 01:00:00	09-Mar-15 02:00:00		0.00	0.00	0.00	4.69	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	09-Mar-15 01:00:00		10.35	18.92	83.84	88.23
09-Mar-15 02:00:00	09-Mar-15 03:00:00		0.00	0.00	0.00	4.67	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	09-Mar-15 02:00:00		10.35	18.92	83.84	88.22
09-Mar-15 03:00:00	09-Mar-15 04:00:00		0.00	0.00	0.00	4.66	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	09-Mar-15 03:00:00		10.35	18.92	83.84	88.22
09-Mar-15 04:00:00	09-Mar-15 05:00:00		0.00	0.00	0.00	4.74	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	09-Mar-15 04:00:00		10.35	18.92	83.84	88.24
09-Mar-15 05:00:00	09-Mar-15 06:00:00		0.00	0.00	0.00	4.88	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	09-Mar-15 05:00:00		10.35	18.92	83.84	88.29
09-Mar-15 06:00:00	09-Mar-15 07:00:00		0.00	0.00	0.00	5.01	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	09-Mar-15 06:00:00		10.35	18.92	83.84	88.33
09-Mar-15 07:00:00	09-Mar-15 08:00:00		0.00	0.00	0.00	5.13	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	09-Mar-15 07:00:00		10.35	18.92	83.84	88.37
09-Mar-15 08:00:00	09-Mar-15 09:00:00		0.00	0.00	0.00	5.13	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	09-Mar-15 08:00:00		10.35	18.92	83.84	88.37
09-Mar-15 09:00:00	09-Mar-15 10:00:00		0.00	0.00	0.00	5.09	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	09-Mar-15 09:00:00		10.35	18.92	83.84	88.36
09-Mar-15 10:00:00	09-Mar-15 11:00:00		0.00	0.00	0.00	5.07	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	09-Mar-15 10:00:00		10.35	18.92	83.84	88.35
09-Mar-15 11:00:00	09-Mar-15 12:00:00		0.00	0.00	0.00	5.05	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	09-Mar-15 11:00:00		10.35	18.92	83.84	88.35
09-Mar-15 12:00:00	09-Mar-15 13:00:00		0.00	0.00	0.00	4.93	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	09-Mar-15 12:00:00		10.35	18.92	83.84	88.31
09-Mar-15 13:00:00	09-Mar-15 14:00:00		0.00	0.00	0.00	4.75	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	09-Mar-15 13:00:00		10.35	18.92	83.84	88.25
09-Mar-15 14:00:00	09-Mar-15 15:00:00		0.00	0.00	0.00	4.57	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	09-Mar-15 14:00:00		10

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
11-Mar-15 13:00:00	11-Mar-15 14:00:00		0.00	0.00	0.00	3.81	2.1	329.7		0.00	0.00	0.00	1.26		10.35	18.92	83.84	86.68	11-Mar-15 13:00:00		10.35	18.92	83.84	87.94
11-Mar-15 14:00:00	11-Mar-15 15:00:00		0.00	0.00	0.00	3.76	2.1	329.7		0.00	0.00	0.00	1.24		10.35	18.92	83.84	86.68	11-Mar-15 14:00:00		10.35	18.92	83.84	87.92
11-Mar-15 15:00:00	11-Mar-15 16:00:00		0.00	0.00	0.00	3.71	2.1	329.7		0.00	0.00	0.00	1.22		10.35	18.92	83.84	86.68	11-Mar-15 15:00:00		10.35	18.92	83.84	87.90
11-Mar-15 16:00:00	11-Mar-15 17:00:00		0.00	0.00	0.00	3.69	2.1	329.7		0.00	0.00	0.00	1.22		10.35	18.92	83.84	86.68	11-Mar-15 16:00:00		10.35	18.92	83.84	87.90
11-Mar-15 17:00:00	11-Mar-15 18:00:00		0.00	0.00	0.00	3.95	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	11-Mar-15 17:00:00		10.35	18.92	83.84	87.98
11-Mar-15 18:00:00	11-Mar-15 19:00:00		0.00	0.00	0.00	4.24	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	11-Mar-15 18:00:00		10.35	18.92	83.84	88.08
11-Mar-15 19:00:00	11-Mar-15 20:00:00		0.00	0.00	0.00	4.54	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	11-Mar-15 19:00:00		10.35	18.92	83.84	88.18
11-Mar-15 20:00:00	11-Mar-15 21:00:00		0.00	0.00	0.00	4.82	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	11-Mar-15 20:00:00		10.35	18.92	83.84	88.27
11-Mar-15 21:00:00	11-Mar-15 22:00:00		0.00	0.00	0.00	4.89	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	11-Mar-15 21:00:00		10.35	18.92	83.84	88.29
11-Mar-15 22:00:00	11-Mar-15 23:00:00		0.00	0.00	0.00	4.91	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	11-Mar-15 22:00:00		10.35	18.92	83.84	88.30
11-Mar-15 23:00:00	12-Mar-15 00:00:00		0.00	0.00	0.00	4.94	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	11-Mar-15 23:00:00		10.35	18.92	83.84	88.31
12-Mar-15 00:00:00	12-Mar-15 01:00:00		0.00	0.00	0.00	5.04	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	12-Mar-15 00:00:00		10.35	18.92	83.84	88.34
12-Mar-15 01:00:00	12-Mar-15 02:00:00		0.00	0.00	0.00	5.11	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	12-Mar-15 01:00:00		10.35	18.92	83.84	88.36
12-Mar-15 02:00:00	12-Mar-15 03:00:00		0.00	0.00	0.00	5.14	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	12-Mar-15 02:00:00		10.35	18.92	83.84	88.37
12-Mar-15 03:00:00	12-Mar-15 04:00:00		0.00	0.00	0.00	5.16	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	12-Mar-15 03:00:00		10.35	18.92	83.84	88.38
12-Mar-15 04:00:00	12-Mar-15 05:00:00		0.00	0.00	0.00	5.19	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	12-Mar-15 04:00:00		10.35	18.92	83.84	88.39
12-Mar-15 05:00:00	12-Mar-15 06:00:00		0.00	0.00	0.00	5.23	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	12-Mar-15 05:00:00		10.35	18.92	83.84	88.40
12-Mar-15 06:00:00	12-Mar-15 07:00:00		0.00	0.00	0.00	5.27	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	12-Mar-15 06:00:00		10.35	18.92	83.84	88.42
12-Mar-15 07:00:00	12-Mar-15 08:00:00		0.00	0.00	0.00	5.31	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	12-Mar-15 07:00:00		10.35	18.92	83.84	88.43
12-Mar-15 08:00:00	12-Mar-15 09:00:00		0.00	0.00	0.00	5.36	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	12-Mar-15 08:00:00		10.35	18.92	83.84	88.45
12-Mar-15 09:00:00	12-Mar-15 10:00:00		0.00	0.00	0.00	5.32	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	12-Mar-15 09:00:00		10.35	18.92	83.84	88.44
12-Mar-15 10:00:00	12-Mar-15 11:00:00		0.00	0.00	0.00	5.28	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	12-Mar-15 10:00:00		10.35	18.92	83.84	88.42
12-Mar-15 11:00:00	12-Mar-15 12:00:00		0.00	0.00	0.00	5.23	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	12-Mar-15 11:00:00		10.35	18.92	83.84	88.41
12-Mar-15 12:00:00	12-Mar-15 13:00:00		0.00	0.00	0.00	5.23	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	12-Mar-15 12:00:00		10.35	18.92	83.84	88.41
12-Mar-15 13:00:00	12-Mar-15 14:00:00		0.00	0.00	0.00	5.16	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	12-Mar-15 13:00:00		10.35	18.92	83.84	88.38
12-Mar-15 14:00:00	12-Mar-15 15:00:00		0.00	0.00	0.00	5.06	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	12-Mar-15 14:00:00		10.35	18.92	83.84	88.35
12-Mar-15 15:00:00	12-Mar-15 16:00:00		0.00	0.00	0.00	4.95	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	12-Mar-15 15:00:00		10.35	18.92	83.84	88.31
12-Mar-15 16:00:00	12-Mar-15 17:00:00		0.00	0.00	0.00	4.88	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	12-Mar-15 16:00:00		10.35	18.92	83.84	88.29
12-Mar-15 17:00:00	12-Mar-15 18:00:00		0.00	0.00	0.00	4.93	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	12-Mar-15 17:00:00		10.35	18.92	83.84	88.31
12-Mar-15 18:00:00	12-Mar-15 19:00:00		0.00	0.00	0.00	5.00	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	12-Mar-15 18:00:00		10.35	18.92	83.84	88.33
12-Mar-15 19:00:00	12-Mar-15 20:00:00		0.00	0.00	0.00	5.06	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	12-Mar-15 19:00:00		10.35	18.92	83.84	88.35
12-Mar-15 20:00:00	12-Mar-15 21:00:00		0.00	0.00	0.00	5.11	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	12-Mar-15 20:00:00		10.35	18.92	83.84	88.37
12-Mar-15 21:00:00	12-Mar-15 22:00:00		0.00	0.00	0.00	5.15	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	12-Mar-15 21:00:00		10.35	18.92	83.84	88.38
12-Mar-15 22:00:00	12-Mar-15 23:00:00		0.00	0.00	0.00	5.20	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	12-Mar-15 22:00:00		10.35	18.92	83.84	88.39
12-Mar-15 23:00:00	13-Mar-15 00:00:00		0.00	0.00	0.00	5.24	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	12-Mar-15 23:00:00		10.35	18.92	83.84	88.41
13-Mar-15 00:00:00	13-Mar-15 01:00:00		0.00	0.00	0.00	5.31	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	13-Mar-15 00:00:00		10.35	18.92	83.84	88.43
13-Mar-15 01:00:00	13-Mar-15 02:00:00		0.00	0.00	0.00	5.45	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	13-Mar-15 01:00:00		10.35	18.92	83.84	88.48
13-Mar-15 02:00:00	13-Mar-15 03:00:00		0.00	0.00	0.00	5.59	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	13-Mar-15 02:00:00		10.35	18.92	83.84	88.52
13-Mar-15 03:00:00	13-Mar-15 04:00:00		0.00	0.00	0.00	5.73	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	13-Mar-15 03:00:00		10.35	18.92	83.84	88.57
13-Mar-15 04:00:00	13-Mar-15 05:00:00		0.00	0.00	0.00	5.77	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	13-Mar-15 04:00:00		10.35	18.92	83.84	88.58
13-Mar-15 05:00:00	13-Mar-15 06:00:00		0.00	0.00	0.00	5.81	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	13-Mar-15 05:00:00		10.35	18.92	83.84	88.60
13-Mar-15 06:00:00	13-Mar-15 07:00:00		0.00	0.00	0.00	5.92	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	13-Mar-15 06:00:00		10.35	18.92	83.84	88.63
13-Mar-15 07:00:00	13-Mar-15 08:00:00		0.00	0.00	0.00	6.02	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	13-Mar-15 07:00:00		10.35	18.92	83.84	88.66
13-Mar-15 08:00:00	13-Mar-15 09:00:00		0.00	0.00	0.00	6.14	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	13-Mar-15 08:00:00		10.35	18.92	83.84	88.71
13-Mar-15 09:00:00	13-Mar-15 10:00:00		0.00	0.00	0.00	6.17	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	13-Mar-15 09:00:00		10.35	18.92	83.84	88.72
13-Mar-15 10:00:00	13-Mar-15 11:00:00		0.00	0.00	0.00	6.17	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	13-Mar-15 10:00:00		10.35	18.92	83.84	88.71
13-Mar-15 11:00:00	13-Mar-15 12:00:00		0.00	0.00	0.00	6.16	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	13-Mar-15 11:00:00		10.35	18.92	83.84	88.71
13-Mar-15 12:00:00	13-Mar-15 13:00:00		0.00	0.00	0.00	6.06	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	13-Mar-15 12:00:00		10.35	18.92	83.84	88.68
13-Mar-15 13:00:00	13-Mar-15 14:00:00		0.00	0.00	0.00	6.07	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	13-Mar-15 13:00:00		10.35	18.92	83.84	88.68
13-Mar-15 14:00:00	13-Mar-15 15:00:00		0.00	0.00	0.00	6.14	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	13-Mar-15 14:00:00		10.35	18.92	83.84	88.71
13-Mar-15 15:00:00	13-Mar-15 16:00:00		0.00	0.00	0.00	6.22	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	13-Mar-15 15:00:00		10.35	18.92	83.84	88.73
13-Mar-15 16:00:00	13-Mar-15 17:00:00		0.00	0.00	0.00	6.32	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	13-Mar-15 16:00:00		10.35	18.92	83.84	88.76
13-Mar-15 17:00:00	13-Mar-15 18:00:00		0.00	0.00	0.00	6.35	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	13-Mar-15 17:00:00		10.35	18.92	83.84	88.77
13-Mar-15 18:00:00	13-Mar-15 19:00:00		0.00	0.00	0.00	6.35	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	13-Mar-15 18:00:00		10.35	18.92	83.84	88.77
13-Mar-15 19:00:00	13-Mar-15 20:00:00		0.00	0.00	0.00	6.34	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	13-Mar-15 19:00:00		10.35	18.92	83.84	88.77
13-Mar-15 20:00:00	13-Mar-15 21:00:00		0.00	0.00	0.00	6.30	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	13-Mar-15 20:00:00		10.35	18.92	83.84	88.76
13-Mar-15 21:00:00	13-Mar-15 22:00:00		0.00	0.00	0.00	6.30	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	13-Mar-15 21:00:00		10.35	18.92	83.84	88.76
13-Mar-15 22:00:00	13-Mar-15 23:00:00		0.00	0.00	0.00	6.32	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	13-Mar-15 22:00:00		10.35	18.92	83.84	88.76
13-Mar-15 23:00:00	14-Mar-15 00:00:00		0.00	0.00	0.00	6.35	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	13-Mar-15 23:00:00		10.35	18.92	83.84	88.77
14-Mar-15 00:00:00	14-Mar-15 01:00:00		0.00	0.00	0.00	6.40	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	14-Mar-15 00:00:00		10.35	18.92	83.84	88.79
14-Mar-15 01:00:00	14-Mar-15 02:00:00		0.00	0.00	0.00	6.41	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	14-Mar-15 01:00:00		10.35	18.92	83.84	88.79
14-Mar-15 02:00:00	14-Mar-15 03:00:00		0.00	0.00	0.00	6.40	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	14-Mar-15 02:00:00		10.35	18.92	83.84	88.79
14-Mar-15 03:00:00	14-Mar-15 04:00:00		0.00	0.00	0.00	6.38	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	14-Mar-15 03:00:00		10.35	18.92	83.84	88.78
14-Mar-15 04:00:00	14-Mar-15 05:00:00		0.00	0.00	0.00	6.33	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	14-Mar-15 04:00:00		10.35	18.92	83.84	88.77
14-Mar-15 05:00:00	14-Mar-15 06:00:00		0.00	0.00	0.00	6.32	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	14-Mar-15 05:00:00		10.35	18.92	83.84	88.76
14-Mar-15 06:00:00	14-Mar-15 07:00:00		41.86	0.00	0.00	6.33	2.1	329.7		13.80	0.00	0.00	2.09		10.35	18.92	83.84	86.68	14-Mar-15 06:00:00		24.15	18.92	83.84	88.77
14-Mar-15 07:00:00	14-Mar-15 08:00:00		0.00	0.00	0.00	6.35	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	14-Mar-15 07:00:00		10.35	18.92	83.84	88.77
14-Mar-15 08:00:00	14-Mar-15 09:00:00		0.11	0.00	0.00	6.33	2.1	329.7		0.04	0.00	0.00	2.09		10.35	18.92	83.84	86.68	14-Mar-15 08:00:00		10.39	18.92	83.84	88.77
14-Mar-15 09:00:00	14-Mar-15 10:00:00		0.00	0.00	0.00	6.13	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	14-Mar-15 09:00:00		10.35	18.92	83.84	88.70
14-Mar-15 10:00:00	14-Mar-15 11:00:00		0.00	0.00	0.00	5.93	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	14-Mar-15 10:00:00		10.35	18.92	83.84	88.63
14-Mar-15 11:00:00	14-Mar-15 12:00:00		32.71	0.00	0.00	5.72	2.1	329.7		10.78	0.00	0.00	1.89		10.35	18.92	83.84	86.68	14-Mar-15 11:00:00		21.13	18.92	83.84	88.57
14-Mar-15 12:00:00	14-Mar-15 13:00:00		136.50	0.00	0.00	5.57	2.1	329.7		45.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	14-Mar-15 12:00:00		55.35	18.92	83.84	88.52
14-Mar-15 13:00:00	14-Mar-15 14:00:00		238.14	0.00	0.00	5.40	2.1	329.7		78.51	0.00	0.00	1.78		10.35	18.92	83.84	86.68	14-Mar-15 13:00:00		88.86	18.92	83.84	88.46
14-Mar-15 14:00:00	14-Mar-15 15:00:00		584.93	0.00	0.00	5.17	2.1	329.7		192.85	0.00	0.00	1.71		10.35	18.92	83.84	86.68	14-Mar-15 14:00:00		203.20	18.92	83.84	88.39
14-Mar-15 15:00:00	14-Mar-15 16:00:00		517.16	0.00	0.00	4.95	2.1	329.7		170.51	0.00	0.00	1.63		10.35	18.92	83.84	86.68	14-Mar-15 15:00:00		180.86	18.92	83.84	88.31
14-Mar-15 16:00:00	14-Mar-15 17:00:00		615.62	0.00	0.00	4.76	2.1	329.7		202.97	0.00	0.00	1.57		10.35	18.92	83.84	86.68	14-Mar-15 16:00:00		213.32	18.92	83.84	88.25
14-Mar-15 17:00:00	14-Mar-15 18:00:00		916.08	0.00	0.00	4.68	2.1	329.7		302.03	0.00	0.00	1.54		10.35	18.92	83.84	86.68	14-Mar-15 17:00:00		312.38	18.92	83.84	88.22
14-Mar-15 18:00:00	14-Mar-15 19:00:00		1,214.90	0.00	0.00	4.60	2.1	329.7		400.55	0.00	0.00	1.52		10.35	18.92	83.84	86.68	14-Mar-15 18:00:00		410.90	18.92	83.84	88.20
14-Mar-15 19:00:00	14-Mar-15 20:00:00		1,251.17	0.00	0.00	4.53	2.1	329.7		412.51	0.00	0.00	1.49		10.35	18.92	83.84	86.68	14-Mar-15 19:00:00		422.86	18.92	83.84	88.17
14-Mar-15 20:00:00	14-Mar-15 21:00:00		1,400.20	0.00	0.00	4.37	2.1	329.7		461.65	0.00	0.00	1.44		10.35	18.92	83.84	86.68	14-Mar-15 20:00:00		472.00	18.92	83.84	88.12
14-Mar-15 21:00:00	14-Mar-15 22:00:00		1,100.24	0.00	0.00	4.35	2.1	329.7		362.75	0.00	0.00	1.43		10.35	18.92	83.84	86.68	14-Mar-15 21:00:00		373.10	18.92	83.84	88.11
14-Mar-15 22:00:00	14-Mar-15 23:00:00		954.90	0.00	0.00	4.44	2.1	329.7		314.83	0.00	0.00	1.46		10.35	18.92	83.84	86.68	14-Mar-15 22:00:00		325.18	18.92	83.84	88.14
14-Mar-15 23:00:00	15-Mar-15 00:00:00		1,261.45	0.00	0.00	4.53	2.1	329.7		415.90	0.00	0.00	1.49		10.35	18.92	83.84	86.68	14-Mar-15 23:00:00		426.25	18.92	83.84	88.17
15-Mar-15 00:00:00	15-Mar-15 01:00:00		1,311.04	0.00	0.00	4.60	2.1	329.7		432.25	0.00	0.00	1.52		10.35	18.92	83.84	86.68	15-Mar-15 00:00:00		442.60	18.92	83.84	88.20
15-Mar-15 01:00:00	15-Mar-15 02:00:00		1,216.92	0.00	0.00	19.50	2.1	329.7		401.22	0.00	0.00	6.43		10.35	18.92	83.84	86.68	15-Mar-15 01:00:00		411.57	18.92	83.84	93.11
15-Mar-15 02:00:00	15-Mar-15 03:00:00		1,192.45	0.00	0.00	22.22	2.1	329.7		393.15	0.00	0.00	7.33		10.35	18.92	83.84	86.68	15-Mar-15 02:00:00		403.50	18.92	83.84	94.01
15-Mar-15 03:00:00	15-Mar-15 04:00:00		1,194.70	0.00	0.00	4.55	2.1	329.7		393.89	0.00	0.00	1.50		10.35	18.92	83.84	86.68	15-Mar-15 03:00:00		404.24	18.92	83.84	88.18
15-Mar-15 04:00:00	15-Mar-15 05:00:00		1,080.17	0.00	0.00	4.59	2.1	329.7		356.13	0.00	0.00	1.51		10.35	18.92	83.84	86.68	15-Mar-15 04:00:00		366.48	18.92	83.84	88.19
15-Mar-15 05:00:00	15-Mar-15 06:00:00		414.66	0.00	0.00	4.63	2.1	329.7		136.71	0.00	0.00	1.53		10.35	18.92	83.84	86.68	15-Mar-15 05:00:00		147.06	18.92	83.84	88.21
15-Mar-15 06:00:00	15-Mar-15 07:00:00		319.65	0.00	0.00	4.60	2.1	329.7		105.39	0.00	0.00	1.52		10.35	18.92	83.84	86.68	15-Mar-15 06:00:00		115.74	18.92	83.84	88.20
15-Mar-15 07:00:00	15-Mar-15 08:00:00		416.21	0.00	0.00	4.75	2.1	329.7		137.22	0.00	0.00	1.57		10.35	18.92	83.84	86.68	15-Mar-15 07:00:00		147.57	18.92	83.84	88.25
15-Mar-15 08:00:00	15-Mar-15 09:00:00		440.98	0.00	0.00	4.90	2.1	329.7		145.39	0.00	0.00	1.62		10.35	18.92	83.84	86.68	15-Mar-15 08:00:00		155.74	18.92	83.84	88.30
15-Mar-15 09:00:00	15-Mar-15 10:00:00		500.91	0.00	0.00	5.06	2.1	329.7		165.15	0.00	0.00	1.67		10.35	18.92	83.84	86.68	15-Mar-15 09:00:00		175.50	18.92	83.84	88.35
15-Mar-15 10:00:00	15-Mar-15 11:00:00		775.37

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
17-Mar-15 08:00:00	17-Mar-15 09:00:00		5.43	0.00	49.99	6.89	2.1	329.7		1.79	0.00	16.48	2.27		10.35	18.92	83.84	86.68	17-Mar-15 08:00:00		**12.14**	**18.92**	**100.32**	**88.95**
17-Mar-15 09:00:00	17-Mar-15 10:00:00		0.00	0.00	0.00	8.73	2.1	329.7		0.00	0.00	0.00	2.88		10.35	18.92	83.84	86.68	17-Mar-15 09:00:00		**10.35**	**18.92**	**83.84**	**89.56**
17-Mar-15 10:00:00	17-Mar-15 11:00:00		0.00	0.00	0.00	6.79	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	17-Mar-15 10:00:00		**10.35**	**18.92**	**83.84**	**88.92**
17-Mar-15 11:00:00	17-Mar-15 12:00:00		0.00	0.00	0.00	6.67	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	17-Mar-15 11:00:00		**10.35**	**18.92**	**83.84**	**88.88**
17-Mar-15 12:00:00	17-Mar-15 13:00:00		4.92	0.00	99.55	6.55	2.1	329.7		1.62	0.00	32.82	2.16		10.35	18.92	83.84	86.68	17-Mar-15 12:00:00		**11.97**	**18.92**	**116.66**	**88.84**
17-Mar-15 13:00:00	17-Mar-15 14:00:00		0.00	0.00	6.88	6.29	2.1	329.7		0.00	0.00	2.27	2.07		10.35	18.92	83.84	86.68	17-Mar-15 13:00:00		**10.35**	**18.92**	**86.11**	**88.75**
17-Mar-15 14:00:00	17-Mar-15 15:00:00		0.00	0.00	0.00	7.45	2.1	329.7		0.00	0.00	0.00	2.46		10.35	18.92	83.84	86.68	17-Mar-15 14:00:00		**10.35**	**18.92**	**83.84**	**89.14**
17-Mar-15 15:00:00	17-Mar-15 16:00:00		0.00	0.00	0.00	5.33	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	17-Mar-15 15:00:00		**10.35**	**18.92**	**83.84**	**88.44**
17-Mar-15 16:00:00	17-Mar-15 17:00:00		0.00	0.00	30.81	5.03	2.1	329.7		0.00	0.00	10.16	1.66		10.35	18.92	83.84	86.68	17-Mar-15 16:00:00		**10.35**	**18.92**	**94.00**	**88.34**
17-Mar-15 17:00:00	17-Mar-15 18:00:00		0.00	0.00	0.00	4.73	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	17-Mar-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.24**
17-Mar-15 18:00:00	17-Mar-15 19:00:00		0.00	0.00	0.00	4.44	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	17-Mar-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.14**
17-Mar-15 19:00:00	17-Mar-15 20:00:00		0.00	0.00	0.00	4.44	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	17-Mar-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.14**
17-Mar-15 20:00:00	17-Mar-15 21:00:00		0.00	0.00	0.00	4.76	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	17-Mar-15 20:00:00		**10.35**	**18.92**	**83.84**	**88.25**
17-Mar-15 21:00:00	17-Mar-15 22:00:00		0.00	0.00	0.00	5.41	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	17-Mar-15 21:00:00		**10.35**	**18.92**	**83.84**	**88.46**
17-Mar-15 22:00:00	17-Mar-15 23:00:00		5.08	0.00	12.82	5.21	2.1	329.7		1.67	0.00	4.23	1.72		10.35	18.92	83.84	86.68	17-Mar-15 22:00:00		**12.02**	**18.92**	**88.07**	**88.40**
17-Mar-15 23:00:00	18-Mar-15 00:00:00		4.60	0.00	0.00	5.55	2.1	329.7		1.52	0.00	0.00	1.83		10.35	18.92	83.84	86.68	17-Mar-15 23:00:00		**11.87**	**18.92**	**83.84**	**88.51**
18-Mar-15 00:00:00	18-Mar-15 01:00:00		5.73	0.00	0.00	5.89	2.1	329.7		1.89	0.00	0.00	1.94		10.35	18.92	83.84	86.68	18-Mar-15 00:00:00		**12.24**	**18.92**	**83.84**	**88.62**
18-Mar-15 01:00:00	18-Mar-15 02:00:00		0.79	0.00	0.00	115.01	2.1	329.7		0.26	0.00	0.00	37.92		10.35	18.92	83.84	86.68	18-Mar-15 01:00:00		**10.61**	**18.92**	**83.84**	**124.60**
18-Mar-15 02:00:00	18-Mar-15 03:00:00		0.91	0.00	0.00	6.09	2.1	329.7		0.30	0.00	0.00	2.01		10.35	18.92	83.84	86.68	18-Mar-15 02:00:00		**10.65**	**18.92**	**83.84**	**88.69**
18-Mar-15 03:00:00	18-Mar-15 04:00:00		0.32	0.00	0.00	6.15	2.1	329.7		0.10	0.00	0.00	2.03		10.35	18.92	83.84	86.68	18-Mar-15 03:00:00		**10.45**	**18.92**	**83.84**	**88.71**
18-Mar-15 04:00:00	18-Mar-15 05:00:00		0.22	0.00	0.00	6.20	2.1	329.7		0.07	0.00	0.00	2.04		10.35	18.92	83.84	86.68	18-Mar-15 04:00:00		**10.42**	**18.92**	**83.84**	**88.72**
18-Mar-15 05:00:00	18-Mar-15 06:00:00		0.18	0.00	0.00	6.24	2.1	329.7		0.06	0.00	0.00	2.06		10.35	18.92	83.84	86.68	18-Mar-15 05:00:00		**10.41**	**18.92**	**83.84**	**88.74**
18-Mar-15 06:00:00	18-Mar-15 07:00:00		1.16	0.00	0.00	6.26	2.1	329.7		0.38	0.00	0.00	2.06		10.35	18.92	83.84	86.68	18-Mar-15 06:00:00		**10.73**	**18.92**	**83.84**	**88.74**
18-Mar-15 07:00:00	18-Mar-15 08:00:00		0.31	0.00	0.00	6.31	2.1	329.7		0.10	0.00	0.00	2.08		10.35	18.92	83.84	86.68	18-Mar-15 07:00:00		**10.45**	**18.92**	**83.84**	**88.76**
18-Mar-15 08:00:00	18-Mar-15 09:00:00		0.30	0.00	0.00	6.35	2.1	329.7		0.10	0.00	0.00	2.09		10.35	18.92	83.84	86.68	18-Mar-15 08:00:00		**10.45**	**18.92**	**83.84**	**88.77**
18-Mar-15 09:00:00	18-Mar-15 10:00:00		1.10	0.00	0.00	6.39	2.1	329.7		0.36	0.00	0.00	2.11		10.35	18.92	83.84	86.68	18-Mar-15 09:00:00		**10.71**	**18.92**	**83.84**	**88.79**
18-Mar-15 10:00:00	18-Mar-15 11:00:00		6.96	0.00	0.00	8.75	2.1	329.7		2.30	0.00	0.00	2.88		10.35	18.92	83.84	86.68	18-Mar-15 10:00:00		**12.65**	**18.92**	**83.84**	**89.56**
18-Mar-15 11:00:00	18-Mar-15 12:00:00		6.74	0.00	0.00	6.11	2.1	329.7		2.22	0.00	0.00	2.01		10.35	18.92	83.84	86.68	18-Mar-15 11:00:00		**12.57**	**18.92**	**83.84**	**88.69**
18-Mar-15 12:00:00	18-Mar-15 13:00:00		5.07	53.71	0.00	5.91	2.1	329.7		1.67	17.71	0.00	1.95		10.35	18.92	83.84	86.68	18-Mar-15 12:00:00		**12.02**	**36.63**	**83.84**	**88.63**
18-Mar-15 13:00:00	18-Mar-15 14:00:00		2.41	0.00	0.00	14.08	2.1	329.7		0.80	0.00	0.00	4.64		10.35	18.92	83.84	86.68	18-Mar-15 13:00:00		**11.15**	**18.92**	**83.84**	**91.32**
18-Mar-15 14:00:00	18-Mar-15 15:00:00		0.88	0.00	0.00	5.56	2.1	329.7		0.29	0.00	0.00	1.83		10.35	18.92	83.84	86.68	18-Mar-15 14:00:00		**10.64**	**18.92**	**83.84**	**88.51**
18-Mar-15 15:00:00	18-Mar-15 16:00:00		0.60	0.00	0.00	5.35	2.1	329.7		0.20	0.00	0.00	1.76		10.35	18.92	83.84	86.68	18-Mar-15 15:00:00		**10.55**	**18.92**	**83.84**	**88.44**
18-Mar-15 16:00:00	18-Mar-15 17:00:00		3.01	0.00	0.00	5.45	2.1	329.7		0.99	0.00	0.00	1.80		10.35	18.92	83.84	86.68	18-Mar-15 16:00:00		**11.34**	**18.92**	**83.84**	**88.48**
18-Mar-15 17:00:00	18-Mar-15 18:00:00		0.00	0.00	0.00	5.07	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	18-Mar-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.35**
18-Mar-15 18:00:00	18-Mar-15 19:00:00		0.00	0.00	0.00	5.17	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	18-Mar-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.38**
18-Mar-15 19:00:00	18-Mar-15 20:00:00		0.00	0.00	0.00	15.66	2.1	329.7		0.00	0.00	0.00	5.16		10.35	18.92	83.84	86.68	18-Mar-15 19:00:00		**10.35**	**18.92**	**83.84**	**91.84**
18-Mar-15 20:00:00	18-Mar-15 21:00:00		0.00	0.00	0.00	5.30	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	18-Mar-15 20:00:00		**10.35**	**18.92**	**83.84**	**88.43**
18-Mar-15 21:00:00	18-Mar-15 22:00:00		0.00	0.00	0.00	5.44	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	18-Mar-15 21:00:00		**10.35**	**18.92**	**83.84**	**88.47**
18-Mar-15 22:00:00	18-Mar-15 23:00:00		0.00	0.00	0.00	5.58	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	18-Mar-15 22:00:00		**10.35**	**18.92**	**83.84**	**88.52**
18-Mar-15 23:00:00	19-Mar-15 00:00:00		0.00	0.00	0.00	7.12	2.1	329.7		0.00	0.00	0.00	2.35		10.35	18.92	83.84	86.68	18-Mar-15 23:00:00		**10.35**	**18.92**	**83.84**	**89.03**
19-Mar-15 00:00:00	19-Mar-15 01:00:00		0.21	0.00	0.00	5.76	2.1	329.7		0.07	0.00	0.00	1.90		10.35	18.92	83.84	86.68	19-Mar-15 00:00:00		**10.42**	**18.92**	**83.84**	**88.58**
19-Mar-15 01:00:00	19-Mar-15 02:00:00		0.00	0.00	0.00	5.82	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	19-Mar-15 01:00:00		**10.35**	**18.92**	**83.84**	**88.60**
19-Mar-15 02:00:00	19-Mar-15 03:00:00		0.00	0.00	0.00	6.25	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	19-Mar-15 02:00:00		**10.35**	**18.92**	**83.84**	**88.74**
19-Mar-15 03:00:00	19-Mar-15 04:00:00		0.00	0.00	0.00	6.15	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	19-Mar-15 03:00:00		**10.35**	**18.92**	**83.84**	**88.71**
19-Mar-15 04:00:00	19-Mar-15 05:00:00		0.02	0.00	0.00	6.49	2.1	329.7		0.01	0.00	0.00	2.14		10.35	18.92	83.84	86.68	19-Mar-15 04:00:00		**10.36**	**18.92**	**83.84**	**88.82**
19-Mar-15 05:00:00	19-Mar-15 06:00:00		0.72	0.00	0.00	8.37	2.1	329.7		0.24	0.00	0.00	2.76		10.35	18.92	83.84	86.68	19-Mar-15 05:00:00		**10.59**	**18.92**	**83.84**	**89.44**
19-Mar-15 06:00:00	19-Mar-15 07:00:00		2.87	0.00	0.00	6.79	2.1	329.7		0.95	0.00	0.00	2.24		10.35	18.92	83.84	86.68	19-Mar-15 06:00:00		**11.30**	**18.92**	**83.84**	**88.92**
19-Mar-15 07:00:00	19-Mar-15 08:00:00		12.29	0.00	0.00	27.63	2.1	329.7		4.05	0.00	0.00	9.11		10.35	18.92	83.84	86.68	19-Mar-15 07:00:00		**14.40**	**18.92**	**83.84**	**95.79**
19-Mar-15 08:00:00	19-Mar-15 09:00:00		10.66	0.00	0.00	6.70	2.1	329.7		3.51	0.00	0.00	2.21		10.35	18.92	83.84	86.68	19-Mar-15 08:00:00		**13.86**	**18.92**	**83.84**	**88.89**
19-Mar-15 09:00:00	19-Mar-15 10:00:00		9.15	0.00	0.00	6.59	2.1	329.7		3.02	0.00	0.00	2.17		10.35	18.92	83.84	86.68	19-Mar-15 09:00:00		**13.37**	**18.92**	**83.84**	**88.85**
19-Mar-15 10:00:00	19-Mar-15 11:00:00		0.00	0.00	0.00	6.47	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	19-Mar-15 10:00:00		**10.35**	**18.92**	**83.84**	**88.81**
19-Mar-15 11:00:00	19-Mar-15 12:00:00		0.00	0.00	0.00	68.60	2.1	329.7		0.00	0.00	0.00	22.62		10.35	18.92	83.84	86.68	19-Mar-15 11:00:00		**10.35**	**18.92**	**83.84**	**109.30**
19-Mar-15 12:00:00	19-Mar-15 13:00:00		0.00	0.00	0.00	6.23	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	19-Mar-15 12:00:00		**10.35**	**18.92**	**83.84**	**88.73**
19-Mar-15 13:00:00	19-Mar-15 14:00:00		0.00	0.00	0.00	6.13	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	19-Mar-15 13:00:00		**10.35**	**18.92**	**83.84**	**88.70**
19-Mar-15 14:00:00	19-Mar-15 15:00:00		0.00	0.00	0.00	16.65	2.1	329.7		0.00	0.00	0.00	5.49		10.35	18.92	83.84	86.68	19-Mar-15 14:00:00		**10.35**	**18.92**	**83.84**	**92.17**
19-Mar-15 15:00:00	19-Mar-15 16:00:00		0.00	0.00	0.00	5.90	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	19-Mar-15 15:00:00		**10.35**	**18.92**	**83.84**	**88.62**
19-Mar-15 16:00:00	19-Mar-15 17:00:00		0.00	7.36	0.00	5.92	2.1	329.7		0.00	2.43	0.00	1.95		10.35	18.92	83.84	86.68	19-Mar-15 16:00:00		**10.35**	**21.35**	**83.84**	**88.63**
19-Mar-15 17:00:00	19-Mar-15 18:00:00		0.01	72.94	0.00	5.94	2.1	329.7		0.00	24.05	0.00	1.96		10.35	18.92	83.84	86.68	19-Mar-15 17:00:00		**10.35**	**42.97**	**83.84**	**88.64**
19-Mar-15 18:00:00	19-Mar-15 19:00:00		0.64	86.58	0.00	5.99	2.1	329.7		0.21	28.55	0.00	1.97		10.35	18.92	83.84	86.68	19-Mar-15 18:00:00		**10.56**	**47.47**	**83.84**	**88.65**
19-Mar-15 19:00:00	19-Mar-15 20:00:00		3.23	90.73	0.00	6.07	2.1	329.7		1.07	29.91	0.00	2.00		10.35	18.92	83.84	86.68	19-Mar-15 19:00:00		**11.42**	**48.83**	**83.84**	**88.68**
19-Mar-15 20:00:00	19-Mar-15 21:00:00		2.89	122.08	0.00	56.41	2.1	329.7		0.95	40.25	0.00	18.60		10.35	18.92	83.84	86.68	19-Mar-15 20:00:00		**11.30**	**59.17**	**83.84**	**105.28**
19-Mar-15 21:00:00	19-Mar-15 22:00:00		4.96	93.40	0.00	6.25	2.1	329.7		1.64	30.79	0.00	2.06		10.35	18.92	83.84	86.68	19-Mar-15 21:00:00		**11.99**	**49.71**	**83.84**	**88.74**
19-Mar-15 22:00:00	19-Mar-15 23:00:00		2.21	38.35	0.00	6.19	2.1	329.7		0.73	12.64	0.00	2.04		10.35	18.92	83.84	86.68	19-Mar-15 22:00:00		**11.08**	**31.56**	**83.84**	**88.72**
19-Mar-15 23:00:00	20-Mar-15 00:00:00		2.79	38.56	0.00	116.16	2.1	329.7		0.92	12.71	0.00	38.30		10.35	18.92	83.84	86.68	19-Mar-15 23:00:00		**11.27**	**31.63**	**83.84**	**124.98**
20-Mar-15 00:00:00	20-Mar-15 01:00:00		3.79	79.80	0.00	6.38	2.1	329.7		1.25	26.31	0.00	2.11		10.35	18.92	83.84	86.68	20-Mar-15 00:00:00		**11.60**	**45.23**	**83.84**	**88.79**
20-Mar-15 01:00:00	20-Mar-15 02:00:00		6.12	199.85	0.00	6.33	2.1	329.7		2.02	65.89	0.00	2.09		10.35	18.92	83.84	86.68	20-Mar-15 01:00:00		**12.37**	**84.81**	**83.84**	**88.77**
20-Mar-15 02:00:00	20-Mar-15 03:00:00		9.64	216.47	0.00	6.81	2.1	329.7		3.18	71.37	0.00	2.25		10.35	18.92	83.84	86.68	20-Mar-15 02:00:00		**13.53**	**90.29**	**83.84**	**88.93**
20-Mar-15 03:00:00	20-Mar-15 04:00:00		15.56	148.68	0.00	6.46	2.1	329.7		5.13	49.02	0.00	2.13		10.35	18.92	83.84	86.68	20-Mar-15 03:00:00		**15.48**	**67.94**	**83.84**	**88.81**
20-Mar-15 04:00:00	20-Mar-15 05:00:00		13.70	93.30	0.00	6.40	2.1	329.7		4.52	30.76	0.00	2.11		10.35	18.92	83.84	86.68	20-Mar-15 04:00:00		**14.87**	**49.68**	**83.84**	**88.79**
20-Mar-15 05:00:00	20-Mar-15 06:00:00		13.05	197.29	0.00	92.63	2.1	329.7		4.30	65.05	0.00	30.54		10.35	18.92	83.84	86.68	20-Mar-15 05:00:00		**14.65**	**83.97**	**83.84**	**117.22**
20-Mar-15 06:00:00	20-Mar-15 07:00:00		0.00	139.68	0.00	6.20	2.1	329.7		0.00	46.05	0.00	2.04		10.35	18.92	83.84	86.68	20-Mar-15 06:00:00		**10.35**	**64.97**	**83.84**	**88.72**
20-Mar-15 07:00:00	20-Mar-15 08:00:00		0.00	103.42	0.00	6.03	2.1	329.7		0.00	34.10	0.00	1.99		10.35	18.92	83.84	86.68	20-Mar-15 07:00:00		**10.35**	**53.02**	**83.84**	**88.67**
20-Mar-15 08:00:00	20-Mar-15 09:00:00		0.00	108.33	0.00	27.06	2.1	329.7		0.00	35.72	0.00	8.92		10.35	18.92	83.84	86.68	20-Mar-15 08:00:00		**10.35**	**54.64**	**83.84**	**95.60**
20-Mar-15 09:00:00	20-Mar-15 10:00:00		0.00	78.85	0.00	5.91	2.1	329.7		0.00	26.00	0.00	1.95		10.35	18.92	83.84	86.68	20-Mar-15 09:00:00		**10.35**	**44.92**	**83.84**	**88.63**
20-Mar-15 10:00:00	20-Mar-15 11:00:00		0.00	238.73	0.00	5.84	2.1	329.7		0.00	78.71	0.00	1.93		10.35	18.92	83.84	86.68	20-Mar-15 10:00:00		**10.35**	**97.63**	**83.84**	**88.61**
20-Mar-15 11:00:00	20-Mar-15 12:00:00		0.00	619.61	0.00	5.82	2.1	329.7		0.00	204.29	0.00	1.92		10.35	18.92	83.84	86.68	20-Mar-15 11:00:00		**10.35**	**223.21**	**83.84**	**88.60**
20-Mar-15 12:00:00	20-Mar-15 13:00:00		0.00	619.61	0.00	5.82	2.1	329.7		0.00	204.29	0.00	1.92		10.35	18.92	83.84	86.68	20-Mar-15 12:00:00		**10.35**	**223.21**	**83.84**	**88.60**
20-Mar-15 13:00:00	20-Mar-15 14:00:00		0.00	619.61	0.00	5.82	2.1	329.7		0.00	204.29	0.00	1.92		10.35	18.92	83.84	86.68	20-Mar-15 13:00:00		**10.35**	**223.21**	**83.84**	**88.60**
20-Mar-15 14:00:00	20-Mar-15 15:00:00		0.00	619.61	0.00	5.82	2.1	329.7		0.00	204.29	0.00	1.92		10.35	18.92	83.84	86.68	20-Mar-15 14:00:00		**10.35**	**223.21**	**83.84**	**88.60**
20-Mar-15 15:00:00	20-Mar-15 16:00:00		0.00	619.61	0.00	5.82	2.1	329.7		0.00	204.29	0.00	1.92		10.35	18.92	83.84	86.68	20-Mar-15 15:00:00		**10.35**	**223.21**	**83.84**	**88.60**
20-Mar-15 16:00:00	20-Mar-15 17:00:00		0.00	619.61	0.00	5.82	2.1	329.7		0.00	204.29	0.00	1.92		10.35	18.92	83.84	86.68	20-Mar-15 16:00:00		**10.35**	**223.21**	**83.84**	**88.60**
20-Mar-15 17:00:00	20-Mar-15 18:00:00		0.00	619.61	0.00	5.82	2.1	329.7		0.00	204.29	0.00	1.92		10.35	18.92	83.84	86.68	20-Mar-15 17:00:00		**10.35**	**223.21**	**83.84**	**88.60**
20-Mar-15 18:00:00	20-Mar-15 19:00:00		0.00	619.61	0.00	5.82	2.1	329.7		0.00	204.29	0.00	1.92		10.35	18.92	83.84	86.68	20-Mar-15 18:00:00		**10.35**	**223.21**	**83.84**	**88.60**
20-Mar-15 19:00:00	20-Mar-15 20:00:00		0.00	0.00	0.00	0.00	2.1	329.7		0.00	0.00	0.00	0.00		10.35	18.92	83.84	86.68	20-Mar-15 19:00:00		**10.35**	**18.92**	**83.84**	**86.68**
20-Mar-15 20:00:00	20-Mar-15 21:00:00		0.00	0.00	0.00	0.00	2.1	329.7		0.00	0.00	0.00	0.00		10.35	18.92	83.84	86.68	20-Mar-15 20:00:00		**10.35**	**18.92**	**83.84**	**86.68**
20-Mar-15 21:00:00	20-Mar-15 22:00:00		0.00	0.00	0.00	0.00	2.1	329.7		0.00	0.00	0.00	0.00		10.35	18.92	83.84	86.68	20-Mar-15 21:00:00		**10.35**	**18.92**	**83.84**	**86.68**
20-Mar-15 22:00:00	20-Mar-15 23:00:00		0.00	0.00	0.00	0.00	2.1	329.7		0.00	0.00	0.00	0.00		10.35	18.92	83.84	86.68	20-Mar-15 22:00:00		**10.35**	**18.92**	**83.84**	**86.68**
20-Mar-15 23:00:00	21-Mar-15 00:00:00		0.00	0.00	0.00	0.00	2.1	329.7		0.00	0.00	0.00	0.00		10.35	18.92	83.84	86.68	20-Mar-15 23:00:00		**10.35**	**18.92**	**83.84**	**86.68**
21-Mar-15 00:00:00	21-Mar-15 01:00:00		0.00	0.00	0.00	0.00	2.1	329.7		0.00	0.00	0.00	0.00		10.35	18.92	83.84	86.68	21-Mar-15 00:00:00		**10.35**	**18.92**	**83.84**	**86.68**
21-Mar-15 01:00:00	21-Mar-15 02:00:00		0.00	0.00	0.00	0.00	2.1	329.7		0.00	0.00	0.00	0.00		10.35	18.92	83.84	86.68	21-Mar-15 01:00:00		**10.35**	**18.92**	**83.84**	**86.68**
21-Mar-15 02:00:00	21-Mar-15 03:00:00		0.00	0.00	0.00	0.00	2.1	329.7		0.00	0.00	0.00	0.00		10.35	18.92	83.84	86.68	21-Mar-15 02:00:00		**10.35**	**18.92**	**83.84**	**86.68**
21-Mar-15 03:00:00	21-Mar-15 04:00:00		0.00	0.00	0.00	0.00	2.1	329.7		0.00	0.00	0.00	0.00		10.35	18.92	83.84	86.68	21-Mar-15 03:00:00		**10.35**	**18.92**	**83.84**	**86.68**
21-Mar-15 04:00:00	21-Mar-15 05:00:00		0.00	0.00	0.00	0.00	2.1	329.7		0.00	0.00	0.00	0.00		10.35	18.92	83.84	86.68	21-Mar-15 04:00:00		**10.35**	**18.92**	**83.84**	**86.68**
21-Mar-15 05:00:00	21-Mar-15 06:00:00		0.00	0.00	0.00	0.00

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
23-Mar-15 03:00:00	23-Mar-15 04:00:00		0.00	646.10	0.00	5.20	2.1	329.7		0.00	213.02	0.00	1.71		10.35	18.92	83.84	86.68	23-Mar-15 03:00:00		**10.35**	**231.94**	**83.84**	**88.39**
23-Mar-15 04:00:00	23-Mar-15 05:00:00		0.00	629.29	0.00	5.26	2.1	329.7		0.00	207.48	0.00	1.74		10.35	18.92	83.84	86.68	23-Mar-15 04:00:00		**10.35**	**226.40**	**83.84**	**88.42**
23-Mar-15 05:00:00	23-Mar-15 06:00:00		1.71	539.33	0.00	5.30	2.1	329.7		0.56	177.82	0.00	1.75		10.35	18.92	83.84	86.68	23-Mar-15 05:00:00		**10.91**	**196.74**	**83.84**	**88.43**
23-Mar-15 06:00:00	23-Mar-15 07:00:00		0.00	559.28	0.00	5.39	2.1	329.7		0.00	184.40	0.00	1.78		10.35	18.92	83.84	86.68	23-Mar-15 06:00:00		**10.35**	**203.32**	**83.84**	**88.46**
23-Mar-15 07:00:00	23-Mar-15 08:00:00		0.00	509.26	0.00	5.48	2.1	329.7		0.00	167.90	0.00	1.81		10.35	18.92	83.84	86.68	23-Mar-15 07:00:00		**10.35**	**186.82**	**83.84**	**88.49**
23-Mar-15 08:00:00	23-Mar-15 09:00:00		0.00	474.67	0.00	5.56	2.1	329.7		0.00	156.50	0.00	1.83		10.35	18.92	83.84	86.68	23-Mar-15 08:00:00		**10.35**	**175.42**	**83.84**	**88.51**
23-Mar-15 09:00:00	23-Mar-15 10:00:00		0.00	416.88	0.00	5.63	2.1	329.7		0.00	137.45	0.00	1.86		10.35	18.92	83.84	86.68	23-Mar-15 09:00:00		**10.35**	**156.37**	**83.84**	**88.54**
23-Mar-15 10:00:00	23-Mar-15 11:00:00		0.00	318.43	0.00	5.70	2.1	329.7		0.00	104.99	0.00	1.88		10.35	18.92	83.84	86.68	23-Mar-15 10:00:00		**10.35**	**123.91**	**83.84**	**88.56**
23-Mar-15 11:00:00	23-Mar-15 12:00:00		0.00	196.88	0.00	5.76	2.1	329.7		0.00	64.91	0.00	1.90		10.35	18.92	83.84	86.68	23-Mar-15 11:00:00		**10.35**	**83.83**	**83.84**	**88.58**
23-Mar-15 12:00:00	23-Mar-15 13:00:00		0.00	194.19	0.00	76.64	2.1	329.7		0.00	64.03	0.00	25.27		10.35	18.92	83.84	86.68	23-Mar-15 12:00:00		**10.35**	**82.95**	**83.84**	**111.95**
23-Mar-15 13:00:00	23-Mar-15 14:00:00		0.06	169.80	0.00	5.49	2.1	329.7		0.02	55.98	0.00	1.81		10.35	18.92	83.84	86.68	23-Mar-15 13:00:00		**10.37**	**74.90**	**83.84**	**88.49**
23-Mar-15 14:00:00	23-Mar-15 15:00:00		0.41	184.14	0.00	5.24	2.1	329.7		0.13	60.71	0.00	1.73		10.35	18.92	83.84	86.68	23-Mar-15 14:00:00		**10.48**	**79.63**	**83.84**	**88.41**
23-Mar-15 15:00:00	23-Mar-15 16:00:00		0.79	251.51	0.00	68.78	2.1	329.7		0.26	82.92	0.00	22.68		10.35	18.92	83.84	86.68	23-Mar-15 15:00:00		**10.61**	**101.84**	**83.84**	**109.36**
23-Mar-15 16:00:00	23-Mar-15 17:00:00		1.17	265.68	0.00	4.99	2.1	329.7		0.39	87.59	0.00	1.65		10.35	18.92	83.84	86.68	23-Mar-15 16:00:00		**10.74**	**106.51**	**83.84**	**88.33**
23-Mar-15 17:00:00	23-Mar-15 18:00:00		0.45	275.96	0.00	4.85	2.1	329.7		0.15	90.99	0.00	1.60		10.35	18.92	83.84	86.68	23-Mar-15 17:00:00		**10.50**	**109.91**	**83.84**	**88.28**
23-Mar-15 18:00:00	23-Mar-15 19:00:00		0.00	323.75	0.00	19.12	2.1	329.7		0.00	106.74	0.00	6.30		10.35	18.92	83.84	86.68	23-Mar-15 18:00:00		**10.35**	**125.66**	**83.84**	**92.98**
23-Mar-15 19:00:00	23-Mar-15 20:00:00		0.00	324.51	0.00	4.94	2.1	329.7		0.00	106.99	0.00	1.63		10.35	18.92	83.84	86.68	23-Mar-15 19:00:00		**10.35**	**125.91**	**83.84**	**88.31**
23-Mar-15 20:00:00	23-Mar-15 21:00:00		0.00	281.35	0.00	5.18	2.1	329.7		0.00	92.76	0.00	1.71		10.35	18.92	83.84	86.68	23-Mar-15 20:00:00		**10.35**	**111.68**	**83.84**	**88.39**
23-Mar-15 21:00:00	23-Mar-15 22:00:00		0.00	326.28	0.00	94.86	2.1	329.7		0.00	107.57	0.00	31.28		10.35	18.92	83.84	86.68	23-Mar-15 21:00:00		**10.35**	**126.49**	**83.84**	**117.96**
23-Mar-15 22:00:00	23-Mar-15 23:00:00		0.00	410.19	0.00	5.50	2.1	329.7		0.00	135.24	0.00	1.81		10.35	18.92	83.84	86.68	23-Mar-15 22:00:00		**10.35**	**154.16**	**83.84**	**88.49**
23-Mar-15 23:00:00	24-Mar-15 00:00:00		0.36	366.82	0.00	5.76	2.1	329.7		0.12	120.94	0.00	1.90		10.35	18.92	83.84	86.68	23-Mar-15 23:00:00		**10.47**	**139.86**	**83.84**	**88.58**
24-Mar-15 00:00:00	24-Mar-15 01:00:00		0.34	303.43	0.00	6.02	2.1	329.7		0.11	100.04	0.00	1.99		10.35	18.92	83.84	86.68	24-Mar-15 00:00:00		**10.46**	**118.96**	**83.84**	**88.67**
24-Mar-15 01:00:00	24-Mar-15 02:00:00		0.62	293.35	0.00	6.25	2.1	329.7		0.20	96.72	0.00	2.06		10.35	18.92	83.84	86.68	24-Mar-15 01:00:00		**10.55**	**115.64**	**83.84**	**88.74**
24-Mar-15 02:00:00	24-Mar-15 03:00:00		0.82	302.26	0.00	6.30	2.1	329.7		0.27	99.65	0.00	2.08		10.35	18.92	83.84	86.68	24-Mar-15 02:00:00		**10.62**	**118.57**	**83.84**	**88.76**
24-Mar-15 03:00:00	24-Mar-15 04:00:00		4.68	259.21	0.00	116.25	2.1	329.7		1.54	85.46	0.00	38.33		10.35	18.92	83.84	86.68	24-Mar-15 03:00:00		**11.89**	**104.38**	**83.84**	**125.01**
24-Mar-15 04:00:00	24-Mar-15 05:00:00		0.00	260.92	0.00	6.41	2.1	329.7		0.00	86.02	0.00	2.11		10.35	18.92	83.84	86.68	24-Mar-15 04:00:00		**10.35**	**104.94**	**83.84**	**88.79**
24-Mar-15 05:00:00	24-Mar-15 06:00:00		0.63	298.84	0.00	6.41	2.1	329.7		0.21	98.53	0.00	2.11		10.35	18.92	83.84	86.68	24-Mar-15 05:00:00		**10.56**	**117.45**	**83.84**	**88.79**
24-Mar-15 06:00:00	24-Mar-15 07:00:00		0.61	492.00	0.00	32.43	2.1	329.7		0.20	162.21	0.00	10.69		10.35	18.92	83.84	86.68	24-Mar-15 06:00:00		**10.55**	**181.13**	**83.84**	**97.37**
24-Mar-15 07:00:00	24-Mar-15 08:00:00		1.29	454.48	0.00	6.50	2.1	329.7		0.42	149.84	0.00	2.14		10.35	18.92	83.84	86.68	24-Mar-15 07:00:00		**10.77**	**168.76**	**83.84**	**88.82**
24-Mar-15 08:00:00	24-Mar-15 09:00:00		2.22	470.18	0.00	7.14	2.1	329.7		0.73	155.02	0.00	2.35		10.35	18.92	83.84	86.68	24-Mar-15 08:00:00		**11.08**	**173.94**	**83.84**	**89.03**
24-Mar-15 09:00:00	24-Mar-15 10:00:00		0.10	427.57	0.00	5.88	2.1	329.7		0.03	140.97	0.00	1.94		10.35	18.92	83.84	86.68	24-Mar-15 09:00:00		**10.38**	**159.89**	**83.84**	**88.62**
24-Mar-15 10:00:00	24-Mar-15 11:00:00		0.00	380.31	0.00	5.43	2.1	329.7		0.00	125.39	0.00	1.79		10.35	18.92	83.84	86.68	24-Mar-15 10:00:00		**10.35**	**144.31**	**83.84**	**88.47**
24-Mar-15 11:00:00	24-Mar-15 12:00:00		0.48	298.88	0.00	4.98	2.1	329.7		0.16	98.54	0.00	1.64		10.35	18.92	83.84	86.68	24-Mar-15 11:00:00		**10.51**	**117.46**	**83.84**	**88.32**
24-Mar-15 12:00:00	24-Mar-15 13:00:00		0.21	483.34	0.00	5.66	2.1	329.7		0.07	159.36	0.00	1.87		10.35	18.92	83.84	86.68	24-Mar-15 12:00:00		**10.42**	**178.28**	**83.84**	**88.55**
24-Mar-15 13:00:00	24-Mar-15 14:00:00		0.39	573.19	0.00	17.90	2.1	329.7		0.13	188.98	0.00	5.90		10.35	18.92	83.84	86.68	24-Mar-15 13:00:00		**10.48**	**207.90**	**83.84**	**92.58**
24-Mar-15 14:00:00	24-Mar-15 15:00:00		0.00	639.52	0.00	4.63	2.1	329.7		0.00	210.85	0.00	1.53		10.35	18.92	83.84	86.68	24-Mar-15 14:00:00		**10.35**	**229.77**	**83.84**	**88.21**
24-Mar-15 15:00:00	24-Mar-15 16:00:00		0.22	687.40	0.00	4.87	2.1	329.7		0.07	226.63	0.00	1.61		10.35	18.92	83.84	86.68	24-Mar-15 15:00:00		**10.42**	**245.55**	**83.84**	**88.29**
24-Mar-15 16:00:00	24-Mar-15 17:00:00		2.45	722.37	0.00	4.41	2.1	329.7		0.81	238.17	0.00	1.46		10.35	18.92	83.84	86.68	24-Mar-15 16:00:00		**11.16**	**257.09**	**83.84**	**88.14**
24-Mar-15 17:00:00	24-Mar-15 18:00:00		0.00	749.57	0.00	4.34	2.1	329.7		0.00	247.13	0.00	1.43		10.35	18.92	83.84	86.68	24-Mar-15 17:00:00		**10.35**	**266.05**	**83.84**	**88.11**
24-Mar-15 18:00:00	24-Mar-15 19:00:00		0.00	757.75	0.00	60.41	2.1	329.7		0.00	249.83	0.00	19.92		10.35	18.92	83.84	86.68	24-Mar-15 18:00:00		**10.35**	**268.75**	**83.84**	**106.60**
24-Mar-15 19:00:00	24-Mar-15 20:00:00		0.00	898.08	0.00	5.58	2.1	329.7		0.00	296.10	0.00	1.84		10.35	18.92	83.84	86.68	24-Mar-15 19:00:00		**10.35**	**315.02**	**83.84**	**88.52**
24-Mar-15 20:00:00	24-Mar-15 21:00:00		0.01	893.17	0.00	4.55	2.1	329.7		0.00	294.48	0.00	1.50		10.35	18.92	83.84	86.68	24-Mar-15 20:00:00		**10.35**	**313.40**	**83.84**	**88.18**
24-Mar-15 21:00:00	24-Mar-15 22:00:00		0.53	811.91	0.00	70.29	2.1	329.7		0.17	267.69	0.00	23.17		10.35	18.92	83.84	86.68	24-Mar-15 21:00:00		**10.52**	**286.61**	**83.84**	**109.85**
24-Mar-15 22:00:00	24-Mar-15 23:00:00		1.29	704.26	0.00	5.28	2.1	329.7		0.43	232.19	0.00	1.74		10.35	18.92	83.84	86.68	24-Mar-15 22:00:00		**10.78**	**251.11**	**83.84**	**88.42**
24-Mar-15 23:00:00	25-Mar-15 00:00:00		2.21	669.49	0.00	5.47	2.1	329.7		0.73	220.73	0.00	1.80		10.35	18.92	83.84	86.68	24-Mar-15 23:00:00		**11.08**	**239.65**	**83.84**	**88.48**
25-Mar-15 00:00:00	25-Mar-15 01:00:00		2.45	649.08	0.00	27.20	2.1	329.7		0.81	214.00	0.00	8.97		10.35	18.92	83.84	86.68	25-Mar-15 00:00:00		**11.16**	**232.92**	**83.84**	**95.65**
25-Mar-15 01:00:00	25-Mar-15 02:00:00		2.24	662.36	0.00	5.75	2.1	329.7		0.74	218.38	0.00	1.90		10.35	18.92	83.84	86.68	25-Mar-15 01:00:00		**11.09**	**237.30**	**83.84**	**88.58**
25-Mar-15 02:00:00	25-Mar-15 03:00:00		2.02	654.23	0.00	5.74	2.1	329.7		0.67	215.70	0.00	1.89		10.35	18.92	83.84	86.68	25-Mar-15 02:00:00		**11.02**	**234.62**	**83.84**	**88.57**
25-Mar-15 03:00:00	25-Mar-15 04:00:00		1.62	629.15	0.00	50.97	2.1	329.7		0.54	207.43	0.00	16.81		10.35	18.92	83.84	86.68	25-Mar-15 03:00:00		**10.89**	**226.35**	**83.84**	**103.49**
25-Mar-15 04:00:00	25-Mar-15 05:00:00		1.16	631.31	0.00	40.51	2.1	329.7		0.38	208.14	0.00	13.36		10.35	18.92	83.84	86.68	25-Mar-15 04:00:00		**10.73**	**227.06**	**83.84**	**100.04**
25-Mar-15 05:00:00	25-Mar-15 06:00:00		0.00	614.42	0.00	67.22	2.1	329.7		0.00	202.58	0.00	22.16		10.35	18.92	83.84	86.68	25-Mar-15 05:00:00		**10.35**	**221.50**	**83.84**	**108.84**
25-Mar-15 06:00:00	25-Mar-15 07:00:00		0.00	603.30	0.00	5.86	2.1	329.7		0.00	198.91	0.00	1.93		10.35	18.92	83.84	86.68	25-Mar-15 06:00:00		**10.35**	**217.83**	**83.84**	**88.61**
25-Mar-15 07:00:00	25-Mar-15 08:00:00		0.00	585.47	0.00	5.89	2.1	329.7		0.00	193.03	0.00	1.94		10.35	18.92	83.84	86.68	25-Mar-15 07:00:00		**10.35**	**211.95**	**83.84**	**88.62**
25-Mar-15 08:00:00	25-Mar-15 09:00:00		0.00	527.91	0.00	14.88	2.1	329.7		0.00	174.05	0.00	4.90		10.35	18.92	83.84	86.68	25-Mar-15 08:00:00		**10.35**	**192.97**	**83.84**	**91.58**
25-Mar-15 09:00:00	25-Mar-15 10:00:00		0.00	305.37	0.00	5.89	2.1	329.7		0.00	100.68	0.00	1.94		10.35	18.92	83.84	86.68	25-Mar-15 09:00:00		**10.35**	**119.60**	**83.84**	**88.62**
25-Mar-15 10:00:00	25-Mar-15 11:00:00		0.00	159.25	0.00	5.78	2.1	329.7		0.00	52.51	0.00	1.90		10.35	18.92	83.84	86.68	25-Mar-15 10:00:00		**10.35**	**71.43**	**83.84**	**88.58**
25-Mar-15 11:00:00	25-Mar-15 12:00:00		0.00	827.71	0.00	5.66	2.1	329.7		0.00	272.90	0.00	1.87		10.35	18.92	83.84	86.68	25-Mar-15 11:00:00		**10.35**	**291.82**	**83.84**	**88.55**
25-Mar-15 12:00:00	25-Mar-15 13:00:00		0.00	892.02	0.00	5.55	2.1	329.7		0.00	294.10	0.00	1.83		10.35	18.92	83.84	86.68	25-Mar-15 12:00:00		**10.35**	**313.02**	**83.84**	**88.51**
25-Mar-15 13:00:00	25-Mar-15 14:00:00		0.00	954.51	0.00	5.45	2.1	329.7		0.00	314.70	0.00	1.80		10.35	18.92	83.84	86.68	25-Mar-15 13:00:00		**10.35**	**333.62**	**83.84**	**88.48**
25-Mar-15 14:00:00	25-Mar-15 15:00:00		0.08	797.80	0.00	5.31	2.1	329.7		0.03	263.03	0.00	1.75		10.35	18.92	83.84	86.68	25-Mar-15 14:00:00		**10.38**	**281.95**	**83.84**	**88.43**
25-Mar-15 15:00:00	25-Mar-15 16:00:00		0.00	700.63	0.00	5.18	2.1	329.7		0.00	231.00	0.00	1.71		10.35	18.92	83.84	86.68	25-Mar-15 15:00:00		**10.35**	**249.92**	**83.84**	**88.39**
25-Mar-15 16:00:00	25-Mar-15 17:00:00		0.00	670.34	0.00	5.05	2.1	329.7		0.00	221.01	0.00	1.67		10.35	18.92	83.84	86.68	25-Mar-15 16:00:00		**10.35**	**239.93**	**83.84**	**88.35**
25-Mar-15 17:00:00	25-Mar-15 18:00:00		0.00	640.45	0.00	4.99	2.1	329.7		0.00	211.16	0.00	1.64		10.35	18.92	83.84	86.68	25-Mar-15 17:00:00		**10.35**	**230.08**	**83.84**	**88.32**
25-Mar-15 18:00:00	25-Mar-15 19:00:00		1.69	627.14	0.00	30.01	2.1	329.7		0.56	206.77	0.00	9.90		10.35	18.92	83.84	86.68	25-Mar-15 18:00:00		**10.91**	**225.69**	**83.84**	**96.58**
25-Mar-15 19:00:00	25-Mar-15 20:00:00		1.80	622.61	0.00	4.83	2.1	329.7		0.59	205.28	0.00	1.59		10.35	18.92	83.84	86.68	25-Mar-15 19:00:00		**10.94**	**224.20**	**83.84**	**88.27**
25-Mar-15 20:00:00	25-Mar-15 21:00:00		1.19	644.51	0.00	4.93	2.1	329.7		0.39	212.50	0.00	1.62		10.35	18.92	83.84	86.68	25-Mar-15 20:00:00		**10.74**	**231.42**	**83.84**	**88.30**
25-Mar-15 21:00:00	25-Mar-15 22:00:00		0.57	625.52	0.00	5.02	2.1	329.7		0.19	206.23	0.00	1.66		10.35	18.92	83.84	86.68	25-Mar-15 21:00:00		**10.54**	**225.15**	**83.84**	**88.34**
25-Mar-15 22:00:00	25-Mar-15 23:00:00		0.05	598.11	0.00	5.06	2.1	329.7		0.02	197.20	0.00	1.67		10.35	18.92	83.84	86.68	25-Mar-15 22:00:00		**10.37**	**216.12**	**83.84**	**88.35**
25-Mar-15 23:00:00	26-Mar-15 00:00:00		0.00	625.75	0.00	5.09	2.1	329.7		0.00	206.31	0.00	1.68		10.35	18.92	83.84	86.68	25-Mar-15 23:00:00		**10.35**	**225.23**	**83.84**	**88.36**
26-Mar-15 00:00:00	26-Mar-15 01:00:00		0.00	589.45	0.00	5.16	2.1	329.7		0.00	194.34	0.00	1.70		10.35	18.92	83.84	86.68	26-Mar-15 00:00:00		**10.35**	**213.26**	**83.84**	**88.38**
26-Mar-15 01:00:00	26-Mar-15 02:00:00		0.00	551.39	0.00	5.22	2.1	329.7		0.00	181.79	0.00	1.72		10.35	18.92	83.84	86.68	26-Mar-15 01:00:00		**10.35**	**200.71**	**83.84**	**88.40**
26-Mar-15 02:00:00	26-Mar-15 03:00:00		0.00	548.43	96.70	5.24	2.1	329.7		0.00	180.82	31.88	1.73		10.35	18.92	83.84	86.68	26-Mar-15 02:00:00		**10.35**	**199.74**	**115.72**	**88.41**
26-Mar-15 03:00:00	26-Mar-15 04:00:00		0.00	565.84	324.43	5.10	2.1	329.7		0.00	186.56	106.97	1.68		10.35	18.92	83.84	86.68	26-Mar-15 03:00:00		**10.35**	**205.48**	**190.81**	**88.36**
26-Mar-15 04:00:00	26-Mar-15 05:00:00		0.00	578.09	336.33	5.74	2.1	329.7		0.00	190.60	110.89	1.89		10.35	18.92	83.84	86.68	26-Mar-15 04:00:00		**10.35**	**209.52**	**194.73**	**88.57**
26-Mar-15 05:00:00	26-Mar-15 06:00:00		0.00	671.66	335.47	4.92	2.1	329.7		0.00	221.45	110.60	1.62		10.35	18.92	83.84	86.68	26-Mar-15 05:00:00		**10.35**	**240.37**	**194.44**	**88.30**
26-Mar-15 06:00:00	26-Mar-15 07:00:00		0.00	740.82	328.79	4.89	2.1	329.7		0.00	244.25	108.40	1.61		10.35	18.92	83.84	86.68	26-Mar-15 06:00:00		**10.35**	**263.17**	**192.24**	**88.29**
26-Mar-15 07:00:00	26-Mar-15 08:00:00		0.00	739.41	319.10	14.75	2.1	329.7		0.00	243.78	105.21	4.86		10.35	18.92	83.84	86.68	26-Mar-15 07:00:00		**10.35**	**262.70**	**189.05**	**91.54**
26-Mar-15 08:00:00	26-Mar-15 09:00:00		0.00	249.02	327.67	4.98	2.1	329.7		0.00	82.10	108.03	1.64		10.35	18.92	83.84	86.68	26-Mar-15 08:00:00		**10.35**	**101.02**	**191.87**	**88.32**
26-Mar-15 09:00:00	26-Mar-15 10:00:00		0.00	132.42	626.94	5.05	2.1	329.7		0.00	43.66	206.70	1.66		10.35	18.92	83.84	86.68	26-Mar-15 09:00:00		**10.35**	**62.58**	**290.54**	**88.34**
26-Mar-15 10:00:00	26-Mar-15 11:00:00		0.00	166.41	636.77	5.12	2.1	329.7		0.00	54.86	209.94	1.69		10.35	18.92	83.84	86.68	26-Mar-15 10:00:00		**10.35**	**73.78**	**293.78**	**88.37**
26-Mar-15 11:00:00	26-Mar-15 12:00:00		0.00	160.91	641.52	5.16	2.1	329.7		0.00	53.05	211.51	1.70		10.35	18.92	83.84	86.68	26-Mar-15 11:00:00		**10.35**	**71.97**	**295.35**	**88.38**
26-Mar-15 12:00:00	26-Mar-15 13:00:00		0.00	1,555.49	558.66	5.05	2.1	329.7		0.00	512.85	184.19	1.66		10.35	18.92	83.84	86.68	26-Mar-15 12:00:00		**10.35**	**531.77**	**268.03**	**88.34**
26-Mar-15 13:00:00	26-Mar-15 14:00:00		0.00	1,843.60	575.68	4.98	2.1	329.7		0.00	607.84	189.80	1.64		10.35	18.92	83.84	86.68	26-Mar-15 13:00:00		**10.35**	**626.76**	**273.64**	**88.32**
26-Mar-15 14:00:00	26-Mar-15 15:00:00		9.61	208.60	568.70	4.92	2.1	329.7		3.17	68.78	187.50	1.62		10.35	18.92	83.84	86.68	26-Mar-15 14:00:00		**13.52**	**87.70**	**271.34**	**88.30**
26-Mar-15 15:00:00	26-Mar-15 16:00:00		7.12	0.00	575.15	27.02	2.1	329.7		2.35	0.00	189.63	8.91		10.35	18.92	83.84	86.68	26-Mar-15 15:00:00		**12.70**	**18.92**	**273.47**	**95.59**
26-Mar-15 16:00:00	26-Mar-15 17:00:00		9.70	7.04	545.28	4.87	2.1	329.7		3.20	2.32	179.78	1.60		10.35	18.92	83.84	86.68	26-Mar-15 16:00:00		**13.55**	**21.24**	**263.62**	**88.28**
26-Mar-15 17:00:00	26-Mar-15 18:00:00		0.00	0.00	520.34	4.60	2.1	329.7		0.00	0.00	171.56	1.52		10.35	18.92	83.84	86.68	26-Mar-15 17:00:00		**10.35**	**18.92**	**255.40**	**88.20**
26-Mar-15 18:00:00	26-Mar-15 19:00:00		0.00	0.00	516.21	4.34	2.1	329.7		0.00	0.00	170.20	1.43		10.35	18.92	83.84	86.68	26-Mar-15 18:00:00		**10.35**	**18.92**	**254.04**	**88.11**
26-Mar-15 19:00:00	26-Mar-15 20:00:00		0.00	0.00	491.87	4.15	2.1	329.7		0.00	0.00	162.17	1.37		10.35	18.92	83.84	86.68	26-Mar-15 19:00:00		**10.35**	**18.92**	**246.01**	**88.05**
26-Mar-15 20:00:00	26-Mar-15 21:00:00		0.00	0.00	498.57	4.26	2.1	329.7		0.00	0.00	164.38	1.40		10.35	18.92	83.84	86.68	26-Mar-15 20:00:00		**10.35**	**18.92**	**248.22**	**88.08**
26-Mar-15 21:00:00	26-Mar-15 22:00:00		0.00	0.00	467.21	14.28	2.1	329.7		0.00	0.00	154.04	4.71		10.35	18.92	83.84	86.68	26-Mar-15 21:00:00		**10.35**	**18.92**	**237.88**	**91.39**
26-Mar-15 22:00:00	26-Mar-15 23:00:00		0.00	0.00	272.25	4.52	2.1	329.7		0.00	0.00	89.76	1.49		10.35	18.92	83.84	86.68	26-Mar-15 22:00:00		**10.35**	**18.92**	**173.60**	**88.17**
26-Mar-15 23:00:00	27-Mar-15 00:00:00		0.00	0.00	283.20	4.66	2.1	329.7		0.00	0.00	93.37	1.54		10.35	18.92	83.84	86.68	26-Mar-15 23:00:00		**10.35**	**18.92**	**177.21**	**88.22**
27-Mar-15 00:00:00	27-Mar-15 01:00:00		2.48	0.00	484.12	4

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
28-Mar-15 22:00:00	28-Mar-15 23:00:00		0.00	0.00	0.00	6.55	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	28-Mar-15 22:00:00		10.35	18.92	83.84	88.84
28-Mar-15 23:00:00	29-Mar-15 00:00:00		0.00	0.00	0.00	6.87	2.1	329.7		0.00	0.00	0.00	2.26		10.35	18.92	83.84	86.68	28-Mar-15 23:00:00		10.35	18.92	83.84	88.94
29-Mar-15 00:00:00	29-Mar-15 01:00:00		0.00	0.00	0.00	7.13	2.1	329.7		0.00	0.00	0.00	2.35		10.35	18.92	83.84	86.68	29-Mar-15 00:00:00		10.35	18.92	83.84	89.03
29-Mar-15 01:00:00	29-Mar-15 02:00:00		0.11	0.00	0.00	12.80	2.1	329.7		0.04	0.00	0.00	4.22		10.35	18.92	83.84	86.68	29-Mar-15 01:00:00		10.39	18.92	83.84	90.90
29-Mar-15 02:00:00	29-Mar-15 03:00:00		4.99	0.00	0.00	7.45	2.1	329.7		1.65	0.00	0.00	2.46		10.35	18.92	83.84	86.68	29-Mar-15 02:00:00		12.00	18.92	83.84	89.14
29-Mar-15 03:00:00	29-Mar-15 04:00:00		13.65	0.00	0.00	7.46	2.1	329.7		4.50	0.00	0.00	2.46		10.35	18.92	83.84	86.68	29-Mar-15 03:00:00		14.85	18.92	83.84	89.14
29-Mar-15 04:00:00	29-Mar-15 05:00:00		2.57	0.00	0.00	7.48	2.1	329.7		0.85	0.00	0.00	2.46		10.35	18.92	83.84	86.68	29-Mar-15 04:00:00		11.20	18.92	83.84	89.14
29-Mar-15 05:00:00	29-Mar-15 06:00:00		11.67	0.00	0.00	7.49	2.1	329.7		3.85	0.00	0.00	2.47		10.35	18.92	83.84	86.68	29-Mar-15 05:00:00		14.20	18.92	83.84	89.15
29-Mar-15 06:00:00	29-Mar-15 07:00:00		9.03	0.00	0.00	7.50	2.1	329.7		2.98	0.00	0.00	2.47		10.35	18.92	83.84	86.68	29-Mar-15 06:00:00		13.33	18.92	83.84	89.15
29-Mar-15 07:00:00	29-Mar-15 08:00:00		19.72	0.00	0.00	7.54	2.1	329.7		6.50	0.00	0.00	2.48		10.35	18.92	83.84	86.68	29-Mar-15 07:00:00		16.85	18.92	83.84	89.16
29-Mar-15 08:00:00	29-Mar-15 09:00:00		3.62	0.00	0.00	7.57	2.1	329.7		1.19	0.00	0.00	2.50		10.35	18.92	83.84	86.68	29-Mar-15 08:00:00		11.54	18.92	83.84	89.18
29-Mar-15 09:00:00	29-Mar-15 10:00:00		0.81	0.00	0.00	7.60	2.1	329.7		0.27	0.00	0.00	2.51		10.35	18.92	83.84	86.68	29-Mar-15 09:00:00		10.62	18.92	83.84	89.19
29-Mar-15 10:00:00	29-Mar-15 11:00:00		11.13	0.00	0.00	7.40	2.1	329.7		3.67	0.00	0.00	2.44		10.35	18.92	83.84	86.68	29-Mar-15 10:00:00		14.02	18.92	83.84	89.12
29-Mar-15 11:00:00	29-Mar-15 12:00:00		10.38	0.00	0.00	7.08	2.1	329.7		3.42	0.00	0.00	2.33		10.35	18.92	83.84	86.68	29-Mar-15 11:00:00		13.77	18.92	83.84	89.01
29-Mar-15 12:00:00	29-Mar-15 13:00:00		9.97	0.00	0.00	6.75	2.1	329.7		3.29	0.00	0.00	2.23		10.35	18.92	83.84	86.68	29-Mar-15 12:00:00		13.64	18.92	83.84	88.91
29-Mar-15 13:00:00	29-Mar-15 14:00:00		1.22	0.00	0.00	6.43	2.1	329.7		0.40	0.00	0.00	2.12		10.35	18.92	83.84	86.68	29-Mar-15 13:00:00		10.75	18.92	83.84	88.80
29-Mar-15 14:00:00	29-Mar-15 15:00:00		3.45	0.00	0.00	6.51	2.1	329.7		1.14	0.00	0.00	2.15		10.35	18.92	83.84	86.68	29-Mar-15 14:00:00		11.49	18.92	83.84	88.83
29-Mar-15 15:00:00	29-Mar-15 16:00:00		0.00	0.00	0.00	5.99	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	29-Mar-15 15:00:00		10.35	18.92	83.84	88.66
29-Mar-15 16:00:00	29-Mar-15 17:00:00		0.00	0.00	0.00	5.74	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	29-Mar-15 16:00:00		10.35	18.92	83.84	88.57
29-Mar-15 17:00:00	29-Mar-15 18:00:00		0.00	0.00	0.00	5.50	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	29-Mar-15 17:00:00		10.35	18.92	83.84	88.49
29-Mar-15 18:00:00	29-Mar-15 19:00:00		0.00	0.00	0.00	5.38	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	29-Mar-15 18:00:00		10.35	18.92	83.84	88.45
29-Mar-15 19:00:00	29-Mar-15 20:00:00		0.00	0.00	0.00	5.56	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	29-Mar-15 19:00:00		10.35	18.92	83.84	88.51
29-Mar-15 20:00:00	29-Mar-15 21:00:00		0.00	0.00	0.00	5.76	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	29-Mar-15 20:00:00		10.35	18.92	83.84	88.58
29-Mar-15 21:00:00	29-Mar-15 22:00:00		0.00	0.00	0.00	5.95	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	29-Mar-15 21:00:00		10.35	18.92	83.84	88.64
29-Mar-15 22:00:00	29-Mar-15 23:00:00		0.00	0.00	0.00	6.18	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	29-Mar-15 22:00:00		10.35	18.92	83.84	88.72
29-Mar-15 23:00:00	30-Mar-15 00:00:00		0.00	0.00	0.00	7.49	2.1	329.7		0.00	0.00	0.00	2.47		10.35	18.92	83.84	86.68	29-Mar-15 23:00:00		10.35	18.92	83.84	89.15
30-Mar-15 00:00:00	30-Mar-15 01:00:00		0.00	0.00	4.37	6.40	2.1	329.7		0.00	0.00	1.44	2.11		10.35	18.92	83.84	86.68	30-Mar-15 00:00:00		10.35	18.92	85.28	88.79
30-Mar-15 01:00:00	30-Mar-15 02:00:00		0.00	0.00	0.00	6.39	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	30-Mar-15 01:00:00		10.35	18.92	83.84	88.79
30-Mar-15 02:00:00	30-Mar-15 03:00:00		0.03	0.00	0.00	6.39	2.1	329.7		0.01	0.00	0.00	2.11		10.35	18.92	83.84	86.68	30-Mar-15 02:00:00		10.36	18.92	83.84	88.79
30-Mar-15 03:00:00	30-Mar-15 04:00:00		1.53	0.00	0.00	6.38	2.1	329.7		0.50	0.00	0.00	2.10		10.35	18.92	83.84	86.68	30-Mar-15 03:00:00		10.85	18.92	83.84	88.78
30-Mar-15 04:00:00	30-Mar-15 05:00:00		2.49	0.00	0.00	6.41	2.1	329.7		0.82	0.00	0.00	2.11		10.35	18.92	83.84	86.68	30-Mar-15 04:00:00		11.17	18.92	83.84	88.79
30-Mar-15 05:00:00	30-Mar-15 06:00:00		0.53	0.00	0.00	9.47	2.1	329.7		0.18	0.00	0.00	3.12		10.35	18.92	83.84	86.68	30-Mar-15 05:00:00		10.53	18.92	83.84	89.80
30-Mar-15 06:00:00	30-Mar-15 07:00:00		0.00	0.00	0.00	6.34	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	30-Mar-15 06:00:00		10.35	18.92	83.84	88.77
30-Mar-15 07:00:00	30-Mar-15 08:00:00		0.00	0.00	0.00	6.33	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	30-Mar-15 07:00:00		10.35	18.92	83.84	88.77
30-Mar-15 08:00:00	30-Mar-15 09:00:00		0.00	0.00	0.00	39.72	2.1	329.7		0.00	0.00	0.00	13.09		10.35	18.92	83.84	86.68	30-Mar-15 08:00:00		10.35	18.92	83.84	99.77
30-Mar-15 09:00:00	30-Mar-15 10:00:00		0.00	0.00	0.00	6.31	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	30-Mar-15 09:00:00		10.35	18.92	83.84	88.76
30-Mar-15 10:00:00	30-Mar-15 11:00:00		0.00	0.00	0.00	6.17	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	30-Mar-15 10:00:00		10.35	18.92	83.84	88.71
30-Mar-15 11:00:00	30-Mar-15 12:00:00		1.51	0.00	0.00	6.68	2.1	329.7		0.50	0.00	0.00	2.20		10.35	18.92	83.84	86.68	30-Mar-15 11:00:00		10.85	18.92	83.84	88.88
30-Mar-15 12:00:00	30-Mar-15 13:00:00		0.45	0.00	0.00	5.84	2.1	329.7		0.15	0.00	0.00	1.93		10.35	18.92	83.84	86.68	30-Mar-15 12:00:00		10.50	18.92	83.84	88.61
30-Mar-15 13:00:00	30-Mar-15 14:00:00		1.77	0.00	0.00	5.50	2.1	329.7		0.58	0.00	0.00	1.81		10.35	18.92	83.84	86.68	30-Mar-15 13:00:00		10.93	18.92	83.84	88.49
30-Mar-15 14:00:00	30-Mar-15 15:00:00		5.61	0.00	0.00	5.54	2.1	329.7		1.85	0.00	0.00	1.83		10.35	18.92	83.84	86.68	30-Mar-15 14:00:00		12.20	18.92	83.84	88.51
30-Mar-15 15:00:00	30-Mar-15 16:00:00		4.06	0.00	0.00	4.93	2.1	329.7		1.34	0.00	0.00	1.63		10.35	18.92	83.84	86.68	30-Mar-15 15:00:00		11.69	18.92	83.84	88.31
30-Mar-15 16:00:00	30-Mar-15 17:00:00		1.38	0.00	0.00	4.83	2.1	329.7		0.45	0.00	0.00	1.59		10.35	18.92	83.84	86.68	30-Mar-15 16:00:00		10.80	18.92	83.84	88.27
30-Mar-15 17:00:00	30-Mar-15 18:00:00		6.13	0.00	0.00	4.74	2.1	329.7		2.02	0.00	0.00	1.56		10.35	18.92	83.84	86.68	30-Mar-15 17:00:00		12.37	18.92	83.84	88.24
30-Mar-15 18:00:00	30-Mar-15 19:00:00		8.69	0.00	0.00	4.64	2.1	329.7		2.86	0.00	0.00	1.53		10.35	18.92	83.84	86.68	30-Mar-15 18:00:00		13.21	18.92	83.84	88.21
30-Mar-15 19:00:00	30-Mar-15 20:00:00		16.90	0.00	0.00	4.52	2.1	329.7		5.57	0.00	0.00	1.49		10.35	18.92	83.84	86.68	30-Mar-15 19:00:00		15.92	18.92	83.84	88.17
30-Mar-15 20:00:00	30-Mar-15 21:00:00		6.81	0.00	0.00	15.47	2.1	329.7		2.25	0.00	0.00	5.10		10.35	18.92	83.84	86.68	30-Mar-15 20:00:00		12.60	18.92	83.84	91.78
30-Mar-15 21:00:00	30-Mar-15 22:00:00		1.45	0.00	0.00	4.67	2.1	329.7		0.48	0.00	0.00	1.54		10.35	18.92	83.84	86.68	30-Mar-15 21:00:00		10.83	18.92	83.84	88.22
30-Mar-15 22:00:00	30-Mar-15 23:00:00		0.07	0.00	0.00	5.02	2.1	329.7		0.02	0.00	0.00	1.66		10.35	18.92	83.84	86.68	30-Mar-15 22:00:00		10.37	18.92	83.84	88.34
30-Mar-15 23:00:00	31-Mar-15 00:00:00		0.00	0.00	0.00	5.37	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	30-Mar-15 23:00:00		10.35	18.92	83.84	88.45
31-Mar-15 00:00:00	31-Mar-15 01:00:00		4.72	0.00	0.00	5.72	2.1	329.7		1.56	0.00	0.00	1.89		10.35	18.92	83.84	86.68	31-Mar-15 00:00:00		11.91	18.92	83.84	88.57
31-Mar-15 01:00:00	31-Mar-15 02:00:00		11.81	0.00	0.00	5.91	2.1	329.7		3.89	0.00	0.00	1.95		10.35	18.92	83.84	86.68	31-Mar-15 01:00:00		14.24	18.92	83.84	88.63
31-Mar-15 02:00:00	31-Mar-15 03:00:00		10.07	0.00	0.00	6.05	2.1	329.7		3.32	0.00	0.00	2.00		10.35	18.92	83.84	86.68	31-Mar-15 02:00:00		13.67	18.92	83.84	88.68
31-Mar-15 03:00:00	31-Mar-15 04:00:00		2.32	0.00	0.00	6.20	2.1	329.7		0.77	0.00	0.00	2.04		10.35	18.92	83.84	86.68	31-Mar-15 03:00:00		11.12	18.92	83.84	88.72
31-Mar-15 04:00:00	31-Mar-15 05:00:00		0.96	0.00	0.00	6.35	2.1	329.7		0.31	0.00	0.00	2.09		10.35	18.92	83.84	86.68	31-Mar-15 04:00:00		10.66	18.92	83.84	88.77
31-Mar-15 05:00:00	31-Mar-15 06:00:00		2.95	0.00	0.00	6.43	2.1	329.7		0.97	0.00	0.00	2.12		10.35	18.92	83.84	86.68	31-Mar-15 05:00:00		11.32	18.92	83.84	88.80
31-Mar-15 06:00:00	31-Mar-15 07:00:00		0.40	0.00	0.00	6.40	2.1	329.7		0.13	0.00	0.00	2.11		10.35	18.92	83.84	86.68	31-Mar-15 06:00:00		10.48	18.92	83.84	88.79
31-Mar-15 07:00:00	31-Mar-15 08:00:00		0.00	0.00	0.00	6.37	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	31-Mar-15 07:00:00		10.35	18.92	83.84	88.78
31-Mar-15 08:00:00	31-Mar-15 09:00:00		0.00	0.00	0.00	6.33	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	31-Mar-15 08:00:00		10.35	18.92	83.84	88.77
31-Mar-15 09:00:00	31-Mar-15 10:00:00		0.06	0.00	0.00	6.18	2.1	329.7		0.02	0.00	0.00	2.04		10.35	18.92	83.84	86.68	31-Mar-15 09:00:00		10.37	18.92	83.84	88.72
31-Mar-15 10:00:00	31-Mar-15 11:00:00		1.00	0.00	0.00	5.73	2.1	329.7		0.33	0.00	0.00	1.89		10.35	18.92	83.84	86.68	31-Mar-15 10:00:00		10.68	18.92	83.84	88.57
31-Mar-15 11:00:00	31-Mar-15 12:00:00		6.18	0.00	0.00	5.28	2.1	329.7		2.04	0.00	0.00	1.74		10.35	18.92	83.84	86.68	31-Mar-15 11:00:00		12.39	18.92	83.84	88.42
31-Mar-15 12:00:00	31-Mar-15 13:00:00		4.14	0.00	0.00	4.83	2.1	329.7		1.37	0.00	0.00	1.59		10.35	18.92	83.84	86.68	31-Mar-15 12:00:00		11.72	18.92	83.84	88.27
31-Mar-15 13:00:00	31-Mar-15 14:00:00		0.93	0.00	0.00	4.62	2.1	329.7		0.31	0.00	0.00	1.52		10.35	18.92	83.84	86.68	31-Mar-15 13:00:00		10.66	18.92	83.84	88.20
31-Mar-15 14:00:00	31-Mar-15 15:00:00		7.12	0.00	0.00	4.49	2.1	329.7		2.35	0.00	0.00	1.48		10.35	18.92	83.84	86.68	31-Mar-15 14:00:00		12.70	18.92	83.84	88.16
31-Mar-15 15:00:00	31-Mar-15 16:00:00		10.36	0.00	0.00	4.36	2.1	329.7		3.42	0.00	0.00	1.44		10.35	18.92	83.84	86.68	31-Mar-15 15:00:00		13.77	18.92	83.84	88.12
31-Mar-15 16:00:00	31-Mar-15 17:00:00		8.46	0.00	0.00	4.23	2.1	329.7		2.79	0.00	0.00	1.39		10.35	18.92	83.84	86.68	31-Mar-15 16:00:00		13.14	18.92	83.84	88.07
31-Mar-15 17:00:00	31-Mar-15 18:00:00		14.31	0.00	0.00	4.16	2.1	329.7		4.72	0.00	0.00	1.37		10.35	18.92	83.84	86.68	31-Mar-15 17:00:00		15.07	18.92	83.84	88.05
31-Mar-15 18:00:00	31-Mar-15 19:00:00		12.36	0.00	0.00	4.16	2.1	329.7		4.07	0.00	0.00	1.37		10.35	18.92	83.84	86.68	31-Mar-15 18:00:00		14.42	18.92	83.84	88.05
31-Mar-15 19:00:00	31-Mar-15 20:00:00		34.99	0.00	0.00	4.16	2.1	329.7		11.54	0.00	0.00	1.37		10.35	18.92	83.84	86.68	31-Mar-15 19:00:00		21.89	18.92	83.84	88.05
31-Mar-15 20:00:00	31-Mar-15 21:00:00		17.26	0.00	0.00	79.36	2.1	329.7		5.69	0.00	0.00	26.17		10.35	18.92	83.84	86.68	31-Mar-15 20:00:00		16.04	18.92	83.84	112.85
31-Mar-15 21:00:00	31-Mar-15 22:00:00		0.00	0.00	0.00	4.29	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	31-Mar-15 21:00:00		10.35	18.92	83.84	88.10
31-Mar-15 22:00:00	31-Mar-15 23:00:00		18.45	0.00	0.00	4.47	2.1	329.7		6.08	0.00	0.00	1.47		10.35	18.92	83.84	86.68	31-Mar-15 22:00:00		16.43	18.92	83.84	88.15
31-Mar-15 23:00:00	01-Apr-15 00:00:00		34.99	0.00	0.00	35.78	2.1	329.7		11.54	0.00	0.00	11.80		10.35	18.92	83.84	86.68	31-Mar-15 23:00:00		21.89	18.92	83.84	98.48
01-Apr-15 00:00:00	01-Apr-15 01:00:00		46.50	0.00	0.00	4.86	2.1	329.7		15.33	0.00	0.00	1.60		10.35	18.92	83.84	86.68	01-Apr-15 00:00:00		25.68	18.92	83.84	88.28
01-Apr-15 01:00:00	01-Apr-15 02:00:00		49.74	0.00	0.00	4.89	2.1	329.7		16.40	0.00	0.00	1.61		10.35	18.92	83.84	86.68	01-Apr-15 01:00:00		26.75	18.92	83.84	88.29
01-Apr-15 02:00:00	01-Apr-15 03:00:00		46.11	0.00	0.00	27.22	2.1	329.7		15.20	0.00	0.00	8.97		10.35	18.92	83.84	86.68	01-Apr-15 02:00:00		25.55	18.92	83.84	95.65
01-Apr-15 03:00:00	01-Apr-15 04:00:00		1.46	0.00	0.00	5.14	2.1	329.7		0.48	0.00	0.00	1.69		10.35	18.92	83.84	86.68	01-Apr-15 03:00:00		10.83	18.92	83.84	88.37
01-Apr-15 04:00:00	01-Apr-15 05:00:00		8.79	0.00	0.00	5.18	2.1	329.7		2.90	0.00	0.00	1.71		10.35	18.92	83.84	86.68	01-Apr-15 04:00:00		13.25	18.92	83.84	88.39
01-Apr-15 05:00:00	01-Apr-15 06:00:00		11.99	0.00	0.00	19.65	2.1	329.7		3.95	0.00	0.00	6.48		10.35	18.92	83.84	86.68	01-Apr-15 05:00:00		14.30	18.92	83.84	93.16
01-Apr-15 06:00:00	01-Apr-15 07:00:00		5.99	0.00	0.00	5.45	2.1	329.7		1.97	0.00	0.00	1.80		10.35	18.92	83.84	86.68	01-Apr-15 06:00:00		12.32	18.92	83.84	88.48
01-Apr-15 07:00:00	01-Apr-15 08:00:00		12.73	0.00	0.00	5.54	2.1	329.7		4.20	0.00	0.00	1.83		10.35	18.92	83.84	86.68	01-Apr-15 07:00:00		14.55	18.92	83.84	88.51
01-Apr-15 08:00:00	01-Apr-15 09:00:00		4.36	0.00	0.00	7.32	2.1	329.7		1.44	0.00	0.00	2.41		10.35	18.92	83.84	86.68	01-Apr-15 08:00:00		11.79	18.92	83.84	89.09
01-Apr-15 09:00:00	01-Apr-15 10:00:00		1.20	0.00	0.00	5.23	2.1	329.7		0.39	0.00	0.00	1.72		10.35	18.92	83.84	86.68	01-Apr-15 09:00:00		10.74	18.92	83.84	88.40
01-Apr-15 10:00:00	01-Apr-15 11:00:00		0.83	0.00	0.00	5.12	2.1	329.7		0.27	0.00	0.00	1.69		10.35	18.92	83.84	86.68	01-Apr-15 10:00:00		10.62	18.92	83.84	88.37
01-Apr-15 11:00:00	01-Apr-15 12:00:00		0.46	0.00	0.00	5.02	2.1	329.7		0.15	0.00	0.00	1.65		10.35	18.92	83.84	86.68	01-Apr-15 11:00:00		10.50	18.92	83.84	88.33
01-Apr-15 12:00:00	01-Apr-15 13:00:00		0.10	0.00	0.00	4.92	2.1	329.7		0.03	0.00	0.00	1.62		10.35	18.92	83.84	86.68	01-Apr-15 12:00:00		10.38	18.92	83.84	88.30
01-Apr-15 13:00:00	01-Apr-15 14:00:00		2.49	0.00	0.00	4.84	2.1	329.7		0.82	0.00	0.00	1.60		10.35	18.92	83.84	86.68	01-Apr-15 13:00:00		11.17	18.92	83.84	88.28
01-Apr-15 14:00:00	01-Apr-15 15:00:00		1.20	0.00	0.00	4.77	2.1	329.7		0.40	0.00	0.00	1.57		10.35	18.92	83.84	86.68	01-Apr-15 14:00:00		10.75	18.92	83.84	88.25
01-Apr-15 15:00:00	01-Apr-15 16:00:00		0.00	0.00	0.00	4.70	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	01-Apr-15 15:00:00		10.35	18.92	83.84	88.23
01-Apr-15 16:00:00	01-Apr-15 17:00:00		1.40	0.00	0.00	4.64	2.1	329.7		0.46	0.00	0.00	1.53		10.35	18.92	83.84	86.68	01-Apr-15 16:00:00		10.81	18.92	83.84	88.21
01-Apr-15 17:00:00	01-Apr-15 18:00:00		1.58	0.00	0.00	4.74	2.1	329.7		0.52	0.00	0.00	1.56		10.35	18.92	83.84	86.68	01-Apr-15 17:00:00		10.87	18.92	83.84	88.24
01-Apr-15 18:00:00	01-Apr-15 19:00:00		1.06	0.00	0.00	4.92	2.1	329.7		0.35	0.00	0.00	1.62		10.35	18.92	83.84	86.68	01-Apr-15 18:00:00		10.70	18.92	83.84	88.30
01-Apr-15 19:00:00	01-Apr-15 20:00:00		0.54	0.00	0.00	5.10

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
03-Apr-15 17:00:00	03-Apr-15 18:00:00		8.47	0.00	0.00	66.56	2.1	329.7		2.79	0.00	0.00	21.94		10.35	18.92	83.84	86.68	03-Apr-15 17:00:00		**13.14**	**18.92**	**83.84**	**108.62**
03-Apr-15 18:00:00	03-Apr-15 19:00:00		9.73	0.00	0.00	4.14	2.1	329.7		3.21	0.00	0.00	1.36		10.35	18.92	83.84	86.68	03-Apr-15 18:00:00		**13.56**	**18.92**	**83.84**	**88.04**
03-Apr-15 19:00:00	03-Apr-15 20:00:00		9.71	0.00	0.00	4.12	2.1	329.7		3.20	0.00	0.00	1.36		10.35	18.92	83.84	86.68	03-Apr-15 19:00:00		**13.55**	**18.92**	**83.84**	**88.04**
03-Apr-15 20:00:00	03-Apr-15 21:00:00		6.18	0.00	0.00	46.47	2.1	329.7		2.04	0.00	0.00	15.32		10.35	18.92	83.84	86.68	03-Apr-15 20:00:00		**12.39**	**18.92**	**83.84**	**102.00**
03-Apr-15 21:00:00	03-Apr-15 22:00:00		4.99	0.00	0.00	4.17	2.1	329.7		1.64	0.00	0.00	1.37		10.35	18.92	83.84	86.68	03-Apr-15 21:00:00		**11.99**	**18.92**	**83.84**	**88.05**
03-Apr-15 22:00:00	03-Apr-15 23:00:00		1.29	0.00	0.00	4.33	2.1	329.7		0.43	0.00	0.00	1.43		10.35	18.92	83.84	86.68	03-Apr-15 22:00:00		**10.78**	**18.92**	**83.84**	**88.11**
03-Apr-15 23:00:00	04-Apr-15 00:00:00		1.66	0.00	0.00	4.49	2.1	329.7		0.55	0.00	0.00	1.48		10.35	18.92	83.84	86.68	03-Apr-15 23:00:00		**10.90**	**18.92**	**83.84**	**88.16**
04-Apr-15 00:00:00	04-Apr-15 01:00:00		0.00	0.00	0.00	4.66	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	04-Apr-15 00:00:00		**10.35**	**18.92**	**83.84**	**88.22**
04-Apr-15 01:00:00	04-Apr-15 02:00:00		0.40	0.00	0.00	4.70	2.1	329.7		0.13	0.00	0.00	1.55		10.35	18.92	83.84	86.68	04-Apr-15 01:00:00		**10.48**	**18.92**	**83.84**	**88.23**
04-Apr-15 02:00:00	04-Apr-15 03:00:00		0.00	0.00	0.00	4.67	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	04-Apr-15 02:00:00		**10.35**	**18.92**	**83.84**	**88.22**
04-Apr-15 03:00:00	04-Apr-15 04:00:00		0.00	0.00	0.00	27.37	2.1	329.7		0.00	0.00	0.00	9.02		10.35	18.92	83.84	86.68	04-Apr-15 03:00:00		**10.35**	**18.92**	**83.84**	**95.70**
04-Apr-15 04:00:00	04-Apr-15 05:00:00		5.03	0.00	0.00	5.23	2.1	329.7		1.66	0.00	0.00	1.72		10.35	18.92	83.84	86.68	04-Apr-15 04:00:00		**12.01**	**18.92**	**83.84**	**88.40**
04-Apr-15 05:00:00	04-Apr-15 06:00:00		28.37	0.00	0.00	5.40	2.1	329.7		9.35	0.00	0.00	1.78		10.35	18.92	83.84	86.68	04-Apr-15 05:00:00		**19.70**	**18.92**	**83.84**	**88.46**
04-Apr-15 06:00:00	04-Apr-15 07:00:00		25.52	0.00	0.00	22.56	2.1	329.7		8.42	0.00	0.00	7.44		10.35	18.92	83.84	86.68	04-Apr-15 06:00:00		**18.77**	**18.92**	**83.84**	**94.12**
04-Apr-15 07:00:00	04-Apr-15 08:00:00		18.33	0.00	0.00	5.36	2.1	329.7		6.04	0.00	0.00	1.77		10.35	18.92	83.84	86.68	04-Apr-15 07:00:00		**16.39**	**18.92**	**83.84**	**88.45**
04-Apr-15 08:00:00	04-Apr-15 09:00:00		13.19	0.00	0.00	5.32	2.1	329.7		4.35	0.00	0.00	1.75		10.35	18.92	83.84	86.68	04-Apr-15 08:00:00		**14.70**	**18.92**	**83.84**	**88.43**
04-Apr-15 09:00:00	04-Apr-15 10:00:00		23.91	0.00	0.00	5.29	2.1	329.7		7.88	0.00	0.00	1.74		10.35	18.92	83.84	86.68	04-Apr-15 09:00:00		**18.23**	**18.92**	**83.84**	**88.42**
04-Apr-15 10:00:00	04-Apr-15 11:00:00		7.74	0.00	0.00	5.28	2.1	329.7		2.55	0.00	0.00	1.74		10.35	18.92	83.84	86.68	04-Apr-15 10:00:00		**12.90**	**18.92**	**83.84**	**88.42**
04-Apr-15 11:00:00	04-Apr-15 12:00:00		24.88	0.00	0.00	5.18	2.1	329.7		8.20	0.00	0.00	1.71		10.35	18.92	83.84	86.68	04-Apr-15 11:00:00		**18.55**	**18.92**	**83.84**	**88.39**
04-Apr-15 12:00:00	04-Apr-15 13:00:00		20.77	0.00	0.00	5.06	2.1	329.7		6.85	0.00	0.00	1.67		10.35	18.92	83.84	86.68	04-Apr-15 12:00:00		**17.20**	**18.92**	**83.84**	**88.35**
04-Apr-15 13:00:00	04-Apr-15 14:00:00		0.00	0.00	0.00	4.94	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	04-Apr-15 13:00:00		**10.35**	**18.92**	**83.84**	**88.31**
04-Apr-15 14:00:00	04-Apr-15 15:00:00		0.00	0.00	0.00	4.84	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	04-Apr-15 14:00:00		**10.35**	**18.92**	**83.84**	**88.28**
04-Apr-15 15:00:00	04-Apr-15 16:00:00		0.00	0.00	0.00	5.49	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	04-Apr-15 15:00:00		**10.35**	**18.92**	**83.84**	**88.49**
04-Apr-15 16:00:00	04-Apr-15 17:00:00		0.00	0.00	0.00	4.99	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	04-Apr-15 16:00:00		**10.35**	**18.92**	**83.84**	**88.32**
04-Apr-15 17:00:00	04-Apr-15 18:00:00		0.00	0.00	0.00	4.91	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	04-Apr-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.30**
04-Apr-15 18:00:00	04-Apr-15 19:00:00		0.00	0.00	0.00	5.12	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	04-Apr-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.37**
04-Apr-15 19:00:00	04-Apr-15 20:00:00		0.00	0.00	0.00	4.91	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	04-Apr-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.30**
04-Apr-15 20:00:00	04-Apr-15 21:00:00		0.00	0.00	0.00	5.26	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	04-Apr-15 20:00:00		**10.35**	**18.92**	**83.84**	**88.41**
04-Apr-15 21:00:00	04-Apr-15 22:00:00		0.00	0.00	0.00	5.61	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	04-Apr-15 21:00:00		**10.35**	**18.92**	**83.84**	**88.53**
04-Apr-15 22:00:00	04-Apr-15 23:00:00		9.05	0.00	0.00	68.93	2.1	329.7		2.98	0.00	0.00	22.73		10.35	18.92	83.84	86.68	04-Apr-15 22:00:00		**13.33**	**18.92**	**83.84**	**109.41**
04-Apr-15 23:00:00	05-Apr-15 00:00:00		2.08	0.00	0.00	5.99	2.1	329.7		0.69	0.00	0.00	1.98		10.35	18.92	83.84	86.68	04-Apr-15 23:00:00		**11.04**	**18.92**	**83.84**	**88.66**
05-Apr-15 00:00:00	05-Apr-15 01:00:00		5.92	0.00	0.00	6.21	2.1	329.7		1.95	0.00	0.00	2.05		10.35	18.92	83.84	86.68	05-Apr-15 00:00:00		**12.30**	**18.92**	**83.84**	**88.73**
05-Apr-15 01:00:00	05-Apr-15 02:00:00		2.24	0.00	0.00	6.42	2.1	329.7		0.74	0.00	0.00	2.12		10.35	18.92	83.84	86.68	05-Apr-15 01:00:00		**11.09**	**18.92**	**83.84**	**88.80**
05-Apr-15 02:00:00	05-Apr-15 03:00:00		0.51	0.00	0.00	6.65	2.1	329.7		0.17	0.00	0.00	2.19		10.35	18.92	83.84	86.68	05-Apr-15 02:00:00		**10.52**	**18.92**	**83.84**	**88.87**
05-Apr-15 03:00:00	05-Apr-15 04:00:00		12.60	0.00	0.00	6.79	2.1	329.7		4.15	0.00	0.00	2.24		10.35	18.92	83.84	86.68	05-Apr-15 03:00:00		**14.50**	**18.92**	**83.84**	**88.92**
05-Apr-15 04:00:00	05-Apr-15 05:00:00		17.94	0.00	0.00	6.79	2.1	329.7		5.92	0.00	0.00	2.24		10.35	18.92	83.84	86.68	05-Apr-15 04:00:00		**16.27**	**18.92**	**83.84**	**88.92**
05-Apr-15 05:00:00	05-Apr-15 06:00:00		23.81	0.00	0.00	6.79	2.1	329.7		7.85	0.00	0.00	2.24		10.35	18.92	83.84	86.68	05-Apr-15 05:00:00		**18.20**	**18.92**	**83.84**	**88.92**
05-Apr-15 06:00:00	05-Apr-15 07:00:00		3.50	0.00	0.00	6.79	2.1	329.7		1.15	0.00	0.00	2.24		10.35	18.92	83.84	86.68	05-Apr-15 06:00:00		**11.50**	**18.92**	**83.84**	**88.92**
05-Apr-15 07:00:00	05-Apr-15 08:00:00		4.15	0.00	0.00	25.82	2.1	329.7		1.37	0.00	0.00	8.51		10.35	18.92	83.84	86.68	05-Apr-15 07:00:00		**11.72**	**18.92**	**83.84**	**95.19**
05-Apr-15 08:00:00	05-Apr-15 09:00:00		0.00	0.00	0.00	6.80	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	05-Apr-15 08:00:00		**10.35**	**18.92**	**83.84**	**88.92**
05-Apr-15 09:00:00	05-Apr-15 10:00:00		0.00	0.00	0.00	6.56	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	05-Apr-15 09:00:00		**10.35**	**18.92**	**83.84**	**88.84**
05-Apr-15 10:00:00	05-Apr-15 11:00:00		0.31	0.00	0.00	13.11	2.1	329.7		0.10	0.00	0.00	4.32		10.35	18.92	83.84	86.68	05-Apr-15 10:00:00		**10.45**	**18.92**	**83.84**	**91.00**
05-Apr-15 11:00:00	05-Apr-15 12:00:00		0.13	0.00	0.00	6.13	2.1	329.7		0.04	0.00	0.00	2.02		10.35	18.92	83.84	86.68	05-Apr-15 11:00:00		**10.39**	**18.92**	**83.84**	**88.70**
05-Apr-15 12:00:00	05-Apr-15 13:00:00		7.49	0.00	0.00	5.87	2.1	329.7		2.47	0.00	0.00	1.93		10.35	18.92	83.84	86.68	05-Apr-15 12:00:00		**12.82**	**18.92**	**83.84**	**88.61**
05-Apr-15 13:00:00	05-Apr-15 14:00:00		17.70	0.00	0.00	5.60	2.1	329.7		5.84	0.00	0.00	1.85		10.35	18.92	83.84	86.68	05-Apr-15 13:00:00		**16.19**	**18.92**	**83.84**	**88.53**
05-Apr-15 14:00:00	05-Apr-15 15:00:00		10.00	0.00	0.00	5.34	2.1	329.7		3.30	0.00	0.00	1.76		10.35	18.92	83.84	86.68	05-Apr-15 14:00:00		**13.65**	**18.92**	**83.84**	**88.44**
05-Apr-15 15:00:00	05-Apr-15 16:00:00		10.50	0.00	0.00	5.13	2.1	329.7		3.46	0.00	0.00	1.69		10.35	18.92	83.84	86.68	05-Apr-15 15:00:00		**13.81**	**18.92**	**83.84**	**88.37**
05-Apr-15 16:00:00	05-Apr-15 17:00:00		11.03	0.00	0.00	33.15	2.1	329.7		3.64	0.00	0.00	10.93		10.35	18.92	83.84	86.68	05-Apr-15 16:00:00		**13.99**	**18.92**	**83.84**	**97.61**
05-Apr-15 17:00:00	05-Apr-15 18:00:00		4.63	0.00	0.00	86.58	2.1	329.7		1.53	0.00	0.00	28.55		10.35	18.92	83.84	86.68	05-Apr-15 17:00:00		**11.88**	**18.92**	**83.84**	**115.23**
05-Apr-15 18:00:00	05-Apr-15 19:00:00		2.71	0.00	0.00	4.90	2.1	329.7		0.89	0.00	0.00	1.61		10.35	18.92	83.84	86.68	05-Apr-15 18:00:00		**11.24**	**18.92**	**83.84**	**88.29**
05-Apr-15 19:00:00	05-Apr-15 20:00:00		31.83	0.00	0.00	4.91	2.1	329.7		10.49	0.00	0.00	1.62		10.35	18.92	83.84	86.68	05-Apr-15 19:00:00		**20.84**	**18.92**	**83.84**	**88.30**
05-Apr-15 20:00:00	05-Apr-15 21:00:00		457.40	0.00	0.00	4.91	2.1	329.7		150.80	0.00	0.00	1.62		10.35	18.92	83.84	86.68	05-Apr-15 20:00:00		**161.15**	**18.92**	**83.84**	**88.30**
05-Apr-15 21:00:00	05-Apr-15 22:00:00		609.38	0.00	0.00	5.09	2.1	329.7		200.91	0.00	0.00	1.68		10.35	18.92	83.84	86.68	05-Apr-15 21:00:00		**211.26**	**18.92**	**83.84**	**88.36**
05-Apr-15 22:00:00	05-Apr-15 23:00:00		612.88	0.00	0.00	5.45	2.1	329.7		202.07	0.00	0.00	1.80		10.35	18.92	83.84	86.68	05-Apr-15 22:00:00		**212.42**	**18.92**	**83.84**	**88.48**
05-Apr-15 23:00:00	06-Apr-15 00:00:00		617.96	0.00	0.00	22.64	2.1	329.7		203.74	0.00	0.00	7.46		10.35	18.92	83.84	86.68	05-Apr-15 23:00:00		**214.09**	**18.92**	**83.84**	**94.14**
06-Apr-15 00:00:00	06-Apr-15 01:00:00		495.83	0.00	0.00	6.48	2.1	329.7		163.48	0.00	0.00	2.14		10.35	18.92	83.84	86.68	06-Apr-15 00:00:00		**173.83**	**18.92**	**83.84**	**88.82**
06-Apr-15 01:00:00	06-Apr-15 02:00:00		466.16	0.00	0.00	6.44	2.1	329.7		153.69	0.00	0.00	2.12		10.35	18.92	83.84	86.68	06-Apr-15 01:00:00		**164.04**	**18.92**	**83.84**	**88.80**
06-Apr-15 02:00:00	06-Apr-15 03:00:00		587.10	0.00	0.00	60.04	2.1	329.7		193.57	0.00	0.00	19.79		10.35	18.92	83.84	86.68	06-Apr-15 02:00:00		**203.92**	**18.92**	**83.84**	**106.47**
06-Apr-15 03:00:00	06-Apr-15 04:00:00		176.86	0.00	0.00	6.31	2.1	329.7		58.31	0.00	0.00	2.08		10.35	18.92	83.84	86.68	06-Apr-15 03:00:00		**68.66**	**18.92**	**83.84**	**88.76**
06-Apr-15 04:00:00	06-Apr-15 05:00:00		8.45	0.00	0.00	6.21	2.1	329.7		2.78	0.00	0.00	2.05		10.35	18.92	83.84	86.68	06-Apr-15 04:00:00		**13.13**	**18.92**	**83.84**	**88.73**
06-Apr-15 05:00:00	06-Apr-15 06:00:00		8.24	0.00	0.00	12.53	2.1	329.7		2.72	0.00	0.00	4.13		10.35	18.92	83.84	86.68	06-Apr-15 05:00:00		**13.07**	**18.92**	**83.84**	**90.81**
06-Apr-15 06:00:00	06-Apr-15 07:00:00		8.02	0.00	0.00	6.62	2.1	329.7		2.64	0.00	0.00	2.18		10.35	18.92	83.84	86.68	06-Apr-15 06:00:00		**12.99**	**18.92**	**83.84**	**88.86**
06-Apr-15 07:00:00	06-Apr-15 08:00:00		7.80	0.00	0.00	6.14	2.1	329.7		2.57	0.00	0.00	2.02		10.35	18.92	83.84	86.68	06-Apr-15 07:00:00		**12.92**	**18.92**	**83.84**	**88.70**
06-Apr-15 08:00:00	06-Apr-15 09:00:00		7.60	0.00	0.00	5.96	2.1	329.7		2.51	0.00	0.00	1.97		10.35	18.92	83.84	86.68	06-Apr-15 08:00:00		**12.86**	**18.92**	**83.84**	**88.65**
06-Apr-15 09:00:00	06-Apr-15 10:00:00		7.26	0.00	0.00	21.69	2.1	329.7		2.39	0.00	0.00	7.15		10.35	18.92	83.84	86.68	06-Apr-15 09:00:00		**12.74**	**18.92**	**83.84**	**93.83**
06-Apr-15 10:00:00	06-Apr-15 11:00:00		5.03	0.00	0.00	5.48	2.1	329.7		1.66	0.00	0.00	1.81		10.35	18.92	83.84	86.68	06-Apr-15 10:00:00		**12.01**	**18.92**	**83.84**	**88.49**
06-Apr-15 11:00:00	06-Apr-15 12:00:00		1.43	0.00	0.00	5.15	2.1	329.7		0.47	0.00	0.00	1.70		10.35	18.92	83.84	86.68	06-Apr-15 11:00:00		**10.82**	**18.92**	**83.84**	**88.38**
06-Apr-15 12:00:00	06-Apr-15 13:00:00		1.97	0.00	0.00	29.39	2.1	329.7		0.65	0.00	0.00	9.69		10.35	18.92	83.84	86.68	06-Apr-15 12:00:00		**11.00**	**18.92**	**83.84**	**96.37**
06-Apr-15 13:00:00	06-Apr-15 14:00:00		2.26	0.00	0.00	4.55	2.1	329.7		0.74	0.00	0.00	1.50		10.35	18.92	83.84	86.68	06-Apr-15 13:00:00		**11.09**	**18.92**	**83.84**	**88.18**
06-Apr-15 14:00:00	06-Apr-15 15:00:00		4.68	0.00	0.00	195.40	2.1	329.7		1.54	0.00	0.00	64.42		10.35	18.92	83.84	86.68	06-Apr-15 14:00:00		**11.89**	**18.92**	**83.84**	**151.10**
06-Apr-15 15:00:00	06-Apr-15 16:00:00		1.18	0.00	0.00	188.67	2.1	329.7		0.39	0.00	0.00	62.21		10.35	18.92	83.84	86.68	06-Apr-15 15:00:00		**10.74**	**18.92**	**83.84**	**148.89**
06-Apr-15 16:00:00	06-Apr-15 17:00:00		3.64	0.00	0.00	4.14	2.1	329.7		1.20	0.00	0.00	1.36		10.35	18.92	83.84	86.68	06-Apr-15 16:00:00		**11.55**	**18.92**	**83.84**	**88.04**
06-Apr-15 17:00:00	06-Apr-15 18:00:00		11.37	0.00	0.00	4.21	2.1	329.7		3.75	0.00	0.00	1.39		10.35	18.92	83.84	86.68	06-Apr-15 17:00:00		**14.10**	**18.92**	**83.84**	**88.07**
06-Apr-15 18:00:00	06-Apr-15 19:00:00		15.73	0.00	0.00	66.96	2.1	329.7		5.19	0.00	0.00	22.08		10.35	18.92	83.84	86.68	06-Apr-15 18:00:00		**15.54**	**18.92**	**83.84**	**108.76**
06-Apr-15 19:00:00	06-Apr-15 20:00:00		12.55	0.00	0.00	4.58	2.1	329.7		4.14	0.00	0.00	1.51		10.35	18.92	83.84	86.68	06-Apr-15 19:00:00		**14.49**	**18.92**	**83.84**	**88.19**
06-Apr-15 20:00:00	06-Apr-15 21:00:00		12.04	0.00	0.00	4.74	2.1	329.7		3.97	0.00	0.00	1.56		10.35	18.92	83.84	86.68	06-Apr-15 20:00:00		**14.32**	**18.92**	**83.84**	**88.24**
06-Apr-15 21:00:00	06-Apr-15 22:00:00		12.32	0.00	0.00	15.18	2.1	329.7		4.06	0.00	0.00	5.01		10.35	18.92	83.84	86.68	06-Apr-15 21:00:00		**14.41**	**18.92**	**83.84**	**91.69**
06-Apr-15 22:00:00	06-Apr-15 23:00:00		11.10	0.00	0.00	36.85	2.1	329.7		3.66	0.00	0.00	12.15		10.35	18.92	83.84	86.68	06-Apr-15 22:00:00		**14.01**	**18.92**	**83.84**	**98.83**
06-Apr-15 23:00:00	07-Apr-15 00:00:00		7.89	0.00	0.00	5.26	2.1	329.7		2.60	0.00	0.00	1.73		10.35	18.92	83.84	86.68	06-Apr-15 23:00:00		**12.95**	**18.92**	**83.84**	**88.41**
07-Apr-15 00:00:00	07-Apr-15 01:00:00		0.76	0.00	0.00	5.33	2.1	329.7		0.25	0.00	0.00	1.76		10.35	18.92	83.84	86.68	07-Apr-15 00:00:00		**10.60**	**18.92**	**83.84**	**88.44**
07-Apr-15 01:00:00	07-Apr-15 02:00:00		4.67	0.00	0.00	6.10	2.1	329.7		1.54	0.00	0.00	2.01		10.35	18.92	83.84	86.68	07-Apr-15 01:00:00		**11.89**	**18.92**	**83.84**	**88.69**
07-Apr-15 02:00:00	07-Apr-15 03:00:00		0.30	0.00	0.00	5.38	2.1	329.7		0.10	0.00	0.00	1.77		10.35	18.92	83.84	86.68	07-Apr-15 02:00:00		**10.45**	**18.92**	**83.84**	**88.45**
07-Apr-15 03:00:00	07-Apr-15 04:00:00		0.00	0.00	0.00	5.55	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	07-Apr-15 03:00:00		**10.35**	**18.92**	**83.84**	**88.51**
07-Apr-15 04:00:00	07-Apr-15 05:00:00		0.00	0.00	0.00	5.71	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	07-Apr-15 04:00:00		**10.35**	**18.92**	**83.84**	**88.56**
07-Apr-15 05:00:00	07-Apr-15 06:00:00		1.58	0.00	0.00	5.87	2.1	329.7		0.52	0.00	0.00	1.94		10.35	18.92	83.84	86.68	07-Apr-15 05:00:00		**10.87**	**18.92**	**83.84**	**88.62**
07-Apr-15 06:00:00	07-Apr-15 07:00:00		0.00	0.00	0.00	5.81	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	07-Apr-15 06:00:00		**10.35**	**18.92**	**83.84**	**88.60**
07-Apr-15 07:00:00	07-Apr-15 08:00:00		0.00	0.00	0.00	5.65	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	07-Apr-15 07:00:00		**10.35**	**18.92**	**83.84**	**88.54**
07-Apr-15 08:00:00	07-Apr-15 09:00:00		0.00	0.00	0.00	5.49	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	07-Apr-15 08:00:00		**10.35**	**18.92**	**83.84**	**88.49**
07-Apr-15 09:00:00	07-Apr-15 10:00:00		0.00	0.00	0.00	5.34	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	07-Apr-15 09:00:00		**10.35**	**18.92**	**83.84**	**88.44**
07-Apr-15 10:00:00	07-Apr-15 11:00:00		0.00	0.00	0.00	5.20	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	07-Apr-15 10:00:00		**10.35**	**18.92**	**83.84**	**88.39**
07-Apr-15 11:00:00	07-Apr-15 12:00:00		0.00	0.00	0.00	4.98	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	07-Apr-15 11:00:00		**10.35**	**18.92**	**83.84**	**88.32**
07-Apr-15 12:00:00	07-Apr-15 13:00:00		0.12	0.00	0.00	4.76	2.1	329.7		0.04	0.00	0.00	1.57		10.35	18.92	83.84	86.68	07-Apr-15 12:00:00		**10.39**	**18.92**	**83.84**	**88.25**
07-Apr-15 13:00:00	07-Apr-15 14:00:00		0.00	0.00	0.12	4.55	2.1	329.7		0.00	0.00	0.04	1.50		10.35	18.92	83.84	86.68	07-Apr-15 13:00:00		**10.35**	**18.92**	**83.88**	**88.18**
07-Apr-15 14:00:00	07-Apr-15 15:00:00		1.15	32.21	2.66	4.50

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
09-Apr-15 12:00:00	09-Apr-15 13:00:00		2.35	0.00	0.00	4.27	2.1	329.7		0.78	0.00	0.00	1.41		10.35	18.92	83.84	86.68	09-Apr-15 12:00:00		**11.13**	**18.92**	**83.84**	**88.09**
09-Apr-15 13:00:00	09-Apr-15 14:00:00		11.43	0.00	0.00	4.07	2.1	329.7		3.83	0.00	0.00	1.34		10.35	18.92	83.84	86.68	09-Apr-15 13:00:00		**14.18**	**18.92**	**83.84**	**88.02**
09-Apr-15 14:00:00	09-Apr-15 15:00:00		4.02	0.00	0.00	57.47	2.1	329.7		1.33	0.00	0.00	18.95		10.35	18.92	83.84	86.68	09-Apr-15 14:00:00		**11.68**	**18.92**	**83.84**	**105.63**
09-Apr-15 15:00:00	09-Apr-15 16:00:00		20.55	0.00	0.00	3.98	2.1	329.7		6.77	0.00	0.00	1.31		10.35	18.92	83.84	86.68	09-Apr-15 15:00:00		**17.12**	**18.92**	**83.84**	**87.99**
09-Apr-15 16:00:00	09-Apr-15 17:00:00		21.49	0.00	0.00	3.94	2.1	329.7		7.08	0.00	0.00	1.30		10.35	18.92	83.84	86.68	09-Apr-15 16:00:00		**17.43**	**18.92**	**83.84**	**87.98**
09-Apr-15 17:00:00	09-Apr-15 18:00:00		14.95	0.00	0.00	18.24	2.1	329.7		4.93	0.00	0.00	6.01		10.35	18.92	83.84	86.68	09-Apr-15 17:00:00		**15.28**	**18.92**	**83.84**	**92.69**
09-Apr-15 18:00:00	09-Apr-15 19:00:00		3.83	0.00	0.00	3.85	2.1	329.7		1.26	0.00	0.00	1.27		10.35	18.92	83.84	86.68	09-Apr-15 18:00:00		**11.61**	**18.92**	**83.84**	**87.95**
09-Apr-15 19:00:00	09-Apr-15 20:00:00		8.52	0.00	0.00	3.91	2.1	329.7		2.81	0.00	0.00	1.29		10.35	18.92	83.84	86.68	09-Apr-15 19:00:00		**13.16**	**18.92**	**83.84**	**87.97**
09-Apr-15 20:00:00	09-Apr-15 21:00:00		13.92	0.00	0.00	3.97	2.1	329.7		4.59	0.00	0.00	1.31		10.35	18.92	83.84	86.68	09-Apr-15 20:00:00		**14.94**	**18.92**	**83.84**	**87.99**
09-Apr-15 21:00:00	09-Apr-15 22:00:00		10.60	0.00	0.00	4.13	2.1	329.7		3.49	0.00	0.00	1.36		10.35	18.92	83.84	86.68	09-Apr-15 21:00:00		**13.84**	**18.92**	**83.84**	**88.04**
09-Apr-15 22:00:00	09-Apr-15 23:00:00		7.36	0.00	0.00	4.45	2.1	329.7		2.43	0.00	0.00	1.47		10.35	18.92	83.84	86.68	09-Apr-15 22:00:00		**12.78**	**18.92**	**83.84**	**88.15**
09-Apr-15 23:00:00	10-Apr-15 00:00:00		1.33	0.00	0.00	7.85	2.1	329.7		0.44	0.00	0.00	2.59		10.35	18.92	83.84	86.68	09-Apr-15 23:00:00		**10.79**	**18.92**	**83.84**	**89.27**
10-Apr-15 00:00:00	10-Apr-15 01:00:00		6.81	0.00	0.00	4.89	2.1	329.7		2.25	0.00	0.00	1.61		10.35	18.92	83.84	86.68	10-Apr-15 00:00:00		**12.60**	**18.92**	**83.84**	**88.29**
10-Apr-15 01:00:00	10-Apr-15 02:00:00		3.77	0.00	0.00	5.02	2.1	329.7		1.24	0.00	0.00	1.66		10.35	18.92	83.84	86.68	10-Apr-15 01:00:00		**11.59**	**18.92**	**83.84**	**88.34**
10-Apr-15 02:00:00	10-Apr-15 03:00:00		7.05	0.00	0.00	5.15	2.1	329.7		2.33	0.00	0.00	1.70		10.35	18.92	83.84	86.68	10-Apr-15 02:00:00		**12.68**	**18.92**	**83.84**	**88.38**
10-Apr-15 03:00:00	10-Apr-15 04:00:00		17.18	0.00	0.00	67.76	2.1	329.7		5.66	0.00	0.00	22.34		10.35	18.92	83.84	86.68	10-Apr-15 03:00:00		**16.01**	**18.92**	**83.84**	**109.02**
10-Apr-15 04:00:00	10-Apr-15 05:00:00		5.45	0.00	0.00	5.24	2.1	329.7		1.80	0.00	0.00	1.73		10.35	18.92	83.84	86.68	10-Apr-15 04:00:00		**12.15**	**18.92**	**83.84**	**88.41**
10-Apr-15 05:00:00	10-Apr-15 06:00:00		6.83	0.00	0.00	5.23	2.1	329.7		2.25	0.00	0.00	1.73		10.35	18.92	83.84	86.68	10-Apr-15 05:00:00		**12.60**	**18.92**	**83.84**	**88.41**
10-Apr-15 06:00:00	10-Apr-15 07:00:00		18.38	0.00	0.00	5.23	2.1	329.7		6.06	0.00	0.00	1.72		10.35	18.92	83.84	86.68	10-Apr-15 06:00:00		**16.41**	**18.92**	**83.84**	**88.40**
10-Apr-15 07:00:00	10-Apr-15 08:00:00		9.16	0.00	0.00	5.24	2.1	329.7		3.02	0.00	0.00	1.73		10.35	18.92	83.84	86.68	10-Apr-15 07:00:00		**13.37**	**18.92**	**83.84**	**88.41**
10-Apr-15 08:00:00	10-Apr-15 09:00:00		0.00	0.00	0.00	5.28	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	10-Apr-15 08:00:00		**10.35**	**18.92**	**83.84**	**88.42**
10-Apr-15 09:00:00	10-Apr-15 10:00:00		0.00	0.00	0.00	5.63	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	10-Apr-15 09:00:00		**10.35**	**18.92**	**83.84**	**88.54**
10-Apr-15 10:00:00	10-Apr-15 11:00:00		0.00	0.00	0.00	5.15	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	10-Apr-15 10:00:00		**10.35**	**18.92**	**83.84**	**88.38**
10-Apr-15 11:00:00	10-Apr-15 12:00:00		0.71	0.00	0.00	5.00	2.1	329.7		0.23	0.00	0.00	1.65		10.35	18.92	83.84	86.68	10-Apr-15 11:00:00		**10.58**	**18.92**	**83.84**	**88.33**
10-Apr-15 12:00:00	10-Apr-15 13:00:00		9.32	0.00	0.00	4.85	2.1	329.7		3.07	0.00	0.00	1.60		10.35	18.92	83.84	86.68	10-Apr-15 12:00:00		**13.42**	**18.92**	**83.84**	**88.28**
10-Apr-15 13:00:00	10-Apr-15 14:00:00		4.23	0.00	0.00	6.38	2.1	329.7		1.39	0.00	0.00	2.10		10.35	18.92	83.84	86.68	10-Apr-15 13:00:00		**11.74**	**18.92**	**83.84**	**88.78**
10-Apr-15 14:00:00	10-Apr-15 15:00:00		3.16	0.00	0.00	4.74	2.1	329.7		1.04	0.00	0.00	1.56		10.35	18.92	83.84	86.68	10-Apr-15 14:00:00		**11.39**	**18.92**	**83.84**	**88.24**
10-Apr-15 15:00:00	10-Apr-15 16:00:00		13.41	0.00	0.00	4.63	2.1	329.7		4.42	0.00	0.00	1.53		10.35	18.92	83.84	86.68	10-Apr-15 15:00:00		**14.77**	**18.92**	**83.84**	**88.21**
10-Apr-15 16:00:00	10-Apr-15 17:00:00		9.91	0.00	0.00	5.30	2.1	329.7		3.27	0.00	0.00	1.75		10.35	18.92	83.84	86.68	10-Apr-15 16:00:00		**13.62**	**18.92**	**83.84**	**88.43**
10-Apr-15 17:00:00	10-Apr-15 18:00:00		8.01	0.00	0.00	4.78	2.1	329.7		2.64	0.00	0.00	1.58		10.35	18.92	83.84	86.68	10-Apr-15 17:00:00		**12.99**	**18.92**	**83.84**	**88.26**
10-Apr-15 18:00:00	10-Apr-15 19:00:00		8.15	0.00	0.00	4.80	2.1	329.7		2.69	0.00	0.00	1.58		10.35	18.92	83.84	86.68	10-Apr-15 18:00:00		**13.04**	**18.92**	**83.84**	**88.26**
10-Apr-15 19:00:00	10-Apr-15 20:00:00		4.24	0.00	0.00	6.06	2.1	329.7		1.40	0.00	0.00	2.00		10.35	18.92	83.84	86.68	10-Apr-15 19:00:00		**11.75**	**18.92**	**83.84**	**88.68**
10-Apr-15 20:00:00	10-Apr-15 21:00:00		1.31	0.00	0.00	4.74	2.1	329.7		0.43	0.00	0.00	1.56		10.35	18.92	83.84	86.68	10-Apr-15 20:00:00		**10.78**	**18.92**	**83.84**	**88.24**
10-Apr-15 21:00:00	10-Apr-15 22:00:00		3.61	0.00	0.00	4.76	2.1	329.7		1.19	0.00	0.00	1.57		10.35	18.92	83.84	86.68	10-Apr-15 21:00:00		**11.54**	**18.92**	**83.84**	**88.25**
10-Apr-15 22:00:00	10-Apr-15 23:00:00		3.94	0.00	0.00	4.78	2.1	329.7		1.30	0.00	0.00	1.57		10.35	18.92	83.84	86.68	10-Apr-15 22:00:00		**11.65**	**18.92**	**83.84**	**88.25**
10-Apr-15 23:00:00	11-Apr-15 00:00:00		18.76	0.00	0.00	4.78	2.1	329.7		6.19	0.00	0.00	1.58		10.35	18.92	83.84	86.68	10-Apr-15 23:00:00		**16.54**	**18.92**	**83.84**	**88.26**
11-Apr-15 00:00:00	11-Apr-15 01:00:00		21.71	0.00	0.00	4.75	2.1	329.7		7.16	0.00	0.00	1.57		10.35	18.92	83.84	86.68	11-Apr-15 00:00:00		**17.51**	**18.92**	**83.84**	**88.25**
11-Apr-15 01:00:00	11-Apr-15 02:00:00		14.64	0.00	0.00	7.11	2.1	329.7		4.83	0.00	0.00	2.34		10.35	18.92	83.84	86.68	11-Apr-15 01:00:00		**15.18**	**18.92**	**83.84**	**89.02**
11-Apr-15 02:00:00	11-Apr-15 03:00:00		5.86	0.00	0.00	4.91	2.1	329.7		1.93	0.00	0.00	1.62		10.35	18.92	83.84	86.68	11-Apr-15 02:00:00		**12.28**	**18.92**	**83.84**	**88.30**
11-Apr-15 03:00:00	11-Apr-15 04:00:00		7.28	0.00	0.00	4.96	2.1	329.7		2.40	0.00	0.00	1.64		10.35	18.92	83.84	86.68	11-Apr-15 03:00:00		**12.75**	**18.92**	**83.84**	**88.32**
11-Apr-15 04:00:00	11-Apr-15 05:00:00		5.81	0.00	0.00	5.01	2.1	329.7		1.92	0.00	0.00	1.65		10.35	18.92	83.84	86.68	11-Apr-15 04:00:00		**12.27**	**18.92**	**83.84**	**88.33**
11-Apr-15 05:00:00	11-Apr-15 06:00:00		6.34	0.00	0.00	5.07	2.1	329.7		2.09	0.00	0.00	1.67		10.35	18.92	83.84	86.68	11-Apr-15 05:00:00		**12.44**	**18.92**	**83.84**	**88.35**
11-Apr-15 06:00:00	11-Apr-15 07:00:00		4.87	0.00	0.00	5.18	2.1	329.7		1.61	0.00	0.00	1.71		10.35	18.92	83.84	86.68	11-Apr-15 06:00:00		**11.96**	**18.92**	**83.84**	**88.39**
11-Apr-15 07:00:00	11-Apr-15 08:00:00		0.00	0.00	0.00	5.28	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	11-Apr-15 07:00:00		**10.35**	**18.92**	**83.84**	**88.42**
11-Apr-15 08:00:00	11-Apr-15 09:00:00		0.00	0.00	0.00	9.78	2.1	329.7		0.00	0.00	0.00	3.22		10.35	18.92	83.84	86.68	11-Apr-15 08:00:00		**10.35**	**18.92**	**83.84**	**89.90**
11-Apr-15 09:00:00	11-Apr-15 10:00:00		1.36	0.00	0.00	5.47	2.1	329.7		0.45	0.00	0.00	1.80		10.35	18.92	83.84	86.68	11-Apr-15 09:00:00		**10.80**	**18.92**	**83.84**	**88.48**
11-Apr-15 10:00:00	11-Apr-15 11:00:00		0.00	0.00	0.00	5.41	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	11-Apr-15 10:00:00		**10.35**	**18.92**	**83.84**	**88.46**
11-Apr-15 11:00:00	11-Apr-15 12:00:00		246.15	0.00	0.00	6.77	2.1	329.7		81.16	0.00	0.00	2.23		10.35	18.92	83.84	86.68	11-Apr-15 11:00:00		**91.51**	**18.92**	**83.84**	**88.91**
11-Apr-15 12:00:00	11-Apr-15 13:00:00		1,152.28	0.00	0.00	5.07	2.1	329.7		379.91	0.00	0.00	1.67		10.35	18.92	83.84	86.68	11-Apr-15 12:00:00		**390.26**	**18.92**	**83.84**	**88.35**
11-Apr-15 13:00:00	11-Apr-15 14:00:00		1,356.10	0.00	0.00	4.91	2.1	329.7		447.11	0.00	0.00	1.62		10.35	18.92	83.84	86.68	11-Apr-15 13:00:00		**457.46**	**18.92**	**83.84**	**88.30**
11-Apr-15 14:00:00	11-Apr-15 15:00:00		1,335.16	0.00	0.00	12.61	2.1	329.7		440.20	0.00	0.00	4.16		10.35	18.92	83.84	86.68	11-Apr-15 14:00:00		**450.55**	**18.92**	**83.84**	**90.84**
11-Apr-15 15:00:00	11-Apr-15 16:00:00		1,361.24	0.00	0.00	4.62	2.1	329.7		448.80	0.00	0.00	1.52		10.35	18.92	83.84	86.68	11-Apr-15 15:00:00		**459.15**	**18.92**	**83.84**	**88.20**
11-Apr-15 16:00:00	11-Apr-15 17:00:00		1,797.79	0.00	0.00	4.51	2.1	329.7		592.73	0.00	0.00	1.49		10.35	18.92	83.84	86.68	11-Apr-15 16:00:00		**603.08**	**18.92**	**83.84**	**88.17**
11-Apr-15 17:00:00	11-Apr-15 18:00:00		1,884.93	0.00	0.00	4.40	2.1	329.7		621.46	0.00	0.00	1.45		10.35	18.92	83.84	86.68	11-Apr-15 17:00:00		**631.81**	**18.92**	**83.84**	**88.13**
11-Apr-15 18:00:00	11-Apr-15 19:00:00		1,878.15	0.00	0.00	4.29	2.1	329.7		619.23	0.00	0.00	1.42		10.35	18.92	83.84	86.68	11-Apr-15 18:00:00		**629.58**	**18.92**	**83.84**	**88.10**
11-Apr-15 19:00:00	11-Apr-15 20:00:00		1,877.80	0.00	0.00	4.42	2.1	329.7		619.11	0.00	0.00	1.46		10.35	18.92	83.84	86.68	11-Apr-15 19:00:00		**629.46**	**18.92**	**83.84**	**88.14**
11-Apr-15 20:00:00	11-Apr-15 21:00:00		1,892.79	0.00	0.00	4.82	2.1	329.7		624.05	0.00	0.00	1.59		10.35	18.92	83.84	86.68	11-Apr-15 20:00:00		**634.40**	**18.92**	**83.84**	**88.27**
11-Apr-15 21:00:00	11-Apr-15 22:00:00		1,906.92	0.00	0.00	5.21	2.1	329.7		628.71	0.00	0.00	1.72		10.35	18.92	83.84	86.68	11-Apr-15 21:00:00		**639.06**	**18.92**	**83.84**	**88.40**
11-Apr-15 22:00:00	11-Apr-15 23:00:00		1,955.65	0.00	0.00	5.62	2.1	329.7		644.78	0.00	0.00	1.85		10.35	18.92	83.84	86.68	11-Apr-15 22:00:00		**655.13**	**18.92**	**83.84**	**88.53**
11-Apr-15 23:00:00	12-Apr-15 00:00:00		1,634.08	0.00	0.00	5.90	2.1	329.7		538.76	0.00	0.00	1.94		10.35	18.92	83.84	86.68	11-Apr-15 23:00:00		**549.11**	**18.92**	**83.84**	**88.62**
12-Apr-15 00:00:00	12-Apr-15 01:00:00		1,194.05	0.00	0.00	5.91	2.1	329.7		393.68	0.00	0.00	1.95		10.35	18.92	83.84	86.68	12-Apr-15 00:00:00		**404.03**	**18.92**	**83.84**	**88.63**
12-Apr-15 01:00:00	12-Apr-15 02:00:00		1,192.79	0.00	0.00	5.93	2.1	329.7		393.26	0.00	0.00	1.95		10.35	18.92	83.84	86.68	12-Apr-15 01:00:00		**403.61**	**18.92**	**83.84**	**88.63**
12-Apr-15 02:00:00	12-Apr-15 03:00:00		1,178.77	0.00	0.00	5.95	2.1	329.7		388.64	0.00	0.00	1.96		10.35	18.92	83.84	86.68	12-Apr-15 02:00:00		**398.99**	**18.92**	**83.84**	**88.64**
12-Apr-15 03:00:00	12-Apr-15 04:00:00		1,174.99	0.00	0.00	6.10	2.1	329.7		387.40	0.00	0.00	2.01		10.35	18.92	83.84	86.68	12-Apr-15 03:00:00		**397.75**	**18.92**	**83.84**	**88.69**
12-Apr-15 04:00:00	12-Apr-15 05:00:00		1,170.09	0.00	0.00	6.11	2.1	329.7		385.78	0.00	0.00	2.02		10.35	18.92	83.84	86.68	12-Apr-15 04:00:00		**396.13**	**18.92**	**83.84**	**88.70**
12-Apr-15 05:00:00	12-Apr-15 06:00:00		1,180.08	0.00	0.00	6.12	2.1	329.7		389.07	0.00	0.00	2.02		10.35	18.92	83.84	86.68	12-Apr-15 05:00:00		**399.42**	**18.92**	**83.84**	**88.70**
12-Apr-15 06:00:00	12-Apr-15 07:00:00		1,182.87	0.00	0.00	6.13	2.1	329.7		389.99	0.00	0.00	2.02		10.35	18.92	83.84	86.68	12-Apr-15 06:00:00		**400.34**	**18.92**	**83.84**	**88.70**
12-Apr-15 07:00:00	12-Apr-15 08:00:00		1,190.68	0.00	0.00	6.06	2.1	329.7		392.57	0.00	0.00	2.00		10.35	18.92	83.84	86.68	12-Apr-15 07:00:00		**402.92**	**18.92**	**83.84**	**88.68**
12-Apr-15 08:00:00	12-Apr-15 09:00:00		1,138.43	0.00	0.00	5.97	2.1	329.7		375.34	0.00	0.00	1.97		10.35	18.92	83.84	86.68	12-Apr-15 08:00:00		**385.69**	**18.92**	**83.84**	**88.65**
12-Apr-15 09:00:00	12-Apr-15 10:00:00		1,196.49	0.00	0.00	5.88	2.1	329.7		394.48	0.00	0.00	1.94		10.35	18.92	83.84	86.68	12-Apr-15 09:00:00		**404.83**	**18.92**	**83.84**	**88.62**
12-Apr-15 10:00:00	12-Apr-15 11:00:00		1,178.37	0.00	0.00	5.78	2.1	329.7		388.51	0.00	0.00	1.90		10.35	18.92	83.84	86.68	12-Apr-15 10:00:00		**398.86**	**18.92**	**83.84**	**88.58**
12-Apr-15 11:00:00	12-Apr-15 12:00:00		1,092.78	0.00	0.00	5.43	2.1	329.7		360.29	0.00	0.00	1.79		10.35	18.92	83.84	86.68	12-Apr-15 11:00:00		**370.64**	**18.92**	**83.84**	**88.47**
12-Apr-15 12:00:00	12-Apr-15 13:00:00		655.23	0.00	0.00	5.31	2.1	329.7		216.03	0.00	0.00	1.75		10.35	18.92	83.84	86.68	12-Apr-15 12:00:00		**226.38**	**18.92**	**83.84**	**88.43**
12-Apr-15 13:00:00	12-Apr-15 14:00:00		37.20	0.00	0.00	5.18	2.1	329.7		12.27	0.00	0.00	1.71		10.35	18.92	83.84	86.68	12-Apr-15 13:00:00		**22.62**	**18.92**	**83.84**	**88.39**
12-Apr-15 14:00:00	12-Apr-15 15:00:00		0.00	0.00	0.00	5.05	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	12-Apr-15 14:00:00		**10.35**	**18.92**	**83.84**	**88.35**
12-Apr-15 15:00:00	12-Apr-15 16:00:00		0.00	0.00	0.00	4.89	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	12-Apr-15 15:00:00		**10.35**	**18.92**	**83.84**	**88.29**
12-Apr-15 16:00:00	12-Apr-15 17:00:00		0.00	0.00	0.00	4.88	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	12-Apr-15 16:00:00		**10.35**	**18.92**	**83.84**	**88.29**
12-Apr-15 17:00:00	12-Apr-15 18:00:00		6.05	0.00	0.00	20.72	2.1	329.7		1.99	0.00	0.00	6.83		10.35	18.92	83.84	86.68	12-Apr-15 17:00:00		**12.34**	**18.92**	**83.84**	**93.51**
12-Apr-15 18:00:00	12-Apr-15 19:00:00		12.52	0.00	0.00	4.88	2.1	329.7		4.13	0.00	0.00	1.61		10.35	18.92	83.84	86.68	12-Apr-15 18:00:00		**14.48**	**18.92**	**83.84**	**88.29**
12-Apr-15 19:00:00	12-Apr-15 20:00:00		9.72	0.00	0.00	5.00	2.1	329.7		3.20	0.00	0.00	1.65		10.35	18.92	83.84	86.68	12-Apr-15 19:00:00		**13.55**	**18.92**	**83.84**	**88.33**
12-Apr-15 20:00:00	12-Apr-15 21:00:00		2.86	0.00	0.00	5.11	2.1	329.7		0.94	0.00	0.00	1.69		10.35	18.92	83.84	86.68	12-Apr-15 20:00:00		**11.29**	**18.92**	**83.84**	**88.37**
12-Apr-15 21:00:00	12-Apr-15 22:00:00		0.53	0.00	0.00	5.25	2.1	329.7		0.18	0.00	0.00	1.73		10.35	18.92	83.84	86.68	12-Apr-15 21:00:00		**10.53**	**18.92**	**83.84**	**88.41**
12-Apr-15 22:00:00	12-Apr-15 23:00:00		0.31	0.00	0.00	5.50	2.1	329.7		0.10	0.00	0.00	1.81		10.35	18.92	83.84	86.68	12-Apr-15 22:00:00		**10.45**	**18.92**	**83.84**	**88.49**
12-Apr-15 23:00:00	13-Apr-15 00:00:00		10.48	0.00	0.00	16.08	2.1	329.7		3.46	0.00	0.00	5.30		10.35	18.92	83.84	86.68	12-Apr-15 23:00:00		**13.81**	**18.92**	**83.84**	**91.98**
13-Apr-15 00:00:00	13-Apr-15 01:00:00		0.00	0.00	0.00	5.67	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	13-Apr-15 00:00:00		**10.35**	**18.92**	**83.84**	**88.55**
13-Apr-15 01:00:00	13-Apr-15 02:00:00		0.00	0.00	0.00	5.72	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	13-Apr-15 01:00:00		**10.35**	**18.92**	**83.84**	**88.56**
13-Apr-15 02:00:00	13-Apr-15 03:00:00		0.00	0.00	0.00	5.76	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	13-Apr-15 02:00:00		**10.35**	**18.92**	**83.84**	**88.58**
13-Apr-15 03:00:00	13-Apr-15 04:00:00		0.00	0.00	0.00	5.81	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	13-Apr-15 03:00:00		**10.35**	**18.92**	**83.84**	**88.59**
13-Apr-15 04:00:00	13-Apr-15 05:00:00		0.00	0.00	0.00	5.85	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	13-Apr-15 04:00:00		**10.35**	**18.92**	**83.84**	**88.61**
13-Apr-15 05:00:00	13-Apr-15 06:00:00		0.00	0.00	0.00	47.65	2.1	329.7		0.00	0.00	0.00	15.71		10.35	18.92	83.84	86.68	13-Apr-15 05:00:00		**10.35**	**18.92**	**83.84**	**102.39**
13-Apr-15 06:00:00	13-Apr-15 07:00:00		0.00	0.00	0.00	5.87	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	13-Apr-15 06:00:00		**10.35**	**18.92**	**83.84**	**88.62**
13-Apr-15 07:00:00	13-Apr-15 08:00:00		0.00	0.00	0.00	5.85	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	13-Apr-15 07:00:00		**10.35**	**18.92**	**83.84**	**88.61**
13-Apr-15 08:00:00	13-Apr-15 09:00:00		0.00	0.00	0.00	5.82	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	13-Apr-15 08:00:00		**10.35**	**18.92**	**83.84**	**88.60**
13-Apr

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
15-Apr-15 07:00:00	15-Apr-15 08:00:00		1.96	0.00	0.00	6.75	2.1	329.7		0.65	0.00	0.00	2.23		10.35	18.92	83.84	86.68	15-Apr-15 07:00:00		11.00	18.92	83.84	88.91
15-Apr-15 08:00:00	15-Apr-15 09:00:00		3.43	0.00	0.00	6.37	2.1	329.7		1.13	0.00	0.00	2.10		10.35	18.92	83.84	86.68	15-Apr-15 08:00:00		11.48	18.92	83.84	88.78
15-Apr-15 09:00:00	15-Apr-15 10:00:00		0.00	0.00	0.00	6.40	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	15-Apr-15 09:00:00		10.35	18.92	83.84	88.79
15-Apr-15 10:00:00	15-Apr-15 11:00:00		0.55	0.00	0.00	6.44	2.1	329.7		0.18	0.00	0.00	2.12		10.35	18.92	83.84	86.68	15-Apr-15 10:00:00		10.53	18.92	83.84	88.80
15-Apr-15 11:00:00	15-Apr-15 12:00:00		2.22	0.00	0.00	43.43	2.1	329.7		0.73	0.00	0.00	14.32		10.35	18.92	83.84	86.68	15-Apr-15 11:00:00		11.08	18.92	83.84	101.00
15-Apr-15 12:00:00	15-Apr-15 13:00:00		1.19	0.00	0.00	6.53	2.1	329.7		0.39	0.00	0.00	2.15		10.35	18.92	83.84	86.68	15-Apr-15 12:00:00		10.74	18.92	83.84	88.83
15-Apr-15 13:00:00	15-Apr-15 14:00:00		3.11	0.00	0.00	6.52	2.1	329.7		1.03	0.00	0.00	2.15		10.35	18.92	83.84	86.68	15-Apr-15 13:00:00		11.38	18.92	83.84	88.83
15-Apr-15 14:00:00	15-Apr-15 15:00:00		3.26	0.00	0.00	8.47	2.1	329.7		1.07	0.00	0.00	2.79		10.35	18.92	83.84	86.68	15-Apr-15 14:00:00		11.42	18.92	83.84	89.47
15-Apr-15 15:00:00	15-Apr-15 16:00:00		2.46	0.00	0.00	6.74	2.1	329.7		0.81	0.00	0.00	2.22		10.35	18.92	83.84	86.68	15-Apr-15 15:00:00		11.16	18.92	83.84	88.90
15-Apr-15 16:00:00	15-Apr-15 17:00:00		1.79	0.00	0.00	6.83	2.1	329.7		0.59	0.00	0.00	2.25		10.35	18.92	83.84	86.68	15-Apr-15 16:00:00		10.94	18.92	83.84	88.93
15-Apr-15 17:00:00	15-Apr-15 18:00:00		0.77	0.00	0.00	18.54	2.1	329.7		0.26	0.00	0.00	6.11		10.35	18.92	83.84	86.68	15-Apr-15 17:00:00		10.61	18.92	83.84	92.79
15-Apr-15 18:00:00	15-Apr-15 19:00:00		2.91	0.00	0.00	6.85	2.1	329.7		0.96	0.00	0.00	2.26		10.35	18.92	83.84	86.68	15-Apr-15 18:00:00		11.31	18.92	83.84	88.94
15-Apr-15 19:00:00	15-Apr-15 20:00:00		1.75	0.00	0.00	6.82	2.1	329.7		0.58	0.00	0.00	2.25		10.35	18.92	83.84	86.68	15-Apr-15 19:00:00		10.93	18.92	83.84	88.93
15-Apr-15 20:00:00	15-Apr-15 21:00:00		3.40	0.00	0.00	6.80	2.1	329.7		1.12	0.00	0.00	2.24		10.35	18.92	83.84	86.68	15-Apr-15 20:00:00		11.47	18.92	83.84	88.92
15-Apr-15 21:00:00	15-Apr-15 22:00:00		5.63	0.00	0.00	25.64	2.1	329.7		1.85	0.00	0.00	8.45		10.35	18.92	83.84	86.68	15-Apr-15 21:00:00		12.20	18.92	83.84	95.13
15-Apr-15 22:00:00	15-Apr-15 23:00:00		0.29	0.00	0.00	6.73	2.1	329.7		0.09	0.00	0.00	2.22		10.35	18.92	83.84	86.68	15-Apr-15 22:00:00		10.44	18.92	83.84	88.90
15-Apr-15 23:00:00	16-Apr-15 00:00:00		0.00	0.00	0.00	6.66	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	15-Apr-15 23:00:00		10.35	18.92	83.84	88.88
16-Apr-15 00:00:00	16-Apr-15 01:00:00		0.00	0.00	0.00	7.75	2.1	329.7		0.00	0.00	0.00	2.55		10.35	18.92	83.84	86.68	16-Apr-15 00:00:00		10.35	18.92	83.84	89.23
16-Apr-15 01:00:00	16-Apr-15 02:00:00		2.59	0.00	0.00	6.68	2.1	329.7		0.86	0.00	0.00	2.20		10.35	18.92	83.84	86.68	16-Apr-15 01:00:00		11.21	18.92	83.84	88.88
16-Apr-15 02:00:00	16-Apr-15 03:00:00		2.48	0.00	0.00	6.82	2.1	329.7		0.82	0.00	0.00	2.25		10.35	18.92	83.84	86.68	16-Apr-15 02:00:00		11.17	18.92	83.84	88.93
16-Apr-15 03:00:00	16-Apr-15 04:00:00		3.63	0.00	0.00	26.70	2.1	329.7		1.20	0.00	0.00	8.80		10.35	18.92	83.84	86.68	16-Apr-15 03:00:00		11.55	18.92	83.84	95.48
16-Apr-15 04:00:00	16-Apr-15 05:00:00		0.56	0.00	0.00	6.93	2.1	329.7		0.18	0.00	0.00	2.28		10.35	18.92	83.84	86.68	16-Apr-15 04:00:00		10.53	18.92	83.84	88.96
16-Apr-15 05:00:00	16-Apr-15 06:00:00		1.67	0.00	0.00	6.88	2.1	329.7		0.55	0.00	0.00	2.27		10.35	18.92	83.84	86.68	16-Apr-15 05:00:00		10.90	18.92	83.84	88.95
16-Apr-15 06:00:00	16-Apr-15 07:00:00		2.30	0.00	0.00	11.03	2.1	329.7		0.76	0.00	0.00	3.64		10.35	18.92	83.84	86.68	16-Apr-15 06:00:00		11.11	18.92	83.84	90.32
16-Apr-15 07:00:00	16-Apr-15 08:00:00		1.11	0.00	0.00	6.82	2.1	329.7		0.36	0.00	0.00	2.25		10.35	18.92	83.84	86.68	16-Apr-15 07:00:00		10.71	18.92	83.84	88.93
16-Apr-15 08:00:00	16-Apr-15 09:00:00		0.00	0.00	0.00	6.72	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	16-Apr-15 08:00:00		10.35	18.92	83.84	88.89
16-Apr-15 09:00:00	16-Apr-15 10:00:00		0.00	0.00	0.00	6.61	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	16-Apr-15 09:00:00		10.35	18.92	83.84	88.86
16-Apr-15 10:00:00	16-Apr-15 11:00:00		0.00	0.00	0.00	6.51	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	16-Apr-15 10:00:00		10.35	18.92	83.84	88.83
16-Apr-15 11:00:00	16-Apr-15 12:00:00		0.00	0.00	0.00	6.43	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	16-Apr-15 11:00:00		10.35	18.92	83.84	88.80
16-Apr-15 12:00:00	16-Apr-15 13:00:00		0.00	0.00	0.00	13.90	2.1	329.7		0.00	0.00	0.00	4.58		10.35	18.92	83.84	86.68	16-Apr-15 12:00:00		10.35	18.92	83.84	91.26
16-Apr-15 13:00:00	16-Apr-15 14:00:00		0.00	0.00	0.00	6.27	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	16-Apr-15 13:00:00		10.35	18.92	83.84	88.75
16-Apr-15 14:00:00	16-Apr-15 15:00:00		0.60	0.00	0.00	6.17	2.1	329.7		0.20	0.00	0.00	2.03		10.35	18.92	83.84	86.68	16-Apr-15 14:00:00		10.55	18.92	83.84	88.71
16-Apr-15 15:00:00	16-Apr-15 16:00:00		5.70	0.00	0.00	63.44	2.1	329.7		1.88	0.00	0.00	20.92		10.35	18.92	83.84	86.68	16-Apr-15 15:00:00		12.23	18.92	83.84	107.60
16-Apr-15 16:00:00	16-Apr-15 17:00:00		0.06	0.00	0.00	6.02	2.1	329.7		0.02	0.00	0.00	1.99		10.35	18.92	83.84	86.68	16-Apr-15 16:00:00		10.37	18.92	83.84	88.67
16-Apr-15 17:00:00	16-Apr-15 18:00:00		0.16	0.00	0.00	5.91	2.1	329.7		0.05	0.00	0.00	1.95		10.35	18.92	83.84	86.68	16-Apr-15 17:00:00		10.40	18.92	83.84	88.63
16-Apr-15 18:00:00	16-Apr-15 19:00:00		0.38	0.00	0.00	21.70	2.1	329.7		0.13	0.00	0.00	7.16		10.35	18.92	83.84	86.68	16-Apr-15 18:00:00		10.48	18.92	83.84	93.84
16-Apr-15 19:00:00	16-Apr-15 20:00:00		0.90	0.00	0.00	5.90	2.1	329.7		0.30	0.00	0.00	1.95		10.35	18.92	83.84	86.68	16-Apr-15 19:00:00		10.65	18.92	83.84	88.63
16-Apr-15 20:00:00	16-Apr-15 21:00:00		0.00	0.00	0.00	5.87	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	16-Apr-15 20:00:00		10.35	18.92	83.84	88.62
16-Apr-15 21:00:00	16-Apr-15 22:00:00		0.59	0.00	0.00	5.84	2.1	329.7		0.20	0.00	0.00	1.92		10.35	18.92	83.84	86.68	16-Apr-15 21:00:00		10.55	18.92	83.84	88.60
16-Apr-15 22:00:00	16-Apr-15 23:00:00		2.34	0.00	0.00	5.80	2.1	329.7		0.77	0.00	0.00	1.91		10.35	18.92	83.84	86.68	16-Apr-15 22:00:00		11.12	18.92	83.84	88.59
16-Apr-15 23:00:00	17-Apr-15 00:00:00		1.21	0.00	0.00	5.72	2.1	329.7		0.40	0.00	0.00	1.89		10.35	18.92	83.84	86.68	16-Apr-15 23:00:00		10.75	18.92	83.84	88.57
17-Apr-15 00:00:00	17-Apr-15 01:00:00		199.77	0.00	0.00	10.22	2.1	329.7		65.86	0.00	0.00	3.37		10.35	18.92	83.84	86.68	17-Apr-15 00:00:00		76.21	18.92	83.84	90.05
17-Apr-15 01:00:00	17-Apr-15 02:00:00		4.01	0.00	0.00	5.68	2.1	329.7		1.32	0.00	0.00	1.87		10.35	18.92	83.84	86.68	17-Apr-15 01:00:00		11.67	18.92	83.84	88.55
17-Apr-15 02:00:00	17-Apr-15 03:00:00		3.95	0.00	0.00	5.68	2.1	329.7		1.30	0.00	0.00	1.87		10.35	18.92	83.84	86.68	17-Apr-15 02:00:00		11.65	18.92	83.84	88.55
17-Apr-15 03:00:00	17-Apr-15 04:00:00		1.85	0.00	0.00	5.69	2.1	329.7		0.61	0.00	0.00	1.88		10.35	18.92	83.84	86.68	17-Apr-15 03:00:00		10.96	18.92	83.84	88.56
17-Apr-15 04:00:00	17-Apr-15 05:00:00		1.32	0.00	0.00	5.68	2.1	329.7		0.43	0.00	0.00	1.87		10.35	18.92	83.84	86.68	17-Apr-15 04:00:00		10.78	18.92	83.84	88.55
17-Apr-15 05:00:00	17-Apr-15 06:00:00		0.78	0.00	0.00	5.67	2.1	329.7		0.26	0.00	0.00	1.87		10.35	18.92	83.84	86.68	17-Apr-15 05:00:00		10.61	18.92	83.84	88.55
17-Apr-15 06:00:00	17-Apr-15 07:00:00		0.25	0.00	0.00	5.68	2.1	329.7		0.08	0.00	0.00	1.87		10.35	18.92	83.84	86.68	17-Apr-15 06:00:00		10.43	18.92	83.84	88.55
17-Apr-15 07:00:00	17-Apr-15 08:00:00		0.00	0.00	0.00	5.69	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	17-Apr-15 07:00:00		10.35	18.92	83.84	88.56
17-Apr-15 08:00:00	17-Apr-15 09:00:00		0.00	0.00	0.00	5.71	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	17-Apr-15 08:00:00		10.35	18.92	83.84	88.56
17-Apr-15 09:00:00	17-Apr-15 10:00:00		0.00	0.00	0.00	5.69	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	17-Apr-15 09:00:00		10.35	18.92	83.84	88.56
17-Apr-15 10:00:00	17-Apr-15 11:00:00		3.46	0.00	0.00	5.65	2.1	329.7		1.14	0.00	0.00	1.86		10.35	18.92	83.84	86.68	17-Apr-15 10:00:00		11.49	18.92	83.84	88.54
17-Apr-15 11:00:00	17-Apr-15 12:00:00		0.46	0.00	0.00	5.61	2.1	329.7		0.15	0.00	0.00	1.85		10.35	18.92	83.84	86.68	17-Apr-15 11:00:00		10.50	18.92	83.84	88.53
17-Apr-15 12:00:00	17-Apr-15 13:00:00		1.49	0.00	0.00	5.55	2.1	329.7		0.49	0.00	0.00	1.83		10.35	18.92	83.84	86.68	17-Apr-15 12:00:00		10.84	18.92	83.84	88.51
17-Apr-15 13:00:00	17-Apr-15 14:00:00		0.00	0.00	0.00	5.24	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	17-Apr-15 13:00:00		10.35	18.92	83.84	88.41
17-Apr-15 14:00:00	17-Apr-15 15:00:00		0.00	0.00	0.00	60.02	2.1	329.7		0.00	0.00	0.00	19.79		10.35	18.92	83.84	86.68	17-Apr-15 14:00:00		10.35	18.92	83.84	106.47
17-Apr-15 15:00:00	17-Apr-15 16:00:00		0.00	0.00	0.00	5.10	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	17-Apr-15 15:00:00		10.35	18.92	83.84	88.36
17-Apr-15 16:00:00	17-Apr-15 17:00:00		0.00	0.00	0.00	4.92	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	17-Apr-15 16:00:00		10.35	18.92	83.84	88.30
17-Apr-15 17:00:00	17-Apr-15 18:00:00		0.00	0.00	0.00	22.48	2.1	329.7		0.00	0.00	0.00	7.41		10.35	18.92	83.84	86.68	17-Apr-15 17:00:00		10.35	18.92	83.84	94.09
17-Apr-15 18:00:00	17-Apr-15 19:00:00		0.00	0.00	0.00	4.66	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	17-Apr-15 18:00:00		10.35	18.92	83.84	88.22
17-Apr-15 19:00:00	17-Apr-15 20:00:00		0.00	0.00	0.00	4.68	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	17-Apr-15 19:00:00		10.35	18.92	83.84	88.22
17-Apr-15 20:00:00	17-Apr-15 21:00:00		0.00	0.00	0.00	4.71	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	17-Apr-15 20:00:00		10.35	18.92	83.84	88.23
17-Apr-15 21:00:00	17-Apr-15 22:00:00		0.00	0.00	0.00	4.74	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	17-Apr-15 21:00:00		10.35	18.92	83.84	88.24
17-Apr-15 22:00:00	17-Apr-15 23:00:00		0.00	0.00	0.00	4.76	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	17-Apr-15 22:00:00		10.35	18.92	83.84	88.25
17-Apr-15 23:00:00	18-Apr-15 00:00:00		0.00	0.00	0.00	47.03	2.1	329.7		0.00	0.00	0.00	15.50		10.35	18.92	83.84	86.68	17-Apr-15 23:00:00		10.35	18.92	83.84	102.18
18-Apr-15 00:00:00	18-Apr-15 01:00:00		0.00	0.00	0.00	4.93	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	18-Apr-15 00:00:00		10.35	18.92	83.84	88.31
18-Apr-15 01:00:00	18-Apr-15 02:00:00		0.00	0.00	0.00	5.01	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	18-Apr-15 01:00:00		10.35	18.92	83.84	88.33
18-Apr-15 02:00:00	18-Apr-15 03:00:00		0.00	0.00	0.00	5.08	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	18-Apr-15 02:00:00		10.35	18.92	83.84	88.35
18-Apr-15 03:00:00	18-Apr-15 04:00:00		0.00	0.00	0.00	5.03	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	18-Apr-15 03:00:00		10.35	18.92	83.84	88.34
18-Apr-15 04:00:00	18-Apr-15 05:00:00		0.00	0.00	0.00	4.97	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	18-Apr-15 04:00:00		10.35	18.92	83.84	88.32
18-Apr-15 05:00:00	18-Apr-15 06:00:00		0.00	0.00	0.00	29.89	2.1	329.7		0.00	0.00	0.00	9.86		10.35	18.92	83.84	86.68	18-Apr-15 05:00:00		10.35	18.92	83.84	96.54
18-Apr-15 06:00:00	18-Apr-15 07:00:00		0.00	0.00	0.00	4.96	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	18-Apr-15 06:00:00		10.35	18.92	83.84	88.32
18-Apr-15 07:00:00	18-Apr-15 08:00:00		0.00	0.00	0.00	4.89	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	18-Apr-15 07:00:00		10.35	18.92	83.84	88.29
18-Apr-15 08:00:00	18-Apr-15 09:00:00		0.00	0.00	0.00	5.32	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	18-Apr-15 08:00:00		10.35	18.92	83.84	88.43
18-Apr-15 09:00:00	18-Apr-15 10:00:00		0.00	0.00	0.00	4.79	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	18-Apr-15 09:00:00		10.35	18.92	83.84	88.26
18-Apr-15 10:00:00	18-Apr-15 11:00:00		0.00	0.00	0.00	4.76	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	18-Apr-15 10:00:00		10.35	18.92	83.84	88.25
18-Apr-15 11:00:00	18-Apr-15 12:00:00		1.41	0.00	0.00	4.74	2.1	329.7		0.46	0.00	0.00	1.56		10.35	18.92	83.84	86.68	18-Apr-15 11:00:00		10.81	18.92	83.84	88.24
18-Apr-15 12:00:00	18-Apr-15 13:00:00		5.92	0.00	0.00	4.71	2.1	329.7		1.95	0.00	0.00	1.55		10.35	18.92	83.84	86.68	18-Apr-15 12:00:00		12.30	18.92	83.84	88.23
18-Apr-15 13:00:00	18-Apr-15 14:00:00		2.51	0.00	0.00	4.63	2.1	329.7		0.83	0.00	0.00	1.53		10.35	18.92	83.84	86.68	18-Apr-15 13:00:00		11.18	18.92	83.84	88.21
18-Apr-15 14:00:00	18-Apr-15 15:00:00		3.38	0.00	0.00	4.52	2.1	329.7		1.12	0.00	0.00	1.49		10.35	18.92	83.84	86.68	18-Apr-15 14:00:00		11.47	18.92	83.84	88.17
18-Apr-15 15:00:00	18-Apr-15 16:00:00		5.64	0.00	0.00	78.77	2.1	329.7		1.86	0.00	0.00	25.97		10.35	18.92	83.84	86.68	18-Apr-15 15:00:00		12.21	18.92	83.84	112.65
18-Apr-15 16:00:00	18-Apr-15 17:00:00		0.00	0.00	0.00	4.45	2.1	329.7		0.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	18-Apr-15 16:00:00		10.35	18.92	83.84	88.15
18-Apr-15 17:00:00	18-Apr-15 18:00:00		0.00	0.00	0.00	4.42	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	18-Apr-15 17:00:00		10.35	18.92	83.84	88.14
18-Apr-15 18:00:00	18-Apr-15 19:00:00		0.00	0.00	0.00	4.39	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	18-Apr-15 18:00:00		10.35	18.92	83.84	88.13
18-Apr-15 19:00:00	18-Apr-15 20:00:00		0.00	0.00	0.00	4.39	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	18-Apr-15 19:00:00		10.35	18.92	83.84	88.13
18-Apr-15 20:00:00	18-Apr-15 21:00:00		0.00	0.00	0.00	4.44	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	18-Apr-15 20:00:00		10.35	18.92	83.84	88.14
18-Apr-15 21:00:00	18-Apr-15 22:00:00		0.00	82.75	0.00	53.58	2.1	329.7		0.00	27.28	0.00	17.67		10.35	18.92	83.84	86.68	18-Apr-15 21:00:00		10.35	46.20	83.84	104.35
18-Apr-15 22:00:00	18-Apr-15 23:00:00		0.00	0.00	0.00	4.78	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	18-Apr-15 22:00:00		10.35	18.92	83.84	88.26
18-Apr-15 23:00:00	19-Apr-15 00:00:00		0.00	0.00	0.00	4.94	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	18-Apr-15 23:00:00		10.35	18.92	83.84	88.31
19-Apr-15 00:00:00	19-Apr-15 01:00:00		0.00	0.00	0.00	5.84	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	19-Apr-15 00:00:00		10.35	18.92	83.84	88.60
19-Apr-15 01:00:00	19-Apr-15 02:00:00		0.00	0.00	0.00	5.31	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	19-Apr-15 01:00:00		10.35	18.92	83.84	88.43
19-Apr-15 02:00:00	19-Apr-15 03:00:00		0.00	0.00	0.00	5.39	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	19-Apr-15 02:00:00		10.35	18.92	83.84	88.46
19-Apr-15 03:00:00	19-Apr-15 04:00:00		0.00	0.00	0.00	5.47	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	19-Apr-15 03:00:00		10.35	18.92	83.84	88.48
19-Apr-15 04:00:00	19-Apr-15 05:00:00		0.00	0.00	0.00	5.55

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
21-Apr-15 02:00:00	21-Apr-15 03:00:00		249.56	0.00	0.00	5.28	2.1	329.7		82.28	0.00	0.00	1.74		10.35	18.92	83.84	86.68	21-Apr-15 02:00:00		92.63	18.92	83.84	88.42
21-Apr-15 03:00:00	21-Apr-15 04:00:00		0.00	0.00	0.00	5.27	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	21-Apr-15 03:00:00		10.35	18.92	83.84	88.42
21-Apr-15 04:00:00	21-Apr-15 05:00:00		0.00	0.00	0.00	11.76	2.1	329.7		0.00	0.00	0.00	3.88		10.35	18.92	83.84	86.68	21-Apr-15 04:00:00		10.35	18.92	83.84	90.56
21-Apr-15 05:00:00	21-Apr-15 06:00:00		0.00	0.00	0.00	5.45	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	21-Apr-15 05:00:00		10.35	18.92	83.84	88.48
21-Apr-15 06:00:00	21-Apr-15 07:00:00		0.00	0.00	0.00	5.60	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	21-Apr-15 06:00:00		10.35	18.92	83.84	88.53
21-Apr-15 07:00:00	21-Apr-15 08:00:00		0.00	0.00	0.00	5.76	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	21-Apr-15 07:00:00		10.35	18.92	83.84	88.58
21-Apr-15 08:00:00	21-Apr-15 09:00:00		0.00	0.00	0.00	5.79	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	21-Apr-15 08:00:00		10.35	18.92	83.84	88.59
21-Apr-15 09:00:00	21-Apr-15 10:00:00		0.00	0.00	0.00	5.55	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	21-Apr-15 09:00:00		10.35	18.92	83.84	88.51
21-Apr-15 10:00:00	21-Apr-15 11:00:00		0.00	0.00	0.00	5.31	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	21-Apr-15 10:00:00		10.35	18.92	83.84	88.43
21-Apr-15 11:00:00	21-Apr-15 12:00:00		0.00	0.00	0.00	5.07	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	21-Apr-15 11:00:00		10.35	18.92	83.84	88.35
21-Apr-15 12:00:00	21-Apr-15 13:00:00		0.05	0.00	0.00	4.98	2.1	329.7		0.02	0.00	0.00	1.64		10.35	18.92	83.84	86.68	21-Apr-15 12:00:00		10.37	18.92	83.84	88.32
21-Apr-15 13:00:00	21-Apr-15 14:00:00		0.00	0.00	0.00	5.33	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	21-Apr-15 13:00:00		10.35	18.92	83.84	88.44
21-Apr-15 14:00:00	21-Apr-15 15:00:00		0.00	0.00	0.00	5.71	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	21-Apr-15 14:00:00		10.35	18.92	83.84	88.56
21-Apr-15 15:00:00	21-Apr-15 16:00:00		0.00	0.00	0.00	6.08	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	21-Apr-15 15:00:00		10.35	18.92	83.84	88.68
21-Apr-15 16:00:00	21-Apr-15 17:00:00		1.01	0.00	0.00	6.35	2.1	329.7		0.33	0.00	0.00	2.09		10.35	18.92	83.84	86.68	21-Apr-15 16:00:00		10.68	18.92	83.84	88.77
21-Apr-15 17:00:00	21-Apr-15 18:00:00		1.25	0.00	0.00	6.21	2.1	329.7		0.41	0.00	0.00	2.05		10.35	18.92	83.84	86.68	21-Apr-15 17:00:00		10.76	18.92	83.84	88.73
21-Apr-15 18:00:00	21-Apr-15 19:00:00		2.33	0.00	0.00	6.04	2.1	329.7		0.77	0.00	0.00	1.99		10.35	18.92	83.84	86.68	21-Apr-15 18:00:00		11.12	18.92	83.84	88.67
21-Apr-15 19:00:00	21-Apr-15 20:00:00		1.64	0.00	0.00	5.86	2.1	329.7		0.54	0.00	0.00	1.93		10.35	18.92	83.84	86.68	21-Apr-15 19:00:00		10.89	18.92	83.84	88.61
21-Apr-15 20:00:00	21-Apr-15 21:00:00		0.95	0.00	0.00	5.68	2.1	329.7		0.31	0.00	0.00	1.87		10.35	18.92	83.84	86.68	21-Apr-15 20:00:00		10.66	18.92	83.84	88.55
21-Apr-15 21:00:00	21-Apr-15 22:00:00		0.27	0.00	0.00	5.68	2.1	329.7		0.09	0.00	0.00	1.87		10.35	18.92	83.84	86.68	21-Apr-15 21:00:00		10.44	18.92	83.84	88.55
21-Apr-15 22:00:00	21-Apr-15 23:00:00		0.00	0.00	0.00	5.72	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	21-Apr-15 22:00:00		10.35	18.92	83.84	88.56
21-Apr-15 23:00:00	22-Apr-15 00:00:00		0.00	0.00	0.00	5.75	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	21-Apr-15 23:00:00		10.35	18.92	83.84	88.58
22-Apr-15 00:00:00	22-Apr-15 01:00:00		0.00	0.00	0.00	5.82	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	22-Apr-15 00:00:00		10.35	18.92	83.84	88.60
22-Apr-15 01:00:00	22-Apr-15 02:00:00		0.00	0.00	0.00	6.00	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	22-Apr-15 01:00:00		10.35	18.92	83.84	88.66
22-Apr-15 02:00:00	22-Apr-15 03:00:00		0.00	0.00	0.00	6.19	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	22-Apr-15 02:00:00		10.35	18.92	83.84	88.72
22-Apr-15 03:00:00	22-Apr-15 04:00:00		0.91	0.00	0.00	6.38	2.1	329.7		0.30	0.00	0.00	2.10		10.35	18.92	83.84	86.68	22-Apr-15 03:00:00		10.65	18.92	83.84	88.78
22-Apr-15 04:00:00	22-Apr-15 05:00:00		0.44	0.00	0.00	8.19	2.1	329.7		0.14	0.00	0.00	2.70		10.35	18.92	83.84	86.68	22-Apr-15 04:00:00		10.49	18.92	83.84	89.38
22-Apr-15 05:00:00	22-Apr-15 06:00:00		0.11	0.00	0.00	6.43	2.1	329.7		0.03	0.00	0.00	2.12		10.35	18.92	83.84	86.68	22-Apr-15 05:00:00		10.38	18.92	83.84	88.80
22-Apr-15 06:00:00	22-Apr-15 07:00:00		1.59	0.00	0.00	6.44	2.1	329.7		0.52	0.00	0.00	2.12		10.35	18.92	83.84	86.68	22-Apr-15 06:00:00		10.87	18.92	83.84	88.80
22-Apr-15 07:00:00	22-Apr-15 08:00:00		3.23	0.00	0.00	6.45	2.1	329.7		1.07	0.00	0.00	2.13		10.35	18.92	83.84	86.68	22-Apr-15 07:00:00		11.42	18.92	83.84	88.81
22-Apr-15 08:00:00	22-Apr-15 09:00:00		2.20	0.00	0.00	6.37	2.1	329.7		0.73	0.00	0.00	2.10		10.35	18.92	83.84	86.68	22-Apr-15 08:00:00		11.08	18.92	83.84	88.78
22-Apr-15 09:00:00	22-Apr-15 10:00:00		1.54	0.00	0.00	6.07	2.1	329.7		0.51	0.00	0.00	2.00		10.35	18.92	83.84	86.68	22-Apr-15 09:00:00		10.86	18.92	83.84	88.68
22-Apr-15 10:00:00	22-Apr-15 11:00:00		0.89	0.00	0.00	5.77	2.1	329.7		0.29	0.00	0.00	1.90		10.35	18.92	83.84	86.68	22-Apr-15 10:00:00		10.64	18.92	83.84	88.58
22-Apr-15 11:00:00	22-Apr-15 12:00:00		0.24	0.00	0.00	5.47	2.1	329.7		0.08	0.00	0.00	1.80		10.35	18.92	83.84	86.68	22-Apr-15 11:00:00		10.43	18.92	83.84	88.48
22-Apr-15 12:00:00	22-Apr-15 13:00:00		0.00	0.00	0.00	5.23	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	22-Apr-15 12:00:00		10.35	18.92	83.84	88.41
22-Apr-15 13:00:00	22-Apr-15 14:00:00		1.57	0.00	0.00	5.13	2.1	329.7		0.52	0.00	0.00	1.69		10.35	18.92	83.84	86.68	22-Apr-15 13:00:00		10.87	18.92	83.84	88.37
22-Apr-15 14:00:00	22-Apr-15 15:00:00		0.00	0.00	0.00	18.94	2.1	329.7		0.00	0.00	0.00	6.24		10.35	18.92	83.84	86.68	22-Apr-15 14:00:00		10.35	18.92	83.84	92.92
22-Apr-15 15:00:00	22-Apr-15 16:00:00		0.00	0.00	0.00	4.82	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	22-Apr-15 15:00:00		10.35	18.92	83.84	88.27
22-Apr-15 16:00:00	22-Apr-15 17:00:00		0.19	0.00	0.00	4.78	2.1	329.7		0.06	0.00	0.00	1.58		10.35	18.92	83.84	86.68	22-Apr-15 16:00:00		10.41	18.92	83.84	88.26
22-Apr-15 17:00:00	22-Apr-15 18:00:00		0.00	0.00	0.00	5.48	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	22-Apr-15 17:00:00		10.35	18.92	83.84	88.49
22-Apr-15 18:00:00	22-Apr-15 19:00:00		0.00	0.00	0.00	4.60	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	22-Apr-15 18:00:00		10.35	18.92	83.84	88.20
22-Apr-15 19:00:00	22-Apr-15 20:00:00		0.00	0.00	0.00	4.48	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	22-Apr-15 19:00:00		10.35	18.92	83.84	88.16
22-Apr-15 20:00:00	22-Apr-15 21:00:00		0.00	0.00	0.00	49.48	2.1	329.7		0.00	0.00	0.00	16.31		10.35	18.92	83.84	86.68	22-Apr-15 20:00:00		10.35	18.92	83.84	102.99
22-Apr-15 21:00:00	22-Apr-15 22:00:00		93.59	0.00	0.00	610.10	2.1	329.7		30.86	0.00	0.00	201.15		10.35	18.92	83.84	86.68	22-Apr-15 21:00:00		41.21	18.92	83.84	287.83
22-Apr-15 22:00:00	22-Apr-15 23:00:00		147.14	0.00	0.00	309.62	2.1	329.7		48.51	0.00	0.00	102.08		10.35	18.92	83.84	86.68	22-Apr-15 22:00:00		58.86	18.92	83.84	188.76
22-Apr-15 23:00:00	23-Apr-15 00:00:00		119.60	0.00	0.00	281.14	2.1	329.7		39.43	0.00	0.00	92.69		10.35	18.92	83.84	86.68	22-Apr-15 23:00:00		49.78	18.92	83.84	179.37
23-Apr-15 00:00:00	23-Apr-15 01:00:00		125.92	0.00	0.00	296.15	2.1	329.7		41.52	0.00	0.00	97.64		10.35	18.92	83.84	86.68	23-Apr-15 00:00:00		51.87	18.92	83.84	184.32
23-Apr-15 01:00:00	23-Apr-15 02:00:00		129.41	0.00	0.00	286.81	2.1	329.7		42.67	0.00	0.00	94.56		10.35	18.92	83.84	86.68	23-Apr-15 01:00:00		53.02	18.92	83.84	181.24
23-Apr-15 02:00:00	23-Apr-15 03:00:00		129.45	0.00	0.00	270.92	2.1	329.7		42.68	0.00	0.00	89.32		10.35	18.92	83.84	86.68	23-Apr-15 02:00:00		53.03	18.92	83.84	176.00
23-Apr-15 03:00:00	23-Apr-15 04:00:00		125.08	0.00	0.00	238.64	2.1	329.7		41.24	0.00	0.00	78.68		10.35	18.92	83.84	86.68	23-Apr-15 03:00:00		51.59	18.92	83.84	165.36
23-Apr-15 04:00:00	23-Apr-15 05:00:00		130.06	0.00	0.00	236.51	2.1	329.7		42.88	0.00	0.00	77.98		10.35	18.92	83.84	86.68	23-Apr-15 04:00:00		53.23	18.92	83.84	164.66
23-Apr-15 05:00:00	23-Apr-15 06:00:00		127.94	0.00	0.00	239.30	2.1	329.7		42.18	0.00	0.00	78.90		10.35	18.92	83.84	86.68	23-Apr-15 05:00:00		52.53	18.92	83.84	165.58
23-Apr-15 06:00:00	23-Apr-15 07:00:00		140.73	0.00	0.00	299.01	2.1	329.7		46.40	0.00	0.00	98.58		10.35	18.92	83.84	86.68	23-Apr-15 06:00:00		56.75	18.92	83.84	185.26
23-Apr-15 07:00:00	23-Apr-15 08:00:00		123.62	0.00	0.00	477.73	2.1	329.7		40.76	0.00	0.00	157.51		10.35	18.92	83.84	86.68	23-Apr-15 07:00:00		51.11	18.92	83.84	244.19
23-Apr-15 08:00:00	23-Apr-15 09:00:00		0.01	0.00	0.00	1,016.27	2.1	329.7		0.00	0.00	0.00	335.06		10.35	18.92	83.84	86.68	23-Apr-15 08:00:00		10.35	18.92	83.84	421.74
23-Apr-15 09:00:00	23-Apr-15 10:00:00		0.00	0.00	0.00	1,013.33	2.1	329.7		0.00	0.00	0.00	334.10		10.35	18.92	83.84	86.68	23-Apr-15 09:00:00		10.35	18.92	83.84	420.78
23-Apr-15 10:00:00	23-Apr-15 11:00:00		0.00	0.00	0.00	1,015.82	2.1	329.7		0.00	0.00	0.00	334.92		10.35	18.92	83.84	86.68	23-Apr-15 10:00:00		10.35	18.92	83.84	421.60
23-Apr-15 11:00:00	23-Apr-15 12:00:00		0.00	0.00	0.00	1,011.76	2.1	329.7		0.00	0.00	0.00	333.58		10.35	18.92	83.84	86.68	23-Apr-15 11:00:00		10.35	18.92	83.84	420.26
23-Apr-15 12:00:00	23-Apr-15 13:00:00		0.00	0.00	0.00	1,008.99	2.1	329.7		0.00	0.00	0.00	332.66		10.35	18.92	83.84	86.68	23-Apr-15 12:00:00		10.35	18.92	83.84	419.34
23-Apr-15 13:00:00	23-Apr-15 14:00:00		0.00	0.00	0.00	1,009.62	2.1	329.7		0.00	0.00	0.00	332.87		10.35	18.92	83.84	86.68	23-Apr-15 13:00:00		10.35	18.92	83.84	419.55
23-Apr-15 14:00:00	23-Apr-15 15:00:00		0.14	0.00	0.00	1,009.91	2.1	329.7		0.05	0.00	0.00	332.97		10.35	18.92	83.84	86.68	23-Apr-15 14:00:00		10.40	18.92	83.84	419.65
23-Apr-15 15:00:00	23-Apr-15 16:00:00		0.67	0.00	0.00	1,007.73	2.1	329.7		0.22	0.00	0.00	332.25		10.35	18.92	83.84	86.68	23-Apr-15 15:00:00		10.57	18.92	83.84	418.93
23-Apr-15 16:00:00	23-Apr-15 17:00:00		1.59	0.00	0.00	1,006.49	2.1	329.7		0.52	0.00	0.00	331.84		10.35	18.92	83.84	86.68	23-Apr-15 16:00:00		10.87	18.92	83.84	418.52
23-Apr-15 17:00:00	23-Apr-15 18:00:00		4.73	0.00	0.00	1,006.83	2.1	329.7		1.56	0.00	0.00	331.95		10.35	18.92	83.84	86.68	23-Apr-15 17:00:00		11.91	18.92	83.84	418.63
23-Apr-15 18:00:00	23-Apr-15 19:00:00		0.00	0.00	0.00	1,005.56	2.1	329.7		0.00	0.00	0.00	331.53		10.35	18.92	83.84	86.68	23-Apr-15 18:00:00		10.35	18.92	83.84	418.21
23-Apr-15 19:00:00	23-Apr-15 20:00:00		0.00	0.00	0.00	1,003.26	2.1	329.7		0.00	0.00	0.00	330.77		10.35	18.92	83.84	86.68	23-Apr-15 19:00:00		10.35	18.92	83.84	417.45
23-Apr-15 20:00:00	23-Apr-15 21:00:00		0.00	0.00	0.00	997.63	2.1	329.7		0.00	0.00	0.00	328.92		10.35	18.92	83.84	86.68	23-Apr-15 20:00:00		10.35	18.92	83.84	415.60
23-Apr-15 21:00:00	23-Apr-15 22:00:00		0.16	0.00	0.00	1,000.03	2.1	329.7		0.05	0.00	0.00	329.71		10.35	18.92	83.84	86.68	23-Apr-15 21:00:00		10.40	18.92	83.84	416.39
23-Apr-15 22:00:00	23-Apr-15 23:00:00		0.00	0.00	0.00	1,001.38	2.1	329.7		0.00	0.00	0.00	330.15		10.35	18.92	83.84	86.68	23-Apr-15 22:00:00		10.35	18.92	83.84	416.83
23-Apr-15 23:00:00	24-Apr-15 00:00:00		0.00	0.00	0.00	1,002.33	2.1	329.7		0.00	0.00	0.00	330.47		10.35	18.92	83.84	86.68	23-Apr-15 23:00:00		10.35	18.92	83.84	417.15
24-Apr-15 00:00:00	24-Apr-15 01:00:00		0.00	0.00	0.00	1,004.17	2.1	329.7		0.00	0.00	0.00	331.08		10.35	18.92	83.84	86.68	24-Apr-15 00:00:00		10.35	18.92	83.84	417.76
24-Apr-15 01:00:00	24-Apr-15 02:00:00		0.00	0.00	0.00	1,004.82	2.1	329.7		0.00	0.00	0.00	331.29		10.35	18.92	83.84	86.68	24-Apr-15 01:00:00		10.35	18.92	83.84	417.97
24-Apr-15 02:00:00	24-Apr-15 03:00:00		0.53	0.00	0.00	1,003.12	2.1	329.7		0.18	0.00	0.00	330.73		10.35	18.92	83.84	86.68	24-Apr-15 02:00:00		10.53	18.92	83.84	417.41
24-Apr-15 03:00:00	24-Apr-15 04:00:00		1.64	0.00	0.00	1,001.80	2.1	329.7		0.54	0.00	0.00	330.29		10.35	18.92	83.84	86.68	24-Apr-15 03:00:00		10.89	18.92	83.84	416.97
24-Apr-15 04:00:00	24-Apr-15 05:00:00		0.00	0.00	0.00	999.82	2.1	329.7		0.00	0.00	0.00	329.64		10.35	18.92	83.84	86.68	24-Apr-15 04:00:00		10.35	18.92	83.84	416.32
24-Apr-15 05:00:00	24-Apr-15 06:00:00		0.07	0.00	0.00	1,002.57	2.1	329.7		0.02	0.00	0.00	330.55		10.35	18.92	83.84	86.68	24-Apr-15 05:00:00		10.37	18.92	83.84	417.23
24-Apr-15 06:00:00	24-Apr-15 07:00:00		0.77	0.00	0.00	1,001.45	2.1	329.7		0.25	0.00	0.00	330.18		10.35	18.92	83.84	86.68	24-Apr-15 06:00:00		10.60	18.92	83.84	416.86
24-Apr-15 07:00:00	24-Apr-15 08:00:00		0.61	0.00	0.00	1,000.17	2.1	329.7		0.20	0.00	0.00	329.76		10.35	18.92	83.84	86.68	24-Apr-15 07:00:00		10.55	18.92	83.84	416.44
24-Apr-15 08:00:00	24-Apr-15 09:00:00		0.00	0.00	0.00	1,000.33	2.1	329.7		0.00	0.00	0.00	329.81		10.35	18.92	83.84	86.68	24-Apr-15 08:00:00		10.35	18.92	83.84	416.49
24-Apr-15 09:00:00	24-Apr-15 10:00:00		0.00	0.00	0.00	1,000.22	2.1	329.7		0.00	0.00	0.00	329.77		10.35	18.92	83.84	86.68	24-Apr-15 09:00:00		10.35	18.92	83.84	416.45
24-Apr-15 10:00:00	24-Apr-15 11:00:00		2.60	0.00	0.00	1,000.20	2.1	329.7		0.86	0.00	0.00	329.77		10.35	18.92	83.84	86.68	24-Apr-15 10:00:00		11.21	18.92	83.84	416.45
24-Apr-15 11:00:00	24-Apr-15 12:00:00		0.27	0.00	0.00	997.16	2.1	329.7		0.09	0.00	0.00	328.76		10.35	18.92	83.84	86.68	24-Apr-15 11:00:00		10.44	18.92	83.84	415.44
24-Apr-15 12:00:00	24-Apr-15 13:00:00		0.28	0.00	0.00	997.14	2.1	329.7		0.09	0.00	0.00	328.76		10.35	18.92	83.84	86.68	24-Apr-15 12:00:00		10.44	18.92	83.84	415.44
24-Apr-15 13:00:00	24-Apr-15 14:00:00		2.93	0.00	0.00	994.32	2.1	329.7		0.97	0.00	0.00	327.83		10.35	18.92	83.84	86.68	24-Apr-15 13:00:00		11.32	18.92	83.84	414.51
24-Apr-15 14:00:00	24-Apr-15 15:00:00		0.11	0.00	0.00	994.33	2.1	329.7		0.04	0.00	0.00	327.83		10.35	18.92	83.84	86.68	24-Apr-15 14:00:00		10.39	18.92	83.84	414.51
24-Apr-15 15:00:00	24-Apr-15 16:00:00		0.08	0.00	0.00	995.75	2.1	329.7		0.03	0.00	0.00	328.30		10.35	18.92	83.84	86.68	24-Apr-15 15:00:00		10.38	18.92	83.84	414.98
24-Apr-15 16:00:00	24-Apr-15 17:00:00		0.05	0.00	0.00	993.27	2.1	329.7		0.02	0.00	0.00	327.48		10.35	18.92	83.84	86.68	24-Apr-15 16:00:00		10.37	18.92	83.84	414.16
24-Apr-15 17:00:00	24-Apr-15 18:00:00		0.01	0.00	0.00	992.50	2.1	329.7		0.00	0.00	0.00	327.23		10.35	18.92	83.84	86.68	24-Apr-15 17:00:00		10.35	18.92	83.84	413.91
24-Apr-15 18:00:00	24-Apr-15 19:00:00		0.00	0.00	0.00	992.66	2.1	329.7		0.00	0.00	0.00	327.28		10.35	18.92	83.84	86.68	24-Apr-15 18:00:00		10.35	18.92	83.84	413.96
24-Apr-15 19:00:00	24-Apr-15 20:00:00		0.00	0.00	0.00	995.22	2.1	329.7		0.00	0.00	0.00	328.12		10.35	18.92	83.84	86.68	24-Apr-15 19:00:00		10.35	18.92	83.84	414.80
24-Apr-15 20:00:00	24-Apr-15 21:00:00		0.00	0.00	0.00	993.14	2.1	329.7		0.00	0.00	0.00	327.44		10.35	18.92	83.84	86.68	24-Apr-15 20:00:00		10.35	18.92	83.84	414.12
24-Apr-15 21:00:00	24-Apr-15 22:00:00		0.00	0.00	0.00	997.68	2.1	329.7		0.00	0.00	0.00	328.94		10.35	18.92	83.84	86.68	24-Apr-15 21:00:00		10.35	18.92	83.84	415.62
24-Apr-15 22:00:00	24-Apr-15 23:00:00		0.00	0.00	0.00	999.88	2.1	329.7		0.00	0.00	0.00	329.66		10.35	18.92	83.84	86.68	24-Apr-15 22:00:00		10.35	18.92	83.84	416.34
24-Apr-

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
26-Apr-15 21:00:00	26-Apr-15 22:00:00		307.83	0.00	0.00	998.32	2.1	329.7		101.49	0.00	0.00	329.14		10.35	18.92	83.84	86.68	26-Apr-15 21:00:00		**111.84**	**18.92**	**83.84**	**415.82**
26-Apr-15 22:00:00	26-Apr-15 23:00:00		1.43	0.00	0.00	989.06	2.1	329.7		0.47	0.00	0.00	326.09		10.35	18.92	83.84	86.68	26-Apr-15 22:00:00		**10.82**	**18.92**	**83.84**	**412.77**
26-Apr-15 23:00:00	27-Apr-15 00:00:00		0.00	0.00	0.00	988.90	2.1	329.7		0.00	0.00	0.00	326.04		10.35	18.92	83.84	86.68	26-Apr-15 23:00:00		**10.35**	**18.92**	**83.84**	**412.72**
27-Apr-15 00:00:00	27-Apr-15 01:00:00		0.05	0.00	0.00	990.08	2.1	329.7		0.02	0.00	0.00	326.43		10.35	18.92	83.84	86.68	27-Apr-15 00:00:00		**10.37**	**18.92**	**83.84**	**413.11**
27-Apr-15 01:00:00	27-Apr-15 02:00:00		0.00	0.00	0.00	991.27	2.1	329.7		0.00	0.00	0.00	326.82		10.35	18.92	83.84	86.68	27-Apr-15 01:00:00		**10.35**	**18.92**	**83.84**	**413.50**
27-Apr-15 02:00:00	27-Apr-15 03:00:00		0.07	0.00	0.00	997.14	2.1	329.7		0.02	0.00	0.00	328.76		10.35	18.92	83.84	86.68	27-Apr-15 02:00:00		**10.37**	**18.92**	**83.84**	**415.44**
27-Apr-15 03:00:00	27-Apr-15 04:00:00		0.00	0.00	0.00	1,017.35	2.1	329.7		0.00	0.00	0.00	335.42		10.35	18.92	83.84	86.68	27-Apr-15 03:00:00		**10.35**	**18.92**	**83.84**	**422.10**
27-Apr-15 04:00:00	27-Apr-15 05:00:00		0.00	0.00	0.00	1,010.91	2.1	329.7		0.00	0.00	0.00	333.30		10.35	18.92	83.84	86.68	27-Apr-15 04:00:00		**10.35**	**18.92**	**83.84**	**419.98**
27-Apr-15 05:00:00	27-Apr-15 06:00:00		0.22	0.00	0.00	1,009.43	2.1	329.7		0.07	0.00	0.00	332.81		10.35	18.92	83.84	86.68	27-Apr-15 05:00:00		**10.42**	**18.92**	**83.84**	**419.49**
27-Apr-15 06:00:00	27-Apr-15 07:00:00		0.00	0.00	0.00	1,007.83	2.1	329.7		0.00	0.00	0.00	332.28		10.35	18.92	83.84	86.68	27-Apr-15 06:00:00		**10.35**	**18.92**	**83.84**	**418.96**
27-Apr-15 07:00:00	27-Apr-15 08:00:00		0.00	0.00	0.00	1,008.05	2.1	329.7		0.00	0.00	0.00	332.35		10.35	18.92	83.84	86.68	27-Apr-15 07:00:00		**10.35**	**18.92**	**83.84**	**419.03**
27-Apr-15 08:00:00	27-Apr-15 09:00:00		0.00	0.00	0.00	1,005.07	2.1	329.7		0.00	0.00	0.00	331.37		10.35	18.92	83.84	86.68	27-Apr-15 08:00:00		**10.35**	**18.92**	**83.84**	**418.05**
27-Apr-15 09:00:00	27-Apr-15 10:00:00		0.54	0.00	0.00	1,004.34	2.1	329.7		0.18	0.00	0.00	331.13		10.35	18.92	83.84	86.68	27-Apr-15 09:00:00		**10.53**	**18.92**	**83.84**	**417.81**
27-Apr-15 10:00:00	27-Apr-15 11:00:00		0.28	0.00	0.00	1,004.89	2.1	329.7		0.09	0.00	0.00	331.31		10.35	18.92	83.84	86.68	27-Apr-15 10:00:00		**10.44**	**18.92**	**83.84**	**417.99**
27-Apr-15 11:00:00	27-Apr-15 12:00:00		0.00	0.00	0.00	1,004.33	2.1	329.7		0.00	0.00	0.00	331.13		10.35	18.92	83.84	86.68	27-Apr-15 11:00:00		**10.35**	**18.92**	**83.84**	**417.81**
27-Apr-15 12:00:00	27-Apr-15 13:00:00		0.00	0.00	0.00	1,003.68	2.1	329.7		0.00	0.00	0.00	330.91		10.35	18.92	83.84	86.68	27-Apr-15 12:00:00		**10.35**	**18.92**	**83.84**	**417.59**
27-Apr-15 13:00:00	27-Apr-15 14:00:00		0.00	0.00	0.00	1,003.64	2.1	329.7		0.00	0.00	0.00	330.90		10.35	18.92	83.84	86.68	27-Apr-15 13:00:00		**10.35**	**18.92**	**83.84**	**417.58**
27-Apr-15 14:00:00	27-Apr-15 15:00:00		0.05	0.00	0.00	1,004.19	2.1	329.7		0.02	0.00	0.00	331.08		10.35	18.92	83.84	86.68	27-Apr-15 14:00:00		**10.37**	**18.92**	**83.84**	**417.76**
27-Apr-15 15:00:00	27-Apr-15 16:00:00		0.42	0.00	0.00	1,003.54	2.1	329.7		0.14	0.00	0.00	330.87		10.35	18.92	83.84	86.68	27-Apr-15 15:00:00		**10.49**	**18.92**	**83.84**	**417.55**
27-Apr-15 16:00:00	27-Apr-15 17:00:00		0.86	0.00	0.00	1,002.79	2.1	329.7		0.28	0.00	0.00	330.62		10.35	18.92	83.84	86.68	27-Apr-15 16:00:00		**10.63**	**18.92**	**83.84**	**417.30**
27-Apr-15 17:00:00	27-Apr-15 18:00:00		1.06	0.00	0.00	1,001.82	2.1	329.7		0.35	0.00	0.00	330.30		10.35	18.92	83.84	86.68	27-Apr-15 17:00:00		**10.70**	**18.92**	**83.84**	**416.98**
27-Apr-15 18:00:00	27-Apr-15 19:00:00		1.06	0.00	0.00	1,000.02	2.1	329.7		0.35	0.00	0.00	329.71		10.35	18.92	83.84	86.68	27-Apr-15 18:00:00		**10.35**	**18.92**	**83.84**	**416.39**
27-Apr-15 19:00:00	27-Apr-15 20:00:00		0.00	0.00	0.00	1,000.75	2.1	329.7		0.00	0.00	0.00	329.95		10.35	18.92	83.84	86.68	27-Apr-15 19:00:00		**10.35**	**18.92**	**83.84**	**416.63**
27-Apr-15 20:00:00	27-Apr-15 21:00:00		0.00	0.00	0.00	1,001.96	2.1	329.7		0.00	0.00	0.00	330.35		10.35	18.92	83.84	86.68	27-Apr-15 20:00:00		**10.35**	**18.92**	**83.84**	**417.03**
27-Apr-15 21:00:00	27-Apr-15 22:00:00		0.00	0.00	0.00	1,005.01	2.1	329.7		0.00	0.00	0.00	331.35		10.35	18.92	83.84	86.68	27-Apr-15 21:00:00		**10.35**	**18.92**	**83.84**	**418.03**
27-Apr-15 22:00:00	27-Apr-15 23:00:00		0.00	0.00	0.00	1,005.13	2.1	329.7		0.00	0.00	0.00	331.39		10.35	18.92	83.84	86.68	27-Apr-15 22:00:00		**10.35**	**18.92**	**83.84**	**418.07**
27-Apr-15 23:00:00	28-Apr-15 00:00:00		0.00	0.00	0.00	1,004.93	2.1	329.7		0.00	0.00	0.00	331.33		10.35	18.92	83.84	86.68	27-Apr-15 23:00:00		**10.35**	**18.92**	**83.84**	**418.01**
28-Apr-15 00:00:00	28-Apr-15 01:00:00		0.00	0.00	0.00	1,000.65	2.1	329.7		0.00	0.00	0.00	329.91		10.35	18.92	83.84	86.68	28-Apr-15 00:00:00		**10.35**	**18.92**	**83.84**	**416.59**
28-Apr-15 01:00:00	28-Apr-15 02:00:00		0.00	0.00	0.00	999.94	2.1	329.7		0.00	0.00	0.00	329.68		10.35	18.92	83.84	86.68	28-Apr-15 01:00:00		**10.35**	**18.92**	**83.84**	**416.36**
28-Apr-15 02:00:00	28-Apr-15 03:00:00		0.21	0.00	0.00	1,002.13	2.1	329.7		0.07	0.00	0.00	330.40		10.35	18.92	83.84	86.68	28-Apr-15 02:00:00		**10.42**	**18.92**	**83.84**	**417.08**
28-Apr-15 03:00:00	28-Apr-15 04:00:00		4.02	0.00	0.00	997.12	2.1	329.7		1.32	0.00	0.00	328.75		10.35	18.92	83.84	86.68	28-Apr-15 03:00:00		**11.67**	**18.92**	**83.84**	**415.43**
28-Apr-15 04:00:00	28-Apr-15 05:00:00		1.31	0.00	0.00	999.13	2.1	329.7		0.43	0.00	0.00	329.41		10.35	18.92	83.84	86.68	28-Apr-15 04:00:00		**10.78**	**18.92**	**83.84**	**416.09**
28-Apr-15 05:00:00	28-Apr-15 06:00:00		0.00	0.00	0.00	1,003.59	2.1	329.7		0.00	0.00	0.00	330.88		10.35	18.92	83.84	86.68	28-Apr-15 05:00:00		**10.35**	**18.92**	**83.84**	**417.56**
28-Apr-15 06:00:00	28-Apr-15 07:00:00		0.00	0.00	0.00	1,000.05	2.1	329.7		0.00	0.00	0.00	329.72		10.35	18.92	83.84	86.68	28-Apr-15 06:00:00		**10.35**	**18.92**	**83.84**	**416.40**
28-Apr-15 07:00:00	28-Apr-15 08:00:00		0.00	0.00	0.00	998.99	2.1	329.7		0.00	0.00	0.00	329.37		10.35	18.92	83.84	86.68	28-Apr-15 07:00:00		**10.35**	**18.92**	**83.84**	**416.05**
28-Apr-15 08:00:00	28-Apr-15 09:00:00		0.00	0.00	0.00	998.22	2.1	329.7		0.00	0.00	0.00	329.11		10.35	18.92	83.84	86.68	28-Apr-15 08:00:00		**10.35**	**18.92**	**83.84**	**415.79**
28-Apr-15 09:00:00	28-Apr-15 10:00:00		0.00	0.00	0.00	997.80	2.1	329.7		0.00	0.00	0.00	328.98		10.35	18.92	83.84	86.68	28-Apr-15 09:00:00		**10.35**	**18.92**	**83.84**	**415.66**
28-Apr-15 10:00:00	28-Apr-15 11:00:00		0.73	0.00	0.00	1,001.91	2.1	329.7		0.24	0.00	0.00	330.33		10.35	18.92	83.84	86.68	28-Apr-15 10:00:00		**10.59**	**18.92**	**83.84**	**417.01**
28-Apr-15 11:00:00	28-Apr-15 12:00:00		1.66	0.00	0.00	1,000.41	2.1	329.7		0.55	0.00	0.00	329.84		10.35	18.92	83.84	86.68	28-Apr-15 11:00:00		**10.90**	**18.92**	**83.84**	**416.52**
28-Apr-15 12:00:00	28-Apr-15 13:00:00		0.00	0.00	0.00	998.45	2.1	329.7		0.00	0.00	0.00	329.19		10.35	18.92	83.84	86.68	28-Apr-15 12:00:00		**10.35**	**18.92**	**83.84**	**415.87**
28-Apr-15 13:00:00	28-Apr-15 14:00:00		0.00	0.00	0.00	998.00	2.1	329.7		0.00	0.00	0.00	329.04		10.35	18.92	83.84	86.68	28-Apr-15 13:00:00		**10.35**	**18.92**	**83.84**	**415.72**
28-Apr-15 14:00:00	28-Apr-15 15:00:00		0.00	0.00	0.00	997.49	2.1	329.7		0.00	0.00	0.00	328.87		10.35	18.92	83.84	86.68	28-Apr-15 14:00:00		**10.35**	**18.92**	**83.84**	**415.55**
28-Apr-15 15:00:00	28-Apr-15 16:00:00		0.00	0.00	0.00	998.18	2.1	329.7		0.00	0.00	0.00	329.10		10.35	18.92	83.84	86.68	28-Apr-15 15:00:00		**10.35**	**18.92**	**83.84**	**415.78**
28-Apr-15 16:00:00	28-Apr-15 17:00:00		0.00	0.00	0.00	997.51	2.1	329.7		0.00	0.00	0.00	328.88		10.35	18.92	83.84	86.68	28-Apr-15 16:00:00		**10.35**	**18.92**	**83.84**	**415.56**
28-Apr-15 17:00:00	28-Apr-15 18:00:00		0.00	0.00	0.00	1,005.88	2.1	329.7		0.00	0.00	0.00	331.64		10.35	18.92	83.84	86.68	28-Apr-15 17:00:00		**10.35**	**18.92**	**83.84**	**418.32**
28-Apr-15 18:00:00	28-Apr-15 19:00:00		0.00	0.00	0.00	997.20	2.1	329.7		0.00	0.00	0.00	328.78		10.35	18.92	83.84	86.68	28-Apr-15 18:00:00		**10.35**	**18.92**	**83.84**	**415.46**
28-Apr-15 19:00:00	28-Apr-15 20:00:00		0.00	0.00	0.00	998.51	2.1	329.7		0.00	0.00	0.00	329.21		10.35	18.92	83.84	86.68	28-Apr-15 19:00:00		**10.35**	**18.92**	**83.84**	**415.89**
28-Apr-15 20:00:00	28-Apr-15 21:00:00		0.00	0.00	0.00	999.12	2.1	329.7		0.00	0.00	0.00	329.41		10.35	18.92	83.84	86.68	28-Apr-15 20:00:00		**10.35**	**18.92**	**83.84**	**416.09**
28-Apr-15 21:00:00	28-Apr-15 22:00:00		0.00	0.00	0.00	995.95	2.1	329.7		0.00	0.00	0.00	328.36		10.35	18.92	83.84	86.68	28-Apr-15 21:00:00		**10.35**	**18.92**	**83.84**	**415.04**
28-Apr-15 22:00:00	28-Apr-15 23:00:00		0.00	0.00	0.00	993.85	2.1	329.7		0.00	0.00	0.00	327.67		10.35	18.92	83.84	86.68	28-Apr-15 22:00:00		**10.35**	**18.92**	**83.84**	**414.35**
28-Apr-15 23:00:00	29-Apr-15 00:00:00		0.00	0.00	0.00	995.37	2.1	329.7		0.00	0.00	0.00	328.17		10.35	18.92	83.84	86.68	28-Apr-15 23:00:00		**10.35**	**18.92**	**83.84**	**414.85**
29-Apr-15 00:00:00	29-Apr-15 01:00:00		0.00	0.00	0.00	998.58	2.1	329.7		0.00	0.00	0.00	329.23		10.35	18.92	83.84	86.68	29-Apr-15 00:00:00		**10.35**	**18.92**	**83.84**	**415.91**
29-Apr-15 01:00:00	29-Apr-15 02:00:00		0.00	0.00	0.00	1,000.68	2.1	329.7		0.00	0.00	0.00	329.92		10.35	18.92	83.84	86.68	29-Apr-15 01:00:00		**10.35**	**18.92**	**83.84**	**416.60**
29-Apr-15 02:00:00	29-Apr-15 03:00:00		0.00	0.00	0.00	999.78	2.1	329.7		0.00	0.00	0.00	329.63		10.35	18.92	83.84	86.68	29-Apr-15 02:00:00		**10.35**	**18.92**	**83.84**	**416.31**
29-Apr-15 03:00:00	29-Apr-15 04:00:00		0.00	0.00	0.00	998.81	2.1	329.7		0.00	0.00	0.00	329.31		10.35	18.92	83.84	86.68	29-Apr-15 03:00:00		**10.35**	**18.92**	**83.84**	**415.99**
29-Apr-15 04:00:00	29-Apr-15 05:00:00		0.00	0.00	0.00	998.88	2.1	329.7		0.00	0.00	0.00	329.33		10.35	18.92	83.84	86.68	29-Apr-15 04:00:00		**10.35**	**18.92**	**83.84**	**416.01**
29-Apr-15 05:00:00	29-Apr-15 06:00:00		0.00	0.00	0.00	998.46	2.1	329.7		0.00	0.00	0.00	329.19		10.35	18.92	83.84	86.68	29-Apr-15 05:00:00		**10.35**	**18.92**	**83.84**	**415.87**
29-Apr-15 06:00:00	29-Apr-15 07:00:00		0.00	0.00	0.00	996.34	2.1	329.7		0.00	0.00	0.00	328.49		10.35	18.92	83.84	86.68	29-Apr-15 06:00:00		**10.35**	**18.92**	**83.84**	**415.17**
29-Apr-15 07:00:00	29-Apr-15 08:00:00		0.00	0.00	0.00	996.40	2.1	329.7		0.00	0.00	0.00	328.51		10.35	18.92	83.84	86.68	29-Apr-15 07:00:00		**10.35**	**18.92**	**83.84**	**415.19**
29-Apr-15 08:00:00	29-Apr-15 09:00:00		0.00	0.00	0.00	997.61	2.1	329.7		0.00	0.00	0.00	328.91		10.35	18.92	83.84	86.68	29-Apr-15 08:00:00		**10.35**	**18.92**	**83.84**	**415.59**
29-Apr-15 09:00:00	29-Apr-15 10:00:00		0.00	0.00	0.00	996.92	2.1	329.7		0.00	0.00	0.00	328.68		10.35	18.92	83.84	86.68	29-Apr-15 09:00:00		**10.35**	**18.92**	**83.84**	**415.36**
29-Apr-15 10:00:00	29-Apr-15 11:00:00		0.00	0.00	0.00	997.38	2.1	329.7		0.00	0.00	0.00	328.84		10.35	18.92	83.84	86.68	29-Apr-15 10:00:00		**10.35**	**18.92**	**83.84**	**415.52**
29-Apr-15 11:00:00	29-Apr-15 12:00:00		0.00	0.00	0.00	994.55	2.1	329.7		0.00	0.00	0.00	327.90		10.35	18.92	83.84	86.68	29-Apr-15 11:00:00		**10.35**	**18.92**	**83.84**	**414.58**
29-Apr-15 12:00:00	29-Apr-15 13:00:00		0.00	0.00	0.00	993.06	2.1	329.7		0.00	0.00	0.00	327.41		10.35	18.92	83.84	86.68	29-Apr-15 12:00:00		**10.35**	**18.92**	**83.84**	**414.09**
29-Apr-15 13:00:00	29-Apr-15 14:00:00		0.00	0.00	0.00	992.67	2.1	329.7		0.00	0.00	0.00	327.28		10.35	18.92	83.84	86.68	29-Apr-15 13:00:00		**10.35**	**18.92**	**83.84**	**413.96**
29-Apr-15 14:00:00	29-Apr-15 15:00:00		0.00	0.00	0.00	992.85	2.1	329.7		0.00	0.00	0.00	327.34		10.35	18.92	83.84	86.68	29-Apr-15 14:00:00		**10.35**	**18.92**	**83.84**	**414.02**
29-Apr-15 15:00:00	29-Apr-15 16:00:00		0.00	0.00	0.00	993.64	2.1	329.7		0.00	0.00	0.00	327.60		10.35	18.92	83.84	86.68	29-Apr-15 15:00:00		**10.35**	**18.92**	**83.84**	**414.28**
29-Apr-15 16:00:00	29-Apr-15 17:00:00		0.00	0.00	0.00	993.18	2.1	329.7		0.00	0.00	0.00	327.45		10.35	18.92	83.84	86.68	29-Apr-15 16:00:00		**10.35**	**18.92**	**83.84**	**414.13**
29-Apr-15 17:00:00	29-Apr-15 18:00:00		0.00	0.00	0.00	994.33	2.1	329.7		0.00	0.00	0.00	327.83		10.35	18.92	83.84	86.68	29-Apr-15 17:00:00		**10.35**	**18.92**	**83.84**	**414.51**
29-Apr-15 18:00:00	29-Apr-15 19:00:00		0.00	0.00	0.00	993.19	2.1	329.7		0.00	0.00	0.00	327.45		10.35	18.92	83.84	86.68	29-Apr-15 18:00:00		**10.35**	**18.92**	**83.84**	**414.13**
29-Apr-15 19:00:00	29-Apr-15 20:00:00		0.00	0.00	0.00	994.20	2.1	329.7		0.00	0.00	0.00	327.79		10.35	18.92	83.84	86.68	29-Apr-15 19:00:00		**10.35**	**18.92**	**83.84**	**414.47**
29-Apr-15 20:00:00	29-Apr-15 21:00:00		0.00	0.00	0.00	398.31	2.1	329.7		0.00	0.00	0.00	131.32		10.35	18.92	83.84	86.68	29-Apr-15 20:00:00		**10.35**	**18.92**	**83.84**	**218.00**
29-Apr-15 21:00:00	29-Apr-15 22:00:00		0.00	0.00	0.00	5.71	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	29-Apr-15 21:00:00		**10.35**	**18.92**	**83.84**	**86.56**
29-Apr-15 22:00:00	29-Apr-15 23:00:00		0.00	0.00	0.00	20.93	2.1	329.7		0.00	0.00	0.00	6.90		10.35	18.92	83.84	86.68	29-Apr-15 22:00:00		**10.35**	**18.92**	**83.84**	**93.58**
29-Apr-15 23:00:00	30-Apr-15 00:00:00		0.00	0.00	0.00	5.91	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	29-Apr-15 23:00:00		**10.35**	**18.92**	**83.84**	**88.63**
30-Apr-15 00:00:00	30-Apr-15 01:00:00		0.40	0.00	0.00	6.06	2.1	329.7		0.13	0.00	0.00	2.00		10.35	18.92	83.84	86.68	30-Apr-15 00:00:00		**10.48**	**18.92**	**83.84**	**88.68**
30-Apr-15 01:00:00	30-Apr-15 02:00:00		1.16	0.00	0.00	6.20	2.1	329.7		0.38	0.00	0.00	2.04		10.35	18.92	83.84	86.68	30-Apr-15 01:00:00		**10.73**	**18.92**	**83.84**	**88.72**
30-Apr-15 02:00:00	30-Apr-15 03:00:00		1.93	0.00	0.00	14.26	2.1	329.7		0.64	0.00	0.00	4.70		10.35	18.92	83.84	86.68	30-Apr-15 02:00:00		**10.99**	**18.92**	**83.84**	**91.38**
30-Apr-15 03:00:00	30-Apr-15 04:00:00		1.98	0.00	0.00	6.41	2.1	329.7		0.65	0.00	0.00	2.11		10.35	18.92	83.84	86.68	30-Apr-15 03:00:00		**11.00**	**18.92**	**83.84**	**88.79**
30-Apr-15 04:00:00	30-Apr-15 05:00:00		1.98	0.00	0.00	6.40	2.1	329.7		0.65	0.00	0.00	2.11		10.35	18.92	83.84	86.68	30-Apr-15 04:00:00		**10.35**	**18.92**	**83.84**	**88.79**
30-Apr-15 05:00:00	30-Apr-15 06:00:00		0.00	0.00	0.00	16.20	2.1	329.7		0.00	0.00	0.00	5.34		10.35	18.92	83.84	86.68	30-Apr-15 05:00:00		**10.35**	**18.92**	**83.84**	**92.02**
30-Apr-15 06:00:00	30-Apr-15 07:00:00		0.00	0.00	0.00	6.29	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	30-Apr-15 06:00:00		**10.35**	**18.92**	**83.84**	**88.75**
30-Apr-15 07:00:00	30-Apr-15 08:00:00		0.00	0.00	0.00	6.09	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	30-Apr-15 07:00:00		**10.35**	**18.92**	**83.84**	**88.69**
30-Apr-15 08:00:00	30-Apr-15 09:00:00		0.00	0.00	0.00	5.89	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	30-Apr-15 08:00:00		**10.35**	**18.92**	**83.84**	**88.62**
30-Apr-15 09:00:00	30-Apr-15 10:00:00		0.00	0.00	0.00	5.69	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	30-Apr-15 09:00:00		**10.35**	**18.92**	**83.84**	**88.55**
30-Apr-15 10:00:00	30-Apr-15 11:00:00		0.00	0.00	0.00	5.36	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	30-Apr-15 10:00:00		**10.35**	**18.92**	**83.84**	**88.45**
30-Apr-15 11:00:00	30-Apr-15 12:00:00		0.00	0.00	0.00	4.98	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	30-Apr-15 11:00:00		**10.35**	**18.92**	**83.84**	**88.32**
30-Apr-15 12:00:00	30-Apr-15 13:00:00		0.00	0.00	0.00	44.52	2.1	329.7		0.00	0.00	0.00	14.68		10.35	18.92	83.84	86.68	30-Apr-15 12:00:00		**10.35**	**18.92**	**83.84**	**101.36**
30-Apr-15 13:00:00	30-Apr-15 14:00:00		0.00	0.00	0.00	4.55	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	30-Apr-15 13:00:00		**10.35**	**18.92**	**83.84**	**88.18**
30-Apr-15 14:00:00	30-Apr-15 15:00:00		0.00	0.00	0.00	4.49	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	30-Apr-15 14:00:00		**10.35**	**18.92**	**83.84**	**88.16**
30-Apr-15 15:00:00	30-Apr-15 16:00:00		0.47	0.00	0.00	4.82	2.1	329.7		0.15	0.00	0.00	1.59		10.35	18.92	83.84	86.68	30-Apr-15 15:00:00		**10.50**	**18.92**	**83.84**	**88.27**
30-Apr-15 16:00:00	30-Apr-15 17:00:00		1.24	0.00	0.00	4.30	2.1	329.7		0.41	0.00	0.00	1.42		10.35	18.92	83.84	86.68	30-Apr-15 16:00:00		**10.76**	**18.92**	**83.84**	**88.10**
30-Apr-15 17:00:00	30-Apr-15 18:00:00		0.07	0.00	0.00	4.31	2.1	329.7		0.02	0.00	0.00	1.42		10.35	18.92	83.84	86.68	30-Apr-15 17:00:00		**10.37**	**18.92**	**83.84**	**88.10**

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
02-May-15 16:00:00	02-May-15 17:00:00		3.24	0.00	0.00	4.31	2.1	329.7		1.07	0.00	0.00	1.42		10.35	18.92	83.84	86.68	02-May-15 16:00:00		11.42	18.92	83.84	88.10
02-May-15 17:00:00	02-May-15 18:00:00		6.12	0.00	0.00	4.30	2.1	329.7		2.02	0.00	0.00	1.42		10.35	18.92	83.84	86.68	02-May-15 17:00:00		12.37	18.92	83.84	88.10
02-May-15 18:00:00	02-May-15 19:00:00		3.36	0.00	0.00	4.44	2.1	329.7		1.11	0.00	0.00	1.46		10.35	18.92	83.84	86.68	02-May-15 18:00:00		11.46	18.92	83.84	88.14
02-May-15 19:00:00	02-May-15 20:00:00		1.31	0.00	0.00	4.65	2.1	329.7		0.43	0.00	0.00	1.53		10.35	18.92	83.84	86.68	02-May-15 19:00:00		10.78	18.92	83.84	88.21
02-May-15 20:00:00	02-May-15 21:00:00		0.80	0.00	0.00	6.46	2.1	329.7		0.26	0.00	0.00	2.13		10.35	18.92	83.84	86.68	02-May-15 20:00:00		10.61	18.92	83.84	88.81
02-May-15 21:00:00	02-May-15 22:00:00		1.56	0.00	0.00	5.23	2.1	329.7		0.51	0.00	0.00	1.72		10.35	18.92	83.84	86.68	02-May-15 21:00:00		10.86	18.92	83.84	88.40
02-May-15 22:00:00	02-May-15 23:00:00		0.00	0.00	0.00	5.59	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	02-May-15 22:00:00		10.35	18.92	83.84	88.52
02-May-15 23:00:00	03-May-15 00:00:00		0.00	0.00	0.00	84.39	2.1	329.7		0.00	0.00	0.00	27.82		10.35	18.92	83.84	86.68	02-May-15 23:00:00		10.35	18.92	83.84	114.50
03-May-15 00:00:00	03-May-15 01:00:00		0.00	0.00	0.00	5.89	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	03-May-15 00:00:00		10.35	18.92	83.84	88.62
03-May-15 01:00:00	03-May-15 02:00:00		0.00	0.00	0.00	5.94	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	03-May-15 01:00:00		10.35	18.92	83.84	88.64
03-May-15 02:00:00	03-May-15 03:00:00		0.00	0.00	0.00	6.22	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	03-May-15 02:00:00		10.35	18.92	83.84	88.73
03-May-15 03:00:00	03-May-15 04:00:00		0.00	0.00	0.00	6.20	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	03-May-15 03:00:00		10.35	18.92	83.84	88.72
03-May-15 04:00:00	03-May-15 05:00:00		0.00	0.00	0.00	6.21	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	03-May-15 04:00:00		10.35	18.92	83.84	88.73
03-May-15 05:00:00	03-May-15 06:00:00		0.29	0.00	0.00	17.67	2.1	329.7		0.10	0.00	0.00	5.83		10.35	18.92	83.84	86.68	03-May-15 05:00:00		10.45	18.92	83.84	92.51
03-May-15 06:00:00	03-May-15 07:00:00		0.77	0.00	0.00	6.33	2.1	329.7		0.25	0.00	0.00	2.09		10.35	18.92	83.84	86.68	03-May-15 06:00:00		10.60	18.92	83.84	88.77
03-May-15 07:00:00	03-May-15 08:00:00		0.37	0.00	0.00	6.26	2.1	329.7		0.12	0.00	0.00	2.06		10.35	18.92	83.84	86.68	03-May-15 07:00:00		10.47	18.92	83.84	88.74
03-May-15 08:00:00	03-May-15 09:00:00		0.00	0.00	0.00	6.42	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	03-May-15 08:00:00		10.35	18.92	83.84	88.80
03-May-15 09:00:00	03-May-15 10:00:00		0.07	0.00	0.00	5.64	2.1	329.7		0.02	0.00	0.00	1.86		10.35	18.92	83.84	86.68	03-May-15 09:00:00		10.37	18.92	83.84	88.54
03-May-15 10:00:00	03-May-15 11:00:00		0.00	0.00	0.00	5.23	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	03-May-15 10:00:00		10.35	18.92	83.84	88.41
03-May-15 11:00:00	03-May-15 12:00:00		0.00	0.00	0.00	4.83	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	03-May-15 11:00:00		10.35	18.92	83.84	88.27
03-May-15 12:00:00	03-May-15 13:00:00		0.00	0.00	0.00	4.42	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	03-May-15 12:00:00		10.35	18.92	83.84	88.14
03-May-15 13:00:00	03-May-15 14:00:00		0.26	0.00	0.00	4.26	2.1	329.7		0.09	0.00	0.00	1.41		10.35	18.92	83.84	86.68	03-May-15 13:00:00		10.44	18.92	83.84	88.09
03-May-15 14:00:00	03-May-15 15:00:00		0.00	0.00	0.00	4.22	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	03-May-15 14:00:00		10.35	18.92	83.84	88.07
03-May-15 15:00:00	03-May-15 16:00:00		0.00	0.00	0.00	4.19	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	03-May-15 15:00:00		10.35	18.92	83.84	88.06
03-May-15 16:00:00	03-May-15 17:00:00		4.85	0.00	0.00	4.21	2.1	329.7		1.60	0.00	0.00	1.39		10.35	18.92	83.84	86.68	03-May-15 16:00:00		11.95	18.92	83.84	88.07
03-May-15 17:00:00	03-May-15 18:00:00		7.81	0.00	0.00	31.52	2.1	329.7		2.58	0.00	0.00	10.39		10.35	18.92	83.84	86.68	03-May-15 17:00:00		12.93	18.92	83.84	97.07
03-May-15 18:00:00	03-May-15 19:00:00		7.49	0.00	0.00	4.24	2.1	329.7		2.47	0.00	0.00	1.40		10.35	18.92	83.84	86.68	03-May-15 18:00:00		12.82	18.92	83.84	88.08
03-May-15 19:00:00	03-May-15 20:00:00		7.64	0.00	0.00	4.51	2.1	329.7		2.52	0.00	0.00	1.49		10.35	18.92	83.84	86.68	03-May-15 19:00:00		12.87	18.92	83.84	88.17
03-May-15 20:00:00	03-May-15 21:00:00		7.12	0.00	0.00	4.79	2.1	329.7		2.35	0.00	0.00	1.58		10.35	18.92	83.84	86.68	03-May-15 20:00:00		12.70	18.92	83.84	88.26
03-May-15 21:00:00	03-May-15 22:00:00		2.26	0.00	0.00	5.06	2.1	329.7		0.74	0.00	0.00	1.67		10.35	18.92	83.84	86.68	03-May-15 21:00:00		11.09	18.92	83.84	88.35
03-May-15 22:00:00	03-May-15 23:00:00		0.86	0.00	0.00	5.28	2.1	329.7		0.29	0.00	0.00	1.74		10.35	18.92	83.84	86.68	03-May-15 22:00:00		10.64	18.92	83.84	88.42
03-May-15 23:00:00	04-May-15 00:00:00		0.56	0.00	0.00	5.46	2.1	329.7		0.18	0.00	0.00	1.80		10.35	18.92	83.84	86.68	03-May-15 23:00:00		10.53	18.92	83.84	88.48
04-May-15 00:00:00	04-May-15 01:00:00		0.25	0.00	0.00	79.65	2.1	329.7		0.08	0.00	0.00	26.26		10.35	18.92	83.84	86.68	04-May-15 00:00:00		10.43	18.92	83.84	112.94
04-May-15 01:00:00	04-May-15 02:00:00		0.02	0.00	0.00	5.73	2.1	329.7		0.01	0.00	0.00	1.89		10.35	18.92	83.84	86.68	04-May-15 01:00:00		10.36	18.92	83.84	88.57
04-May-15 02:00:00	04-May-15 03:00:00		0.00	0.00	0.00	6.96	2.1	329.7		0.00	0.00	0.00	2.30		10.35	18.92	83.84	86.68	04-May-15 02:00:00		10.35	18.92	83.84	88.98
04-May-15 03:00:00	04-May-15 04:00:00		0.00	0.00	0.00	5.95	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	04-May-15 03:00:00		10.35	18.92	83.84	88.64
04-May-15 04:00:00	04-May-15 05:00:00		0.00	0.00	0.00	5.87	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	04-May-15 04:00:00		10.35	18.92	83.84	88.62
04-May-15 05:00:00	04-May-15 06:00:00		0.00	0.00	0.00	5.79	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	04-May-15 05:00:00		10.35	18.92	83.84	88.59
04-May-15 06:00:00	04-May-15 07:00:00		0.00	0.00	0.00	5.70	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	04-May-15 06:00:00		10.35	18.92	83.84	88.56
04-May-15 07:00:00	04-May-15 08:00:00		0.00	0.00	0.00	5.47	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	04-May-15 07:00:00		10.35	18.92	83.84	88.48
04-May-15 08:00:00	04-May-15 09:00:00		0.00	0.00	0.00	5.26	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	04-May-15 08:00:00		10.35	18.92	83.84	88.41
04-May-15 09:00:00	04-May-15 10:00:00		0.00	0.00	0.00	5.04	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	04-May-15 09:00:00		10.35	18.92	83.84	88.34
04-May-15 10:00:00	04-May-15 11:00:00		0.00	0.00	0.00	4.83	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	04-May-15 10:00:00		10.35	18.92	83.84	88.27
04-May-15 11:00:00	04-May-15 12:00:00		0.00	0.00	0.00	4.56	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	04-May-15 11:00:00		10.35	18.92	83.84	88.18
04-May-15 12:00:00	04-May-15 13:00:00		0.22	0.00	0.00	21.48	2.1	329.7		0.07	0.00	0.00	7.08		10.35	18.92	83.84	86.68	04-May-15 12:00:00		10.42	18.92	83.84	93.76
04-May-15 13:00:00	04-May-15 14:00:00		12.48	0.00	0.00	4.35	2.1	329.7		4.11	0.00	0.00	1.43		10.35	18.92	83.84	86.68	04-May-15 13:00:00		14.46	18.92	83.84	88.11
04-May-15 14:00:00	04-May-15 15:00:00		8.59	0.00	0.00	4.22	2.1	329.7		2.83	0.00	0.00	1.39		10.35	18.92	83.84	86.68	04-May-15 14:00:00		13.18	18.92	83.84	88.07
04-May-15 15:00:00	04-May-15 16:00:00		0.00	0.00	0.00	25.05	2.1	329.7		0.00	0.00	0.00	8.26		10.35	18.92	83.84	86.68	04-May-15 15:00:00		10.35	18.92	83.84	94.94
04-May-15 16:00:00	04-May-15 17:00:00		0.00	0.00	0.00	4.14	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	04-May-15 16:00:00		10.35	18.92	83.84	88.05
04-May-15 17:00:00	04-May-15 18:00:00		0.00	0.00	0.00	4.15	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	04-May-15 17:00:00		10.35	18.92	83.84	88.05
04-May-15 18:00:00	04-May-15 19:00:00		0.02	0.00	0.00	26.73	2.1	329.7		0.01	0.00	0.00	8.81		10.35	18.92	83.84	86.68	04-May-15 18:00:00		10.36	18.92	83.84	95.49
04-May-15 19:00:00	04-May-15 20:00:00		0.38	0.00	0.00	4.45	2.1	329.7		0.13	0.00	0.00	1.47		10.35	18.92	83.84	86.68	04-May-15 19:00:00		10.48	18.92	83.84	88.15
04-May-15 20:00:00	04-May-15 21:00:00		0.89	0.00	0.00	4.67	2.1	329.7		0.29	0.00	0.00	1.54		10.35	18.92	83.84	86.68	04-May-15 20:00:00		10.64	18.92	83.84	88.22
04-May-15 21:00:00	04-May-15 22:00:00		1.16	0.00	0.00	23.55	2.1	329.7		0.38	0.00	0.00	7.76		10.35	18.92	83.84	86.68	04-May-15 21:00:00		10.73	18.92	83.84	94.44
04-May-15 22:00:00	04-May-15 23:00:00		7.64	0.00	0.00	5.08	2.1	329.7		2.52	0.00	0.00	1.68		10.35	18.92	83.84	86.68	04-May-15 22:00:00		12.87	18.92	83.84	88.36
04-May-15 23:00:00	05-May-15 00:00:00		1.85	0.00	0.00	5.21	2.1	329.7		0.61	0.00	0.00	1.72		10.35	18.92	83.84	86.68	04-May-15 23:00:00		10.96	18.92	83.84	88.40
05-May-15 00:00:00	05-May-15 01:00:00		0.00	0.00	0.00	5.34	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	05-May-15 00:00:00		10.35	18.92	83.84	88.44
05-May-15 01:00:00	05-May-15 02:00:00		0.00	0.00	0.00	5.47	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	05-May-15 01:00:00		10.35	18.92	83.84	88.48
05-May-15 02:00:00	05-May-15 03:00:00		0.00	0.00	0.00	5.56	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	05-May-15 02:00:00		10.35	18.92	83.84	88.51
05-May-15 03:00:00	05-May-15 04:00:00		0.00	0.00	0.00	5.61	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	05-May-15 03:00:00		10.35	18.92	83.84	88.53
05-May-15 04:00:00	05-May-15 05:00:00		0.00	0.00	0.00	5.66	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	05-May-15 04:00:00		10.35	18.92	83.84	88.55
05-May-15 05:00:00	05-May-15 06:00:00		0.00	0.00	0.00	5.73	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	05-May-15 05:00:00		10.35	18.92	83.84	88.57
05-May-15 06:00:00	05-May-15 07:00:00		0.00	0.00	0.00	5.73	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	05-May-15 06:00:00		10.35	18.92	83.84	88.57
05-May-15 07:00:00	05-May-15 08:00:00		0.00	0.00	0.00	5.57	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	05-May-15 07:00:00		10.35	18.92	83.84	88.52
05-May-15 08:00:00	05-May-15 09:00:00		0.00	0.00	0.00	5.42	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	05-May-15 08:00:00		10.35	18.92	83.84	88.47
05-May-15 09:00:00	05-May-15 10:00:00		0.00	0.00	0.00	5.27	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	05-May-15 09:00:00		10.35	18.92	83.84	88.42
05-May-15 10:00:00	05-May-15 11:00:00		0.00	0.00	0.00	27.00	2.1	329.7		0.00	0.00	0.00	8.90		10.35	18.92	83.84	86.68	05-May-15 10:00:00		10.35	18.92	83.84	95.58
05-May-15 11:00:00	05-May-15 12:00:00		0.00	0.00	0.00	4.76	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	05-May-15 11:00:00		10.35	18.92	83.84	88.25
05-May-15 12:00:00	05-May-15 13:00:00		0.86	0.00	0.00	4.47	2.1	329.7		0.28	0.00	0.00	1.47		10.35	18.92	83.84	86.68	05-May-15 12:00:00		10.63	18.92	83.84	88.15
05-May-15 13:00:00	05-May-15 14:00:00		3.26	0.00	0.00	9.25	2.1	329.7		1.08	0.00	0.00	3.05		10.35	18.92	83.84	86.68	05-May-15 13:00:00		11.43	18.92	83.84	89.73
05-May-15 14:00:00	05-May-15 15:00:00		3.80	0.00	0.00	4.28	2.1	329.7		1.25	0.00	0.00	1.41		10.35	18.92	83.84	86.68	05-May-15 14:00:00		11.60	18.92	83.84	88.09
05-May-15 15:00:00	05-May-15 16:00:00		4.87	0.00	0.00	17.14	2.1	329.7		1.61	0.00	0.00	5.65		10.35	18.92	83.84	86.68	05-May-15 15:00:00		11.96	18.92	83.84	92.33
05-May-15 16:00:00	05-May-15 17:00:00		8.78	0.00	0.00	4.24	2.1	329.7		2.89	0.00	0.00	1.40		10.35	18.92	83.84	86.68	05-May-15 16:00:00		13.24	18.92	83.84	88.08
05-May-15 17:00:00	05-May-15 18:00:00		8.14	0.00	0.00	4.41	2.1	329.7		2.68	0.00	0.00	1.45		10.35	18.92	83.84	86.68	05-May-15 17:00:00		13.03	18.92	83.84	88.13
05-May-15 18:00:00	05-May-15 19:00:00		3.27	0.00	0.00	4.58	2.1	329.7		1.08	0.00	0.00	1.51		10.35	18.92	83.84	86.68	05-May-15 18:00:00		11.43	18.92	83.84	88.19
05-May-15 19:00:00	05-May-15 20:00:00		3.23	0.00	0.00	114.63	2.1	329.7		1.06	0.00	0.00	37.79		10.35	18.92	83.84	86.68	05-May-15 19:00:00		11.41	18.92	83.84	124.47
05-May-15 20:00:00	05-May-15 21:00:00		2.22	0.00	0.00	4.86	2.1	329.7		0.73	0.00	0.00	1.60		10.35	18.92	83.84	86.68	05-May-15 20:00:00		11.08	18.92	83.84	88.28
05-May-15 21:00:00	05-May-15 22:00:00		2.51	0.00	0.00	5.01	2.1	329.7		0.83	0.00	0.00	1.65		10.35	18.92	83.84	86.68	05-May-15 21:00:00		11.18	18.92	83.84	88.33
05-May-15 22:00:00	05-May-15 23:00:00		4.21	0.00	0.00	5.16	2.1	329.7		1.39	0.00	0.00	1.70		10.35	18.92	83.84	86.68	05-May-15 22:00:00		11.74	18.92	83.84	88.38
05-May-15 23:00:00	06-May-15 00:00:00		0.00	0.00	0.00	5.38	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	05-May-15 23:00:00		10.35	18.92	83.84	88.45
06-May-15 00:00:00	06-May-15 01:00:00		0.00	0.00	0.00	5.50	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	06-May-15 00:00:00		10.35	18.92	83.84	88.49
06-May-15 01:00:00	06-May-15 02:00:00		0.00	0.00	0.00	5.62	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	06-May-15 01:00:00		10.35	18.92	83.84	88.53
06-May-15 02:00:00	06-May-15 03:00:00		0.00	0.00	0.00	5.73	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	06-May-15 02:00:00		10.35	18.92	83.84	88.57
06-May-15 03:00:00	06-May-15 04:00:00		0.00	0.00	0.00	5.90	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	06-May-15 03:00:00		10.35	18.92	83.84	88.63
06-May-15 04:00:00	06-May-15 05:00:00		0.00	0.00	0.00	5.93	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	06-May-15 04:00:00		10.35	18.92	83.84	88.63
06-May-15 05:00:00	06-May-15 06:00:00		0.00	0.00	0.00	5.95	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	06-May-15 05:00:00		10.35	18.92	83.84	88.64
06-May-15 06:00:00	06-May-15 07:00:00		0.00	0.00	0.00	5.97	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	06-May-15 06:00:00		10.35	18.92	83.84	88.65
06-May-15 07:00:00	06-May-15 08:00:00		0.00	0.00	0.00	12.21	2.1	329.7		0.00	0.00	0.00	4.03		10.35	18.92	83.84	86.68	06-May-15 07:00:00		10.35	18.92	83.84	90.71
06-May-15 08:00:00	06-May-15 09:00:00		0.00	5.14	29.57	5.76	2.1	329.7		0.00	1.69	9.75	1.90		10.35	18.92	83.84	86.68	06-May-15 08:00:00		10.35	20.61	93.59	88.58
06-May-15 09:00:00	06-May-15 10:00:00		0.00	0.00	98.79	5.53	2.1	329.7		0.00	0.00	32.57	1.82		10.35	18.92	83.84	86.68	06-May-15 09:00:00		10.35	18.92	116.41	88.50
06-May-15 10:00:00	06-May-15 11:00:00		0.00	0.00	0.00	7.55	2.1	329.7		0.00	0.00	0.00	2.49		10.35	18.92	83.84	86.68	06-May-15 10:00:00		10.35	18.92	83.84	89.17
06-May-15 11:00:00	06-May-15 12:00:00		1.26	0.00	0.00	5.16	2.1	329.7		0.42	0.00	0.00	1.70		10.35	18.92	83.84	86.68	06-May-15 11:00:00		10.77	18.92	83.84	88.38
06-May-15 12:00:00	06-May-15 13:00:00		3.72	0.00	0.00	5.02	2.1	329.7		1.23	0.00	0.00	1.65		10.35	18.92	83.84	86.68	06-May-15 12:00:00		11.58	18.92	83.84	88.33
06-May-15 13:00:00	06-May-15 14:00:00		0.00	0.00	0.00	4.88	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	06-May-15 13:00:00		10.35	18.92	83.84	88.29
06-May-15 14:00:00	06-May-15 15:00:00		0.00	0.00	0.00	14.11	2.1	329.7		0.00	0.00	0.00	4.65		10.35	18.92	83.84	86.68	06-May-15 14:00:00		10.35	18.92	83.84	91.33
06-May-15 15:00:00	06-May-15 16:00:00		0.00	0.00	0.00	4.72	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	06-May-15 15:00:00		10.35	18.92	83.84	88.24
06-May-15 16:00:00	06-May-15 17:00:00		0.00	0.00	0.00	4.73	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	06-May-15 16:00:00		10.35	18.92	83.84

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
08-May-15 11:00:00	08-May-15 12:00:00		0.15	0.00	0.00	4.92	2.1	329.7		0.05	0.00	0.00	1.62		10.35	18.92	83.84	86.68	08-May-15 11:00:00		10.40	18.92	83.84	88.30
08-May-15 12:00:00	08-May-15 13:00:00		2.19	0.00	0.00	4.65	2.1	329.7		0.72	0.00	0.00	1.53		10.35	18.92	83.84	86.68	08-May-15 12:00:00		11.07	18.92	83.84	88.21
08-May-15 13:00:00	08-May-15 14:00:00		6.16	0.00	0.00	4.38	2.1	329.7		2.03	0.00	0.00	1.45		10.35	18.92	83.84	86.68	08-May-15 13:00:00		12.38	18.92	83.84	88.13
08-May-15 14:00:00	08-May-15 15:00:00		0.62	0.00	0.00	4.16	2.1	329.7		0.20	0.00	0.00	1.37		10.35	18.92	83.84	86.68	08-May-15 14:00:00		10.55	18.92	83.84	88.05
08-May-15 15:00:00	08-May-15 16:00:00		3.61	0.00	0.00	4.14	2.1	329.7		1.19	0.00	0.00	1.37		10.35	18.92	83.84	86.68	08-May-15 15:00:00		11.54	18.92	83.84	88.05
08-May-15 16:00:00	08-May-15 17:00:00		1.05	0.00	0.00	4.14	2.1	329.7		0.35	0.00	0.00	1.37		10.35	18.92	83.84	86.68	08-May-15 16:00:00		10.70	18.92	83.84	88.05
08-May-15 17:00:00	08-May-15 18:00:00		0.00	0.00	0.00	4.15	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	08-May-15 17:00:00		10.35	18.92	83.84	88.05
08-May-15 18:00:00	08-May-15 19:00:00		0.00	0.00	0.00	4.22	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	08-May-15 18:00:00		10.35	18.92	83.84	88.07
08-May-15 19:00:00	08-May-15 20:00:00		0.00	0.00	0.00	4.46	2.1	329.7		0.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	08-May-15 19:00:00		10.35	18.92	83.84	88.15
08-May-15 20:00:00	08-May-15 21:00:00		0.00	0.00	0.00	4.67	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	08-May-15 20:00:00		10.35	18.92	83.84	88.22
08-May-15 21:00:00	08-May-15 22:00:00		0.00	0.00	0.00	4.88	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	08-May-15 21:00:00		10.35	18.92	83.84	88.29
08-May-15 22:00:00	08-May-15 23:00:00		0.00	0.00	0.00	5.08	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	08-May-15 22:00:00		10.35	18.92	83.84	88.35
08-May-15 23:00:00	09-May-15 00:00:00		2.77	0.00	0.00	18.50	2.1	329.7		0.91	0.00	0.00	6.10		10.35	18.92	83.84	86.68	08-May-15 23:00:00		11.26	18.92	83.84	92.78
09-May-15 00:00:00	09-May-15 01:00:00		2.53	0.00	0.00	5.37	2.1	329.7		0.83	0.00	0.00	1.77		10.35	18.92	83.84	86.68	09-May-15 00:00:00		11.18	18.92	83.84	88.45
09-May-15 01:00:00	09-May-15 02:00:00		5.26	0.00	0.00	5.62	2.1	329.7		1.74	0.00	0.00	1.85		10.35	18.92	83.84	86.68	09-May-15 01:00:00		12.09	18.92	83.84	88.53
09-May-15 02:00:00	09-May-15 03:00:00		11.14	0.00	0.00	7.11	2.1	329.7		3.67	0.00	0.00	2.34		10.35	18.92	83.84	86.68	09-May-15 02:00:00		14.02	18.92	83.84	89.02
09-May-15 03:00:00	09-May-15 04:00:00		5.94	0.00	0.00	5.79	2.1	329.7		1.96	0.00	0.00	1.91		10.35	18.92	83.84	86.68	09-May-15 03:00:00		12.31	18.92	83.84	88.59
09-May-15 04:00:00	09-May-15 05:00:00		2.07	0.00	0.00	5.81	2.1	329.7		0.68	0.00	0.00	1.91		10.35	18.92	83.84	86.68	09-May-15 04:00:00		11.03	18.92	83.84	88.59
09-May-15 05:00:00	09-May-15 06:00:00		0.00	0.00	0.00	5.82	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	09-May-15 05:00:00		10.35	18.92	83.84	88.60
09-May-15 06:00:00	09-May-15 07:00:00		0.00	0.00	0.00	24.53	2.1	329.7		0.00	0.00	0.00	8.09		10.35	18.92	83.84	86.68	09-May-15 06:00:00		10.35	18.92	83.84	94.77
09-May-15 07:00:00	09-May-15 08:00:00		0.00	0.00	0.00	5.56	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	09-May-15 07:00:00		10.35	18.92	83.84	88.51
09-May-15 08:00:00	09-May-15 09:00:00		0.00	0.00	0.00	5.38	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	09-May-15 08:00:00		10.35	18.92	83.84	88.45
09-May-15 09:00:00	09-May-15 10:00:00		0.01	0.00	0.00	5.20	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	09-May-15 09:00:00		10.35	18.92	83.84	88.39
09-May-15 10:00:00	09-May-15 11:00:00		0.78	0.00	0.00	5.10	2.1	329.7		0.26	0.00	0.00	1.68		10.35	18.92	83.84	86.68	09-May-15 10:00:00		10.61	18.92	83.84	88.36
09-May-15 11:00:00	09-May-15 12:00:00		5.04	0.00	0.00	4.84	2.1	329.7		1.66	0.00	0.00	1.60		10.35	18.92	83.84	86.68	09-May-15 11:00:00		12.01	18.92	83.84	88.28
09-May-15 12:00:00	09-May-15 13:00:00		1.58	0.00	0.00	24.14	2.1	329.7		0.52	0.00	0.00	7.96		10.35	18.92	83.84	86.68	09-May-15 12:00:00		10.87	18.92	83.84	94.64
09-May-15 13:00:00	09-May-15 14:00:00		9.45	0.00	0.00	4.67	2.1	329.7		3.11	0.00	0.00	1.54		10.35	18.92	83.84	86.68	09-May-15 13:00:00		13.46	18.92	83.84	88.22
09-May-15 14:00:00	09-May-15 15:00:00		1.60	0.00	0.00	4.64	2.1	329.7		0.53	0.00	0.00	1.53		10.35	18.92	83.84	86.68	09-May-15 14:00:00		10.88	18.92	83.84	88.21
09-May-15 15:00:00	09-May-15 16:00:00		1.94	0.00	0.00	4.61	2.1	329.7		0.64	0.00	0.00	1.52		10.35	18.92	83.84	86.68	09-May-15 15:00:00		10.99	18.92	83.84	88.20
09-May-15 16:00:00	09-May-15 17:00:00		0.85	0.00	0.00	4.59	2.1	329.7		0.28	0.00	0.00	1.51		10.35	18.92	83.84	86.68	09-May-15 16:00:00		10.63	18.92	83.84	88.19
09-May-15 17:00:00	09-May-15 18:00:00		0.60	0.00	0.00	4.64	2.1	329.7		0.20	0.00	0.00	1.53		10.35	18.92	83.84	86.68	09-May-15 17:00:00		10.55	18.92	83.84	88.21
09-May-15 18:00:00	09-May-15 19:00:00		0.35	0.00	0.00	16.48	2.1	329.7		0.12	0.00	0.00	5.43		10.35	18.92	83.84	86.68	09-May-15 18:00:00		10.47	18.92	83.84	92.11
09-May-15 19:00:00	09-May-15 20:00:00		0.11	0.00	0.00	4.79	2.1	329.7		0.03	0.00	0.00	1.58		10.35	18.92	83.84	86.68	09-May-15 19:00:00		10.38	18.92	83.84	88.26
09-May-15 20:00:00	09-May-15 21:00:00		0.09	0.00	0.00	4.97	2.1	329.7		0.03	0.00	0.00	1.64		10.35	18.92	83.84	86.68	09-May-15 20:00:00		10.38	18.92	83.84	88.32
09-May-15 21:00:00	09-May-15 22:00:00		0.23	0.00	0.00	6.85	2.1	329.7		0.08	0.00	0.00	2.26		10.35	18.92	83.84	86.68	09-May-15 21:00:00		10.43	18.92	83.84	88.94
09-May-15 22:00:00	09-May-15 23:00:00		0.55	0.00	0.00	5.16	2.1	329.7		0.18	0.00	0.00	1.70		10.35	18.92	83.84	86.68	09-May-15 22:00:00		10.53	18.92	83.84	88.38
09-May-15 23:00:00	10-May-15 00:00:00		1.81	0.00	0.00	5.20	2.1	329.7		0.60	0.00	0.00	1.71		10.35	18.92	83.84	86.68	09-May-15 23:00:00		10.95	18.92	83.84	88.39
10-May-15 00:00:00	10-May-15 01:00:00		4.62	0.00	0.00	6.48	2.1	329.7		1.52	0.00	0.00	2.14		10.35	18.92	83.84	86.68	10-May-15 00:00:00		11.87	18.92	83.84	88.82
10-May-15 01:00:00	10-May-15 02:00:00		2.69	0.00	0.00	5.23	2.1	329.7		0.89	0.00	0.00	1.72		10.35	18.92	83.84	86.68	10-May-15 01:00:00		11.24	18.92	83.84	88.40
10-May-15 02:00:00	10-May-15 03:00:00		2.81	0.00	0.00	5.14	2.1	329.7		0.93	0.00	0.00	1.70		10.35	18.92	83.84	86.68	10-May-15 02:00:00		11.28	18.92	83.84	88.38
10-May-15 03:00:00	10-May-15 04:00:00		2.92	0.00	0.00	17.81	2.1	329.7		0.96	0.00	0.00	5.87		10.35	18.92	83.84	86.68	10-May-15 03:00:00		11.31	18.92	83.84	92.55
10-May-15 04:00:00	10-May-15 05:00:00		2.33	0.00	0.00	5.10	2.1	329.7		0.77	0.00	0.00	1.68		10.35	18.92	83.84	86.68	10-May-15 04:00:00		11.12	18.92	83.84	88.36
10-May-15 05:00:00	10-May-15 06:00:00		0.00	0.00	0.00	5.05	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	10-May-15 05:00:00		10.35	18.92	83.84	88.34
10-May-15 06:00:00	10-May-15 07:00:00		0.00	0.00	0.00	5.00	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	10-May-15 06:00:00		10.35	18.92	83.84	88.33
10-May-15 07:00:00	10-May-15 08:00:00		0.00	0.00	0.00	4.94	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	10-May-15 07:00:00		10.35	18.92	83.84	88.31
10-May-15 08:00:00	10-May-15 09:00:00		0.00	0.00	0.00	4.82	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	10-May-15 08:00:00		10.35	18.92	83.84	88.27
10-May-15 09:00:00	10-May-15 10:00:00		0.00	0.00	0.00	4.67	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	10-May-15 09:00:00		10.35	18.92	83.84	88.22
10-May-15 10:00:00	10-May-15 11:00:00		0.00	0.00	0.00	4.85	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	10-May-15 10:00:00		10.35	18.92	83.84	88.28
10-May-15 11:00:00	10-May-15 12:00:00		0.00	0.00	0.00	4.48	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	10-May-15 11:00:00		10.35	18.92	83.84	88.16
10-May-15 12:00:00	10-May-15 13:00:00		0.00	0.00	0.00	4.29	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	10-May-15 12:00:00		10.35	18.92	83.84	88.09
10-May-15 13:00:00	10-May-15 14:00:00		0.05	0.00	0.00	5.38	2.1	329.7		0.02	0.00	0.00	1.77		10.35	18.92	83.84	86.68	10-May-15 13:00:00		10.37	18.92	83.84	88.45
10-May-15 14:00:00	10-May-15 15:00:00		0.00	0.00	0.00	4.01	2.1	329.7		0.00	0.00	0.00	1.32		10.35	18.92	83.84	86.68	10-May-15 14:00:00		10.35	18.92	83.84	88.00
10-May-15 15:00:00	10-May-15 16:00:00		0.00	0.00	0.00	3.93	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	10-May-15 15:00:00		10.35	18.92	83.84	87.98
10-May-15 16:00:00	10-May-15 17:00:00		2.22	0.00	0.00	5.28	2.1	329.7		0.73	0.00	0.00	1.74		10.35	18.92	83.84	86.68	10-May-15 16:00:00		11.08	18.92	83.84	88.42
10-May-15 17:00:00	10-May-15 18:00:00		0.00	0.00	0.00	4.11	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	10-May-15 17:00:00		10.35	18.92	83.84	88.03
10-May-15 18:00:00	10-May-15 19:00:00		0.00	0.00	0.00	4.21	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	10-May-15 18:00:00		10.35	18.92	83.84	88.07
10-May-15 19:00:00	10-May-15 20:00:00		0.00	0.00	0.00	4.32	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	10-May-15 19:00:00		10.35	18.92	83.84	88.10
10-May-15 20:00:00	10-May-15 21:00:00		0.00	0.00	0.00	4.48	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	10-May-15 20:00:00		10.35	18.92	83.84	88.16
10-May-15 21:00:00	10-May-15 22:00:00		0.00	0.00	0.00	4.61	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	10-May-15 21:00:00		10.35	18.92	83.84	88.20
10-May-15 22:00:00	10-May-15 23:00:00		0.00	0.00	0.00	4.67	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	10-May-15 22:00:00		10.35	18.92	83.84	88.22
10-May-15 23:00:00	11-May-15 00:00:00		0.00	0.00	0.00	4.74	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	10-May-15 23:00:00		10.35	18.92	83.84	88.24
11-May-15 00:00:00	11-May-15 01:00:00		1.95	0.00	0.00	4.78	2.1	329.7		0.64	0.00	0.00	1.58		10.35	18.92	83.84	86.68	11-May-15 00:00:00		10.99	18.92	83.84	88.26
11-May-15 01:00:00	11-May-15 02:00:00		0.00	0.00	0.00	4.84	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	11-May-15 01:00:00		10.35	18.92	83.84	88.28
11-May-15 02:00:00	11-May-15 03:00:00		0.87	0.00	0.00	4.94	2.1	329.7		0.29	0.00	0.00	1.63		10.35	18.92	83.84	86.68	11-May-15 02:00:00		10.64	18.92	83.84	88.31
11-May-15 03:00:00	11-May-15 04:00:00		12.11	0.00	0.00	5.03	2.1	329.7		3.99	0.00	0.00	1.66		10.35	18.92	83.84	86.68	11-May-15 03:00:00		14.34	18.92	83.84	88.34
11-May-15 04:00:00	11-May-15 05:00:00		21.39	0.00	0.00	5.14	2.1	329.7		7.05	0.00	0.00	1.69		10.35	18.92	83.84	86.68	11-May-15 04:00:00		17.40	18.92	83.84	88.37
11-May-15 05:00:00	11-May-15 06:00:00		13.96	0.00	0.00	5.23	2.1	329.7		4.60	0.00	0.00	1.72		10.35	18.92	83.84	86.68	11-May-15 05:00:00		14.95	18.92	83.84	88.40
11-May-15 06:00:00	11-May-15 07:00:00		3.62	0.00	0.00	5.30	2.1	329.7		1.19	0.00	0.00	1.75		10.35	18.92	83.84	86.68	11-May-15 06:00:00		11.54	18.92	83.84	88.43
11-May-15 07:00:00	11-May-15 08:00:00		2.95	0.00	0.00	5.37	2.1	329.7		0.97	0.00	0.00	1.77		10.35	18.92	83.84	86.68	11-May-15 07:00:00		11.32	18.92	83.84	88.45
11-May-15 08:00:00	11-May-15 09:00:00		2.91	0.00	0.00	5.38	2.1	329.7		0.96	0.00	0.00	1.77		10.35	18.92	83.84	86.68	11-May-15 08:00:00		11.31	18.92	83.84	88.45
11-May-15 09:00:00	11-May-15 10:00:00		2.87	0.00	0.00	4.99	2.1	329.7		0.95	0.00	0.00	1.65		10.35	18.92	83.84	86.68	11-May-15 09:00:00		11.30	18.92	83.84	88.33
11-May-15 10:00:00	11-May-15 11:00:00		2.17	0.00	0.00	4.54	2.1	329.7		0.71	0.00	0.00	1.50		10.35	18.92	83.84	86.68	11-May-15 10:00:00		11.06	18.92	83.84	88.18
11-May-15 11:00:00	11-May-15 12:00:00		1.70	0.00	0.00	14.66	2.1	329.7		0.56	0.00	0.00	4.83		10.35	18.92	83.84	86.68	11-May-15 11:00:00		10.91	18.92	83.84	91.51
11-May-15 12:00:00	11-May-15 13:00:00		2.11	0.00	0.00	4.04	2.1	329.7		0.70	0.00	0.00	1.33		10.35	18.92	83.84	86.68	11-May-15 12:00:00		11.05	18.92	83.84	88.01
11-May-15 13:00:00	11-May-15 14:00:00		3.25	0.00	0.00	3.88	2.1	329.7		1.07	0.00	0.00	1.28		10.35	18.92	83.84	86.68	11-May-15 13:00:00		11.42	18.92	83.84	87.96
11-May-15 14:00:00	11-May-15 15:00:00		3.55	0.00	0.00	40.33	2.1	329.7		1.17	0.00	0.00	13.30		10.35	18.92	83.84	86.68	11-May-15 14:00:00		11.52	18.92	83.84	99.98
11-May-15 15:00:00	11-May-15 16:00:00		2.68	0.00	0.00	3.57	2.1	329.7		0.88	0.00	0.00	1.18		10.35	18.92	83.84	86.68	11-May-15 15:00:00		11.23	18.92	83.84	87.86
11-May-15 16:00:00	11-May-15 17:00:00		1.13	0.00	0.00	3.60	2.1	329.7		0.37	0.00	0.00	1.19		10.35	18.92	83.84	86.68	11-May-15 16:00:00		10.72	18.92	83.84	87.87
11-May-15 17:00:00	11-May-15 18:00:00		2.75	0.00	0.00	7.00	2.1	329.7		0.91	0.00	0.00	2.31		10.35	18.92	83.84	86.68	11-May-15 17:00:00		11.26	18.92	83.84	88.99
11-May-15 18:00:00	11-May-15 19:00:00		2.16	0.00	0.00	3.72	2.1	329.7		0.71	0.00	0.00	1.23		10.35	18.92	83.84	86.68	11-May-15 18:00:00		11.06	18.92	83.84	87.91
11-May-15 19:00:00	11-May-15 20:00:00		1.03	0.00	0.00	4.02	2.1	329.7		0.34	0.00	0.00	1.32		10.35	18.92	83.84	86.68	11-May-15 19:00:00		10.69	18.92	83.84	88.00
11-May-15 20:00:00	11-May-15 21:00:00		0.51	0.00	0.00	4.76	2.1	329.7		0.17	0.00	0.00	1.57		10.35	18.92	83.84	86.68	11-May-15 20:00:00		10.52	18.92	83.84	88.25
11-May-15 21:00:00	11-May-15 22:00:00		0.94	0.00	0.00	7.10	2.1	329.7		0.31	0.00	0.00	2.34		10.35	18.92	83.84	86.68	11-May-15 21:00:00		10.66	18.92	83.84	89.02
11-May-15 22:00:00	11-May-15 23:00:00		1.12	0.00	0.00	4.72	2.1	329.7		0.37	0.00	0.00	1.56		10.35	18.92	83.84	86.68	11-May-15 22:00:00		10.72	18.92	83.84	88.24
11-May-15 23:00:00	12-May-15 00:00:00		4.25	0.00	0.00	4.79	2.1	329.7		1.40	0.00	0.00	1.58		10.35	18.92	83.84	86.68	11-May-15 23:00:00		11.75	18.92	83.84	88.26
12-May-15 00:00:00	12-May-15 01:00:00		15.89	0.00	0.00	28.53	2.1	329.7		5.24	0.00	0.00	9.41		10.35	18.92	83.84	86.68	12-May-15 00:00:00		15.59	18.92	83.84	96.09
12-May-15 01:00:00	12-May-15 02:00:00		10.29	0.00	0.00	5.02	2.1	329.7		3.39	0.00	0.00	1.65		10.35	18.92	83.84	86.68	12-May-15 01:00:00		13.74	18.92	83.84	88.33
12-May-15 02:00:00	12-May-15 03:00:00		18.14	0.00	0.00	5.11	2.1	329.7		5.98	0.00	0.00	1.68		10.35	18.92	83.84	86.68	12-May-15 02:00:00		16.33	18.92	83.84	88.36
12-May-15 03:00:00	12-May-15 04:00:00		14.10	0.00	0.00	5.20	2.1	329.7		4.65	0.00	0.00	1.71		10.35	18.92	83.84	86.68	12-May-15 03:00:00		15.00	18.92	83.84	88.39
12-May-15 04:00:00	12-May-15 05:00:00		2.99	0.00	0.00	5.19	2.1	329.7		0.99	0.00	0.00	1.71		10.35	18.92	83.84	86.68	12-May-15 04:00:00		11.34	18.92	83.84	88.39
12-May-15 05:00:00	12-May-15 06:00:00		0.00	0.00	0.00	5.15	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	12-May-15 05:00:00		10.35	18.92	83.84	88.38
12-May-15 06:00:00	12-May-15 07:00:00		0.00	0.00	0.00	5.11	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	12-May-15 06:00:00		10.35	18.92	83.84	88.36
12-May-15 07:00:00	12-May-15 08:00:00		0.22	0.00	0.00	5.07	2.1	329.7		0.07	0.00	0.00	1.67		10.35	18.92	83.84	86.68	12-May-15 07:00:00		10.42	18.92	83.84	88.35
12-May-15 08:00:00	12-May-15 09:00:00		0.10	0.00	0.00	5.02	2.1	329.7		0.03	0.00	0.00	1.66		10.35	18.92	83.84	86.68	12-May-15 08:00:00		10.38	18.92	83.84	88.34
12-May-15 09:00:00	12-May-15 10:00:00		0.12	0.00	0.00	4.84	2.1	329.7		0.04	0.00	0.00	1.60		10.35	18.92	83.84	86.68	12-May-15 09:00:00		10.39	18.92	83.84	88.28
12-May-15 10:00:00	12-May-15 11:00:00		4.38	0.00	0.00	4.65	2.1	329.7		1.45	0.00	0.00	1.53		10.35	18.92	83.84	86.68	12-May-15 10:00:00		11.80	18.92	83.84	88.21
12-May-15 11:00:00	12-May-15 12:00:00		1.82	0.00	0.00	4.45	2.1	329.7		0.60	0.00	0.00	1.47		10.35	18.92	83.84	86.68	12-May-15 11:00:00		10.95	18.92	83.84

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
14-May-15 06:00:00	14-May-15 07:00:00		2.07	0.00	0.00	16.81	2.1	329.7		0.68	0.00	0.00	5.54		10.35	18.92	83.84	86.68	14-May-15 06:00:00		11.03	18.92	83.84	92.22
14-May-15 07:00:00	14-May-15 08:00:00		1.99	0.00	0.00	5.92	2.1	329.7		0.66	0.00	0.00	1.95		10.35	18.92	83.84	86.68	14-May-15 07:00:00		11.01	18.92	83.84	88.63
14-May-15 08:00:00	14-May-15 09:00:00		3.47	0.00	0.00	5.84	2.1	329.7		1.14	0.00	0.00	1.92		10.35	18.92	83.84	86.68	14-May-15 08:00:00		11.49	18.92	83.84	88.60
14-May-15 09:00:00	14-May-15 10:00:00		2.81	0.00	0.00	5.75	2.1	329.7		0.93	0.00	0.00	1.90		10.35	18.92	83.84	86.68	14-May-15 09:00:00		11.28	18.92	83.84	88.58
14-May-15 10:00:00	14-May-15 11:00:00		1.18	0.00	0.00	5.73	2.1	329.7		0.39	0.00	0.00	1.89		10.35	18.92	83.84	86.68	14-May-15 10:00:00		10.74	18.92	83.84	88.57
14-May-15 11:00:00	14-May-15 12:00:00		0.00	0.00	0.00	5.75	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	14-May-15 11:00:00		10.35	18.92	83.84	88.58
14-May-15 12:00:00	14-May-15 13:00:00		0.38	0.00	0.00	5.52	2.1	329.7		0.12	0.00	0.00	1.82		10.35	18.92	83.84	86.68	14-May-15 12:00:00		10.47	18.92	83.84	88.50
14-May-15 13:00:00	14-May-15 14:00:00		0.35	0.00	0.00	5.30	2.1	329.7		0.11	0.00	0.00	1.75		10.35	18.92	83.84	86.68	14-May-15 13:00:00		10.46	18.92	83.84	88.43
14-May-15 14:00:00	14-May-15 15:00:00		1.00	0.00	0.00	5.03	2.1	329.7		0.33	0.00	0.00	1.66		10.35	18.92	83.84	86.68	14-May-15 14:00:00		10.68	18.92	83.84	88.34
14-May-15 15:00:00	14-May-15 16:00:00		1.44	0.00	0.00	4.76	2.1	329.7		0.48	0.00	0.00	1.57		10.35	18.92	83.84	86.68	14-May-15 15:00:00		10.83	18.92	83.84	88.25
14-May-15 16:00:00	14-May-15 17:00:00		3.30	0.00	0.00	4.68	2.1	329.7		1.09	0.00	0.00	1.54		10.35	18.92	83.84	86.68	14-May-15 16:00:00		11.44	18.92	83.84	88.22
14-May-15 17:00:00	14-May-15 18:00:00		9.23	0.00	0.00	4.61	2.1	329.7		3.04	0.00	0.00	1.52		10.35	18.92	83.84	86.68	14-May-15 17:00:00		13.39	18.92	83.84	88.20
14-May-15 18:00:00	14-May-15 19:00:00		9.29	0.00	0.00	4.54	2.1	329.7		3.06	0.00	0.00	1.50		10.35	18.92	83.84	86.68	14-May-15 18:00:00		13.41	18.92	83.84	88.18
14-May-15 19:00:00	14-May-15 20:00:00		8.02	0.00	0.00	4.67	2.1	329.7		2.65	0.00	0.00	1.54		10.35	18.92	83.84	86.68	14-May-15 19:00:00		13.00	18.92	83.84	88.22
14-May-15 20:00:00	14-May-15 21:00:00		3.22	0.00	0.00	4.89	2.1	329.7		1.06	0.00	0.00	1.61		10.35	18.92	83.84	86.68	14-May-15 20:00:00		11.41	18.92	83.84	88.29
14-May-15 21:00:00	14-May-15 22:00:00		0.69	0.00	0.00	5.11	2.1	329.7		0.23	0.00	0.00	1.68		10.35	18.92	83.84	86.68	14-May-15 21:00:00		10.58	18.92	83.84	88.36
14-May-15 22:00:00	14-May-15 23:00:00		0.10	0.00	0.00	5.56	2.1	329.7		0.03	0.00	0.00	1.83		10.35	18.92	83.84	86.68	14-May-15 22:00:00		10.38	18.92	83.84	88.51
14-May-15 23:00:00	15-May-15 00:00:00		0.06	0.00	0.00	5.23	2.1	329.7		0.02	0.00	0.00	1.72		10.35	18.92	83.84	86.68	14-May-15 23:00:00		10.37	18.92	83.84	88.40
15-May-15 00:00:00	15-May-15 01:00:00		0.03	0.00	0.00	5.28	2.1	329.7		0.01	0.00	0.00	1.74		10.35	18.92	83.84	86.68	15-May-15 00:00:00		10.36	18.92	83.84	88.42
15-May-15 01:00:00	15-May-15 02:00:00		6.37	0.00	0.00	5.33	2.1	329.7		2.10	0.00	0.00	1.76		10.35	18.92	83.84	86.68	15-May-15 01:00:00		12.45	18.92	83.84	88.44
15-May-15 02:00:00	15-May-15 03:00:00		0.85	0.00	0.00	5.39	2.1	329.7		0.28	0.00	0.00	1.78		10.35	18.92	83.84	86.68	15-May-15 02:00:00		10.63	18.92	83.84	88.46
15-May-15 03:00:00	15-May-15 04:00:00		1.01	0.00	0.00	5.50	2.1	329.7		0.33	0.00	0.00	1.81		10.35	18.92	83.84	86.68	15-May-15 03:00:00		10.68	18.92	83.84	88.49
15-May-15 04:00:00	15-May-15 05:00:00		0.00	0.00	0.00	7.20	2.1	329.7		0.00	0.00	0.00	2.37		10.35	18.92	83.84	86.68	15-May-15 04:00:00		10.35	18.92	83.84	89.05
15-May-15 05:00:00	15-May-15 06:00:00		0.00	0.00	0.00	5.76	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	15-May-15 05:00:00		10.35	18.92	83.84	88.58
15-May-15 06:00:00	15-May-15 07:00:00		0.00	0.00	0.00	5.73	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	15-May-15 06:00:00		10.35	18.92	83.84	88.57
15-May-15 07:00:00	15-May-15 08:00:00		0.00	0.00	0.00	5.82	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	15-May-15 07:00:00		10.35	18.92	83.84	88.60
15-May-15 08:00:00	15-May-15 09:00:00		0.00	1.39	0.00	6.32	2.1	329.7		0.00	0.46	0.00	2.08		10.35	18.92	83.84	86.68	15-May-15 08:00:00		10.35	19.38	83.84	88.76
15-May-15 09:00:00	15-May-15 10:00:00		0.00	0.00	0.00	7.75	2.1	329.7		0.00	0.00	0.00	2.56		10.35	18.92	83.84	86.68	15-May-15 09:00:00		10.35	18.92	83.84	89.24
15-May-15 10:00:00	15-May-15 11:00:00		0.00	0.00	0.00	5.02	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	15-May-15 10:00:00		10.35	18.92	83.84	88.33
15-May-15 11:00:00	15-May-15 12:00:00		0.85	0.00	0.00	4.75	2.1	329.7		0.28	0.00	0.00	1.57		10.35	18.92	83.84	86.68	15-May-15 11:00:00		10.63	18.92	83.84	88.25
15-May-15 12:00:00	15-May-15 13:00:00		0.98	0.00	0.00	4.48	2.1	329.7		0.32	0.00	0.00	1.48		10.35	18.92	83.84	86.68	15-May-15 12:00:00		10.67	18.92	83.84	88.16
15-May-15 13:00:00	15-May-15 14:00:00		6.40	0.00	0.00	4.37	2.1	329.7		2.11	0.00	0.00	1.44		10.35	18.92	83.84	86.68	15-May-15 13:00:00		12.46	18.92	83.84	88.12
15-May-15 14:00:00	15-May-15 15:00:00		4.41	0.00	0.00	4.31	2.1	329.7		1.45	0.00	0.00	1.42		10.35	18.92	83.84	86.68	15-May-15 14:00:00		11.80	18.92	83.84	88.10
15-May-15 15:00:00	15-May-15 16:00:00		4.34	0.00	0.00	4.24	2.1	329.7		1.43	0.00	0.00	1.40		10.35	18.92	83.84	86.68	15-May-15 15:00:00		11.78	18.92	83.84	88.08
15-May-15 16:00:00	15-May-15 17:00:00		1.88	0.00	0.00	4.17	2.1	329.7		0.62	0.00	0.00	1.37		10.35	18.92	83.84	86.68	15-May-15 16:00:00		10.97	18.92	83.84	88.05
15-May-15 17:00:00	15-May-15 18:00:00		0.70	0.00	0.00	4.09	2.1	329.7		0.23	0.00	0.00	1.35		10.35	18.92	83.84	86.68	15-May-15 17:00:00		10.58	18.92	83.84	88.03
15-May-15 18:00:00	15-May-15 19:00:00		0.50	0.00	0.00	4.09	2.1	329.7		0.17	0.00	0.00	1.35		10.35	18.92	83.84	86.68	15-May-15 18:00:00		10.52	18.92	83.84	88.03
15-May-15 19:00:00	15-May-15 20:00:00		0.00	0.00	0.00	4.09	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	15-May-15 19:00:00		10.35	18.92	83.84	88.03
15-May-15 20:00:00	15-May-15 21:00:00		0.00	0.00	0.00	4.09	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	15-May-15 20:00:00		10.35	18.92	83.84	88.03
15-May-15 21:00:00	15-May-15 22:00:00		0.00	0.00	0.00	4.25	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	15-May-15 21:00:00		10.35	18.92	83.84	88.08
15-May-15 22:00:00	15-May-15 23:00:00		0.00	0.00	0.00	4.51	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	15-May-15 22:00:00		10.35	18.92	83.84	88.17
15-May-15 23:00:00	16-May-15 00:00:00		1.41	0.00	0.00	4.77	2.1	329.7		0.46	0.00	0.00	1.57		10.35	18.92	83.84	86.68	15-May-15 23:00:00		10.81	18.92	83.84	88.25
16-May-15 00:00:00	16-May-15 01:00:00		12.83	0.00	0.00	5.02	2.1	329.7		4.23	0.00	0.00	1.66		10.35	18.92	83.84	86.68	16-May-15 00:00:00		14.58	18.92	83.84	88.34
16-May-15 01:00:00	16-May-15 02:00:00		4.59	0.00	0.00	5.04	2.1	329.7		1.51	0.00	0.00	1.66		10.35	18.92	83.84	86.68	16-May-15 01:00:00		11.86	18.92	83.84	88.34
16-May-15 02:00:00	16-May-15 03:00:00		3.96	0.00	0.00	21.56	2.1	329.7		1.30	0.00	0.00	7.11		10.35	18.92	83.84	86.68	16-May-15 02:00:00		11.65	18.92	83.84	93.79
16-May-15 03:00:00	16-May-15 04:00:00		3.85	0.00	0.00	5.12	2.1	329.7		1.27	0.00	0.00	1.69		10.35	18.92	83.84	86.68	16-May-15 03:00:00		11.62	18.92	83.84	88.37
16-May-15 04:00:00	16-May-15 05:00:00		1.62	0.00	0.00	5.11	2.1	329.7		0.54	0.00	0.00	1.69		10.35	18.92	83.84	86.68	16-May-15 04:00:00		10.89	18.92	83.84	88.37
16-May-15 05:00:00	16-May-15 06:00:00		1.59	0.00	0.00	5.11	2.1	329.7		0.53	0.00	0.00	1.68		10.35	18.92	83.84	86.68	16-May-15 05:00:00		10.88	18.92	83.84	88.36
16-May-15 06:00:00	16-May-15 07:00:00		2.03	0.00	0.00	5.17	2.1	329.7		0.67	0.00	0.00	1.71		10.35	18.92	83.84	86.68	16-May-15 06:00:00		11.02	18.92	83.84	88.39
16-May-15 07:00:00	16-May-15 08:00:00		2.37	0.00	0.00	5.24	2.1	329.7		0.78	0.00	0.00	1.73		10.35	18.92	83.84	86.68	16-May-15 07:00:00		11.13	18.92	83.84	88.41
16-May-15 08:00:00	16-May-15 09:00:00		1.66	0.00	0.00	5.12	2.1	329.7		0.55	0.00	0.00	1.69		10.35	18.92	83.84	86.68	16-May-15 08:00:00		10.90	18.92	83.84	88.37
16-May-15 09:00:00	16-May-15 10:00:00		1.36	0.00	0.00	5.01	2.1	329.7		0.45	0.00	0.00	1.65		10.35	18.92	83.84	86.68	16-May-15 09:00:00		10.80	18.92	83.84	88.33
16-May-15 10:00:00	16-May-15 11:00:00		1.29	0.00	0.00	4.86	2.1	329.7		0.43	0.00	0.00	1.60		10.35	18.92	83.84	86.68	16-May-15 10:00:00		10.78	18.92	83.84	88.28
16-May-15 11:00:00	16-May-15 12:00:00		6.65	0.00	0.00	4.59	2.1	329.7		2.19	0.00	0.00	1.51		10.35	18.92	83.84	86.68	16-May-15 11:00:00		12.54	18.92	83.84	88.19
16-May-15 12:00:00	16-May-15 13:00:00		2.89	0.00	0.00	5.68	2.1	329.7		0.95	0.00	0.00	1.87		10.35	18.92	83.84	86.68	16-May-15 12:00:00		11.30	18.92	83.84	88.55
16-May-15 13:00:00	16-May-15 14:00:00		9.91	0.00	0.00	4.24	2.1	329.7		3.27	0.00	0.00	1.40		10.35	18.92	83.84	86.68	16-May-15 13:00:00		13.62	18.92	83.84	88.08
16-May-15 14:00:00	16-May-15 15:00:00		3.08	0.00	0.00	4.11	2.1	329.7		1.02	0.00	0.00	1.35		10.35	18.92	83.84	86.68	16-May-15 14:00:00		11.37	18.92	83.84	88.03
16-May-15 15:00:00	16-May-15 16:00:00		2.72	0.00	0.00	6.09	2.1	329.7		0.90	0.00	0.00	2.01		10.35	18.92	83.84	86.68	16-May-15 15:00:00		11.25	18.92	83.84	88.69
16-May-15 16:00:00	16-May-15 17:00:00		0.00	0.00	0.00	4.06	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	16-May-15 16:00:00		10.35	18.92	83.84	88.02
16-May-15 17:00:00	16-May-15 18:00:00		0.00	0.00	0.00	4.10	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	16-May-15 17:00:00		10.35	18.92	83.84	88.03
16-May-15 18:00:00	16-May-15 19:00:00		0.00	0.00	0.00	6.12	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	16-May-15 18:00:00		10.35	18.92	83.84	88.70
16-May-15 19:00:00	16-May-15 20:00:00		0.03	0.00	0.00	10.35	2.1	329.7		0.01	0.00	0.00	3.41		10.35	18.92	83.84	86.68	16-May-15 19:00:00		10.36	18.92	83.84	90.09
16-May-15 20:00:00	16-May-15 21:00:00		0.23	0.00	0.00	4.42	2.1	329.7		0.08	0.00	0.00	1.46		10.35	18.92	83.84	86.68	16-May-15 20:00:00		10.43	18.92	83.84	88.14
16-May-15 21:00:00	16-May-15 22:00:00		0.46	0.00	0.00	4.61	2.1	329.7		0.15	0.00	0.00	1.52		10.35	18.92	83.84	86.68	16-May-15 21:00:00		10.50	18.92	83.84	88.20
16-May-15 22:00:00	16-May-15 23:00:00		0.70	0.00	0.00	13.13	2.1	329.7		0.23	0.00	0.00	4.33		10.35	18.92	83.84	86.68	16-May-15 22:00:00		10.58	18.92	83.84	91.01
16-May-15 23:00:00	17-May-15 00:00:00		2.89	0.00	0.00	4.85	2.1	329.7		0.95	0.00	0.00	1.60		10.35	18.92	83.84	86.68	16-May-15 23:00:00		11.30	18.92	83.84	88.28
17-May-15 00:00:00	17-May-15 01:00:00		1.77	0.00	0.00	4.95	2.1	329.7		0.59	0.00	0.00	1.63		10.35	18.92	83.84	86.68	17-May-15 00:00:00		10.94	18.92	83.84	88.31
17-May-15 01:00:00	17-May-15 02:00:00		4.05	0.00	0.00	5.04	2.1	329.7		1.33	0.00	0.00	1.66		10.35	18.92	83.84	86.68	17-May-15 01:00:00		11.68	18.92	83.84	88.34
17-May-15 02:00:00	17-May-15 03:00:00		3.47	0.00	0.00	5.13	2.1	329.7		1.15	0.00	0.00	1.69		10.35	18.92	83.84	86.68	17-May-15 02:00:00		11.50	18.92	83.84	88.37
17-May-15 03:00:00	17-May-15 04:00:00		9.09	0.00	0.00	5.20	2.1	329.7		3.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	17-May-15 03:00:00		13.35	18.92	83.84	88.40
17-May-15 04:00:00	17-May-15 05:00:00		3.07	0.00	0.00	6.60	2.1	329.7		1.01	0.00	0.00	2.18		10.35	18.92	83.84	86.68	17-May-15 04:00:00		11.36	18.92	83.84	88.86
17-May-15 05:00:00	17-May-15 06:00:00		5.07	0.00	0.00	5.30	2.1	329.7		1.67	0.00	0.00	1.75		10.35	18.92	83.84	86.68	17-May-15 05:00:00		12.02	18.92	83.84	88.43
17-May-15 06:00:00	17-May-15 07:00:00		12.42	0.00	0.00	5.29	2.1	329.7		4.09	0.00	0.00	1.74		10.35	18.92	83.84	86.68	17-May-15 06:00:00		14.44	18.92	83.84	88.42
17-May-15 07:00:00	17-May-15 08:00:00		7.30	0.00	0.00	5.28	2.1	329.7		2.41	0.00	0.00	1.74		10.35	18.92	83.84	86.68	17-May-15 07:00:00		12.76	18.92	83.84	88.42
17-May-15 08:00:00	17-May-15 09:00:00		6.77	0.00	0.00	5.27	2.1	329.7		2.23	0.00	0.00	1.74		10.35	18.92	83.84	86.68	17-May-15 08:00:00		12.58	18.92	83.84	88.42
17-May-15 09:00:00	17-May-15 10:00:00		6.24	0.00	0.00	26.31	2.1	329.7		2.06	0.00	0.00	8.68		10.35	18.92	83.84	86.68	17-May-15 09:00:00		12.41	18.92	83.84	95.36
17-May-15 10:00:00	17-May-15 11:00:00		4.33	0.00	0.00	5.06	2.1	329.7		1.43	0.00	0.00	1.67		10.35	18.92	83.84	86.68	17-May-15 10:00:00		11.78	18.92	83.84	88.35
17-May-15 11:00:00	17-May-15 12:00:00		1.30	0.00	0.00	4.80	2.1	329.7		0.43	0.00	0.00	1.58		10.35	18.92	83.84	86.68	17-May-15 11:00:00		10.78	18.92	83.84	88.26
17-May-15 12:00:00	17-May-15 13:00:00		2.68	0.00	0.00	4.54	2.1	329.7		0.89	0.00	0.00	1.50		10.35	18.92	83.84	86.68	17-May-15 12:00:00		11.24	18.92	83.84	88.18
17-May-15 13:00:00	17-May-15 14:00:00		1.06	0.00	0.00	4.28	2.1	329.7		0.35	0.00	0.00	1.41		10.35	18.92	83.84	86.68	17-May-15 13:00:00		10.70	18.92	83.84	88.09
17-May-15 14:00:00	17-May-15 15:00:00		2.13	0.00	0.00	4.16	2.1	329.7		0.70	0.00	0.00	1.37		10.35	18.92	83.84	86.68	17-May-15 14:00:00		11.05	18.92	83.84	88.05
17-May-15 15:00:00	17-May-15 16:00:00		0.00	0.00	0.00	4.12	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	17-May-15 15:00:00		10.35	18.92	83.84	88.04
17-May-15 16:00:00	17-May-15 17:00:00		0.00	0.00	0.00	4.07	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	17-May-15 16:00:00		10.35	18.92	83.84	88.02
17-May-15 17:00:00	17-May-15 18:00:00		0.00	0.00	0.00	4.03	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	17-May-15 17:00:00		10.35	18.92	83.84	88.01
17-May-15 18:00:00	17-May-15 19:00:00		0.00	0.00	0.00	4.05	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	17-May-15 18:00:00		10.35	18.92	83.84	88.01
17-May-15 19:00:00	17-May-15 20:00:00		0.00	0.00	0.00	4.09	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	17-May-15 19:00:00		10.35	18.92	83.84	88.03
17-May-15 20:00:00	17-May-15 21:00:00		0.00	0.00	0.00	4.13	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	17-May-15 20:00:00		10.35	18.92	83.84	88.04
17-May-15 21:00:00	17-May-15 22:00:00		0.00	0.00	0.00	4.16	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	17-May-15 21:00:00		10.35	18.92	83.84	88.05
17-May-15 22:00:00	17-May-15 23:00:00		0.00	0.00	0.00	4.24	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	17-May-15 22:00:00		10.35	18.92	83.84	88.08
17-May-15 23:00:00	18-May-15 00:00:00		0.00	0.00	0.00	4.43	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	17-May-15 23:00:00		10.35	18.92	83.84	88.14
18-May-15 00:00:00	18-May-15 01:00:00		0.82	0.00	0.00	4.62	2.1	329.7		0.27	0.00	0.00	1.52		10.35	18.92	83.84	86.68	18-May-15 00:00:00		10.62	18.92	83.84	88.20
18-May-15 01:00:00	18-May-15 02:00:00		1.08	0.00	0.00	4.81	2.1	329.7		0.36	0.00	0.00	1.58		10.35	18.92	83.84	86.68	18-May-15 01:00:00		10.71	18.92	83.84	88.26
18-May-15 02:00:00	18-May-15 03:00:00		0.65	0.00	0.00	4.92	2.1	329.7		0.21	0.00	0.00	1.62		10.35	18.92	83.84	86.68	18-May-15 02:00:00		10.56	18.92	83.84	88.30
18-May-15 03:00:00	18-May-15 04:00:00		1.29	0.00	0.00	5.01	2.1	329.7		0.43	0.00	0.00	1.65		10.35	18.92	83.84	86.68	18-May-15 03:00:00		10.78	18.92	83.84	88.33
18-May-15 04:00:00	18-May-15 05:00:00		3.06	0.00	0.00	5.09	2.1	329.7		1.01	0.00	0.00	1.68		10.35	18.92	83.84	86.68	18-May-15 04:00:00		11.36	18.92	83.84	88.36
18-May-15 05:00:00	18-May-15 06:00:00		17.54	0.00	0.00	5.17	2.1	329.7		5.78	0.00	0.00	1.70		10.35	18.92	83.84	86.68	18-May-15 05:00:00		16.13	18.92	83.84	88.38
18-May-15 06:00:00	18-May-15 07:00:00		16.53	0.00	0.00	5.11	2.1	329.7		5.45	0.00	0.00	1.69		10.35	18.92	83.84	86.68	18-May-15 06:00:00		15.80	18.92	83

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
20-May-15 01:00:00	20-May-15 02:00:00		2.01	0.00	0.00	5.09	2.1	329.7		0.66	0.00	0.00	1.68		10.35	18.92	83.84	86.68	20-May-15 01:00:00		11.01	18.92	83.84	88.36
20-May-15 02:00:00	20-May-15 03:00:00		8.01	0.00	0.00	5.11	2.1	329.7		2.64	0.00	0.00	1.69		10.35	18.92	83.84	86.68	20-May-15 02:00:00		12.99	18.92	83.84	88.37
20-May-15 03:00:00	20-May-15 04:00:00		5.55	0.00	0.00	5.14	2.1	329.7		1.83	0.00	0.00	1.69		10.35	18.92	83.84	86.68	20-May-15 03:00:00		12.18	18.92	83.84	88.37
20-May-15 04:00:00	20-May-15 05:00:00		0.00	0.00	0.00	5.18	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	20-May-15 04:00:00		10.35	18.92	83.84	88.39
20-May-15 05:00:00	20-May-15 06:00:00		0.00	0.00	0.00	5.23	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	20-May-15 05:00:00		10.35	18.92	83.84	88.40
20-May-15 06:00:00	20-May-15 07:00:00		0.00	0.00	0.00	5.25	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	20-May-15 06:00:00		10.35	18.92	83.84	88.41
20-May-15 07:00:00	20-May-15 08:00:00		0.00	0.00	0.00	5.28	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	20-May-15 07:00:00		10.35	18.92	83.84	88.42
20-May-15 08:00:00	20-May-15 09:00:00		0.00	0.00	0.00	5.28	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	20-May-15 08:00:00		10.35	18.92	83.84	88.42
20-May-15 09:00:00	20-May-15 10:00:00		0.00	0.00	0.00	4.93	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	20-May-15 09:00:00		10.35	18.92	83.84	88.31
20-May-15 10:00:00	20-May-15 11:00:00		0.00	0.00	0.00	7.03	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	20-May-15 10:00:00		10.35	18.92	83.84	89.00
20-May-15 11:00:00	20-May-15 12:00:00		3.92	0.00	0.00	4.35	2.1	329.7		1.29	0.00	0.00	1.43		10.35	18.92	83.84	86.68	20-May-15 11:00:00		11.64	18.92	83.84	88.11
20-May-15 12:00:00	20-May-15 13:00:00		0.00	0.00	0.00	4.19	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	20-May-15 12:00:00		10.35	18.92	83.84	88.06
20-May-15 13:00:00	20-May-15 14:00:00		0.00	0.00	0.00	97.72	2.1	329.7		0.00	0.00	0.00	32.22		10.35	18.92	83.84	86.68	20-May-15 13:00:00		10.35	18.92	83.84	118.90
20-May-15 14:00:00	20-May-15 15:00:00		0.00	0.00	0.00	3.97	2.1	329.7		0.00	0.00	0.00	1.31		10.35	18.92	83.84	86.68	20-May-15 14:00:00		10.35	18.92	83.84	87.99
20-May-15 15:00:00	20-May-15 16:00:00		0.70	0.00	0.00	3.82	2.1	329.7		0.23	0.00	0.00	1.26		10.35	18.92	83.84	86.68	20-May-15 15:00:00		10.58	18.92	83.84	87.94
20-May-15 16:00:00	20-May-15 17:00:00		0.00	0.00	0.00	5.16	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	20-May-15 16:00:00		10.35	18.92	83.84	88.38
20-May-15 17:00:00	20-May-15 18:00:00		0.00	0.00	0.00	3.74	2.1	329.7		0.00	0.00	0.00	1.23		10.35	18.92	83.84	86.68	20-May-15 17:00:00		10.35	18.92	83.84	87.91
20-May-15 18:00:00	20-May-15 19:00:00		0.00	0.00	0.00	3.79	2.1	329.7		0.00	0.00	0.00	1.25		10.35	18.92	83.84	86.68	20-May-15 18:00:00		10.35	18.92	83.84	87.93
20-May-15 19:00:00	20-May-15 20:00:00		0.00	0.00	0.00	3.85	2.1	329.7		0.00	0.00	0.00	1.27		10.35	18.92	83.84	86.68	20-May-15 19:00:00		10.35	18.92	83.84	87.95
20-May-15 20:00:00	20-May-15 21:00:00		0.00	0.00	0.00	3.96	2.1	329.7		0.00	0.00	0.00	1.31		10.35	18.92	83.84	86.68	20-May-15 20:00:00		10.35	18.92	83.84	87.99
20-May-15 21:00:00	20-May-15 22:00:00		0.00	0.00	0.00	4.37	2.1	329.7		0.00	0.00	0.00	1.44		10.35	18.92	83.84	86.68	20-May-15 21:00:00		10.35	18.92	83.84	88.12
20-May-15 22:00:00	20-May-15 23:00:00		0.06	0.00	0.00	4.87	2.1	329.7		0.02	0.00	0.00	1.61		10.35	18.92	83.84	86.68	20-May-15 22:00:00		10.37	18.92	83.84	88.29
20-May-15 23:00:00	21-May-15 00:00:00		3.51	0.00	0.00	4.84	2.1	329.7		1.16	0.00	0.00	1.59		10.35	18.92	83.84	86.68	20-May-15 23:00:00		11.51	18.92	83.84	88.27
21-May-15 00:00:00	21-May-15 01:00:00		3.92	0.00	0.00	4.94	2.1	329.7		1.29	0.00	0.00	1.63		10.35	18.92	83.84	86.68	21-May-15 00:00:00		11.64	18.92	83.84	88.31
21-May-15 01:00:00	21-May-15 02:00:00		9.90	0.00	0.00	5.05	2.1	329.7		3.26	0.00	0.00	1.66		10.35	18.92	83.84	86.68	21-May-15 01:00:00		13.61	18.92	83.84	88.34
21-May-15 02:00:00	21-May-15 03:00:00		6.94	0.00	0.00	5.12	2.1	329.7		2.29	0.00	0.00	1.69		10.35	18.92	83.84	86.68	21-May-15 02:00:00		12.64	18.92	83.84	88.37
21-May-15 03:00:00	21-May-15 04:00:00		4.61	0.00	0.00	6.57	2.1	329.7		1.52	0.00	0.00	2.17		10.35	18.92	83.84	86.68	21-May-15 03:00:00		11.87	18.92	83.84	88.85
21-May-15 04:00:00	21-May-15 05:00:00		6.45	0.00	0.00	5.21	2.1	329.7		2.13	0.00	0.00	1.72		10.35	18.92	83.84	86.68	21-May-15 04:00:00		12.48	18.92	83.84	88.40
21-May-15 05:00:00	21-May-15 06:00:00		6.49	0.00	0.00	5.23	2.1	329.7		2.14	0.00	0.00	1.72		10.35	18.92	83.84	86.68	21-May-15 05:00:00		12.49	18.92	83.84	88.40
21-May-15 06:00:00	21-May-15 07:00:00		5.33	0.00	0.00	5.25	2.1	329.7		1.76	0.00	0.00	1.73		10.35	18.92	83.84	86.68	21-May-15 06:00:00		12.11	18.92	83.84	88.41
21-May-15 07:00:00	21-May-15 08:00:00		4.07	0.00	0.00	5.28	2.1	329.7		1.34	0.00	0.00	1.74		10.35	18.92	83.84	86.68	21-May-15 07:00:00		11.69	18.92	83.84	88.42
21-May-15 08:00:00	21-May-15 09:00:00		5.78	0.00	0.00	5.27	2.1	329.7		1.91	0.00	0.00	1.74		10.35	18.92	83.84	86.68	21-May-15 08:00:00		12.26	18.92	83.84	88.42
21-May-15 09:00:00	21-May-15 10:00:00		0.65	0.00	0.00	5.25	2.1	329.7		0.21	0.00	0.00	1.73		10.35	18.92	83.84	86.68	21-May-15 09:00:00		10.56	18.92	83.84	88.41
21-May-15 10:00:00	21-May-15 11:00:00		0.59	0.00	0.00	51.17	2.1	329.7		0.20	0.00	0.00	16.87		10.35	18.92	83.84	86.68	21-May-15 10:00:00		10.55	18.92	83.84	103.55
21-May-15 11:00:00	21-May-15 12:00:00		0.46	0.00	0.00	5.17	2.1	329.7		0.15	0.00	0.00	1.70		10.35	18.92	83.84	86.68	21-May-15 11:00:00		10.50	18.92	83.84	88.38
21-May-15 12:00:00	21-May-15 13:00:00		5.25	0.00	0.00	5.10	2.1	329.7		1.73	0.00	0.00	1.68		10.35	18.92	83.84	86.68	21-May-15 12:00:00		12.08	18.92	83.84	88.36
21-May-15 13:00:00	21-May-15 14:00:00		0.16	0.00	0.00	5.04	2.1	329.7		0.05	0.00	0.00	1.66		10.35	18.92	83.84	86.68	21-May-15 13:00:00		10.40	18.92	83.84	88.34
21-May-15 14:00:00	21-May-15 15:00:00		0.00	0.00	0.00	4.95	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	21-May-15 14:00:00		10.35	18.92	83.84	88.31
21-May-15 15:00:00	21-May-15 16:00:00		0.00	0.00	0.00	4.77	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	21-May-15 15:00:00		10.35	18.92	83.84	88.25
21-May-15 16:00:00	21-May-15 17:00:00		0.00	0.00	0.00	4.58	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	21-May-15 16:00:00		10.35	18.92	83.84	88.19
21-May-15 17:00:00	21-May-15 18:00:00		0.52	0.00	0.00	4.39	2.1	329.7		0.17	0.00	0.00	1.45		10.35	18.92	83.84	86.68	21-May-15 17:00:00		10.52	18.92	83.84	88.13
21-May-15 18:00:00	21-May-15 19:00:00		0.65	0.00	0.00	4.37	2.1	329.7		0.22	0.00	0.00	1.44		10.35	18.92	83.84	86.68	21-May-15 18:00:00		10.57	18.92	83.84	88.12
21-May-15 19:00:00	21-May-15 20:00:00		0.43	0.00	0.00	4.42	2.1	329.7		0.14	0.00	0.00	1.46		10.35	18.92	83.84	86.68	21-May-15 19:00:00		10.49	18.92	83.84	88.14
21-May-15 20:00:00	21-May-15 21:00:00		0.20	0.00	0.00	4.42	2.1	329.7		0.07	0.00	0.00	1.46		10.35	18.92	83.84	86.68	21-May-15 20:00:00		10.42	18.92	83.84	88.14
21-May-15 21:00:00	21-May-15 22:00:00		0.12	0.00	0.00	4.42	2.1	329.7		0.04	0.00	0.00	1.46		10.35	18.92	83.84	86.68	21-May-15 21:00:00		10.39	18.92	83.84	88.14
21-May-15 22:00:00	21-May-15 23:00:00		0.00	0.00	0.00	20.22	2.1	329.7		0.00	0.00	0.00	6.67		10.35	18.92	83.84	86.68	21-May-15 22:00:00		10.35	18.92	83.84	93.35
21-May-15 23:00:00	22-May-15 00:00:00		0.33	0.00	0.00	4.68	2.1	329.7		0.11	0.00	0.00	1.54		10.35	18.92	83.84	86.68	21-May-15 23:00:00		10.46	18.92	83.84	88.22
22-May-15 00:00:00	22-May-15 01:00:00		1.01	0.00	0.00	4.94	2.1	329.7		0.33	0.00	0.00	1.63		10.35	18.92	83.84	86.68	22-May-15 00:00:00		10.68	18.92	83.84	88.31
22-May-15 01:00:00	22-May-15 02:00:00		1.96	0.00	0.00	5.19	2.1	329.7		0.65	0.00	0.00	1.71		10.35	18.92	83.84	86.68	22-May-15 01:00:00		11.00	18.92	83.84	88.39
22-May-15 02:00:00	22-May-15 03:00:00		2.35	0.00	0.00	5.45	2.1	329.7		0.78	0.00	0.00	1.80		10.35	18.92	83.84	86.68	22-May-15 02:00:00		11.13	18.92	83.84	88.48
22-May-15 03:00:00	22-May-15 04:00:00		3.95	0.00	0.00	5.64	2.1	329.7		1.30	0.00	0.00	1.86		10.35	18.92	83.84	86.68	22-May-15 03:00:00		11.65	18.92	83.84	88.54
22-May-15 04:00:00	22-May-15 05:00:00		9.58	0.00	0.00	5.77	2.1	329.7		3.16	0.00	0.00	1.90		10.35	18.92	83.84	86.68	22-May-15 04:00:00		13.51	18.92	83.84	88.58
22-May-15 05:00:00	22-May-15 06:00:00		7.79	0.00	0.00	6.34	2.1	329.7		2.57	0.00	0.00	2.09		10.35	18.92	83.84	86.68	22-May-15 05:00:00		12.92	18.92	83.84	88.77
22-May-15 06:00:00	22-May-15 07:00:00		5.42	0.00	0.00	6.20	2.1	329.7		1.79	0.00	0.00	2.04		10.35	18.92	83.84	86.68	22-May-15 06:00:00		12.14	18.92	83.84	88.72
22-May-15 07:00:00	22-May-15 08:00:00		4.41	0.00	0.00	6.19	2.1	329.7		1.45	0.00	0.00	2.04		10.35	18.92	83.84	86.68	22-May-15 07:00:00		11.80	18.92	83.84	88.72
22-May-15 08:00:00	22-May-15 09:00:00		2.15	0.00	0.00	6.19	2.1	329.7		0.71	0.00	0.00	2.04		10.35	18.92	83.84	86.68	22-May-15 08:00:00		11.06	18.92	83.84	88.72
22-May-15 09:00:00	22-May-15 10:00:00		1.61	0.00	0.00	5.95	2.1	329.7		0.53	0.00	0.00	1.96		10.35	18.92	83.84	86.68	22-May-15 09:00:00		10.88	18.92	83.84	88.64
22-May-15 10:00:00	22-May-15 11:00:00		0.26	0.00	0.00	5.73	2.1	329.7		0.09	0.00	0.00	1.89		10.35	18.92	83.84	86.68	22-May-15 10:00:00		10.44	18.92	83.84	88.57
22-May-15 11:00:00	22-May-15 12:00:00		0.76	0.00	0.00	5.52	2.1	329.7		0.25	0.00	0.00	1.82		10.35	18.92	83.84	86.68	22-May-15 11:00:00		10.60	18.92	83.84	88.50
22-May-15 12:00:00	22-May-15 13:00:00		1.26	0.00	0.00	5.31	2.1	329.7		0.41	0.00	0.00	1.75		10.35	18.92	83.84	86.68	22-May-15 12:00:00		10.76	18.92	83.84	88.43
22-May-15 13:00:00	22-May-15 14:00:00		1.74	0.00	0.00	5.03	2.1	329.7		0.58	0.00	0.00	1.66		10.35	18.92	83.84	86.68	22-May-15 13:00:00		10.93	18.92	83.84	88.34
22-May-15 14:00:00	22-May-15 15:00:00		0.55	0.00	0.00	115.02	2.1	329.7		0.18	0.00	0.00	37.92		10.35	18.92	83.84	86.68	22-May-15 14:00:00		10.53	18.92	83.84	124.60
22-May-15 15:00:00	22-May-15 16:00:00		3.98	0.00	0.00	5.02	2.1	329.7		1.31	0.00	0.00	1.65		10.35	18.92	83.84	86.68	22-May-15 15:00:00		11.66	18.92	83.84	88.33
22-May-15 16:00:00	22-May-15 17:00:00		6.06	0.00	0.00	4.91	2.1	329.7		2.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	22-May-15 16:00:00		12.35	18.92	83.84	88.30
22-May-15 17:00:00	22-May-15 18:00:00		6.40	0.00	0.00	4.80	2.1	329.7		2.11	0.00	0.00	1.58		10.35	18.92	83.84	86.68	22-May-15 17:00:00		12.46	18.92	83.84	88.26
22-May-15 18:00:00	22-May-15 19:00:00		0.19	0.00	0.00	4.66	2.1	329.7		0.06	0.00	0.00	1.54		10.35	18.92	83.84	86.68	22-May-15 18:00:00		10.41	18.92	83.84	88.22
22-May-15 19:00:00	22-May-15 20:00:00		0.12	0.00	0.00	4.81	2.1	329.7		0.04	0.00	0.00	1.58		10.35	18.92	83.84	86.68	22-May-15 19:00:00		10.39	18.92	83.84	88.26
22-May-15 20:00:00	22-May-15 21:00:00		0.05	0.00	0.00	5.02	2.1	329.7		0.02	0.00	0.00	1.66		10.35	18.92	83.84	86.68	22-May-15 20:00:00		10.37	18.92	83.84	88.34
22-May-15 21:00:00	22-May-15 22:00:00		7.41	0.00	0.00	5.24	2.1	329.7		2.44	0.00	0.00	1.73		10.35	18.92	83.84	86.68	22-May-15 21:00:00		12.79	18.92	83.84	88.41
22-May-15 22:00:00	22-May-15 23:00:00		2.62	0.00	0.00	5.48	2.1	329.7		0.86	0.00	0.00	1.81		10.35	18.92	83.84	86.68	22-May-15 22:00:00		11.21	18.92	83.84	88.49
22-May-15 23:00:00	23-May-15 00:00:00		5.56	0.00	0.00	50.34	2.1	329.7		1.83	0.00	0.00	16.60		10.35	18.92	83.84	86.68	22-May-15 23:00:00		12.18	18.92	83.84	103.28
23-May-15 00:00:00	23-May-15 01:00:00		2.32	0.00	0.00	6.07	2.1	329.7		0.77	0.00	0.00	2.00		10.35	18.92	83.84	86.68	23-May-15 00:00:00		11.12	18.92	83.84	88.68
23-May-15 01:00:00	23-May-15 02:00:00		1.62	0.00	0.00	6.13	2.1	329.7		0.53	0.00	0.00	2.02		10.35	18.92	83.84	86.68	23-May-15 01:00:00		10.88	18.92	83.84	88.70
23-May-15 02:00:00	23-May-15 03:00:00		0.92	0.00	0.00	29.60	2.1	329.7		0.30	0.00	0.00	9.76		10.35	18.92	83.84	86.68	23-May-15 02:00:00		10.65	18.92	83.84	96.44
23-May-15 03:00:00	23-May-15 04:00:00		0.23	0.00	0.00	6.35	2.1	329.7		0.07	0.00	0.00	2.09		10.35	18.92	83.84	86.68	23-May-15 03:00:00		10.42	18.92	83.84	88.77
23-May-15 04:00:00	23-May-15 05:00:00		0.00	0.00	0.00	6.33	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	23-May-15 04:00:00		10.35	18.92	83.84	88.77
23-May-15 05:00:00	23-May-15 06:00:00		0.00	0.00	0.00	6.43	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	23-May-15 05:00:00		10.35	18.92	83.84	88.80
23-May-15 06:00:00	23-May-15 07:00:00		0.00	0.00	0.00	6.25	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	23-May-15 06:00:00		10.35	18.92	83.84	88.74
23-May-15 07:00:00	23-May-15 08:00:00		0.00	0.00	0.00	6.15	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	23-May-15 07:00:00		10.35	18.92	83.84	88.71
23-May-15 08:00:00	23-May-15 09:00:00		0.00	0.00	0.00	6.05	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	23-May-15 08:00:00		10.35	18.92	83.84	88.67
23-May-15 09:00:00	23-May-15 10:00:00		0.00	0.00	0.00	5.93	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	23-May-15 09:00:00		10.35	18.92	83.84	88.64
23-May-15 10:00:00	23-May-15 11:00:00		0.99	0.00	0.00	5.68	2.1	329.7		0.33	0.00	0.00	1.87		10.35	18.92	83.84	86.68	23-May-15 10:00:00		10.68	18.92	83.84	88.55
23-May-15 11:00:00	23-May-15 12:00:00		0.00	0.00	0.00	5.46	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	23-May-15 11:00:00		10.35	18.92	83.84	88.48
23-May-15 12:00:00	23-May-15 13:00:00		4.02	0.00	0.00	5.24	2.1	329.7		1.33	0.00	0.00	1.73		10.35	18.92	83.84	86.68	23-May-15 12:00:00		11.68	18.92	83.84	88.41
23-May-15 13:00:00	23-May-15 14:00:00		5.12	0.00	0.00	5.02	2.1	329.7		1.69	0.00	0.00	1.65		10.35	18.92	83.84	86.68	23-May-15 13:00:00		12.04	18.92	83.84	88.33
23-May-15 14:00:00	23-May-15 15:00:00		5.69	0.00	0.00	4.90	2.1	329.7		1.87	0.00	0.00	1.62		10.35	18.92	83.84	86.68	23-May-15 14:00:00		12.22	18.92	83.84	88.30
23-May-15 15:00:00	23-May-15 16:00:00		6.54	0.00	0.00	10.02	2.1	329.7		2.16	0.00	0.00	3.30		10.35	18.92	83.84	86.68	23-May-15 15:00:00		12.51	18.92	83.84	89.98
23-May-15 16:00:00	23-May-15 17:00:00		0.82	0.00	0.00	4.63	2.1	329.7		0.27	0.00	0.00	1.53		10.35	18.92	83.84	86.68	23-May-15 16:00:00		10.62	18.92	83.84	88.21
23-May-15 17:00:00	23-May-15 18:00:00		3.62	0.00	0.00	4.64	2.1	329.7		1.19	0.00	0.00	1.53		10.35	18.92	83.84	86.68	23-May-15 17:00:00		11.54	18.92	83.84	88.21
23-May-15 18:00:00	23-May-15 19:00:00		4.47	0.00	0.00	4.65	2.1	329.7		1.47	0.00	0.00	1.53		10.35	18.92	83.84	86.68	23-May-15 18:00:00		11.82	18.92	83.84	88.21
23-May-15 19:00:00	23-May-15 20:00:00		4.49	0.00	0.00	4.68	2.1	329.7		1.48	0.00	0.00	1.54		10.35	18.92	83.84	86.68	23-May-15 19:00:00		11.83	18.92	83.84	88.22
23-May-15 20:00:00	23-May-15 21:00:00		4.52	0.00	0.00	4.88	2.1	329.7		1.49	0.00	0.00	1.61		10.35	18.92	83.84	86.68	23-May-15 20:00:00		11.84	18.92	83.84	88.29
23-May-15 21:00:00	23-May-15 22:00:00		4.58	0.00	0.00	7.92	2.1	329.7		1.51	0.00	0.00	2.61		10.35	18.92	83.84	86.68	23-May-15 21:00:00		11.86	18.92	83.84	89.29
23-May-15 22:00:00	23-May-15 23:00:00		4.84	0.00	0.00	5.31	2.1	329.7		1.60	0.00	0.00	1.75		10.35	18.92	83.84	86.68	23-May-15 22:00:00		11.95	18.92	83.84	88.43
23-May-15 23:00:00	24-May-15 00:00:00		0.06	0.00	0.00	5.46	2.1	329.7		0.02	0.00	0.00	1.80		10.35	18.92	83.84	86.68	23-May-15 23:00:00		10.37	18.92	83.84	88.48
24-May-15 00:00:00	24-May-15 01:00:00		0.81	0.00	0.00	5.61	2.1	329.7		0.27	0.00	0.00	1.85		10.35	18.92	83.84	86.68	24-May-15 00:00:00		10.62	18.92	83.84	88.53
24-May-15 01:00:00	24-May-15 02:00:00		5.07	0.00	0.00	5.76	2.1	329.7		1.67	0.00	0.00	1.90		10.35	18.92	83.84	86.68	24-May-15 01:00:00		12.02	18.92	83.84

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
2015 HOURLY EMISSIONS		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
25-May-15 20:00:00	25-May-15 21:00:00		1.79	0.00	0.00	4.44	2.1	329.7		0.59	0.00	0.00	1.47		10.35	18.92	83.84	86.68	25-May-15 20:00:00		10.94	18.92	83.84	88.15
25-May-15 21:00:00	25-May-15 22:00:00		1.01	0.00	0.00	4.65	2.1	329.7		0.33	0.00	0.00	1.53		10.35	18.92	83.84	86.68	25-May-15 21:00:00		10.68	18.92	83.84	88.21
25-May-15 22:00:00	25-May-15 23:00:00		1.28	0.00	0.00	4.84	2.1	329.7		0.42	0.00	0.00	1.60		10.35	18.92	83.84	86.68	25-May-15 22:00:00		10.77	18.92	83.84	88.28
25-May-15 23:00:00	26-May-15 00:00:00		8.62	0.00	0.00	16.16	2.1	329.7		2.84	0.00	0.00	5.33		10.35	18.92	83.84	86.68	25-May-15 23:00:00		13.19	18.92	83.84	92.01
26-May-15 00:00:00	26-May-15 01:00:00		9.97	0.00	0.00	5.19	2.1	329.7		3.29	0.00	0.00	1.71		10.35	18.92	83.84	86.68	26-May-15 00:00:00		13.64	18.92	83.84	88.39
26-May-15 01:00:00	26-May-15 02:00:00		0.64	0.00	0.00	5.26	2.1	329.7		0.21	0.00	0.00	1.73		10.35	18.92	83.84	86.68	26-May-15 01:00:00		10.56	18.92	83.84	88.41
26-May-15 02:00:00	26-May-15 03:00:00		1.38	0.00	0.00	7.74	2.1	329.7		0.46	0.00	0.00	2.55		10.35	18.92	83.84	86.68	26-May-15 02:00:00		10.81	18.92	83.84	89.23
26-May-15 03:00:00	26-May-15 04:00:00		3.14	0.00	0.00	5.33	2.1	329.7		1.03	0.00	0.00	1.76		10.35	18.92	83.84	86.68	26-May-15 03:00:00		11.38	18.92	83.84	88.44
26-May-15 04:00:00	26-May-15 05:00:00		0.71	0.00	0.00	5.39	2.1	329.7		0.24	0.00	0.00	1.78		10.35	18.92	83.84	86.68	26-May-15 04:00:00		10.59	18.92	83.84	88.46
26-May-15 05:00:00	26-May-15 06:00:00		0.50	0.00	0.00	5.44	2.1	329.7		0.17	0.00	0.00	1.79		10.35	18.92	83.84	86.68	26-May-15 05:00:00		10.52	18.92	83.84	88.47
26-May-15 06:00:00	26-May-15 07:00:00		0.29	0.00	0.00	5.48	2.1	329.7		0.09	0.00	0.00	1.81		10.35	18.92	83.84	86.68	26-May-15 06:00:00		10.44	18.92	83.84	88.49
26-May-15 07:00:00	26-May-15 08:00:00		0.08	0.00	0.00	5.27	2.1	329.7		0.03	0.00	0.00	1.74		10.35	18.92	83.84	86.68	26-May-15 07:00:00		10.38	18.92	83.84	88.42
26-May-15 08:00:00	26-May-15 09:00:00		0.00	0.00	0.00	5.01	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	26-May-15 08:00:00		10.35	18.92	83.84	88.33
26-May-15 09:00:00	26-May-15 10:00:00		0.00	0.00	0.00	45.72	2.1	329.7		0.00	0.00	0.00	15.07		10.35	18.92	83.84	86.68	26-May-15 09:00:00		10.35	18.92	83.84	101.75
26-May-15 10:00:00	26-May-15 11:00:00		0.22	0.00	0.00	4.72	2.1	329.7		0.07	0.00	0.00	1.56		10.35	18.92	83.84	86.68	26-May-15 10:00:00		10.42	18.92	83.84	88.24
26-May-15 11:00:00	26-May-15 12:00:00		8.13	0.00	0.00	4.50	2.1	329.7		2.68	0.00	0.00	1.48		10.35	18.92	83.84	86.68	26-May-15 11:00:00		13.03	18.92	83.84	88.16
26-May-15 12:00:00	26-May-15 13:00:00		5.90	0.00	0.00	4.28	2.1	329.7		1.95	0.00	0.00	1.41		10.35	18.92	83.84	86.68	26-May-15 12:00:00		12.30	18.92	83.84	88.09
26-May-15 13:00:00	26-May-15 14:00:00		4.01	0.00	0.00	4.13	2.1	329.7		1.32	0.00	0.00	1.36		10.35	18.92	83.84	86.68	26-May-15 13:00:00		11.67	18.92	83.84	88.04
26-May-15 14:00:00	26-May-15 15:00:00		7.31	0.00	0.00	4.14	2.1	329.7		2.41	0.00	0.00	1.36		10.35	18.92	83.84	86.68	26-May-15 14:00:00		12.76	18.92	83.84	88.04
26-May-15 15:00:00	26-May-15 16:00:00		3.68	0.00	0.00	15.63	2.1	329.7		1.21	0.00	0.00	5.15		10.35	18.92	83.84	86.68	26-May-15 15:00:00		11.56	18.92	83.84	91.83
26-May-15 16:00:00	26-May-15 17:00:00		1.18	0.00	0.00	4.05	2.1	329.7		0.39	0.00	0.00	1.33		10.35	18.92	83.84	86.68	26-May-15 16:00:00		10.74	18.92	83.84	88.01
26-May-15 17:00:00	26-May-15 18:00:00		0.00	0.00	0.00	3.93	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	26-May-15 17:00:00		10.35	18.92	83.84	87.98
26-May-15 18:00:00	26-May-15 19:00:00		0.00	0.00	0.00	13.96	2.1	329.7		0.00	0.00	0.00	4.60		10.35	18.92	83.84	86.68	26-May-15 18:00:00		10.35	18.92	83.84	91.28
26-May-15 19:00:00	26-May-15 20:00:00		0.00	0.00	0.00	4.14	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	26-May-15 19:00:00		10.35	18.92	83.84	88.04
26-May-15 20:00:00	26-May-15 21:00:00		0.00	0.00	0.00	4.42	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	26-May-15 20:00:00		10.35	18.92	83.84	88.14
26-May-15 21:00:00	26-May-15 22:00:00		0.90	0.00	0.00	4.70	2.1	329.7		0.30	0.00	0.00	1.55		10.35	18.92	83.84	86.68	26-May-15 21:00:00		10.65	18.92	83.84	88.23
26-May-15 22:00:00	26-May-15 23:00:00		1.88	0.00	0.00	5.05	2.1	329.7		0.62	0.00	0.00	1.66		10.35	18.92	83.84	86.68	26-May-15 22:00:00		10.97	18.92	83.84	88.34
26-May-15 23:00:00	27-May-15 00:00:00		1.23	0.00	0.00	5.34	2.1	329.7		0.41	0.00	0.00	1.76		10.35	18.92	83.84	86.68	26-May-15 23:00:00		10.76	18.92	83.84	88.44
27-May-15 00:00:00	27-May-15 01:00:00		5.08	0.00	0.00	5.41	2.1	329.7		1.67	0.00	0.00	1.79		10.35	18.92	83.84	86.68	27-May-15 00:00:00		12.02	18.92	83.84	88.47
27-May-15 01:00:00	27-May-15 02:00:00		6.08	0.00	0.00	5.49	2.1	329.7		2.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	27-May-15 01:00:00		12.35	18.92	83.84	88.49
27-May-15 02:00:00	27-May-15 03:00:00		1.47	0.00	0.00	5.55	2.1	329.7		0.49	0.00	0.00	1.83		10.35	18.92	83.84	86.68	27-May-15 02:00:00		10.84	18.92	83.84	88.51
27-May-15 03:00:00	27-May-15 04:00:00		2.56	0.00	0.00	5.44	2.1	329.7		0.84	0.00	0.00	1.79		10.35	18.92	83.84	86.68	27-May-15 03:00:00		11.19	18.92	83.84	88.47
27-May-15 04:00:00	27-May-15 05:00:00		4.22	0.00	0.00	34.31	2.1	329.7		1.39	0.00	0.00	11.31		10.35	18.92	83.84	86.68	27-May-15 04:00:00		11.74	18.92	83.84	97.99
27-May-15 05:00:00	27-May-15 06:00:00		5.71	0.00	0.00	5.29	2.1	329.7		1.88	0.00	0.00	1.74		10.35	18.92	83.84	86.68	27-May-15 05:00:00		12.23	18.92	83.84	88.42
27-May-15 06:00:00	27-May-15 07:00:00		7.17	0.00	0.00	5.25	2.1	329.7		2.37	0.00	0.00	1.73		10.35	18.92	83.84	86.68	27-May-15 06:00:00		12.72	18.92	83.84	88.41
27-May-15 07:00:00	27-May-15 08:00:00		7.60	0.00	0.00	5.21	2.1	329.7		2.51	0.00	0.00	1.72		10.35	18.92	83.84	86.68	27-May-15 07:00:00		12.86	18.92	83.84	88.40
27-May-15 08:00:00	27-May-15 09:00:00		7.65	0.00	0.00	5.13	2.1	329.7		2.52	0.00	0.00	1.69		10.35	18.92	83.84	86.68	27-May-15 08:00:00		12.87	18.92	83.84	88.37
27-May-15 09:00:00	27-May-15 10:00:00		7.69	0.00	0.00	4.97	2.1	329.7		2.54	0.00	0.00	1.64		10.35	18.92	83.84	86.68	27-May-15 09:00:00		12.89	18.92	83.84	88.32
27-May-15 10:00:00	27-May-15 11:00:00		6.99	0.00	0.00	4.80	2.1	329.7		2.30	0.00	0.00	1.58		10.35	18.92	83.84	86.68	27-May-15 10:00:00		12.65	18.92	83.84	88.26
27-May-15 11:00:00	27-May-15 12:00:00		3.54	0.00	0.00	4.64	2.1	329.7		1.17	0.00	0.00	1.53		10.35	18.92	83.84	86.68	27-May-15 11:00:00		11.52	18.92	83.84	88.21
27-May-15 12:00:00	27-May-15 13:00:00		2.12	0.00	0.00	4.53	2.1	329.7		0.70	0.00	0.00	1.49		10.35	18.92	83.84	86.68	27-May-15 12:00:00		11.05	18.92	83.84	88.17
27-May-15 13:00:00	27-May-15 14:00:00		0.61	0.00	0.00	4.46	2.1	329.7		0.20	0.00	0.00	1.47		10.35	18.92	83.84	86.68	27-May-15 13:00:00		10.55	18.92	83.84	88.15
27-May-15 14:00:00	27-May-15 15:00:00		3.25	0.00	0.00	4.39	2.1	329.7		1.07	0.00	0.00	1.45		10.35	18.92	83.84	86.68	27-May-15 14:00:00		11.42	18.92	83.84	88.13
27-May-15 15:00:00	27-May-15 16:00:00		1.40	0.00	0.00	4.32	2.1	329.7		0.46	0.00	0.00	1.43		10.35	18.92	83.84	86.68	27-May-15 15:00:00		10.81	18.92	83.84	88.11
27-May-15 16:00:00	27-May-15 17:00:00		0.77	0.00	0.00	55.48	2.1	329.7		0.25	0.00	0.00	18.29		10.35	18.92	83.84	86.68	27-May-15 16:00:00		10.60	18.92	83.84	104.97
27-May-15 17:00:00	27-May-15 18:00:00		0.77	0.00	0.00	4.67	2.1	329.7		0.25	0.00	0.00	1.54		10.35	18.92	83.84	86.68	27-May-15 17:00:00		10.60	18.92	83.84	88.22
27-May-15 18:00:00	27-May-15 19:00:00		0.16	0.00	0.00	4.87	2.1	329.7		0.05	0.00	0.00	1.61		10.35	18.92	83.84	86.68	27-May-15 18:00:00		10.40	18.92	83.84	88.29
27-May-15 19:00:00	27-May-15 20:00:00		0.48	0.00	0.00	5.07	2.1	329.7		0.16	0.00	0.00	1.67		10.35	18.92	83.84	86.68	27-May-15 19:00:00		10.51	18.92	83.84	88.35
27-May-15 20:00:00	27-May-15 21:00:00		2.00	0.00	0.00	5.10	2.1	329.7		0.66	0.00	0.00	1.68		10.35	18.92	83.84	86.68	27-May-15 20:00:00		11.01	18.92	83.84	88.36
27-May-15 21:00:00	27-May-15 22:00:00		0.90	0.00	0.00	5.10	2.1	329.7		0.30	0.00	0.00	1.68		10.35	18.92	83.84	86.68	27-May-15 21:00:00		10.65	18.92	83.84	88.36
27-May-15 22:00:00	27-May-15 23:00:00		5.80	0.00	0.00	9.74	2.1	329.7		1.91	0.00	0.00	3.21		10.35	18.92	83.84	86.68	27-May-15 22:00:00		12.26	18.92	83.84	89.89
27-May-15 23:00:00	28-May-15 00:00:00		6.83	0.00	0.00	5.15	2.1	329.7		2.25	0.00	0.00	1.70		10.35	18.92	83.84	86.68	27-May-15 23:00:00		12.60	18.92	83.84	88.38
28-May-15 00:00:00	28-May-15 01:00:00		3.17	0.00	0.00	5.15	2.1	329.7		1.04	0.00	0.00	1.70		10.35	18.92	83.84	86.68	28-May-15 00:00:00		11.39	18.92	83.84	88.38
28-May-15 01:00:00	28-May-15 02:00:00		3.97	0.00	0.00	5.16	2.1	329.7		1.31	0.00	0.00	1.70		10.35	18.92	83.84	86.68	28-May-15 01:00:00		11.66	18.92	83.84	88.38
28-May-15 02:00:00	28-May-15 03:00:00		2.17	0.00	0.00	5.16	2.1	329.7		0.72	0.00	0.00	1.70		10.35	18.92	83.84	86.68	28-May-15 02:00:00		11.07	18.92	83.84	88.38
28-May-15 03:00:00	28-May-15 04:00:00		2.09	0.00	0.00	5.18	2.1	329.7		0.69	0.00	0.00	1.71		10.35	18.92	83.84	86.68	28-May-15 03:00:00		11.04	18.92	83.84	88.39
28-May-15 04:00:00	28-May-15 05:00:00		2.96	0.00	0.00	5.20	2.1	329.7		0.97	0.00	0.00	1.71		10.35	18.92	83.84	86.68	28-May-15 04:00:00		11.32	18.92	83.84	88.39
28-May-15 05:00:00	28-May-15 06:00:00		3.15	0.00	0.00	6.55	2.1	329.7		1.04	0.00	0.00	2.16		10.35	18.92	83.84	86.68	28-May-15 05:00:00		11.39	18.92	83.84	88.84
28-May-15 06:00:00	28-May-15 07:00:00		4.14	0.00	0.00	5.11	2.1	329.7		1.36	0.00	0.00	1.68		10.35	18.92	83.84	86.68	28-May-15 06:00:00		11.71	18.92	83.84	88.36
28-May-15 07:00:00	28-May-15 08:00:00		6.31	0.00	0.00	5.04	2.1	329.7		2.08	0.00	0.00	1.66		10.35	18.92	83.84	86.68	28-May-15 07:00:00		12.43	18.92	83.84	88.34
28-May-15 08:00:00	28-May-15 09:00:00		7.75	0.00	0.00	4.97	2.1	329.7		2.56	0.00	0.00	1.64		10.35	18.92	83.84	86.68	28-May-15 08:00:00		12.91	18.92	83.84	88.32
28-May-15 09:00:00	28-May-15 10:00:00		0.10	0.00	0.00	4.86	2.1	329.7		0.03	0.00	0.00	1.60		10.35	18.92	83.84	86.68	28-May-15 09:00:00		10.38	18.92	83.84	88.28
28-May-15 10:00:00	28-May-15 11:00:00		0.43	0.00	0.00	4.72	2.1	329.7		0.14	0.00	0.00	1.56		10.35	18.92	83.84	86.68	28-May-15 10:00:00		10.49	18.92	83.84	88.24
28-May-15 11:00:00	28-May-15 12:00:00		6.43	0.00	0.00	4.61	2.1	329.7		2.12	0.00	0.00	1.52		10.35	18.92	83.84	86.68	28-May-15 11:00:00		12.47	18.92	83.84	88.20
28-May-15 12:00:00	28-May-15 13:00:00		3.41	0.00	0.00	4.51	2.1	329.7		1.13	0.00	0.00	1.49		10.35	18.92	83.84	86.68	28-May-15 12:00:00		11.48	18.92	83.84	88.17
28-May-15 13:00:00	28-May-15 14:00:00		4.86	0.00	0.00	4.38	2.1	329.7		1.60	0.00	0.00	1.44		10.35	18.92	83.84	86.68	28-May-15 13:00:00		11.95	18.92	83.84	88.12
28-May-15 14:00:00	28-May-15 15:00:00		2.30	0.00	0.00	13.72	2.1	329.7		0.76	0.00	0.00	4.52		10.35	18.92	83.84	86.68	28-May-15 14:00:00		11.11	18.92	83.84	91.20
28-May-15 15:00:00	28-May-15 16:00:00		3.65	0.00	0.00	4.19	2.1	329.7		1.20	0.00	0.00	1.38		10.35	18.92	83.84	86.68	28-May-15 15:00:00		11.55	18.92	83.84	88.06
28-May-15 16:00:00	28-May-15 17:00:00		1.61	0.00	0.00	4.17	2.1	329.7		0.53	0.00	0.00	1.38		10.35	18.92	83.84	86.68	28-May-15 16:00:00		10.88	18.92	83.84	88.06
28-May-15 17:00:00	28-May-15 18:00:00		1.03	0.00	0.00	4.43	2.1	329.7		0.34	0.00	0.00	1.46		10.35	18.92	83.84	86.68	28-May-15 17:00:00		10.69	18.92	83.84	88.14
28-May-15 18:00:00	28-May-15 19:00:00		0.46	0.00	0.00	4.27	2.1	329.7		0.15	0.00	0.00	1.41		10.35	18.92	83.84	86.68	28-May-15 18:00:00		10.50	18.92	83.84	88.09
28-May-15 19:00:00	28-May-15 20:00:00		0.03	0.00	0.00	61.04	2.1	329.7		0.01	0.00	0.00	20.12		10.35	18.92	83.84	86.68	28-May-15 19:00:00		10.36	18.92	83.84	106.80
28-May-15 20:00:00	28-May-15 21:00:00		0.00	0.00	0.00	4.62	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	28-May-15 20:00:00		10.35	18.92	83.84	88.20
28-May-15 21:00:00	28-May-15 22:00:00		0.00	0.00	0.00	4.81	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	28-May-15 21:00:00		10.35	18.92	83.84	88.26
28-May-15 22:00:00	28-May-15 23:00:00		0.00	0.00	0.00	5.00	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	28-May-15 22:00:00		10.35	18.92	83.84	88.33
28-May-15 23:00:00	29-May-15 00:00:00		2.98	0.00	0.00	5.90	2.1	329.7		0.98	0.00	0.00	1.95		10.35	18.92	83.84	86.68	28-May-15 23:00:00		11.33	18.92	83.84	88.63
29-May-15 00:00:00	29-May-15 01:00:00		4.50	0.00	0.00	5.22	2.1	329.7		1.48	0.00	0.00	1.72		10.35	18.92	83.84	86.68	29-May-15 00:00:00		11.83	18.92	83.84	88.40
29-May-15 01:00:00	29-May-15 02:00:00		0.82	0.00	0.00	5.23	2.1	329.7		0.27	0.00	0.00	1.72		10.35	18.92	83.84	86.68	29-May-15 01:00:00		10.62	18.92	83.84	88.40
29-May-15 02:00:00	29-May-15 03:00:00		0.36	0.00	0.00	46.75	2.1	329.7		0.12	0.00	0.00	15.41		10.35	18.92	83.84	86.68	29-May-15 02:00:00		10.47	18.92	83.84	102.09
29-May-15 03:00:00	29-May-15 04:00:00		2.24	0.00	0.00	5.35	2.1	329.7		0.74	0.00	0.00	1.76		10.35	18.92	83.84	86.68	29-May-15 03:00:00		11.09	18.92	83.84	88.44
29-May-15 04:00:00	29-May-15 05:00:00		6.53	0.00	0.00	5.42	2.1	329.7		2.15	0.00	0.00	1.79		10.35	18.92	83.84	86.68	29-May-15 04:00:00		12.50	18.92	83.84	88.47
29-May-15 05:00:00	29-May-15 06:00:00		8.78	0.00	0.00	5.49	2.1	329.7		2.90	0.00	0.00	1.81		10.35	18.92	83.84	86.68	29-May-15 05:00:00		13.25	18.92	83.84	88.49
29-May-15 06:00:00	29-May-15 07:00:00		5.64	0.00	0.00	5.52	2.1	329.7		1.86	0.00	0.00	1.82		10.35	18.92	83.84	86.68	29-May-15 06:00:00		12.21	18.92	83.84	88.50
29-May-15 07:00:00	29-May-15 08:00:00		0.53	0.00	0.00	5.35	2.1	329.7		0.17	0.00	0.00	1.76		10.35	18.92	83.84	86.68	29-May-15 07:00:00		10.52	18.92	83.84	88.44
29-May-15 08:00:00	29-May-15 09:00:00		0.18	0.00	0.00	14.79	2.1	329.7		0.06	0.00	0.00	4.88		10.35	18.92	83.84	86.68	29-May-15 08:00:00		10.41	18.92	83.84	91.56
29-May-15 09:00:00	29-May-15 10:00:00		0.16	0.00	0.00	4.92	2.1	329.7		0.05	0.00	0.00	1.62		10.35	18.92	83.84	86.68	29-May-15 09:00:00		10.40	18.92	83.84	88.30
29-May-15 10:00:00	29-May-15 11:00:00		1.72	0.00	0.00	4.65	2.1	329.7		0.57	0.00	0.00	1.53		10.35	18.92	83.84	86.68	29-May-15 10:00:00		10.92	18.92	83.84	88.21
29-May-15 11:00:00	29-May-15 12:00:00		0.95	0.00	0.00	4.37	2.1	329.7		0.31	0.00	0.00	1.44		10.35	18.92	83.84	86.68	29-May-15 11:00:00		10.66	18.92	83.84	88.12
29-May-15 12:00:00	29-May-15 13:00:00		0.25	0.00	0.00	4.16	2.1	329.7		0.08	0.00	0.00	1.37		10.35	18.92	83.84	86.68	29-May-15 12:00:00		10.43	18.92	83.84	88.05
29-May-15 13:00:00	29-May-15 14:00:00		0.00	0.00	0.00	4.16	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	29-May-15 13:00:00		10.35	18.92	83.84	88.05
29-May-15 14:00:00	29-May-15 15:00:00		0.00	0.00	0.00	4.18	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	29-May-15 14:00:00		10.35	18.92	83.84	88.06
29-May-15 15:00:00	29-May-15 16:00:00		0.00	0.00	0.00	4.20	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	29-May-15 15:00:00		10.35	18.92	83.84	88.06
29-May-15 16:00:00	29-May-15 17:00:00		0.00	0.00	0.00	4.22	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	29-May-15 16:00:00		10.35	18.92	83.84	88.07
29-May-15 17:00:00	29-May-15 18:00:00		0.00	0.00	0.00	4.28	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	29-May-15 17:00:00		10.35	18.92	83.84	88.09
29-May-15 18:00:00	29-May-15 19:00:00		0.00	0.00	0.00	4.35	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	29-May-15 18:00:00		10.35	18.92	83.84	88.11
29-May-15 19:00:00	29-May-15 20:00:00		0.20	0.00	0.00	4.41	2.1	329.7		0.07	0.00	0.00	1.45		10.35	18.92	83.84	86.68	29-May-15 19:00:00		10.42	18.92	83.84	88.13
29-May-15 20:00:00	29-May-15 21:00:00		0.00	0.00	0.00	4.50	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	29-May-15 20:00:00		10.35	18.92	83.84

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
31-May-15 15:00:00	31-May-15 16:00:00		0.00	0.00	0.00	3.86	2.1	329.7		0.00	0.00	0.00	1.27		10.35	18.92	83.84	86.68	31-May-15 15:00:00		10.35	18.92	83.84	87.95
31-May-15 16:00:00	31-May-15 17:00:00		0.00	0.00	0.00	3.69	2.1	329.7		0.00	0.00	0.00	1.22		10.35	18.92	83.84	86.68	31-May-15 16:00:00		10.35	18.92	83.84	87.90
31-May-15 17:00:00	31-May-15 18:00:00		0.00	0.00	0.00	3.73	2.1	329.7		0.00	0.00	0.00	1.23		10.35	18.92	83.84	86.68	31-May-15 17:00:00		10.35	18.92	83.84	87.91
31-May-15 18:00:00	31-May-15 19:00:00		0.00	0.00	0.00	3.82	2.1	329.7		0.00	0.00	0.00	1.26		10.35	18.92	83.84	86.68	31-May-15 18:00:00		10.35	18.92	83.84	87.94
31-May-15 19:00:00	31-May-15 20:00:00		0.00	0.00	0.00	3.92	2.1	329.7		0.00	0.00	0.00	1.29		10.35	18.92	83.84	86.68	31-May-15 19:00:00		10.35	18.92	83.84	87.97
31-May-15 20:00:00	31-May-15 21:00:00		0.00	0.00	0.00	3.89	2.1	329.7		0.00	0.00	0.00	1.28		10.35	18.92	83.84	86.68	31-May-15 20:00:00		10.35	18.92	83.84	87.96
31-May-15 21:00:00	31-May-15 22:00:00		0.00	0.00	0.00	4.04	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	31-May-15 21:00:00		10.35	18.92	83.84	88.01
31-May-15 22:00:00	31-May-15 23:00:00		0.00	0.00	0.00	4.25	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	31-May-15 22:00:00		10.35	18.92	83.84	88.08
31-May-15 23:00:00	01-Jun-15 00:00:00		0.00	0.00	0.00	4.47	2.1	329.7		0.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	31-May-15 23:00:00		10.35	18.92	83.84	88.15
01-Jun-15 00:00:00	01-Jun-15 01:00:00		0.00	0.00	0.00	4.60	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	01-Jun-15 00:00:00		10.35	18.92	83.84	88.20
01-Jun-15 01:00:00	01-Jun-15 02:00:00		0.00	0.00	0.00	4.66	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	01-Jun-15 01:00:00		10.35	18.92	83.84	88.22
01-Jun-15 02:00:00	01-Jun-15 03:00:00		0.00	0.00	0.00	4.72	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	01-Jun-15 02:00:00		10.35	18.92	83.84	88.24
01-Jun-15 03:00:00	01-Jun-15 04:00:00		1.06	0.00	0.00	4.79	2.1	329.7		0.35	0.00	0.00	1.58		10.35	18.92	83.84	86.68	01-Jun-15 03:00:00		10.70	18.92	83.84	88.26
01-Jun-15 04:00:00	01-Jun-15 05:00:00		0.00	0.00	0.00	4.78	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	01-Jun-15 04:00:00		10.35	18.92	83.84	88.26
01-Jun-15 05:00:00	01-Jun-15 06:00:00		436.04	0.00	0.00	4.74	2.1	329.7		143.76	0.00	0.00	1.56		10.35	18.92	83.84	86.68	01-Jun-15 05:00:00		154.11	18.92	83.84	88.24
01-Jun-15 06:00:00	01-Jun-15 07:00:00		1,390.39	0.00	0.00	4.71	2.1	329.7		458.41	0.00	0.00	1.55		10.35	18.92	83.84	86.68	01-Jun-15 06:00:00		468.76	18.92	83.84	88.23
01-Jun-15 07:00:00	01-Jun-15 08:00:00		1,677.79	0.00	0.00	4.68	2.1	329.7		553.17	0.00	0.00	1.54		10.35	18.92	83.84	86.68	01-Jun-15 07:00:00		563.52	18.92	83.84	88.22
01-Jun-15 08:00:00	01-Jun-15 09:00:00		1,822.48	0.00	0.00	4.66	2.1	329.7		600.87	0.00	0.00	1.54		10.35	18.92	83.84	86.68	01-Jun-15 08:00:00		611.22	18.92	83.84	88.22
01-Jun-15 09:00:00	01-Jun-15 10:00:00		1,783.98	0.00	0.00	4.54	2.1	329.7		588.18	0.00	0.00	1.50		10.35	18.92	83.84	86.68	01-Jun-15 09:00:00		598.53	18.92	83.84	88.18
01-Jun-15 10:00:00	01-Jun-15 11:00:00		1,797.68	0.00	0.00	4.39	2.1	329.7		592.70	0.00	0.00	1.45		10.35	18.92	83.84	86.68	01-Jun-15 10:00:00		603.05	18.92	83.84	88.13
01-Jun-15 11:00:00	01-Jun-15 12:00:00		1,792.42	0.00	0.00	4.24	2.1	329.7		590.96	0.00	0.00	1.40		10.35	18.92	83.84	86.68	01-Jun-15 11:00:00		601.31	18.92	83.84	88.08
01-Jun-15 12:00:00	01-Jun-15 13:00:00		1,777.50	0.00	0.00	4.14	2.1	329.7		586.04	0.00	0.00	1.37		10.35	18.92	83.84	86.68	01-Jun-15 12:00:00		596.39	18.92	83.84	88.05
01-Jun-15 13:00:00	01-Jun-15 14:00:00		1,134.42	0.00	0.00	4.22	2.1	329.7		374.02	0.00	0.00	1.39		10.35	18.92	83.84	86.68	01-Jun-15 13:00:00		384.37	18.92	83.84	88.07
01-Jun-15 14:00:00	01-Jun-15 15:00:00		921.14	0.00	0.00	4.30	2.1	329.7		303.70	0.00	0.00	1.42		10.35	18.92	83.84	86.68	01-Jun-15 14:00:00		314.05	18.92	83.84	88.10
01-Jun-15 15:00:00	01-Jun-15 16:00:00		912.75	0.00	0.00	4.38	2.1	329.7		300.94	0.00	0.00	1.44		10.35	18.92	83.84	86.68	01-Jun-15 15:00:00		311.29	18.92	83.84	88.12
01-Jun-15 16:00:00	01-Jun-15 17:00:00		916.70	0.00	0.00	4.45	2.1	329.7		302.24	0.00	0.00	1.47		10.35	18.92	83.84	86.68	01-Jun-15 16:00:00		312.59	18.92	83.84	88.15
01-Jun-15 17:00:00	01-Jun-15 18:00:00		914.78	0.00	0.00	4.52	2.1	329.7		301.60	0.00	0.00	1.49		10.35	18.92	83.84	86.68	01-Jun-15 17:00:00		311.95	18.92	83.84	88.17
01-Jun-15 18:00:00	01-Jun-15 19:00:00		913.97	0.00	0.00	4.60	2.1	329.7		301.34	0.00	0.00	1.52		10.35	18.92	83.84	86.68	01-Jun-15 18:00:00		311.69	18.92	83.84	88.20
01-Jun-15 19:00:00	01-Jun-15 20:00:00		1,084.24	0.00	0.00	4.67	2.1	329.7		357.47	0.00	0.00	1.54		10.35	18.92	83.84	86.68	01-Jun-15 19:00:00		367.82	18.92	83.84	88.22
01-Jun-15 20:00:00	01-Jun-15 21:00:00		1,388.81	0.00	0.00	4.75	2.1	329.7		457.89	0.00	0.00	1.57		10.35	18.92	83.84	86.68	01-Jun-15 20:00:00		468.24	18.92	83.84	88.25
01-Jun-15 21:00:00	01-Jun-15 22:00:00		1,218.45	0.00	0.00	4.75	2.1	329.7		401.72	0.00	0.00	1.57		10.35	18.92	83.84	86.68	01-Jun-15 21:00:00		412.07	18.92	83.84	88.25
01-Jun-15 22:00:00	01-Jun-15 23:00:00		1,243.39	0.00	0.00	4.72	2.1	329.7		409.94	0.00	0.00	1.56		10.35	18.92	83.84	86.68	01-Jun-15 22:00:00		420.29	18.92	83.84	88.24
01-Jun-15 23:00:00	02-Jun-15 00:00:00		1,243.25	0.00	0.00	4.70	2.1	329.7		409.90	0.00	0.00	1.55		10.35	18.92	83.84	86.68	01-Jun-15 23:00:00		420.25	18.92	83.84	88.23
02-Jun-15 00:00:00	02-Jun-15 01:00:00		1,307.29	0.00	0.00	4.68	2.1	329.7		431.01	0.00	0.00	1.54		10.35	18.92	83.84	86.68	02-Jun-15 00:00:00		441.36	18.92	83.84	88.22
02-Jun-15 01:00:00	02-Jun-15 02:00:00		1,358.15	0.00	0.00	4.75	2.1	329.7		447.78	0.00	0.00	1.57		10.35	18.92	83.84	86.68	02-Jun-15 01:00:00		458.13	18.92	83.84	88.25
02-Jun-15 02:00:00	02-Jun-15 03:00:00		685.14	0.00	0.00	4.84	2.1	329.7		225.89	0.00	0.00	1.60		10.35	18.92	83.84	86.68	02-Jun-15 02:00:00		236.24	18.92	83.84	88.28
02-Jun-15 03:00:00	02-Jun-15 04:00:00		2.37	0.00	0.00	4.93	2.1	329.7		0.78	0.00	0.00	1.63		10.35	18.92	83.84	86.68	02-Jun-15 03:00:00		11.13	18.92	83.84	88.31
02-Jun-15 04:00:00	02-Jun-15 05:00:00		2.03	0.00	0.00	5.00	2.1	329.7		0.67	0.00	0.00	1.65		10.35	18.92	83.84	86.68	02-Jun-15 04:00:00		11.02	18.92	83.84	88.33
02-Jun-15 05:00:00	02-Jun-15 06:00:00		0.88	0.00	0.00	5.03	2.1	329.7		0.29	0.00	0.00	1.66		10.35	18.92	83.84	86.68	02-Jun-15 05:00:00		10.64	18.92	83.84	88.34
02-Jun-15 06:00:00	02-Jun-15 07:00:00		0.80	0.00	0.00	5.07	2.1	329.7		0.26	0.00	0.00	1.67		10.35	18.92	83.84	86.68	02-Jun-15 06:00:00		10.61	18.92	83.84	88.35
02-Jun-15 07:00:00	02-Jun-15 08:00:00		1.01	0.00	0.00	5.12	2.1	329.7		0.33	0.00	0.00	1.69		10.35	18.92	83.84	86.68	02-Jun-15 07:00:00		10.68	18.92	83.84	88.37
02-Jun-15 08:00:00	02-Jun-15 09:00:00		1.50	0.00	0.00	5.10	2.1	329.7		0.50	0.00	0.00	1.68		10.35	18.92	83.84	86.68	02-Jun-15 08:00:00		10.85	18.92	83.84	88.36
02-Jun-15 09:00:00	02-Jun-15 10:00:00		0.00	0.00	0.00	4.95	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	02-Jun-15 09:00:00		10.35	18.92	83.84	88.31
02-Jun-15 10:00:00	02-Jun-15 11:00:00		0.00	0.00	0.00	4.80	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	02-Jun-15 10:00:00		10.35	18.92	83.84	88.26
02-Jun-15 11:00:00	02-Jun-15 12:00:00		0.00	0.00	0.00	4.65	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	02-Jun-15 11:00:00		10.35	18.92	83.84	88.21
02-Jun-15 12:00:00	02-Jun-15 13:00:00		0.00	0.00	0.00	4.71	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	02-Jun-15 12:00:00		10.35	18.92	83.84	88.23
02-Jun-15 13:00:00	02-Jun-15 14:00:00		0.00	0.00	0.00	4.97	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	02-Jun-15 13:00:00		10.35	18.92	83.84	88.32
02-Jun-15 14:00:00	02-Jun-15 15:00:00		0.30	0.00	0.00	5.17	2.1	329.7		0.10	0.00	0.00	1.70		10.35	18.92	83.84	86.68	02-Jun-15 14:00:00		10.45	18.92	83.84	88.38
02-Jun-15 15:00:00	02-Jun-15 16:00:00		1.58	0.00	0.00	5.36	2.1	329.7		0.52	0.00	0.00	1.77		10.35	18.92	83.84	86.68	02-Jun-15 15:00:00		10.87	18.92	83.84	88.45
02-Jun-15 16:00:00	02-Jun-15 17:00:00		6.47	0.00	0.00	5.48	2.1	329.7		2.13	0.00	0.00	1.81		10.35	18.92	83.84	86.68	02-Jun-15 16:00:00		12.48	18.92	83.84	88.49
02-Jun-15 17:00:00	02-Jun-15 18:00:00		6.44	0.00	0.00	5.36	2.1	329.7		2.12	0.00	0.00	1.77		10.35	18.92	83.84	86.68	02-Jun-15 17:00:00		12.47	18.92	83.84	88.45
02-Jun-15 18:00:00	02-Jun-15 19:00:00		6.91	0.00	0.00	5.22	2.1	329.7		2.28	0.00	0.00	1.72		10.35	18.92	83.84	86.68	02-Jun-15 18:00:00		12.63	18.92	83.84	88.40
02-Jun-15 19:00:00	02-Jun-15 20:00:00		7.39	0.00	0.00	5.08	2.1	329.7		2.44	0.00	0.00	1.67		10.35	18.92	83.84	86.68	02-Jun-15 19:00:00		12.79	18.92	83.84	88.35
02-Jun-15 20:00:00	02-Jun-15 21:00:00		7.87	0.00	0.00	4.80	2.1	329.7		2.59	0.00	0.00	1.58		10.35	18.92	83.84	86.68	02-Jun-15 20:00:00		12.94	18.92	83.84	88.26
02-Jun-15 21:00:00	02-Jun-15 22:00:00		8.41	0.00	0.00	4.85	2.1	329.7		2.77	0.00	0.00	1.60		10.35	18.92	83.84	86.68	02-Jun-15 21:00:00		13.12	18.92	83.84	88.28
02-Jun-15 22:00:00	02-Jun-15 23:00:00		9.02	0.00	0.00	5.06	2.1	329.7		2.97	0.00	0.00	1.67		10.35	18.92	83.84	86.68	02-Jun-15 22:00:00		13.32	18.92	83.84	88.35
02-Jun-15 23:00:00	03-Jun-15 00:00:00		9.62	0.00	0.00	5.27	2.1	329.7		3.17	0.00	0.00	1.74		10.35	18.92	83.84	86.68	02-Jun-15 23:00:00		13.52	18.92	83.84	88.42
03-Jun-15 00:00:00	03-Jun-15 01:00:00		11.77	0.00	0.00	5.32	2.1	329.7		3.88	0.00	0.00	1.75		10.35	18.92	83.84	86.68	03-Jun-15 00:00:00		14.23	18.92	83.84	88.43
03-Jun-15 01:00:00	03-Jun-15 02:00:00		18.12	0.00	0.00	5.25	2.1	329.7		5.97	0.00	0.00	1.73		10.35	18.92	83.84	86.68	03-Jun-15 01:00:00		16.32	18.92	83.84	88.41
03-Jun-15 02:00:00	03-Jun-15 03:00:00		16.33	0.00	0.00	5.25	2.1	329.7		5.38	0.00	0.00	1.73		10.35	18.92	83.84	86.68	03-Jun-15 02:00:00		15.73	18.92	83.84	88.41
03-Jun-15 03:00:00	03-Jun-15 04:00:00		16.29	0.00	0.00	5.24	2.1	329.7		5.37	0.00	0.00	1.73		10.35	18.92	83.84	86.68	03-Jun-15 03:00:00		15.72	18.92	83.84	88.41
03-Jun-15 04:00:00	03-Jun-15 05:00:00		16.38	0.00	0.00	5.29	2.1	329.7		5.40	0.00	0.00	1.74		10.35	18.92	83.84	86.68	03-Jun-15 04:00:00		15.75	18.92	83.84	88.42
03-Jun-15 05:00:00	03-Jun-15 06:00:00		16.19	0.00	0.00	5.33	2.1	329.7		5.34	0.00	0.00	1.76		10.35	18.92	83.84	86.68	03-Jun-15 05:00:00		15.69	18.92	83.84	88.44
03-Jun-15 06:00:00	03-Jun-15 07:00:00		10.04	0.00	0.00	5.33	2.1	329.7		3.31	0.00	0.00	1.76		10.35	18.92	83.84	86.68	03-Jun-15 06:00:00		13.66	18.92	83.84	88.44
03-Jun-15 07:00:00	03-Jun-15 08:00:00		3.01	0.00	0.00	5.34	2.1	329.7		0.99	0.00	0.00	1.76		10.35	18.92	83.84	86.68	03-Jun-15 07:00:00		11.34	18.92	83.84	88.44
03-Jun-15 08:00:00	03-Jun-15 09:00:00		3.73	0.00	0.00	5.35	2.1	329.7		1.23	0.00	0.00	1.76		10.35	18.92	83.84	86.68	03-Jun-15 08:00:00		11.58	18.92	83.84	88.44
03-Jun-15 09:00:00	03-Jun-15 10:00:00		2.81	0.00	0.00	5.33	2.1	329.7		0.93	0.00	0.00	1.76		10.35	18.92	83.84	86.68	03-Jun-15 09:00:00		11.28	18.92	83.84	88.44
03-Jun-15 10:00:00	03-Jun-15 11:00:00		0.62	0.00	0.00	5.31	2.1	329.7		0.20	0.00	0.00	1.75		10.35	18.92	83.84	86.68	03-Jun-15 10:00:00		10.55	18.92	83.84	88.43
03-Jun-15 11:00:00	03-Jun-15 12:00:00		0.40	0.00	0.00	5.29	2.1	329.7		0.13	0.00	0.00	1.74		10.35	18.92	83.84	86.68	03-Jun-15 11:00:00		10.48	18.92	83.84	88.42
03-Jun-15 12:00:00	03-Jun-15 13:00:00		0.27	0.00	0.00	5.41	2.1	329.7		0.09	0.00	0.00	1.78		10.35	18.92	83.84	86.68	03-Jun-15 12:00:00		10.44	18.92	83.84	88.46
03-Jun-15 13:00:00	03-Jun-15 14:00:00		0.14	0.00	0.00	5.44	2.1	329.7		0.05	0.00	0.00	1.79		10.35	18.92	83.84	86.68	03-Jun-15 13:00:00		10.40	18.92	83.84	88.47
03-Jun-15 14:00:00	03-Jun-15 15:00:00		0.03	0.00	0.00	5.35	2.1	329.7		0.01	0.00	0.00	1.76		10.35	18.92	83.84	86.68	03-Jun-15 14:00:00		10.36	18.92	83.84	88.44
03-Jun-15 15:00:00	03-Jun-15 16:00:00		0.00	0.00	0.00	5.25	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	03-Jun-15 15:00:00		10.35	18.92	83.84	88.41
03-Jun-15 16:00:00	03-Jun-15 17:00:00		0.00	0.00	0.00	5.06	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	03-Jun-15 16:00:00		10.35	18.92	83.84	88.35
03-Jun-15 17:00:00	03-Jun-15 18:00:00		0.00	0.00	0.00	5.00	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	03-Jun-15 17:00:00		10.35	18.92	83.84	88.33
03-Jun-15 18:00:00	03-Jun-15 19:00:00		0.00	0.00	0.00	5.03	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	03-Jun-15 18:00:00		10.35	18.92	83.84	88.34
03-Jun-15 19:00:00	03-Jun-15 20:00:00		0.00	0.00	0.00	5.07	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	03-Jun-15 19:00:00		10.35	18.92	83.84	88.35
03-Jun-15 20:00:00	03-Jun-15 21:00:00		0.00	0.00	0.00	5.19	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	03-Jun-15 20:00:00		10.35	18.92	83.84	88.39
03-Jun-15 21:00:00	03-Jun-15 22:00:00		0.00	0.00	0.00	5.37	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	03-Jun-15 21:00:00		10.35	18.92	83.84	88.45
03-Jun-15 22:00:00	03-Jun-15 23:00:00		0.06	0.00	0.00	5.49	2.1	329.7		0.02	0.00	0.00	1.81		10.35	18.92	83.84	86.68	03-Jun-15 22:00:00		10.37	18.92	83.84	88.49
03-Jun-15 23:00:00	04-Jun-15 00:00:00		0.94	0.00	0.00	5.62	2.1	329.7		0.31	0.00	0.00	1.85		10.35	18.92	83.84	86.68	03-Jun-15 23:00:00		10.66	18.92	83.84	88.53
04-Jun-15 00:00:00	04-Jun-15 01:00:00		5.16	0.00	0.00	5.59	2.1	329.7		1.70	0.00	0.00	1.84		10.35	18.92	83.84	86.68	04-Jun-15 00:00:00		12.05	18.92	83.84	88.52
04-Jun-15 01:00:00	04-Jun-15 02:00:00		17.81	0.00	0.00	5.54	2.1	329.7		5.87	0.00	0.00	1.83		10.35	18.92	83.84	86.68	04-Jun-15 01:00:00		16.22	18.92	83.84	88.51
04-Jun-15 02:00:00	04-Jun-15 03:00:00		13.83	0.00	0.00	5.61	2.1	329.7		4.56	0.00	0.00	1.85		10.35	18.92	83.84	86.68	04-Jun-15 02:00:00		14.91	18.92	83.84	88.53
04-Jun-15 03:00:00	04-Jun-15 04:00:00		13.59	0.00	0.00	5.68	2.1	329.7		4.48	0.00	0.00	1.87		10.35	18.92	83.84	86.68	04-Jun-15 03:00:00		14.83	18.92	83.84	88.55
04-Jun-15 04:00:00	04-Jun-15 05:00:00		12.58	0.00	0.00	5.70	2.1	329.7		4.15	0.00	0.00	1.88		10.35	18.92	83.84	86.68	04-Jun-15 04:00:00		14.50	18.92	83.84	88.56
04-Jun-15 05:00:00	04-Jun-15 06:00:00		11.26	0.00	0.00	5.68	2.1	329.7		3.71	0.00	0.00	1.87		10.35	18.92	83.84	86.68	04-Jun-15 05:00:00		14.06	18.92	83.84	88.55
04-Jun-15 06:00:00	04-Jun-15 07:00:00		1.18	0.00	0.00	5.67	2.1	329.7		0.39	0.00	0.00	1.87		10.35	18.92	83.84	86.68	04-Jun-15 06:00:00		10.74	18.92	83.84	88.55
04-Jun-15 07:00:00	04-Jun-15 08:00:00		1.55	0.00	0.00	5.66	2.1	329.7		0.51	0.00	0.00	1.86		10.35	18.92	83.84	86.68	04-Jun-15 07:00:00		10.86	18.92	83.84	88.54
04-Jun-15 08:00:00	04-Jun-15 09:00:00		6.15	0.00	0.00	5.58	2.1	329.7		2.03	0.00	0.00	1.84		10.35	18.92	83.84	86.68	04-Jun-15 08:00:00		12.38	18.92	83.84	88.52
04-Jun-15 09:00:00	04-Jun-15 10:00:00		0.65	0.00	0.00	5.48	2.1	329.7		0.22	0.00	0.00	1.81		10.35	18.92	83.84	86.68	04-Jun-15 09:00:00		10.57	18.92	83.84	88.49
04-Jun-15 10:00:00	04-Jun-15 11:00:00		124.33	0.00	0.00	5.42	2.1	329.7		40.99	0.00	0.00	1.79		10.35	18.92	83.84	86.68	04-Jun-15 10:00:00		51.34	18.92	83.84	88.47
04-Jun-15 11:00:00	04-Jun-15 12:00:00		281.77	0.00	0.00	5.35	2.1	329.7		92.90	0.00	0.00	1.76		10.35	18.92	83.84	86.68	04-Jun-15 11:00:00		103.25	18.92	83.84	88.44
04-Jun-15 12:00:00	04-Jun-15 13:00:00		282.77	0.00	0.00	5.31	2.1	329.7		93.23

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
06-Jun-15 10:00:00	06-Jun-15 11:00:00		3.33	0.00	0.00	14.10	2.1	329.7		1.10	0.00	0.00	4.65		10.35	18.92	83.84	86.68	06-Jun-15 10:00:00		**11.45**	**18.92**	**83.84**	**91.33**
06-Jun-15 11:00:00	06-Jun-15 12:00:00		0.16	0.00	0.00	3.97	2.1	329.7		0.05	0.00	0.00	1.31		10.35	18.92	83.84	86.68	06-Jun-15 11:00:00		**10.40**	**18.92**	**83.84**	**87.99**
06-Jun-15 12:00:00	06-Jun-15 13:00:00		0.00	0.00	0.00	3.76	2.1	329.7		0.00	0.00	0.00	1.24		10.35	18.92	83.84	86.68	06-Jun-15 12:00:00		**10.35**	**18.92**	**83.84**	**87.92**
06-Jun-15 13:00:00	06-Jun-15 14:00:00		0.00	0.00	0.00	34.76	2.1	329.7		0.00	0.00	0.00	11.46		10.35	18.92	83.84	86.68	06-Jun-15 13:00:00		**10.35**	**18.92**	**83.84**	**98.14**
06-Jun-15 14:00:00	06-Jun-15 15:00:00		0.00	0.00	0.00	3.55	2.1	329.7		0.00	0.00	0.00	1.17		10.35	18.92	83.84	86.68	06-Jun-15 14:00:00		**10.35**	**18.92**	**83.84**	**87.85**
06-Jun-15 15:00:00	06-Jun-15 16:00:00		0.00	0.00	0.00	3.60	2.1	329.7		0.00	0.00	0.00	1.19		10.35	18.92	83.84	86.68	06-Jun-15 15:00:00		**10.35**	**18.92**	**83.84**	**87.87**
06-Jun-15 16:00:00	06-Jun-15 17:00:00		0.00	0.00	0.00	15.66	2.1	329.7		0.00	0.00	0.00	5.16		10.35	18.92	83.84	86.68	06-Jun-15 16:00:00		**10.35**	**18.92**	**83.84**	**91.84**
06-Jun-15 17:00:00	06-Jun-15 18:00:00		0.00	0.00	0.00	3.61	2.1	329.7		0.00	0.00	0.00	1.19		10.35	18.92	83.84	86.68	06-Jun-15 17:00:00		**10.35**	**18.92**	**83.84**	**87.87**
06-Jun-15 18:00:00	06-Jun-15 19:00:00		0.00	0.00	0.00	3.63	2.1	329.7		0.00	0.00	0.00	1.20		10.35	18.92	83.84	86.68	06-Jun-15 18:00:00		**10.35**	**18.92**	**83.84**	**87.88**
06-Jun-15 19:00:00	06-Jun-15 20:00:00		0.00	0.00	0.00	8.98	2.1	329.7		0.00	0.00	0.00	2.96		10.35	18.92	83.84	86.68	06-Jun-15 19:00:00		**10.35**	**18.92**	**83.84**	**89.64**
06-Jun-15 20:00:00	06-Jun-15 21:00:00		0.36	0.00	0.00	4.08	2.1	329.7		0.12	0.00	0.00	1.35		10.35	18.92	83.84	86.68	06-Jun-15 20:00:00		**10.47**	**18.92**	**83.84**	**88.03**
06-Jun-15 21:00:00	06-Jun-15 22:00:00		0.65	0.00	0.00	4.42	2.1	329.7		0.22	0.00	0.00	1.46		10.35	18.92	83.84	86.68	06-Jun-15 21:00:00		**10.57**	**18.92**	**83.84**	**88.14**
06-Jun-15 22:00:00	06-Jun-15 23:00:00		1.27	0.00	0.00	4.75	2.1	329.7		0.42	0.00	0.00	1.56		10.35	18.92	83.84	86.68	06-Jun-15 22:00:00		**10.77**	**18.92**	**83.84**	**88.24**
06-Jun-15 23:00:00	07-Jun-15 00:00:00		1.05	0.00	0.00	5.09	2.1	329.7		0.35	0.00	0.00	1.68		10.35	18.92	83.84	86.68	06-Jun-15 23:00:00		**10.70**	**18.92**	**83.84**	**88.36**
07-Jun-15 00:00:00	07-Jun-15 01:00:00		0.75	0.00	0.00	5.13	2.1	329.7		0.25	0.00	0.00	1.69		10.35	18.92	83.84	86.68	07-Jun-15 00:00:00		**10.60**	**18.92**	**83.84**	**88.37**
07-Jun-15 01:00:00	07-Jun-15 02:00:00		0.44	0.00	0.00	15.80	2.1	329.7		0.15	0.00	0.00	5.21		10.35	18.92	83.84	86.68	07-Jun-15 01:00:00		**10.50**	**18.92**	**83.84**	**91.89**
07-Jun-15 02:00:00	07-Jun-15 03:00:00		0.14	0.00	0.00	5.18	2.1	329.7		0.05	0.00	0.00	1.71		10.35	18.92	83.84	86.68	07-Jun-15 02:00:00		**10.40**	**18.92**	**83.84**	**88.39**
07-Jun-15 03:00:00	07-Jun-15 04:00:00		0.00	0.00	0.00	5.23	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	07-Jun-15 03:00:00		**10.35**	**18.92**	**83.84**	**88.40**
07-Jun-15 04:00:00	07-Jun-15 05:00:00		0.00	0.00	0.00	5.27	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	07-Jun-15 04:00:00		**10.35**	**18.92**	**83.84**	**88.42**
07-Jun-15 05:00:00	07-Jun-15 06:00:00		0.00	0.00	0.00	5.20	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	07-Jun-15 05:00:00		**10.35**	**18.92**	**83.84**	**88.39**
07-Jun-15 06:00:00	07-Jun-15 07:00:00		0.00	0.00	0.00	5.15	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	07-Jun-15 06:00:00		**10.35**	**18.92**	**83.84**	**88.38**
07-Jun-15 07:00:00	07-Jun-15 08:00:00		0.00	0.00	0.00	5.18	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	07-Jun-15 07:00:00		**10.35**	**18.92**	**83.84**	**88.39**
07-Jun-15 08:00:00	07-Jun-15 09:00:00		0.00	0.00	0.00	5.20	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	07-Jun-15 08:00:00		**10.35**	**18.92**	**83.84**	**88.40**
07-Jun-15 09:00:00	07-Jun-15 10:00:00		0.00	0.00	0.00	5.19	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	07-Jun-15 09:00:00		**10.35**	**18.92**	**83.84**	**88.39**
07-Jun-15 10:00:00	07-Jun-15 11:00:00		0.00	0.00	0.00	31.60	2.1	329.7		0.00	0.00	0.00	10.42		10.35	18.92	83.84	86.68	07-Jun-15 10:00:00		**10.35**	**18.92**	**83.84**	**97.10**
07-Jun-15 11:00:00	07-Jun-15 12:00:00		0.00	0.00	0.00	4.91	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	07-Jun-15 11:00:00		**10.35**	**18.92**	**83.84**	**88.30**
07-Jun-15 12:00:00	07-Jun-15 13:00:00		0.00	0.00	0.00	4.62	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	07-Jun-15 12:00:00		**10.35**	**18.92**	**83.84**	**88.20**
07-Jun-15 13:00:00	07-Jun-15 14:00:00		0.00	0.00	0.00	9.27	2.1	329.7		0.00	0.00	0.00	3.06		10.35	18.92	83.84	86.68	07-Jun-15 13:00:00		**10.35**	**18.92**	**83.84**	**89.74**
07-Jun-15 14:00:00	07-Jun-15 15:00:00		0.00	0.00	0.00	4.25	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	07-Jun-15 14:00:00		**10.35**	**18.92**	**83.84**	**88.08**
07-Jun-15 15:00:00	07-Jun-15 16:00:00		0.00	0.00	0.00	4.19	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	07-Jun-15 15:00:00		**10.35**	**18.92**	**83.84**	**88.06**
07-Jun-15 16:00:00	07-Jun-15 17:00:00		0.69	0.00	0.00	4.13	2.1	329.7		0.23	0.00	0.00	1.36		10.35	18.92	83.84	86.68	07-Jun-15 16:00:00		**10.58**	**18.92**	**83.84**	**88.04**
07-Jun-15 17:00:00	07-Jun-15 18:00:00		0.00	0.00	0.00	4.11	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	07-Jun-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.04**
07-Jun-15 18:00:00	07-Jun-15 19:00:00		0.00	0.00	0.00	4.25	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	07-Jun-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.08**
07-Jun-15 19:00:00	07-Jun-15 20:00:00		0.00	0.00	0.00	4.41	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	07-Jun-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.14**
07-Jun-15 20:00:00	07-Jun-15 21:00:00		0.00	0.00	0.00	4.57	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	07-Jun-15 20:00:00		**10.35**	**18.92**	**83.84**	**88.19**
07-Jun-15 21:00:00	07-Jun-15 22:00:00		0.00	0.00	0.00	4.63	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	07-Jun-15 21:00:00		**10.35**	**18.92**	**83.84**	**88.21**
07-Jun-15 22:00:00	07-Jun-15 23:00:00		0.11	0.00	0.00	4.66	2.1	329.7		0.03	0.00	0.00	1.54		10.35	18.92	83.84	86.68	07-Jun-15 22:00:00		**10.38**	**18.92**	**83.84**	**88.22**
07-Jun-15 23:00:00	08-Jun-15 00:00:00		0.00	0.00	0.00	4.74	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	07-Jun-15 23:00:00		**10.35**	**18.92**	**83.84**	**88.24**
08-Jun-15 00:00:00	08-Jun-15 01:00:00		0.00	0.00	0.00	4.82	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	08-Jun-15 00:00:00		**10.35**	**18.92**	**83.84**	**88.27**
08-Jun-15 01:00:00	08-Jun-15 02:00:00		0.00	0.00	0.00	4.88	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	08-Jun-15 01:00:00		**10.35**	**18.92**	**83.84**	**88.29**
08-Jun-15 02:00:00	08-Jun-15 03:00:00		3.69	0.00	0.00	4.92	2.1	329.7		1.22	0.00	0.00	1.62		10.35	18.92	83.84	86.68	08-Jun-15 02:00:00		**11.57**	**18.92**	**83.84**	**88.30**
08-Jun-15 03:00:00	08-Jun-15 04:00:00		3.92	0.00	0.00	4.96	2.1	329.7		1.29	0.00	0.00	1.64		10.35	18.92	83.84	86.68	08-Jun-15 03:00:00		**11.64**	**18.92**	**83.84**	**88.32**
08-Jun-15 04:00:00	08-Jun-15 05:00:00		3.81	0.00	0.00	5.01	2.1	329.7		1.26	0.00	0.00	1.65		10.35	18.92	83.84	86.68	08-Jun-15 04:00:00		**11.61**	**18.92**	**83.84**	**88.33**
08-Jun-15 05:00:00	08-Jun-15 06:00:00		0.00	0.00	0.00	4.95	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	08-Jun-15 05:00:00		**10.35**	**18.92**	**83.84**	**88.31**
08-Jun-15 06:00:00	08-Jun-15 07:00:00		0.00	0.00	0.00	4.79	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	08-Jun-15 06:00:00		**10.35**	**18.92**	**83.84**	**88.26**
08-Jun-15 07:00:00	08-Jun-15 08:00:00		0.00	0.00	0.00	4.68	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	08-Jun-15 07:00:00		**10.35**	**18.92**	**83.84**	**88.22**
08-Jun-15 08:00:00	08-Jun-15 09:00:00		0.05	0.00	0.00	4.58	2.1	329.7		0.02	0.00	0.00	1.51		10.35	18.92	83.84	86.68	08-Jun-15 08:00:00		**10.37**	**18.92**	**83.84**	**88.19**
08-Jun-15 09:00:00	08-Jun-15 10:00:00		0.58	0.00	0.00	4.49	2.1	329.7		0.19	0.00	0.00	1.48		10.35	18.92	83.84	86.68	08-Jun-15 09:00:00		**10.54**	**18.92**	**83.84**	**88.16**
08-Jun-15 10:00:00	08-Jun-15 11:00:00		1.23	0.00	0.00	4.39	2.1	329.7		0.40	0.00	0.00	1.45		10.35	18.92	83.84	86.68	08-Jun-15 10:00:00		**10.75**	**18.92**	**83.84**	**88.13**
08-Jun-15 11:00:00	08-Jun-15 12:00:00		2.45	0.00	0.00	4.28	2.1	329.7		0.81	0.00	0.00	1.41		10.35	18.92	83.84	86.68	08-Jun-15 11:00:00		**11.16**	**18.92**	**83.84**	**88.09**
08-Jun-15 12:00:00	08-Jun-15 13:00:00		2.26	0.00	0.00	4.18	2.1	329.7		0.75	0.00	0.00	1.38		10.35	18.92	83.84	86.68	08-Jun-15 12:00:00		**11.10**	**18.92**	**83.84**	**88.06**
08-Jun-15 13:00:00	08-Jun-15 14:00:00		3.96	0.00	0.00	4.11	2.1	329.7		1.31	0.00	0.00	1.36		10.35	18.92	83.84	86.68	08-Jun-15 13:00:00		**11.66**	**18.92**	**83.84**	**88.04**
08-Jun-15 14:00:00	08-Jun-15 15:00:00		0.26	0.00	0.00	4.27	2.1	329.7		0.08	0.00	0.00	1.41		10.35	18.92	83.84	86.68	08-Jun-15 14:00:00		**10.43**	**18.92**	**83.84**	**88.09**
08-Jun-15 15:00:00	08-Jun-15 16:00:00		0.00	4.78	0.00	14.96	2.1	329.7		0.00	1.57	0.00	4.93		10.35	18.92	83.84	86.68	08-Jun-15 15:00:00		**10.35**	**20.49**	**83.84**	**91.61**
08-Jun-15 16:00:00	08-Jun-15 17:00:00		0.00	0.00	0.00	114.07	2.1	329.7		0.00	0.00	0.00	37.61		10.35	18.92	83.84	86.68	08-Jun-15 16:00:00		**10.35**	**18.92**	**83.84**	**124.29**
08-Jun-15 17:00:00	08-Jun-15 18:00:00		0.10	0.00	0.00	4.15	2.1	329.7		0.03	0.00	0.00	1.37		10.35	18.92	83.84	86.68	08-Jun-15 17:00:00		**10.38**	**18.92**	**83.84**	**88.05**
08-Jun-15 18:00:00	08-Jun-15 19:00:00		0.00	0.00	0.00	4.17	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	08-Jun-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.06**
08-Jun-15 19:00:00	08-Jun-15 20:00:00		0.00	0.00	0.00	4.19	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	08-Jun-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.06**
08-Jun-15 20:00:00	08-Jun-15 21:00:00		0.00	0.00	0.00	4.17	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	08-Jun-15 20:00:00		**10.35**	**18.92**	**83.84**	**88.06**
08-Jun-15 21:00:00	08-Jun-15 22:00:00		0.01	0.00	0.00	4.27	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	08-Jun-15 21:00:00		**10.35**	**18.92**	**83.84**	**88.09**
08-Jun-15 22:00:00	08-Jun-15 23:00:00		0.05	0.00	0.00	4.38	2.1	329.7		0.02	0.00	0.00	1.44		10.35	18.92	83.84	86.68	08-Jun-15 22:00:00		**10.37**	**18.92**	**83.84**	**88.12**
08-Jun-15 23:00:00	09-Jun-15 00:00:00		0.11	0.00	0.00	4.49	2.1	329.7		0.03	0.00	0.00	1.48		10.35	18.92	83.84	86.68	08-Jun-15 23:00:00		**10.38**	**18.92**	**83.84**	**88.16**
09-Jun-15 00:00:00	09-Jun-15 01:00:00		0.16	0.00	0.00	4.64	2.1	329.7		0.05	0.00	0.00	1.53		10.35	18.92	83.84	86.68	09-Jun-15 00:00:00		**10.40**	**18.92**	**83.84**	**88.21**
09-Jun-15 01:00:00	09-Jun-15 02:00:00		1.27	0.00	0.00	4.85	2.1	329.7		0.42	0.00	0.00	1.60		10.35	18.92	83.84	86.68	09-Jun-15 01:00:00		**10.77**	**18.92**	**83.84**	**88.28**
09-Jun-15 02:00:00	09-Jun-15 03:00:00		0.38	0.00	0.00	5.06	2.1	329.7		0.12	0.00	0.00	1.67		10.35	18.92	83.84	86.68	09-Jun-15 02:00:00		**10.47**	**18.92**	**83.84**	**88.35**
09-Jun-15 03:00:00	09-Jun-15 04:00:00		0.83	0.00	0.00	5.27	2.1	329.7		0.27	0.00	0.00	1.74		10.35	18.92	83.84	86.68	09-Jun-15 03:00:00		**10.62**	**18.92**	**83.84**	**88.42**
09-Jun-15 04:00:00	09-Jun-15 05:00:00		0.78	0.00	0.00	5.23	2.1	329.7		0.26	0.00	0.00	1.72		10.35	18.92	83.84	86.68	09-Jun-15 04:00:00		**10.61**	**18.92**	**83.84**	**88.40**
09-Jun-15 05:00:00	09-Jun-15 06:00:00		0.00	0.00	0.00	5.13	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	09-Jun-15 05:00:00		**10.35**	**18.92**	**83.84**	**88.37**
09-Jun-15 06:00:00	09-Jun-15 07:00:00		0.00	0.00	0.00	5.04	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	09-Jun-15 06:00:00		**10.35**	**18.92**	**83.84**	**88.34**
09-Jun-15 07:00:00	09-Jun-15 08:00:00		0.00	0.00	0.00	4.95	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	09-Jun-15 07:00:00		**10.35**	**18.92**	**83.84**	**88.31**
09-Jun-15 08:00:00	09-Jun-15 09:00:00		0.00	0.00	0.00	4.76	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	09-Jun-15 08:00:00		**10.35**	**18.92**	**83.84**	**88.25**
09-Jun-15 09:00:00	09-Jun-15 10:00:00		0.26	0.00	0.00	4.64	2.1	329.7		0.09	0.00	0.00	1.53		10.35	18.92	83.84	86.68	09-Jun-15 09:00:00		**10.44**	**18.92**	**83.84**	**88.21**
09-Jun-15 10:00:00	09-Jun-15 11:00:00		0.99	0.00	0.00	4.52	2.1	329.7		0.33	0.00	0.00	1.49		10.35	18.92	83.84	86.68	09-Jun-15 10:00:00		**10.68**	**18.92**	**83.84**	**88.17**
09-Jun-15 11:00:00	09-Jun-15 12:00:00		0.00	0.00	0.00	4.41	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	09-Jun-15 11:00:00		**10.35**	**18.92**	**83.84**	**88.13**
09-Jun-15 12:00:00	09-Jun-15 13:00:00		1.25	0.00	0.00	4.31	2.1	329.7		0.41	0.00	0.00	1.42		10.35	18.92	83.84	86.68	09-Jun-15 12:00:00		**10.76**	**18.92**	**83.84**	**88.10**
09-Jun-15 13:00:00	09-Jun-15 14:00:00		0.00	0.00	0.00	4.23	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	09-Jun-15 13:00:00		**10.35**	**18.92**	**83.84**	**88.07**
09-Jun-15 14:00:00	09-Jun-15 15:00:00		0.00	0.00	0.00	4.15	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	09-Jun-15 14:00:00		**10.35**	**18.92**	**83.84**	**88.05**
09-Jun-15 15:00:00	09-Jun-15 16:00:00		0.00	0.00	0.00	16.78	2.1	329.7		0.00	0.00	0.00	5.53		10.35	18.92	83.84	86.68	09-Jun-15 15:00:00		**10.35**	**18.92**	**83.84**	**92.21**
09-Jun-15 16:00:00	09-Jun-15 17:00:00		0.00	0.00	0.00	4.12	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	09-Jun-15 16:00:00		**10.35**	**18.92**	**83.84**	**88.04**
09-Jun-15 17:00:00	09-Jun-15 18:00:00		0.00	0.00	0.00	4.07	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	09-Jun-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.02**
09-Jun-15 18:00:00	09-Jun-15 19:00:00		0.00	0.00	0.00	4.03	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	09-Jun-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.01**
09-Jun-15 19:00:00	09-Jun-15 20:00:00		0.00	0.00	0.00	4.32	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	09-Jun-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.11**
09-Jun-15 20:00:00	09-Jun-15 21:00:00		0.03	0.00	0.00	36.82	2.1	329.7		0.01	0.00	0.00	12.14		10.35	18.92	83.84	86.68	09-Jun-15 20:00:00		**10.36**	**18.92**	**83.84**	**98.82**
09-Jun-15 21:00:00	09-Jun-15 22:00:00		0.14	0.00	0.00	4.89	2.1	329.7		0.05	0.00	0.00	1.61		10.35	18.92	83.84	86.68	09-Jun-15 21:00:00		**10.40**	**18.92**	**83.84**	**88.29**
09-Jun-15 22:00:00	09-Jun-15 23:00:00		0.00	0.00	0.00	4.81	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	09-Jun-15 22:00:00		**10.35**	**18.92**	**83.84**	**88.27**
09-Jun-15 23:00:00	10-Jun-15 00:00:00		0.00	0.00	0.00	59.56	2.1	329.7		0.00	0.00	0.00	19.64		10.35	18.92	83.84	86.68	09-Jun-15 23:00:00		**10.35**	**18.92**	**83.84**	**106.32**
10-Jun-15 00:00:00	10-Jun-15 01:00:00		0.00	0.00	0.00	4.91	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	10-Jun-15 00:00:00		**10.35**	**18.92**	**83.84**	**88.30**
10-Jun-15 01:00:00	10-Jun-15 02:00:00		0.90	0.00	0.00	4.99	2.1	329.7		0.30	0.00	0.00	1.65		10.35	18.92	83.84	86.68	10-Jun-15 01:00:00		**10.65**	**18.92**	**83.84**	**88.33**
10-Jun-15 02:00:00	10-Jun-15 03:00:00		0.25	0.00	0.00	5.07	2.1	329.7		0.08	0.00	0.00	1.67		10.35	18.92	83.84	86.68	10-Jun-15 02:00:00		**10.43**	**18.92**	**83.84**	**88.35**
10-Jun-15 03:00:00	10-Jun-15 04:00:00		0.11	0.00	0.00	5.14	2.1	329.7		0.04	0.00	0.00	1.70		10.35	18.92	83.84	86.68	10-Jun-15 03:00:00		**10.39**	**18.92**	**83.84**	**88.38**
10-Jun-15 04:00:00	10-Jun-15 05:00:00		0.06	0.00	0.00	5.15	2.1	329.7		0.02	0.00	0.00	1.70		10.35	18.92	83.84	86.68	10-Jun-15 04:00:00		**10.37**	**18.92**	**83.84**	**88.38**
10-Jun-15 05:00:00	10-Jun-15 06:00:00		0.08	0.00	0.00	5.11	2.1	329.7		0.03	0.00	0.00	1.68		10.35	18.92	83.84	86.68	10-Jun-15 05:00:00		**10.38**	**18.92**	**83.84**	**88.36**
10-Jun-15 06:00:00	10-Jun-15 07:00:00		0.00	0.00	0.00	5.06	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	10-Jun-15 06:00:00		**10.35**	**18.92**	**83.84**	**88.35**
10-Jun-15 07:00:00	10-Jun-15 08:00:00		0.00	0.00	0.00	5.

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
12-Jun-15 05:00:00	12-Jun-15 06:00:00		0.00	0.00	0.00	4.69	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	12-Jun-15 05:00:00		10.35	18.92	83.84	88.22
12-Jun-15 06:00:00	12-Jun-15 07:00:00		0.00	0.00	0.00	4.72	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	12-Jun-15 06:00:00		10.35	18.92	83.84	88.24
12-Jun-15 07:00:00	12-Jun-15 08:00:00		0.00	0.00	0.00	4.76	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	12-Jun-15 07:00:00		10.35	18.92	83.84	88.25
12-Jun-15 08:00:00	12-Jun-15 09:00:00		0.00	0.00	0.00	4.90	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	12-Jun-15 08:00:00		10.35	18.92	83.84	88.30
12-Jun-15 09:00:00	12-Jun-15 10:00:00		0.00	0.00	0.00	18.07	2.1	329.7		0.00	0.00	0.00	5.96		10.35	18.92	83.84	86.68	12-Jun-15 09:00:00		10.35	18.92	83.84	92.64
12-Jun-15 10:00:00	12-Jun-15 11:00:00		0.00	0.00	0.00	4.76	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	12-Jun-15 10:00:00		10.35	18.92	83.84	88.25
12-Jun-15 11:00:00	12-Jun-15 12:00:00		0.12	0.00	0.00	4.67	2.1	329.7		0.04	0.00	0.00	1.54		10.35	18.92	83.84	86.68	12-Jun-15 11:00:00		10.39	18.92	83.84	88.22
12-Jun-15 12:00:00	12-Jun-15 13:00:00		0.00	0.00	0.00	13.25	2.1	329.7		0.00	0.00	0.00	4.37		10.35	18.92	83.84	86.68	12-Jun-15 12:00:00		10.35	18.92	83.84	91.05
12-Jun-15 13:00:00	12-Jun-15 14:00:00		0.00	0.00	0.00	4.38	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	12-Jun-15 13:00:00		10.35	18.92	83.84	88.13
12-Jun-15 14:00:00	12-Jun-15 15:00:00		0.00	0.00	0.00	4.23	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	12-Jun-15 14:00:00		10.35	18.92	83.84	88.08
12-Jun-15 15:00:00	12-Jun-15 16:00:00		0.00	0.00	0.00	17.42	2.1	329.7		0.00	0.00	0.00	5.74		10.35	18.92	83.84	86.68	12-Jun-15 15:00:00		10.35	18.92	83.84	92.42
12-Jun-15 16:00:00	12-Jun-15 17:00:00		0.00	0.00	0.00	4.10	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	12-Jun-15 16:00:00		10.35	18.92	83.84	88.03
12-Jun-15 17:00:00	12-Jun-15 18:00:00		0.00	0.00	0.00	4.12	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	12-Jun-15 17:00:00		10.35	18.92	83.84	88.04
12-Jun-15 18:00:00	12-Jun-15 19:00:00		0.00	0.00	0.00	6.34	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	12-Jun-15 18:00:00		10.35	18.92	83.84	88.77
12-Jun-15 19:00:00	12-Jun-15 20:00:00		0.00	0.00	0.00	4.17	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	12-Jun-15 19:00:00		10.35	18.92	83.84	88.05
12-Jun-15 20:00:00	12-Jun-15 21:00:00		0.00	0.00	0.00	4.16	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	12-Jun-15 20:00:00		10.35	18.92	83.84	88.05
12-Jun-15 21:00:00	12-Jun-15 22:00:00		0.00	0.00	0.00	4.16	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	12-Jun-15 21:00:00		10.35	18.92	83.84	88.05
12-Jun-15 22:00:00	12-Jun-15 23:00:00		0.00	0.00	0.00	4.14	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	12-Jun-15 22:00:00		10.35	18.92	83.84	88.05
12-Jun-15 23:00:00	13-Jun-15 00:00:00		0.00	0.00	0.00	4.24	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	12-Jun-15 23:00:00		10.35	18.92	83.84	88.08
13-Jun-15 00:00:00	13-Jun-15 01:00:00		0.00	0.00	0.00	21.73	2.1	329.7		0.00	0.00	0.00	7.16		10.35	18.92	83.84	86.68	13-Jun-15 00:00:00		10.35	18.92	83.84	93.84
13-Jun-15 01:00:00	13-Jun-15 02:00:00		0.00	0.00	0.00	4.53	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	13-Jun-15 01:00:00		10.35	18.92	83.84	88.17
13-Jun-15 02:00:00	13-Jun-15 03:00:00		0.00	0.00	0.00	4.60	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	13-Jun-15 02:00:00		10.35	18.92	83.84	88.20
13-Jun-15 03:00:00	13-Jun-15 04:00:00		0.00	0.00	0.00	5.84	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	13-Jun-15 03:00:00		10.35	18.92	83.84	88.61
13-Jun-15 04:00:00	13-Jun-15 05:00:00		0.00	0.00	0.00	4.66	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	13-Jun-15 04:00:00		10.35	18.92	83.84	88.22
13-Jun-15 05:00:00	13-Jun-15 06:00:00		0.00	0.00	0.00	4.71	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	13-Jun-15 05:00:00		10.35	18.92	83.84	88.23
13-Jun-15 06:00:00	13-Jun-15 07:00:00		1.07	0.00	0.00	4.76	2.1	329.7		0.35	0.00	0.00	1.57		10.35	18.92	83.84	86.68	13-Jun-15 06:00:00		10.70	18.92	83.84	88.25
13-Jun-15 07:00:00	13-Jun-15 08:00:00		1.21	0.00	0.00	4.83	2.1	329.7		0.40	0.00	0.00	1.59		10.35	18.92	83.84	86.68	13-Jun-15 07:00:00		10.75	18.92	83.84	88.27
13-Jun-15 08:00:00	13-Jun-15 09:00:00		0.81	0.00	0.00	4.94	2.1	329.7		0.27	0.00	0.00	1.63		10.35	18.92	83.84	86.68	13-Jun-15 08:00:00		10.62	18.92	83.84	88.31
13-Jun-15 09:00:00	13-Jun-15 10:00:00		0.50	0.00	0.00	30.28	2.1	329.7		0.16	0.00	0.00	9.98		10.35	18.92	83.84	86.68	13-Jun-15 09:00:00		10.51	18.92	83.84	96.66
13-Jun-15 10:00:00	13-Jun-15 11:00:00		0.18	0.00	0.00	4.78	2.1	329.7		0.06	0.00	0.00	1.57		10.35	18.92	83.84	86.68	13-Jun-15 10:00:00		10.41	18.92	83.84	88.25
13-Jun-15 11:00:00	13-Jun-15 12:00:00		0.00	0.00	0.00	4.48	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	13-Jun-15 11:00:00		10.35	18.92	83.84	88.16
13-Jun-15 12:00:00	13-Jun-15 13:00:00		0.00	0.00	0.00	5.74	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	13-Jun-15 12:00:00		10.35	18.92	83.84	88.57
13-Jun-15 13:00:00	13-Jun-15 14:00:00		0.00	0.00	0.00	4.01	2.1	329.7		0.00	0.00	0.00	1.32		10.35	18.92	83.84	86.68	13-Jun-15 13:00:00		10.35	18.92	83.84	88.00
13-Jun-15 14:00:00	13-Jun-15 15:00:00		0.00	0.00	0.00	3.89	2.1	329.7		0.00	0.00	0.00	1.28		10.35	18.92	83.84	86.68	13-Jun-15 14:00:00		10.35	18.92	83.84	87.96
13-Jun-15 15:00:00	13-Jun-15 16:00:00		1.45	0.00	0.00	3.77	2.1	329.7		0.48	0.00	0.00	1.24		10.35	18.92	83.84	86.68	13-Jun-15 15:00:00		10.83	18.92	83.84	87.92
13-Jun-15 16:00:00	13-Jun-15 17:00:00		1.88	0.00	0.00	3.65	2.1	329.7		0.62	0.00	0.00	1.20		10.35	18.92	83.84	86.68	13-Jun-15 16:00:00		10.97	18.92	83.84	87.88
13-Jun-15 17:00:00	13-Jun-15 18:00:00		8.46	0.00	0.00	3.66	2.1	329.7		2.79	0.00	0.00	1.21		10.35	18.92	83.84	86.68	13-Jun-15 17:00:00		13.14	18.92	83.84	87.89
13-Jun-15 18:00:00	13-Jun-15 19:00:00		0.00	0.00	0.00	12.75	2.1	329.7		0.00	0.00	0.00	4.20		10.35	18.92	83.84	86.68	13-Jun-15 18:00:00		10.35	18.92	83.84	90.88
13-Jun-15 19:00:00	13-Jun-15 20:00:00		0.00	0.00	0.00	3.75	2.1	329.7		0.00	0.00	0.00	1.24		10.35	18.92	83.84	86.68	13-Jun-15 19:00:00		10.35	18.92	83.84	87.92
13-Jun-15 20:00:00	13-Jun-15 21:00:00		0.00	0.00	0.00	3.92	2.1	329.7		0.00	0.00	0.00	1.29		10.35	18.92	83.84	86.68	13-Jun-15 20:00:00		10.35	18.92	83.84	87.97
13-Jun-15 21:00:00	13-Jun-15 22:00:00		0.00	0.00	0.00	6.80	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	13-Jun-15 21:00:00		10.35	18.92	83.84	88.92
13-Jun-15 22:00:00	13-Jun-15 23:00:00		0.00	0.00	0.00	4.19	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	13-Jun-15 22:00:00		10.35	18.92	83.84	88.06
13-Jun-15 23:00:00	14-Jun-15 00:00:00		1.05	0.00	0.00	4.36	2.1	329.7		0.35	0.00	0.00	1.44		10.35	18.92	83.84	86.68	13-Jun-15 23:00:00		10.70	18.92	83.84	88.12
14-Jun-15 00:00:00	14-Jun-15 01:00:00		0.81	0.00	0.00	4.54	2.1	329.7		0.27	0.00	0.00	1.50		10.35	18.92	83.84	86.68	14-Jun-15 00:00:00		10.62	18.92	83.84	88.18
14-Jun-15 01:00:00	14-Jun-15 02:00:00		0.23	0.00	0.00	13.34	2.1	329.7		0.08	0.00	0.00	4.40		10.35	18.92	83.84	86.68	14-Jun-15 01:00:00		10.43	18.92	83.84	91.08
14-Jun-15 02:00:00	14-Jun-15 03:00:00		0.00	0.00	0.00	4.95	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	14-Jun-15 02:00:00		10.35	18.92	83.84	88.31
14-Jun-15 03:00:00	14-Jun-15 04:00:00		0.00	0.00	0.00	5.03	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	14-Jun-15 03:00:00		10.35	18.92	83.84	88.34
14-Jun-15 04:00:00	14-Jun-15 05:00:00		0.00	0.00	0.00	5.11	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	14-Jun-15 04:00:00		10.35	18.92	83.84	88.37
14-Jun-15 05:00:00	14-Jun-15 06:00:00		0.00	0.00	0.00	5.11	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	14-Jun-15 05:00:00		10.35	18.92	83.84	88.37
14-Jun-15 06:00:00	14-Jun-15 07:00:00		0.00	0.00	0.00	4.93	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	14-Jun-15 06:00:00		10.35	18.92	83.84	88.30
14-Jun-15 07:00:00	14-Jun-15 08:00:00		0.00	0.00	0.00	4.74	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	14-Jun-15 07:00:00		10.35	18.92	83.84	88.24
14-Jun-15 08:00:00	14-Jun-15 09:00:00		0.00	0.00	0.00	4.56	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	14-Jun-15 08:00:00		10.35	18.92	83.84	88.18
14-Jun-15 09:00:00	14-Jun-15 10:00:00		0.00	0.00	0.00	4.41	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	14-Jun-15 09:00:00		10.35	18.92	83.84	88.13
14-Jun-15 10:00:00	14-Jun-15 11:00:00		0.14	0.00	0.00	4.15	2.1	329.7		0.05	0.00	0.00	1.37		10.35	18.92	83.84	86.68	14-Jun-15 10:00:00		10.40	18.92	83.84	88.05
14-Jun-15 11:00:00	14-Jun-15 12:00:00		0.22	0.00	0.00	3.89	2.1	329.7		0.07	0.00	0.00	1.28		10.35	18.92	83.84	86.68	14-Jun-15 11:00:00		10.42	18.92	83.84	87.96
14-Jun-15 12:00:00	14-Jun-15 13:00:00		0.07	0.00	0.00	3.63	2.1	329.7		0.02	0.00	0.00	1.20		10.35	18.92	83.84	86.68	14-Jun-15 12:00:00		10.37	18.92	83.84	87.88
14-Jun-15 13:00:00	14-Jun-15 14:00:00		0.00	0.00	0.00	15.55	2.1	329.7		0.00	0.00	0.00	5.13		10.35	18.92	83.84	86.68	14-Jun-15 13:00:00		10.35	18.92	83.84	91.81
14-Jun-15 14:00:00	14-Jun-15 15:00:00		0.00	0.00	0.00	3.48	2.1	329.7		0.00	0.00	0.00	1.15		10.35	18.92	83.84	86.68	14-Jun-15 14:00:00		10.35	18.92	83.84	87.83
14-Jun-15 15:00:00	14-Jun-15 16:00:00		0.00	0.00	0.00	3.49	2.1	329.7		0.00	0.00	0.00	1.15		10.35	18.92	83.84	86.68	14-Jun-15 15:00:00		10.35	18.92	83.84	87.83
14-Jun-15 16:00:00	14-Jun-15 17:00:00		1.40	0.00	0.00	3.50	2.1	329.7		0.46	0.00	0.00	1.15		10.35	18.92	83.84	86.68	14-Jun-15 16:00:00		10.81	18.92	83.84	87.83
14-Jun-15 17:00:00	14-Jun-15 18:00:00		0.00	0.00	0.00	3.51	2.1	329.7		0.00	0.00	0.00	1.16		10.35	18.92	83.84	86.68	14-Jun-15 17:00:00		10.35	18.92	83.84	87.84
14-Jun-15 18:00:00	14-Jun-15 19:00:00		0.00	0.00	0.00	17.55	2.1	329.7		0.00	0.00	0.00	5.79		10.35	18.92	83.84	86.68	14-Jun-15 18:00:00		10.35	18.92	83.84	92.47
14-Jun-15 19:00:00	14-Jun-15 20:00:00		0.00	0.00	0.00	3.59	2.1	329.7		0.00	0.00	0.00	1.18		10.35	18.92	83.84	86.68	14-Jun-15 19:00:00		10.35	18.92	83.84	87.86
14-Jun-15 20:00:00	14-Jun-15 21:00:00		76.50	0.00	0.00	3.71	2.1	329.7		25.22	0.00	0.00	1.22		10.35	18.92	83.84	86.68	14-Jun-15 20:00:00		35.57	18.92	83.84	87.90
14-Jun-15 21:00:00	14-Jun-15 22:00:00		527.02	0.00	0.00	16.81	2.1	329.7		173.76	0.00	0.00	5.54		10.35	18.92	83.84	86.68	14-Jun-15 21:00:00		184.11	18.92	83.84	92.22
14-Jun-15 22:00:00	14-Jun-15 23:00:00		525.94	0.00	0.00	4.00	2.1	329.7		173.40	0.00	0.00	1.32		10.35	18.92	83.84	86.68	14-Jun-15 22:00:00		183.75	18.92	83.84	88.00
14-Jun-15 23:00:00	15-Jun-15 00:00:00		534.42	0.00	0.00	4.14	2.1	329.7		176.20	0.00	0.00	1.36		10.35	18.92	83.84	86.68	14-Jun-15 23:00:00		186.55	18.92	83.84	88.04
15-Jun-15 00:00:00	15-Jun-15 01:00:00		521.15	0.00	0.00	4.27	2.1	329.7		171.82	0.00	0.00	1.41		10.35	18.92	83.84	86.68	15-Jun-15 00:00:00		182.17	18.92	83.84	88.09
15-Jun-15 01:00:00	15-Jun-15 02:00:00		518.34	0.00	0.00	4.49	2.1	329.7		170.90	0.00	0.00	1.48		10.35	18.92	83.84	86.68	15-Jun-15 01:00:00		181.25	18.92	83.84	88.16
15-Jun-15 02:00:00	15-Jun-15 03:00:00		574.52	0.00	0.00	4.64	2.1	329.7		189.42	0.00	0.00	1.53		10.35	18.92	83.84	86.68	15-Jun-15 02:00:00		199.77	18.92	83.84	88.21
15-Jun-15 03:00:00	15-Jun-15 04:00:00		527.11	0.00	0.00	4.68	2.1	329.7		173.79	0.00	0.00	1.54		10.35	18.92	83.84	86.68	15-Jun-15 03:00:00		184.14	18.92	83.84	88.22
15-Jun-15 04:00:00	15-Jun-15 05:00:00		525.84	0.00	0.00	4.72	2.1	329.7		173.37	0.00	0.00	1.55		10.35	18.92	83.84	86.68	15-Jun-15 04:00:00		183.72	18.92	83.84	88.23
15-Jun-15 05:00:00	15-Jun-15 06:00:00		460.71	7.32	0.00	4.74	2.1	329.7		151.90	2.41	0.00	1.56		10.35	18.92	83.84	86.68	15-Jun-15 05:00:00		162.25	21.33	83.84	88.24
15-Jun-15 06:00:00	15-Jun-15 07:00:00		130.91	182.76	0.00	16.07	2.1	329.7		43.16	60.26	0.00	5.30		10.35	18.92	83.84	86.68	15-Jun-15 06:00:00		53.51	79.18	83.84	91.98
15-Jun-15 07:00:00	15-Jun-15 08:00:00		0.05	280.43	0.00	4.53	2.1	329.7		0.02	92.46	0.00	1.49		10.35	18.92	83.84	86.68	15-Jun-15 07:00:00		10.37	111.38	83.84	88.17
15-Jun-15 08:00:00	15-Jun-15 09:00:00		0.23	257.02	0.00	4.35	2.1	329.7		0.07	84.74	0.00	1.43		10.35	18.92	83.84	86.68	15-Jun-15 08:00:00		10.42	103.66	83.84	88.11
15-Jun-15 09:00:00	15-Jun-15 10:00:00		0.50	0.00	0.00	4.17	2.1	329.7		0.17	0.00	0.00	1.37		10.35	18.92	83.84	86.68	15-Jun-15 09:00:00		10.52	18.92	83.84	88.05
15-Jun-15 10:00:00	15-Jun-15 11:00:00		0.36	0.00	0.00	4.00	2.1	329.7		0.12	0.00	0.00	1.32		10.35	18.92	83.84	86.68	15-Jun-15 10:00:00		10.47	18.92	83.84	88.00
15-Jun-15 11:00:00	15-Jun-15 12:00:00		0.00	0.00	0.00	3.89	2.1	329.7		0.00	0.00	0.00	1.28		10.35	18.92	83.84	86.68	15-Jun-15 11:00:00		10.35	18.92	83.84	87.96
15-Jun-15 12:00:00	15-Jun-15 13:00:00		0.00	0.00	0.00	3.77	2.1	329.7		0.00	0.00	0.00	1.24		10.35	18.92	83.84	86.68	15-Jun-15 12:00:00		10.35	18.92	83.84	87.92
15-Jun-15 13:00:00	15-Jun-15 14:00:00		0.89	0.00	0.00	3.65	2.1	329.7		0.29	0.00	0.00	1.20		10.35	18.92	83.84	86.68	15-Jun-15 13:00:00		10.64	18.92	83.84	87.88
15-Jun-15 14:00:00	15-Jun-15 15:00:00		0.72	0.00	0.00	3.51	2.1	329.7		0.24	0.00	0.00	1.16		10.35	18.92	83.84	86.68	15-Jun-15 14:00:00		10.59	18.92	83.84	87.84
15-Jun-15 15:00:00	15-Jun-15 16:00:00		12.88	0.00	0.00	3.37	2.1	329.7		4.25	0.00	0.00	1.11		10.35	18.92	83.84	86.68	15-Jun-15 15:00:00		14.60	18.92	83.84	87.79
15-Jun-15 16:00:00	15-Jun-15 17:00:00		2.44	0.00	0.00	3.40	2.1	329.7		0.80	0.00	0.00	1.12		10.35	18.92	83.84	86.68	15-Jun-15 16:00:00		11.15	18.92	83.84	87.80
15-Jun-15 17:00:00	15-Jun-15 18:00:00		1.03	0.00	0.00	3.43	2.1	329.7		0.34	0.00	0.00	1.13		10.35	18.92	83.84	86.68	15-Jun-15 17:00:00		10.69	18.92	83.84	87.81
15-Jun-15 18:00:00	15-Jun-15 19:00:00		2.13	0.00	0.00	3.47	2.1	329.7		0.70	0.00	0.00	1.14		10.35	18.92	83.84	86.68	15-Jun-15 18:00:00		11.05	18.92	83.84	87.82
15-Jun-15 19:00:00	15-Jun-15 20:00:00		0.00	0.00	0.00	3.60	2.1	329.7		0.00	0.00	0.00	1.19		10.35	18.92	83.84	86.68	15-Jun-15 19:00:00		10.35	18.92	83.84	87.87
15-Jun-15 20:00:00	15-Jun-15 21:00:00		0.00	0.00	0.00	3.74	2.1	329.7		0.00	0.00	0.00	1.23		10.35	18.92	83.84	86.68	15-Jun-15 20:00:00		10.35	18.92	83.84	87.91
15-Jun-15 21:00:00	15-Jun-15 22:00:00		0.00	0.00	0.00	3.88	2.1	329.7		0.00	0.00	0.00	1.28		10.35	18.92	83.84	86.68	15-Jun-15 21:00:00		10.35	18.92	83.84	87.96
15-Jun-15 22:00:00	15-Jun-15 23:00:00		0.00	0.00	0.00	4.01	2.1	329.7		0.00	0.00	0.00	1.32		10.35	18.92	83.84	86.68	15-Jun-15 22:00:00		10.35	18.92	83.84	88.00
15-Jun-15 23:00:00	16-Jun-15 00:00:00		0.58	0.00	0.00	4.09	2.1	329.7		0.19	0.00	0.00	1.35		10.35	18.92	83.84	86.68	15-Jun-15 23:00:00		10.54	18.92	83.84	88.03
16-Jun-15 00:00:00	16-Jun-15 01:00:00		1.55	0.00	0.00	4.26	2.1	329.7		0.51	0.00	0.00	1.40		10.35	18.92	83.84	86.68	16-Jun-15 00:00:00		10.86	18.92	83.84	88.08
16-Jun-15 01:00:00	16-Jun-15 02:00:00		2.07	0.00	0.00	4.42	2.1	329.7		0.68	0.00	0.00	1.46		10.35	18.92	83.84	86.68	16-Jun-15 01:00:00		11.03	18.92	83.84	88.14
16-Jun-15 02:00:00	16-Jun-15 03:00:00		0.00	0.00	0.00	4.

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
18-Jun-15 00:00:00	18-Jun-15 01:00:00		2.85	0.00	0.00	4.13	2.1	329.7		0.94	0.00	0.00	1.36		10.35	18.92	83.84	86.68	18-Jun-15 00:00:00		**11.29**	**18.92**	**83.84**	**88.04**
18-Jun-15 01:00:00	18-Jun-15 02:00:00		1.94	0.00	0.00	21.01	2.1	329.7		0.64	0.00	0.00	6.93		10.35	18.92	83.84	86.68	18-Jun-15 01:00:00		**10.99**	**18.92**	**83.84**	**93.61**
18-Jun-15 02:00:00	18-Jun-15 03:00:00		1.54	0.00	0.00	4.18	2.1	329.7		0.51	0.00	0.00	1.38		10.35	18.92	83.84	86.68	18-Jun-15 02:00:00		**10.86**	**18.92**	**83.84**	**88.06**
18-Jun-15 03:00:00	18-Jun-15 04:00:00		0.00	0.00	0.00	4.25	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	18-Jun-15 03:00:00		**10.35**	**18.92**	**83.84**	**88.08**
18-Jun-15 04:00:00	18-Jun-15 05:00:00		0.00	0.00	0.00	8.15	2.1	329.7		0.00	0.00	0.00	2.69		10.35	18.92	83.84	86.68	18-Jun-15 04:00:00		**10.35**	**18.92**	**83.84**	**89.37**
18-Jun-15 05:00:00	18-Jun-15 06:00:00		0.00	0.00	0.00	4.40	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	18-Jun-15 05:00:00		**10.35**	**18.92**	**83.84**	**88.13**
18-Jun-15 06:00:00	18-Jun-15 07:00:00		0.00	0.00	0.00	4.45	2.1	329.7		0.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	18-Jun-15 06:00:00		**10.35**	**18.92**	**83.84**	**88.15**
18-Jun-15 07:00:00	18-Jun-15 08:00:00		0.00	0.00	0.00	4.50	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	18-Jun-15 07:00:00		**10.35**	**18.92**	**83.84**	**88.16**
18-Jun-15 08:00:00	18-Jun-15 09:00:00		0.00	0.00	0.00	4.56	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	18-Jun-15 08:00:00		**10.35**	**18.92**	**83.84**	**88.18**
18-Jun-15 09:00:00	18-Jun-15 10:00:00		0.00	0.00	0.00	4.43	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	18-Jun-15 09:00:00		**10.35**	**18.92**	**83.84**	**88.14**
18-Jun-15 10:00:00	18-Jun-15 11:00:00		0.00	0.00	0.00	4.25	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	18-Jun-15 10:00:00		**10.35**	**18.92**	**83.84**	**88.08**
18-Jun-15 11:00:00	18-Jun-15 12:00:00		0.00	0.00	0.00	4.06	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	18-Jun-15 11:00:00		**10.35**	**18.92**	**83.84**	**88.02**
18-Jun-15 12:00:00	18-Jun-15 13:00:00		0.00	0.00	0.00	3.88	2.1	329.7		0.00	0.00	0.00	1.28		10.35	18.92	83.84	86.68	18-Jun-15 12:00:00		**10.35**	**18.92**	**83.84**	**87.96**
18-Jun-15 13:00:00	18-Jun-15 14:00:00		0.56	0.00	0.00	3.72	2.1	329.7		0.18	0.00	0.00	1.23		10.35	18.92	83.84	86.68	18-Jun-15 13:00:00		**10.53**	**18.92**	**83.84**	**87.91**
18-Jun-15 14:00:00	18-Jun-15 15:00:00		0.87	0.00	0.00	3.57	2.1	329.7		0.29	0.00	0.00	1.18		10.35	18.92	83.84	86.68	18-Jun-15 14:00:00		**10.64**	**18.92**	**83.84**	**87.86**
18-Jun-15 15:00:00	18-Jun-15 16:00:00		0.40	0.00	0.00	3.42	2.1	329.7		0.13	0.00	0.00	1.13		10.35	18.92	83.84	86.68	18-Jun-15 15:00:00		**10.48**	**18.92**	**83.84**	**87.81**
18-Jun-15 16:00:00	18-Jun-15 17:00:00		1.12	0.00	0.00	3.33	2.1	329.7		0.37	0.00	0.00	1.10		10.35	18.92	83.84	86.68	18-Jun-15 16:00:00		**10.72**	**18.92**	**83.84**	**87.78**
18-Jun-15 17:00:00	18-Jun-15 18:00:00		0.88	0.00	0.00	3.62	2.1	329.7		0.29	0.00	0.00	1.19		10.35	18.92	83.84	86.68	18-Jun-15 17:00:00		**10.64**	**18.92**	**83.84**	**87.87**
18-Jun-15 18:00:00	18-Jun-15 19:00:00		1.86	0.00	0.00	3.96	2.1	329.7		0.61	0.00	0.00	1.31		10.35	18.92	83.84	86.68	18-Jun-15 18:00:00		**10.96**	**18.92**	**83.84**	**87.99**
18-Jun-15 19:00:00	18-Jun-15 20:00:00		201.80	0.00	0.00	4.31	2.1	329.7		66.53	0.00	0.00	1.42		10.35	18.92	83.84	86.68	18-Jun-15 19:00:00		**76.88**	**18.92**	**83.84**	**88.10**
18-Jun-15 20:00:00	18-Jun-15 21:00:00		1,303.15	0.00	0.00	37.39	2.1	329.7		429.65	0.00	0.00	12.33		10.35	18.92	83.84	86.68	18-Jun-15 20:00:00		**440.00**	**18.92**	**83.84**	**99.01**
18-Jun-15 21:00:00	18-Jun-15 22:00:00		363.91	0.00	0.00	4.73	2.1	329.7		119.98	0.00	0.00	1.56		10.35	18.92	83.84	86.68	18-Jun-15 21:00:00		**130.33**	**18.92**	**83.84**	**88.24**
18-Jun-15 22:00:00	18-Jun-15 23:00:00		2.94	0.00	0.00	4.83	2.1	329.7		0.97	0.00	0.00	1.59		10.35	18.92	83.84	86.68	18-Jun-15 22:00:00		**11.32**	**18.92**	**83.84**	**88.27**
18-Jun-15 23:00:00	19-Jun-15 00:00:00		2.02	0.00	0.00	4.94	2.1	329.7		0.66	0.00	0.00	1.63		10.35	18.92	83.84	86.68	18-Jun-15 23:00:00		**11.01**	**18.92**	**83.84**	**88.31**
19-Jun-15 00:00:00	19-Jun-15 01:00:00		1.00	0.00	0.00	5.05	2.1	329.7		0.33	0.00	0.00	1.66		10.35	18.92	83.84	86.68	19-Jun-15 00:00:00		**10.68**	**18.92**	**83.84**	**88.34**
19-Jun-15 01:00:00	19-Jun-15 02:00:00		5.49	0.00	0.00	5.14	2.1	329.7		1.81	0.00	0.00	1.69		10.35	18.92	83.84	86.68	19-Jun-15 01:00:00		**12.16**	**18.92**	**83.84**	**88.37**
19-Jun-15 02:00:00	19-Jun-15 03:00:00		15.52	0.00	0.00	5.69	2.1	329.7		5.12	0.00	0.00	1.88		10.35	18.92	83.84	86.68	19-Jun-15 02:00:00		**15.47**	**18.92**	**83.84**	**88.56**
19-Jun-15 03:00:00	19-Jun-15 04:00:00		8.28	0.00	0.00	5.17	2.1	329.7		2.73	0.00	0.00	1.71		10.35	18.92	83.84	86.68	19-Jun-15 03:00:00		**13.08**	**18.92**	**83.84**	**88.39**
19-Jun-15 04:00:00	19-Jun-15 05:00:00		1.63	0.00	0.00	5.07	2.1	329.7		0.54	0.00	0.00	1.67		10.35	18.92	83.84	86.68	19-Jun-15 04:00:00		**10.89**	**18.92**	**83.84**	**88.35**
19-Jun-15 05:00:00	19-Jun-15 06:00:00		1.99	0.00	0.00	4.96	2.1	329.7		0.66	0.00	0.00	1.64		10.35	18.92	83.84	86.68	19-Jun-15 05:00:00		**11.01**	**18.92**	**83.84**	**88.32**
19-Jun-15 06:00:00	19-Jun-15 07:00:00		2.82	0.00	0.00	4.86	2.1	329.7		0.93	0.00	0.00	1.60		10.35	18.92	83.84	86.68	19-Jun-15 06:00:00		**11.28**	**18.92**	**83.84**	**88.28**
19-Jun-15 07:00:00	19-Jun-15 08:00:00		3.38	0.00	0.00	4.77	2.1	329.7		1.12	0.00	0.00	1.57		10.35	18.92	83.84	86.68	19-Jun-15 07:00:00		**11.47**	**18.92**	**83.84**	**88.25**
19-Jun-15 08:00:00	19-Jun-15 09:00:00		2.37	0.00	0.00	5.92	2.1	329.7		0.78	0.00	0.00	1.95		10.35	18.92	83.84	86.68	19-Jun-15 08:00:00		**11.13**	**18.92**	**83.84**	**88.63**
19-Jun-15 09:00:00	19-Jun-15 10:00:00		5.05	0.00	0.00	4.55	2.1	329.7		1.67	0.00	0.00	1.50		10.35	18.92	83.84	86.68	19-Jun-15 09:00:00		**12.02**	**18.92**	**83.84**	**88.18**
19-Jun-15 10:00:00	19-Jun-15 11:00:00		2.80	0.00	0.00	4.38	2.1	329.7		0.92	0.00	0.00	1.44		10.35	18.92	83.84	86.68	19-Jun-15 10:00:00		**11.27**	**18.92**	**83.84**	**88.12**
19-Jun-15 11:00:00	19-Jun-15 12:00:00		2.47	0.00	0.00	4.20	2.1	329.7		0.82	0.00	0.00	1.39		10.35	18.92	83.84	86.68	19-Jun-15 11:00:00		**11.17**	**18.92**	**83.84**	**88.07**
19-Jun-15 12:00:00	19-Jun-15 13:00:00		0.72	0.00	0.00	4.03	2.1	329.7		0.24	0.00	0.00	1.33		10.35	18.92	83.84	86.68	19-Jun-15 12:00:00		**10.59**	**18.92**	**83.84**	**88.01**
19-Jun-15 13:00:00	19-Jun-15 14:00:00		0.42	0.00	0.00	3.95	2.1	329.7		0.14	0.00	0.00	1.30		10.35	18.92	83.84	86.68	19-Jun-15 13:00:00		**10.49**	**18.92**	**83.84**	**87.98**
19-Jun-15 14:00:00	19-Jun-15 15:00:00		6.63	0.00	0.00	3.79	2.1	329.7		2.19	0.00	0.00	1.25		10.35	18.92	83.84	86.68	19-Jun-15 14:00:00		**12.54**	**18.92**	**83.84**	**87.93**
19-Jun-15 15:00:00	19-Jun-15 16:00:00		10.02	0.00	0.00	7.46	2.1	329.7		3.30	0.00	0.00	2.46		10.35	18.92	83.84	86.68	19-Jun-15 15:00:00		**13.65**	**18.92**	**83.84**	**89.14**
19-Jun-15 16:00:00	19-Jun-15 17:00:00		14.52	0.00	0.00	3.44	2.1	329.7		4.79	0.00	0.00	1.14		10.35	18.92	83.84	86.68	19-Jun-15 16:00:00		**15.14**	**18.92**	**83.84**	**87.82**
19-Jun-15 17:00:00	19-Jun-15 18:00:00		14.35	0.00	0.00	3.45	2.1	329.7		4.73	0.00	0.00	1.14		10.35	18.92	83.84	86.68	19-Jun-15 17:00:00		**15.08**	**18.92**	**83.84**	**87.82**
19-Jun-15 18:00:00	19-Jun-15 19:00:00		3.62	0.00	0.00	3.45	2.1	329.7		1.19	0.00	0.00	1.14		10.35	18.92	83.84	86.68	19-Jun-15 18:00:00		**11.54**	**18.92**	**83.84**	**87.82**
19-Jun-15 19:00:00	19-Jun-15 20:00:00		0.00	0.00	0.00	6.62	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	19-Jun-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.86**
19-Jun-15 20:00:00	19-Jun-15 21:00:00		2.28	0.00	0.00	4.06	2.1	329.7		0.75	0.00	0.00	1.34		10.35	18.92	83.84	86.68	19-Jun-15 20:00:00		**11.10**	**18.92**	**83.84**	**88.02**
19-Jun-15 21:00:00	19-Jun-15 22:00:00		1.56	0.00	0.00	4.46	2.1	329.7		0.51	0.00	0.00	1.47		10.35	18.92	83.84	86.68	19-Jun-15 21:00:00		**10.86**	**18.92**	**83.84**	**88.15**
19-Jun-15 22:00:00	19-Jun-15 23:00:00		1.43	0.00	0.00	40.74	2.1	329.7		0.47	0.00	0.00	13.43		10.35	18.92	83.84	86.68	19-Jun-15 22:00:00		**10.82**	**18.92**	**83.84**	**100.11**
19-Jun-15 23:00:00	20-Jun-15 00:00:00		0.00	0.00	0.00	5.00	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	19-Jun-15 23:00:00		**10.35**	**18.92**	**83.84**	**88.33**
20-Jun-15 00:00:00	20-Jun-15 01:00:00		0.50	0.00	0.00	5.11	2.1	329.7		0.17	0.00	0.00	1.68		10.35	18.92	83.84	86.68	20-Jun-15 00:00:00		**10.52**	**18.92**	**83.84**	**88.36**
20-Jun-15 01:00:00	20-Jun-15 02:00:00		3.49	0.00	0.00	12.38	2.1	329.7		1.15	0.00	0.00	4.08		10.35	18.92	83.84	86.68	20-Jun-15 01:00:00		**11.50**	**18.92**	**83.84**	**90.76**
20-Jun-15 02:00:00	20-Jun-15 03:00:00		0.02	0.00	0.00	5.14	2.1	329.7		0.01	0.00	0.00	1.69		10.35	18.92	83.84	86.68	20-Jun-15 02:00:00		**10.36**	**18.92**	**83.84**	**88.37**
20-Jun-15 03:00:00	20-Jun-15 04:00:00		0.04	0.00	0.00	5.15	2.1	329.7		0.01	0.00	0.00	1.70		10.35	18.92	83.84	86.68	20-Jun-15 03:00:00		**10.36**	**18.92**	**83.84**	**88.38**
20-Jun-15 04:00:00	20-Jun-15 05:00:00		7.72	0.00	0.00	9.68	2.1	329.7		2.55	0.00	0.00	3.19		10.35	18.92	83.84	86.68	20-Jun-15 04:00:00		**12.90**	**18.92**	**83.84**	**89.87**
20-Jun-15 05:00:00	20-Jun-15 06:00:00		12.69	0.00	0.00	5.15	2.1	329.7		4.19	0.00	0.00	1.70		10.35	18.92	83.84	86.68	20-Jun-15 05:00:00		**14.54**	**18.92**	**83.84**	**88.38**
20-Jun-15 06:00:00	20-Jun-15 07:00:00		25.22	0.00	0.00	5.03	2.1	329.7		8.32	0.00	0.00	1.66		10.35	18.92	83.84	86.68	20-Jun-15 06:00:00		**18.67**	**18.92**	**83.84**	**88.34**
20-Jun-15 07:00:00	20-Jun-15 08:00:00		24.47	0.00	0.00	4.92	2.1	329.7		8.07	0.00	0.00	1.62		10.35	18.92	83.84	86.68	20-Jun-15 07:00:00		**18.42**	**18.92**	**83.84**	**88.30**
20-Jun-15 08:00:00	20-Jun-15 09:00:00		21.56	0.00	0.00	4.75	2.1	329.7		7.11	0.00	0.00	1.57		10.35	18.92	83.84	86.68	20-Jun-15 08:00:00		**17.46**	**18.92**	**83.84**	**88.25**
20-Jun-15 09:00:00	20-Jun-15 10:00:00		18.69	0.00	0.00	4.37	2.1	329.7		6.16	0.00	0.00	1.44		10.35	18.92	83.84	86.68	20-Jun-15 09:00:00		**16.51**	**18.92**	**83.84**	**88.12**
20-Jun-15 10:00:00	20-Jun-15 11:00:00		1.58	0.00	0.00	14.47	2.1	329.7		0.52	0.00	0.00	4.77		10.35	18.92	83.84	86.68	20-Jun-15 10:00:00		**10.87**	**18.92**	**83.84**	**91.45**
20-Jun-15 11:00:00	20-Jun-15 12:00:00		1.47	0.00	0.00	3.95	2.1	329.7		0.48	0.00	0.00	1.30		10.35	18.92	83.84	86.68	20-Jun-15 11:00:00		**10.83**	**18.92**	**83.84**	**87.98**
20-Jun-15 12:00:00	20-Jun-15 13:00:00		0.00	0.00	0.00	3.99	2.1	329.7		0.00	0.00	0.00	1.31		10.35	18.92	83.84	86.68	20-Jun-15 12:00:00		**10.35**	**18.92**	**83.84**	**87.99**
20-Jun-15 13:00:00	20-Jun-15 14:00:00		9.35	0.00	0.00	4.02	2.1	329.7		3.08	0.00	0.00	1.33		10.35	18.92	83.84	86.68	20-Jun-15 13:00:00		**13.43**	**18.92**	**83.84**	**88.01**
20-Jun-15 14:00:00	20-Jun-15 15:00:00		1.21	0.00	0.00	4.06	2.1	329.7		0.40	0.00	0.00	1.34		10.35	18.92	83.84	86.68	20-Jun-15 14:00:00		**10.75**	**18.92**	**83.84**	**88.02**
20-Jun-15 15:00:00	20-Jun-15 16:00:00		0.00	0.00	0.00	4.07	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	20-Jun-15 15:00:00		**10.35**	**18.92**	**83.84**	**88.02**
20-Jun-15 16:00:00	20-Jun-15 17:00:00		0.00	0.00	0.00	4.07	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	20-Jun-15 16:00:00		**10.35**	**18.92**	**83.84**	**88.02**
20-Jun-15 17:00:00	20-Jun-15 18:00:00		0.00	0.00	0.00	4.07	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	20-Jun-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.02**
20-Jun-15 18:00:00	20-Jun-15 19:00:00		0.00	0.00	0.00	4.07	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	20-Jun-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.02**
20-Jun-15 19:00:00	20-Jun-15 20:00:00		0.00	0.00	0.00	4.10	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	20-Jun-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.03**
20-Jun-15 20:00:00	20-Jun-15 21:00:00		0.10	0.00	0.00	18.61	2.1	329.7		0.03	0.00	0.00	6.14		10.35	18.92	83.84	86.68	20-Jun-15 20:00:00		**10.38**	**18.92**	**83.84**	**92.82**
20-Jun-15 21:00:00	20-Jun-15 22:00:00		0.00	0.00	0.00	4.24	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	20-Jun-15 21:00:00		**10.35**	**18.92**	**83.84**	**88.08**
20-Jun-15 22:00:00	20-Jun-15 23:00:00		0.00	0.00	0.00	4.41	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	20-Jun-15 22:00:00		**10.35**	**18.92**	**83.84**	**88.13**
20-Jun-15 23:00:00	21-Jun-15 00:00:00		0.00	0.00	0.00	78.07	2.1	329.7		0.00	0.00	0.00	25.74		10.35	18.92	83.84	86.68	20-Jun-15 23:00:00		**10.35**	**18.92**	**83.84**	**112.42**
21-Jun-15 00:00:00	21-Jun-15 01:00:00		0.00	0.00	0.00	4.56	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	21-Jun-15 00:00:00		**10.35**	**18.92**	**83.84**	**88.18**
21-Jun-15 01:00:00	21-Jun-15 02:00:00		0.00	0.00	0.00	4.52	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	21-Jun-15 01:00:00		**10.35**	**18.92**	**83.84**	**88.17**
21-Jun-15 02:00:00	21-Jun-15 03:00:00		0.15	0.00	0.00	9.11	2.1	329.7		0.05	0.00	0.00	3.00		10.35	18.92	83.84	86.68	21-Jun-15 02:00:00		**10.40**	**18.92**	**83.84**	**89.68**
21-Jun-15 03:00:00	21-Jun-15 04:00:00		0.86	0.00	0.00	4.61	2.1	329.7		0.28	0.00	0.00	1.52		10.35	18.92	83.84	86.68	21-Jun-15 03:00:00		**10.63**	**18.92**	**83.84**	**88.20**
21-Jun-15 04:00:00	21-Jun-15 05:00:00		0.00	0.00	0.00	4.63	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	21-Jun-15 04:00:00		**10.35**	**18.92**	**83.84**	**88.20**
21-Jun-15 05:00:00	21-Jun-15 06:00:00		0.00	0.00	0.00	4.64	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	21-Jun-15 05:00:00		**10.35**	**18.92**	**83.84**	**88.21**
21-Jun-15 06:00:00	21-Jun-15 07:00:00		0.00	0.00	0.00	4.73	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	21-Jun-15 06:00:00		**10.35**	**18.92**	**83.84**	**88.24**
21-Jun-15 07:00:00	21-Jun-15 08:00:00		0.00	0.00	0.00	4.79	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	21-Jun-15 07:00:00		**10.35**	**18.92**	**83.84**	**88.26**
21-Jun-15 08:00:00	21-Jun-15 09:00:00		0.00	0.00	0.00	4.65	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	21-Jun-15 08:00:00		**10.35**	**18.92**	**83.84**	**88.21**
21-Jun-15 09:00:00	21-Jun-15 10:00:00		0.00	0.00	0.00	4.52	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	21-Jun-15 09:00:00		**10.35**	**18.92**	**83.84**	**88.17**
21-Jun-15 10:00:00	21-Jun-15 11:00:00		0.00	0.00	0.00	4.29	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	21-Jun-15 10:00:00		**10.35**	**18.92**	**83.84**	**88.09**
21-Jun-15 11:00:00	21-Jun-15 12:00:00		0.42	0.00	0.00	3.97	2.1	329.7		0.14	0.00	0.00	1.31		10.35	18.92	83.84	86.68	21-Jun-15 11:00:00		**10.49**	**18.92**	**83.84**	**87.99**
21-Jun-15 12:00:00	21-Jun-15 13:00:00		1.09	0.00	0.00	3.83	2.1	329.7		0.36	0.00	0.00	1.26		10.35	18.92	83.84	86.68	21-Jun-15 12:00:00		**10.71**	**18.92**	**83.84**	**87.94**
21-Jun-15 13:00:00	21-Jun-15 14:00:00		2.09	0.00	0.00	3.69	2.1	329.7		0.69	0.00	0.00	1.22		10.35	18.92	83.84	86.68	21-Jun-15 13:00:00		**11.04**	**18.92**	**83.84**	**87.90**
21-Jun-15 14:00:00	21-Jun-15 15:00:00		1.16	0.00	0.00	3.55	2.1	329.7		0.38	0.00	0.00	1.17		10.35	18.92	83.84	86.68	21-Jun-15 14:00:00		**10.73**	**18.92**	**83.84**	**87.85**
21-Jun-15 15:00:00	21-Jun-15 16:00:00		1.87	0.00	0.00	50.69	2.1	329.7		0.62	0.00	0.00	16.71		10.35	18.92	83.84	86.68	21-Jun-15 15:00:00		**10.97**	**18.92**	**83.84**	**103.39**
21-Jun-15 16:00:00	21-Jun-15 17:00:00		5.88	0.00	0.00	3.40	2.1	329.7		1.94	0.00	0.00	1.12		10.35	18.92	83.84	86.68	21-Jun-15 16:00:00		**12.29**	**18.92**	**83.84**	**87.80**
21-Jun-15 17:00:00	21-Jun-15 18:00:00		2.20	0.00	0.00	3.36	2.1	329.7		0.73	0.00	0.00	1.11		10.35	18.92	83.84	86.68	21-Jun-15 17:00:00		**11.08**	**18.92**	**83.84**	**87.79**
21-Jun-15 18:00:00	21-Jun-15 19:00:00		10.38	0.00	0.00	6.32	2.1	329.7		3.42	0.00	0.00	2.08		10.35	18.92	83.84	86.68	21-Jun-15 18:00:00		**13.77**	**18.92**	**83.84**	**88.76**
21-Jun-15 19:00:00	21-Jun-15 20:00:00		11.82	0.00	0.00	3.61	2.1	329.7		3.90	0.00	0.00	1.19		10.35	18.92	83.84	86.68	21-Jun-15 19:00:00		**14.25**	**18.92**	**83.84**	**87.87**
21-Jun-15 20:00:00	21-Jun-15 21:00:00		14.24	0.00	0.00	3.57	2.1	329.7		4.69	0.00	0.00	1.18		10.35	18.92	83.84	86.68	21-Jun-15 20:00:00		**15.04**	**18.92**	**83.84**	**87.86**
21-Jun-15 21:00:00	21-Jun-15 22:00:00		12.84	0.00	0.00

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
23-Jun-15 19:00:00	23-Jun-15 20:00:00		17.81	0.00	0.00	3.15	2.1	329.7		5.87	0.00	0.00	1.04		10.35	18.92	83.84	86.68	23-Jun-15 19:00:00		16.22	18.92	83.84	87.72
23-Jun-15 20:00:00	23-Jun-15 21:00:00		19.55	0.00	0.00	3.23	2.1	329.7		6.44	0.00	0.00	1.06		10.35	18.92	83.84	86.68	23-Jun-15 20:00:00		16.79	18.92	83.84	87.74
23-Jun-15 21:00:00	23-Jun-15 22:00:00		5.09	0.00	0.00	12.91	2.1	329.7		1.68	0.00	0.00	4.26		10.35	18.92	83.84	86.68	23-Jun-15 21:00:00		12.03	18.92	83.84	90.94
23-Jun-15 22:00:00	23-Jun-15 23:00:00		7.00	0.00	0.00	3.62	2.1	329.7		2.31	0.00	0.00	1.19		10.35	18.92	83.84	86.68	23-Jun-15 22:00:00		12.66	18.92	83.84	87.87
23-Jun-15 23:00:00	24-Jun-15 00:00:00		2.07	0.00	0.00	3.86	2.1	329.7		0.68	0.00	0.00	1.27		10.35	18.92	83.84	86.68	23-Jun-15 23:00:00		11.03	18.92	83.84	87.95
24-Jun-15 00:00:00	24-Jun-15 01:00:00		0.88	0.00	0.00	30.36	2.1	329.7		0.29	0.00	0.00	10.01		10.35	18.92	83.84	86.68	24-Jun-15 00:00:00		10.64	18.92	83.84	96.69
24-Jun-15 01:00:00	24-Jun-15 02:00:00		0.87	0.00	0.00	4.17	2.1	329.7		0.29	0.00	0.00	1.38		10.35	18.92	83.84	86.68	24-Jun-15 01:00:00		10.64	18.92	83.84	88.06
24-Jun-15 02:00:00	24-Jun-15 03:00:00		1.59	0.00	0.00	4.26	2.1	329.7		0.52	0.00	0.00	1.41		10.35	18.92	83.84	86.68	24-Jun-15 02:00:00		10.87	18.92	83.84	88.09
24-Jun-15 03:00:00	24-Jun-15 04:00:00		2.23	0.00	0.00	4.35	2.1	329.7		0.74	0.00	0.00	1.43		10.35	18.92	83.84	86.68	24-Jun-15 03:00:00		11.09	18.92	83.84	88.11
24-Jun-15 04:00:00	24-Jun-15 05:00:00		3.35	0.00	0.00	4.40	2.1	329.7		1.10	0.00	0.00	1.45		10.35	18.92	83.84	86.68	24-Jun-15 04:00:00		11.45	18.92	83.84	88.13
24-Jun-15 05:00:00	24-Jun-15 06:00:00		4.68	0.00	0.00	4.41	2.1	329.7		1.54	0.00	0.00	1.46		10.35	18.92	83.84	86.68	24-Jun-15 05:00:00		11.89	18.92	83.84	88.14
24-Jun-15 06:00:00	24-Jun-15 07:00:00		21.06	0.00	0.00	4.45	2.1	329.7		6.94	0.00	0.00	1.47		10.35	18.92	83.84	86.68	24-Jun-15 06:00:00		17.29	18.92	83.84	88.15
24-Jun-15 07:00:00	24-Jun-15 08:00:00		9.71	0.00	0.00	4.48	2.1	329.7		3.20	0.00	0.00	1.48		10.35	18.92	83.84	86.68	24-Jun-15 07:00:00		13.55	18.92	83.84	88.16
24-Jun-15 08:00:00	24-Jun-15 09:00:00		7.36	0.00	0.00	4.48	2.1	329.7		2.43	0.00	0.00	1.48		10.35	18.92	83.84	86.68	24-Jun-15 08:00:00		12.78	18.92	83.84	88.16
24-Jun-15 09:00:00	24-Jun-15 10:00:00		8.35	0.00	0.00	5.45	2.1	329.7		2.75	0.00	0.00	1.80		10.35	18.92	83.84	86.68	24-Jun-15 09:00:00		13.10	18.92	83.84	88.48
24-Jun-15 10:00:00	24-Jun-15 11:00:00		3.55	0.00	0.00	4.10	2.1	329.7		1.17	0.00	0.00	1.35		10.35	18.92	83.84	86.68	24-Jun-15 10:00:00		11.52	18.92	83.84	88.03
24-Jun-15 11:00:00	24-Jun-15 12:00:00		2.17	0.00	0.00	3.86	2.1	329.7		0.72	0.00	0.00	1.27		10.35	18.92	83.84	86.68	24-Jun-15 11:00:00		11.07	18.92	83.84	87.95
24-Jun-15 12:00:00	24-Jun-15 13:00:00		1.05	0.00	0.00	3.62	2.1	329.7		0.35	0.00	0.00	1.19		10.35	18.92	83.84	86.68	24-Jun-15 12:00:00		10.70	18.92	83.84	87.87
24-Jun-15 13:00:00	24-Jun-15 14:00:00		2.59	0.00	0.00	3.38	2.1	329.7		0.85	0.00	0.00	1.11		10.35	18.92	83.84	86.68	24-Jun-15 13:00:00		11.20	18.92	83.84	87.79
24-Jun-15 14:00:00	24-Jun-15 15:00:00		6.05	0.00	0.00	3.20	2.1	329.7		1.99	0.00	0.00	1.05		10.35	18.92	83.84	86.68	24-Jun-15 14:00:00		12.34	18.92	83.84	87.73
24-Jun-15 15:00:00	24-Jun-15 16:00:00		8.14	0.00	0.00	3.11	2.1	329.7		2.68	0.00	0.00	1.02		10.35	18.92	83.84	86.68	24-Jun-15 15:00:00		13.03	18.92	83.84	87.70
24-Jun-15 16:00:00	24-Jun-15 17:00:00		7.92	0.00	0.00	3.02	2.1	329.7		2.61	0.00	0.00	1.00		10.35	18.92	83.84	86.68	24-Jun-15 16:00:00		12.96	18.92	83.84	87.68
24-Jun-15 17:00:00	24-Jun-15 18:00:00		2.42	0.00	0.00	2.94	2.1	329.7		0.80	0.00	0.00	0.97		10.35	18.92	83.84	86.68	24-Jun-15 17:00:00		11.15	18.92	83.84	87.65
24-Jun-15 18:00:00	24-Jun-15 19:00:00		24.84	0.00	0.00	3.15	2.1	329.7		8.19	0.00	0.00	1.04		10.35	18.92	83.84	86.68	24-Jun-15 18:00:00		18.54	18.92	83.84	87.72
24-Jun-15 19:00:00	24-Jun-15 20:00:00		18.94	0.00	0.00	3.54	2.1	329.7		6.24	0.00	0.00	1.17		10.35	18.92	83.84	86.68	24-Jun-15 19:00:00		16.59	18.92	83.84	87.85
24-Jun-15 20:00:00	24-Jun-15 21:00:00		8.76	0.00	0.00	3.92	2.1	329.7		2.89	0.00	0.00	1.29		10.35	18.92	83.84	86.68	24-Jun-15 20:00:00		13.24	18.92	83.84	87.97
24-Jun-15 21:00:00	24-Jun-15 22:00:00		0.68	0.00	0.00	4.31	2.1	329.7		0.22	0.00	0.00	1.42		10.35	18.92	83.84	86.68	24-Jun-15 21:00:00		10.57	18.92	83.84	88.10
24-Jun-15 22:00:00	24-Jun-15 23:00:00		3.35	0.00	0.00	4.47	2.1	329.7		1.10	0.00	0.00	1.47		10.35	18.92	83.84	86.68	24-Jun-15 22:00:00		11.45	18.92	83.84	88.15
24-Jun-15 23:00:00	25-Jun-15 00:00:00		2.47	0.00	0.00	4.42	2.1	329.7		0.81	0.00	0.00	1.46		10.35	18.92	83.84	86.68	24-Jun-15 23:00:00		11.16	18.92	83.84	88.14
25-Jun-15 00:00:00	25-Jun-15 01:00:00		0.33	0.00	0.00	4.36	2.1	329.7		0.11	0.00	0.00	1.44		10.35	18.92	83.84	86.68	25-Jun-15 00:00:00		10.46	18.92	83.84	88.12
25-Jun-15 01:00:00	25-Jun-15 02:00:00		0.00	0.00	0.00	4.31	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	25-Jun-15 01:00:00		10.35	18.92	83.84	88.10
25-Jun-15 02:00:00	25-Jun-15 03:00:00		1.18	0.00	0.00	4.40	2.1	329.7		0.39	0.00	0.00	1.45		10.35	18.92	83.84	86.68	25-Jun-15 02:00:00		10.74	18.92	83.84	88.13
25-Jun-15 03:00:00	25-Jun-15 04:00:00		1.35	0.00	0.00	4.46	2.1	329.7		0.45	0.00	0.00	1.47		10.35	18.92	83.84	86.68	25-Jun-15 03:00:00		10.80	18.92	83.84	88.15
25-Jun-15 04:00:00	25-Jun-15 05:00:00		0.70	0.00	0.00	4.52	2.1	329.7		0.23	0.00	0.00	1.49		10.35	18.92	83.84	86.68	25-Jun-15 04:00:00		10.58	18.92	83.84	88.17
25-Jun-15 05:00:00	25-Jun-15 06:00:00		10.46	0.00	0.00	4.56	2.1	329.7		3.45	0.00	0.00	1.50		10.35	18.92	83.84	86.68	25-Jun-15 05:00:00		13.80	18.92	83.84	88.18
25-Jun-15 06:00:00	25-Jun-15 07:00:00		8.16	0.00	0.00	4.41	2.1	329.7		2.69	0.00	0.00	1.45		10.35	18.92	83.84	86.68	25-Jun-15 06:00:00		13.04	18.92	83.84	88.13
25-Jun-15 07:00:00	25-Jun-15 08:00:00		4.67	0.00	0.00	4.42	2.1	329.7		1.54	0.00	0.00	1.46		10.35	18.92	83.84	86.68	25-Jun-15 07:00:00		11.89	18.92	83.84	88.14
25-Jun-15 08:00:00	25-Jun-15 09:00:00		3.74	0.00	0.00	4.44	2.1	329.7		1.23	0.00	0.00	1.46		10.35	18.92	83.84	86.68	25-Jun-15 08:00:00		11.58	18.92	83.84	88.14
25-Jun-15 09:00:00	25-Jun-15 10:00:00		3.78	0.00	0.00	4.44	2.1	329.7		1.24	0.00	0.00	1.46		10.35	18.92	83.84	86.68	25-Jun-15 09:00:00		11.59	18.92	83.84	88.14
25-Jun-15 10:00:00	25-Jun-15 11:00:00		1.25	0.00	0.00	4.25	2.1	329.7		0.41	0.00	0.00	1.40		10.35	18.92	83.84	86.68	25-Jun-15 10:00:00		10.76	18.92	83.84	88.08
25-Jun-15 11:00:00	25-Jun-15 12:00:00		7.48	0.00	0.00	3.98	2.1	329.7		2.47	0.00	0.00	1.31		10.35	18.92	83.84	86.68	25-Jun-15 11:00:00		12.82	18.92	83.84	87.99
25-Jun-15 12:00:00	25-Jun-15 13:00:00		0.77	0.00	0.00	3.72	2.1	329.7		0.25	0.00	0.00	1.23		10.35	18.92	83.84	86.68	25-Jun-15 12:00:00		10.60	18.92	83.84	87.91
25-Jun-15 13:00:00	25-Jun-15 14:00:00		0.00	0.00	0.00	3.45	2.1	329.7		0.00	0.00	0.00	1.14		10.35	18.92	83.84	86.68	25-Jun-15 13:00:00		10.35	18.92	83.84	87.82
25-Jun-15 14:00:00	25-Jun-15 15:00:00		0.16	0.00	0.00	3.26	2.1	329.7		0.05	0.00	0.00	1.07		10.35	18.92	83.84	86.68	25-Jun-15 14:00:00		10.40	18.92	83.84	87.75
25-Jun-15 15:00:00	25-Jun-15 16:00:00		1.18	0.00	0.00	42.76	2.1	329.7		0.39	0.00	0.00	14.10		10.35	18.92	83.84	86.68	25-Jun-15 15:00:00		10.74	18.92	83.84	100.78
25-Jun-15 16:00:00	25-Jun-15 17:00:00		3.56	0.00	0.00	3.15	2.1	329.7		1.17	0.00	0.00	1.04		10.35	18.92	83.84	86.68	25-Jun-15 16:00:00		11.52	18.92	83.84	87.72
25-Jun-15 17:00:00	25-Jun-15 18:00:00		10.93	0.00	0.00	3.07	2.1	329.7		3.60	0.00	0.00	1.01		10.35	18.92	83.84	86.68	25-Jun-15 17:00:00		13.95	18.92	83.84	87.69
25-Jun-15 18:00:00	25-Jun-15 19:00:00		12.65	0.00	0.00	8.63	2.1	329.7		4.17	0.00	0.00	2.84		10.35	18.92	83.84	86.68	25-Jun-15 18:00:00		14.52	18.92	83.84	89.52
25-Jun-15 19:00:00	25-Jun-15 20:00:00		2.73	0.00	0.00	2.92	2.1	329.7		0.90	0.00	0.00	0.96		10.35	18.92	83.84	86.68	25-Jun-15 19:00:00		11.25	18.92	83.84	87.64
25-Jun-15 20:00:00	25-Jun-15 21:00:00		4.08	0.00	0.00	2.96	2.1	329.7		1.34	0.00	0.00	0.97		10.35	18.92	83.84	86.68	25-Jun-15 20:00:00		11.69	18.92	83.84	87.65
25-Jun-15 21:00:00	25-Jun-15 22:00:00		4.45	0.00	0.00	2.99	2.1	329.7		1.47	0.00	0.00	0.99		10.35	18.92	83.84	86.68	25-Jun-15 21:00:00		11.82	18.92	83.84	87.67
25-Jun-15 22:00:00	25-Jun-15 23:00:00		4.26	0.00	0.00	8.53	2.1	329.7		1.40	0.00	0.00	2.81		10.35	18.92	83.84	86.68	25-Jun-15 22:00:00		11.75	18.92	83.84	89.49
25-Jun-15 23:00:00	26-Jun-15 00:00:00		1.01	0.00	0.00	3.59	2.1	329.7		0.33	0.00	0.00	1.18		10.35	18.92	83.84	86.68	25-Jun-15 23:00:00		10.68	18.92	83.84	87.86
26-Jun-15 00:00:00	26-Jun-15 01:00:00		1.94	0.00	0.00	3.79	2.1	329.7		0.64	0.00	0.00	1.25		10.35	18.92	83.84	86.68	26-Jun-15 00:00:00		10.99	18.92	83.84	87.93
26-Jun-15 01:00:00	26-Jun-15 02:00:00		5.91	0.00	0.00	4.00	2.1	329.7		1.95	0.00	0.00	1.32		10.35	18.92	83.84	86.68	26-Jun-15 01:00:00		12.30	18.92	83.84	88.00
26-Jun-15 02:00:00	26-Jun-15 03:00:00		5.49	0.00	0.00	4.13	2.1	329.7		1.81	0.00	0.00	1.36		10.35	18.92	83.84	86.68	26-Jun-15 02:00:00		12.16	18.92	83.84	88.04
26-Jun-15 03:00:00	26-Jun-15 04:00:00		1.39	0.00	0.00	4.19	2.1	329.7		0.46	0.00	0.00	1.38		10.35	18.92	83.84	86.68	26-Jun-15 03:00:00		10.81	18.92	83.84	88.06
26-Jun-15 04:00:00	26-Jun-15 05:00:00		0.00	0.00	0.00	6.73	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	26-Jun-15 04:00:00		10.35	18.92	83.84	88.90
26-Jun-15 05:00:00	26-Jun-15 06:00:00		4.73	0.00	0.00	4.16	2.1	329.7		1.56	0.00	0.00	1.37		10.35	18.92	83.84	86.68	26-Jun-15 05:00:00		11.91	18.92	83.84	88.05
26-Jun-15 06:00:00	26-Jun-15 07:00:00		3.54	0.00	0.00	6.49	2.1	329.7		1.17	0.00	0.00	2.14		10.35	18.92	83.84	86.68	26-Jun-15 06:00:00		11.52	18.92	83.84	88.82
26-Jun-15 07:00:00	26-Jun-15 08:00:00		3.47	0.00	0.00	4.28	2.1	329.7		1.14	0.00	0.00	1.41		10.35	18.92	83.84	86.68	26-Jun-15 07:00:00		11.49	18.92	83.84	88.09
26-Jun-15 08:00:00	26-Jun-15 09:00:00		3.73	0.00	0.00	4.16	2.1	329.7		1.23	0.00	0.00	1.37		10.35	18.92	83.84	86.68	26-Jun-15 08:00:00		11.58	18.92	83.84	88.05
26-Jun-15 09:00:00	26-Jun-15 10:00:00		0.79	0.00	0.00	5.98	2.1	329.7		0.26	0.00	0.00	1.97		10.35	18.92	83.84	86.68	26-Jun-15 09:00:00		10.61	18.92	83.84	88.65
26-Jun-15 10:00:00	26-Jun-15 11:00:00		5.45	0.00	0.00	3.78	2.1	329.7		1.80	0.00	0.00	1.25		10.35	18.92	83.84	86.68	26-Jun-15 10:00:00		12.15	18.92	83.84	87.93
26-Jun-15 11:00:00	26-Jun-15 12:00:00		3.07	0.00	0.00	3.47	2.1	329.7		1.01	0.00	0.00	1.15		10.35	18.92	83.84	86.68	26-Jun-15 11:00:00		11.36	18.92	83.84	87.83
26-Jun-15 12:00:00	26-Jun-15 13:00:00		0.27	0.00	0.00	3.17	2.1	329.7		0.09	0.00	0.00	1.04		10.35	18.92	83.84	86.68	26-Jun-15 12:00:00		10.44	18.92	83.84	87.72
26-Jun-15 13:00:00	26-Jun-15 14:00:00		0.64	0.00	0.00	3.19	2.1	329.7		0.21	0.00	0.00	1.05		10.35	18.92	83.84	86.68	26-Jun-15 13:00:00		10.56	18.92	83.84	87.73
26-Jun-15 14:00:00	26-Jun-15 15:00:00		0.94	0.00	0.00	2.90	2.1	329.7		0.31	0.00	0.00	0.96		10.35	18.92	83.84	86.68	26-Jun-15 14:00:00		10.66	18.92	83.84	87.64
26-Jun-15 15:00:00	26-Jun-15 16:00:00		10.54	0.00	0.00	2.75	2.1	329.7		3.47	0.00	0.00	0.91		10.35	18.92	83.84	86.68	26-Jun-15 15:00:00		13.82	18.92	83.84	87.59
26-Jun-15 16:00:00	26-Jun-15 17:00:00		0.90	0.00	0.00	2.61	2.1	329.7		0.30	0.00	0.00	0.86		10.35	18.92	83.84	86.68	26-Jun-15 16:00:00		10.65	18.92	83.84	87.54
26-Jun-15 17:00:00	26-Jun-15 18:00:00		0.00	0.00	0.00	2.55	2.1	329.7		0.00	0.00	0.00	0.84		10.35	18.92	83.84	86.68	26-Jun-15 17:00:00		10.35	18.92	83.84	87.52
26-Jun-15 18:00:00	26-Jun-15 19:00:00		0.00	0.00	0.00	2.60	2.1	329.7		0.00	0.00	0.00	0.86		10.35	18.92	83.84	86.68	26-Jun-15 18:00:00		10.35	18.92	83.84	87.54
26-Jun-15 19:00:00	26-Jun-15 20:00:00		0.00	0.00	0.00	4.26	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	26-Jun-15 19:00:00		10.35	18.92	83.84	88.08
26-Jun-15 20:00:00	26-Jun-15 21:00:00		0.95	0.00	0.00	3.41	2.1	329.7		0.31	0.00	0.00	1.13		10.35	18.92	83.84	86.68	26-Jun-15 20:00:00		10.66	18.92	83.84	87.81
26-Jun-15 21:00:00	26-Jun-15 22:00:00		3.22	0.00	0.00	47.12	2.1	329.7		1.06	0.00	0.00	15.53		10.35	18.92	83.84	86.68	26-Jun-15 21:00:00		11.41	18.92	83.84	102.21
26-Jun-15 22:00:00	26-Jun-15 23:00:00		5.06	0.00	0.00	4.34	2.1	329.7		1.67	0.00	0.00	1.43		10.35	18.92	83.84	86.68	26-Jun-15 22:00:00		12.02	18.92	83.84	88.11
26-Jun-15 23:00:00	27-Jun-15 00:00:00		3.26	0.00	0.00	4.54	2.1	329.7		1.08	0.00	0.00	1.50		10.35	18.92	83.84	86.68	26-Jun-15 23:00:00		11.43	18.92	83.84	88.18
27-Jun-15 00:00:00	27-Jun-15 01:00:00		10.97	0.00	0.00	4.74	2.1	329.7		3.62	0.00	0.00	1.56		10.35	18.92	83.84	86.68	27-Jun-15 00:00:00		13.97	18.92	83.84	88.24
27-Jun-15 01:00:00	27-Jun-15 02:00:00		20.69	0.00	0.00	12.32	2.1	329.7		6.82	0.00	0.00	4.06		10.35	18.92	83.84	86.68	27-Jun-15 01:00:00		17.17	18.92	83.84	90.74
27-Jun-15 02:00:00	27-Jun-15 03:00:00		13.35	0.00	0.00	5.00	2.1	329.7		4.40	0.00	0.00	1.65		10.35	18.92	83.84	86.68	27-Jun-15 02:00:00		14.75	18.92	83.84	88.33
27-Jun-15 03:00:00	27-Jun-15 04:00:00		14.45	0.00	0.00	5.00	2.1	329.7		4.77	0.00	0.00	1.65		10.35	18.92	83.84	86.68	27-Jun-15 03:00:00		15.12	18.92	83.84	88.33
27-Jun-15 04:00:00	27-Jun-15 05:00:00		12.58	0.00	0.00	5.01	2.1	329.7		4.15	0.00	0.00	1.65		10.35	18.92	83.84	86.68	27-Jun-15 04:00:00		14.50	18.92	83.84	88.33
27-Jun-15 05:00:00	27-Jun-15 06:00:00		8.88	0.00	0.00	5.12	2.1	329.7		2.93	0.00	0.00	1.69		10.35	18.92	83.84	86.68	27-Jun-15 05:00:00		13.28	18.92	83.84	88.37
27-Jun-15 06:00:00	27-Jun-15 07:00:00		0.11	0.00	0.00	5.03	2.1	329.7		0.04	0.00	0.00	1.66		10.35	18.92	83.84	86.68	27-Jun-15 06:00:00		10.39	18.92	83.84	88.34
27-Jun-15 07:00:00	27-Jun-15 08:00:00		0.00	0.00	0.00	4.74	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	27-Jun-15 07:00:00		10.35	18.92	83.84	88.24
27-Jun-15 08:00:00	27-Jun-15 09:00:00		0.00	0.00	0.00	4.45	2.1	329.7		0.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	27-Jun-15 08:00:00		10.35	18.92	83.84	88.15
27-Jun-15 09:00:00	27-Jun-15 10:00:00		0.00	0.00	0.00	4.19	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	27-Jun-15 09:00:00		10.35	18.92	83.84	88.06
27-Jun-15 10:00:00	27-Jun-15 11:00:00		0.00	0.00	0.00	4.16	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	27-Jun-15 10:00:00		10.35	18.92	83.84	88.05
27-Jun-15 11:00:00	27-Jun-15 12:00:00		1.46	0.00	0.00	13.79	2.1	329.7		0.48	0.00	0.00	4.55		10.35	18.92	83.84	86.68	27-Jun-15 11:00:00		10.83	18.92	83.84	91.23
27-Jun-15 12:00:00	27-Jun-15 13:00:00		4.80	0.00	0.00	4.02	2.1	329.7		1.58	0.00	0.00	1.33		10.35	18.92	83.84	86.68	27-Jun-15 12:00:00		11.93	18.92	83.84	88.01
27-Jun-15 13:00:00	27-Jun-15 14:00:00		3.32	0.00	0.00	3.86	2.1	329.7		1.10	0.00	0.00	1.27		10.35	18.92	83.84	86.68	27-Jun-15 13:00:00		11.45	18.92	83.84	87.95
27-Jun-15 14:00:00	27-Jun-15 15:00:00		6.08	0.00	0.00	3.70	2.1	329.7		2.00	0.00	0.00	1.22		10.35	18.92	83.84	86.68	27-Jun-15 14:00:00		12.35	18.92	83.84	87.90
27-Jun-15 15:00:00	27-Jun-15 16:00:00		0.00	0.00	0.00	3.60	2.1	329.7		0.00	0.00	0.00	1.19		10.35	18.92	83.84	86.68	27-Jun-15 15:00:00		10.35	18.92	83.84	87.87
27-Jun-15 16:00:00	27-Jun-15 17:00:00		0.00	0.00	0.00	3.

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
29-Jun-15 14:00:00	29-Jun-15 15:00:00		2.99	0.00	0.00	3.40	2.1	329.7		0.99	0.00	0.00	1.12		10.35	18.92	83.84	86.68	29-Jun-15 14:00:00		11.34	18.92	83.84	87.80
29-Jun-15 15:00:00	29-Jun-15 16:00:00		7.93	0.00	0.00	3.32	2.1	329.7		2.61	0.00	0.00	1.09		10.35	18.92	83.84	86.68	29-Jun-15 15:00:00		12.96	18.92	83.84	87.77
29-Jun-15 16:00:00	29-Jun-15 17:00:00		10.37	0.00	0.00	3.23	2.1	329.7		3.42	0.00	0.00	1.07		10.35	18.92	83.84	86.68	29-Jun-15 16:00:00		13.77	18.92	83.84	87.75
29-Jun-15 17:00:00	29-Jun-15 18:00:00		0.27	0.00	0.00	3.15	2.1	329.7		0.09	0.00	0.00	1.04		10.35	18.92	83.84	86.68	29-Jun-15 17:00:00		10.44	18.92	83.84	87.72
29-Jun-15 18:00:00	29-Jun-15 19:00:00		0.00	0.00	0.00	3.06	2.1	329.7		0.00	0.00	0.00	1.01		10.35	18.92	83.84	86.68	29-Jun-15 18:00:00		10.35	18.92	83.84	87.69
29-Jun-15 19:00:00	29-Jun-15 20:00:00		0.00	0.00	0.00	23.07	2.1	329.7		0.00	0.00	0.00	7.61		10.35	18.92	83.84	86.68	29-Jun-15 19:00:00		10.35	18.92	83.84	94.29
29-Jun-15 20:00:00	29-Jun-15 21:00:00		0.00	0.00	0.00	3.15	2.1	329.7		0.00	0.00	0.00	1.04		10.35	18.92	83.84	86.68	29-Jun-15 20:00:00		10.35	18.92	83.84	87.72
29-Jun-15 21:00:00	29-Jun-15 22:00:00		0.00	0.00	0.00	3.29	2.1	329.7		0.00	0.00	0.00	1.08		10.35	18.92	83.84	86.68	29-Jun-15 21:00:00		10.35	18.92	83.84	87.76
29-Jun-15 22:00:00	29-Jun-15 23:00:00		0.34	0.00	0.00	3.42	2.1	329.7		0.11	0.00	0.00	1.13		10.35	18.92	83.84	86.68	29-Jun-15 22:00:00		10.46	18.92	83.84	87.81
29-Jun-15 23:00:00	30-Jun-15 00:00:00		0.00	0.00	0.00	3.58	2.1	329.7		0.00	0.00	0.00	1.18		10.35	18.92	83.84	86.68	29-Jun-15 23:00:00		10.35	18.92	83.84	87.86
30-Jun-15 00:00:00	30-Jun-15 01:00:00		0.00	0.00	0.00	3.74	2.1	329.7		0.00	0.00	0.00	1.23		10.35	18.92	83.84	86.68	30-Jun-15 00:00:00		10.35	18.92	83.84	87.91
30-Jun-15 01:00:00	30-Jun-15 02:00:00		2.22	0.00	0.00	3.90	2.1	329.7		0.73	0.00	0.00	1.28		10.35	18.92	83.84	86.68	30-Jun-15 01:00:00		11.08	18.92	83.84	87.96
30-Jun-15 02:00:00	30-Jun-15 03:00:00		24.40	0.00	0.00	4.05	2.1	329.7		8.04	0.00	0.00	1.33		10.35	18.92	83.84	86.68	30-Jun-15 02:00:00		18.39	18.92	83.84	88.01
30-Jun-15 03:00:00	30-Jun-15 04:00:00		8.05	0.00	0.00	4.12	2.1	329.7		2.65	0.00	0.00	1.36		10.35	18.92	83.84	86.68	30-Jun-15 03:00:00		13.00	18.92	83.84	88.04
30-Jun-15 04:00:00	30-Jun-15 05:00:00		0.68	0.00	0.00	4.16	2.1	329.7		0.22	0.00	0.00	1.37		10.35	18.92	83.84	86.68	30-Jun-15 04:00:00		10.57	18.92	83.84	88.05
30-Jun-15 05:00:00	30-Jun-15 06:00:00		0.95	0.00	0.00	4.24	2.1	329.7		0.31	0.00	0.00	1.40		10.35	18.92	83.84	86.68	30-Jun-15 05:00:00		10.66	18.92	83.84	88.08
30-Jun-15 06:00:00	30-Jun-15 07:00:00		5.04	0.00	0.00	4.32	2.1	329.7		1.66	0.00	0.00	1.42		10.35	18.92	83.84	86.68	30-Jun-15 06:00:00		12.01	18.92	83.84	88.10
30-Jun-15 07:00:00	30-Jun-15 08:00:00		0.88	0.00	0.00	12.20	2.1	329.7		0.29	0.00	0.00	4.02		10.35	18.92	83.84	86.68	30-Jun-15 07:00:00		10.64	18.92	83.84	90.70
30-Jun-15 08:00:00	30-Jun-15 09:00:00		0.02	0.00	0.00	4.31	2.1	329.7		0.01	0.00	0.00	1.42		10.35	18.92	83.84	86.68	30-Jun-15 08:00:00		10.36	18.92	83.84	88.10
30-Jun-15 09:00:00	30-Jun-15 10:00:00		0.20	0.00	0.00	4.09	2.1	329.7		0.07	0.00	0.00	1.35		10.35	18.92	83.84	86.68	30-Jun-15 09:00:00		10.42	18.92	83.84	88.03
30-Jun-15 10:00:00	30-Jun-15 11:00:00		4.13	0.00	0.00	3.88	2.1	329.7		1.36	0.00	0.00	1.28		10.35	18.92	83.84	86.68	30-Jun-15 10:00:00		11.71	18.92	83.84	87.96
30-Jun-15 11:00:00	30-Jun-15 12:00:00		0.40	0.00	0.00	3.68	2.1	329.7		0.13	0.00	0.00	1.21		10.35	18.92	83.84	86.68	30-Jun-15 11:00:00		10.48	18.92	83.84	87.89
30-Jun-15 12:00:00	30-Jun-15 13:00:00		1.08	0.00	0.00	3.61	2.1	329.7		0.36	0.00	0.00	1.19		10.35	18.92	83.84	86.68	30-Jun-15 12:00:00		10.71	18.92	83.84	87.87
30-Jun-15 13:00:00	30-Jun-15 14:00:00		1.96	0.00	0.00	3.39	2.1	329.7		0.65	0.00	0.00	1.12		10.35	18.92	83.84	86.68	30-Jun-15 13:00:00		11.00	18.92	83.84	87.80
30-Jun-15 14:00:00	30-Jun-15 15:00:00		1.05	0.00	0.00	3.17	2.1	329.7		0.35	0.00	0.00	1.04		10.35	18.92	83.84	86.68	30-Jun-15 14:00:00		10.70	18.92	83.84	87.72
30-Jun-15 15:00:00	30-Jun-15 16:00:00		0.66	0.00	0.00	2.95	2.1	329.7		0.22	0.00	0.00	0.97		10.35	18.92	83.84	86.68	30-Jun-15 15:00:00		10.57	18.92	83.84	87.65
30-Jun-15 16:00:00	30-Jun-15 17:00:00		0.26	0.00	0.00	3.46	2.1	329.7		0.09	0.00	0.00	1.14		10.35	18.92	83.84	86.68	30-Jun-15 16:00:00		10.44	18.92	83.84	87.82
30-Jun-15 17:00:00	30-Jun-15 18:00:00		1.14	0.00	0.00	14.33	2.1	329.7		0.38	0.00	0.00	4.73		10.35	18.92	83.84	86.68	30-Jun-15 17:00:00		10.73	18.92	83.84	91.41
30-Jun-15 18:00:00	30-Jun-15 19:00:00		5.44	0.00	0.00	4.05	2.1	329.7		1.79	0.00	0.00	1.34		10.35	18.92	83.84	86.68	30-Jun-15 18:00:00		12.14	18.92	83.84	88.02
30-Jun-15 19:00:00	30-Jun-15 20:00:00		0.70	0.00	0.00	4.08	2.1	329.7		0.23	0.00	0.00	1.35		10.35	18.92	83.84	86.68	30-Jun-15 19:00:00		10.58	18.92	83.84	88.03
30-Jun-15 20:00:00	30-Jun-15 21:00:00		3.07	0.00	0.00	4.11	2.1	329.7		1.01	0.00	0.00	1.36		10.35	18.92	83.84	86.68	30-Jun-15 20:00:00		11.36	18.92	83.84	88.04
30-Jun-15 21:00:00	30-Jun-15 22:00:00		0.14	0.00	0.00	4.10	2.1	329.7		0.04	0.00	0.00	1.35		10.35	18.92	83.84	86.68	30-Jun-15 21:00:00		10.39	18.92	83.84	88.03
30-Jun-15 22:00:00	30-Jun-15 23:00:00		0.38	0.00	0.00	4.12	2.1	329.7		0.12	0.00	0.00	1.36		10.35	18.92	83.84	86.68	30-Jun-15 22:00:00		10.47	18.92	83.84	88.04
30-Jun-15 23:00:00	01-Jul-15 00:00:00		0.62	0.00	0.00	4.15	2.1	329.7		0.20	0.00	0.00	1.37		10.35	18.92	83.84	86.68	30-Jun-15 23:00:00		10.55	18.92	83.84	88.05
01-Jul-15 00:00:00	01-Jul-15 01:00:00		1.95	0.00	0.00	4.18	2.1	329.7		0.64	0.00	0.00	1.38		10.35	18.92	83.84	86.68	01-Jul-15 00:00:00		10.99	18.92	83.84	88.06
01-Jul-15 01:00:00	01-Jul-15 02:00:00		2.41	0.00	0.00	4.13	2.1	329.7		0.79	0.00	0.00	1.36		10.35	18.92	83.84	86.68	01-Jul-15 01:00:00		11.14	18.92	83.84	88.04
01-Jul-15 02:00:00	01-Jul-15 03:00:00		0.20	0.00	0.00	4.18	2.1	329.7		0.07	0.00	0.00	1.38		10.35	18.92	83.84	86.68	01-Jul-15 02:00:00		10.42	18.92	83.84	88.06
01-Jul-15 03:00:00	01-Jul-15 04:00:00		0.07	0.00	0.00	4.24	2.1	329.7		0.02	0.00	0.00	1.40		10.35	18.92	83.84	86.68	01-Jul-15 03:00:00		10.37	18.92	83.84	88.08
01-Jul-15 04:00:00	01-Jul-15 05:00:00		16.56	0.00	0.00	4.31	2.1	329.7		5.46	0.00	0.00	1.42		10.35	18.92	83.84	86.68	01-Jul-15 04:00:00		15.81	18.92	83.84	88.10
01-Jul-15 05:00:00	01-Jul-15 06:00:00		20.15	0.00	0.00	4.34	2.1	329.7		6.64	0.00	0.00	1.43		10.35	18.92	83.84	86.68	01-Jul-15 05:00:00		16.99	18.92	83.84	88.11
01-Jul-15 06:00:00	01-Jul-15 07:00:00		2.36	0.00	0.00	4.30	2.1	329.7		0.78	0.00	0.00	1.42		10.35	18.92	83.84	86.68	01-Jul-15 06:00:00		11.13	18.92	83.84	88.10
01-Jul-15 07:00:00	01-Jul-15 08:00:00		6.43	0.00	0.00	4.26	2.1	329.7		2.12	0.00	0.00	1.40		10.35	18.92	83.84	86.68	01-Jul-15 07:00:00		12.47	18.92	83.84	88.08
01-Jul-15 08:00:00	01-Jul-15 09:00:00		9.90	0.00	0.00	9.01	2.1	329.7		3.27	0.00	0.00	2.97		10.35	18.92	83.84	86.68	01-Jul-15 08:00:00		13.62	18.92	83.84	89.65
01-Jul-15 09:00:00	01-Jul-15 10:00:00		7.07	0.00	0.00	4.09	2.1	329.7		2.33	0.00	0.00	1.35		10.35	18.92	83.84	86.68	01-Jul-15 09:00:00		12.68	18.92	83.84	88.03
01-Jul-15 10:00:00	01-Jul-15 11:00:00		3.02	0.00	0.00	3.99	2.1	329.7		0.99	0.00	0.00	1.32		10.35	18.92	83.84	86.68	01-Jul-15 10:00:00		11.34	18.92	83.84	88.00
01-Jul-15 11:00:00	01-Jul-15 12:00:00		3.32	0.00	0.00	3.90	2.1	329.7		1.10	0.00	0.00	1.28		10.35	18.92	83.84	86.68	01-Jul-15 11:00:00		11.45	18.92	83.84	87.96
01-Jul-15 12:00:00	01-Jul-15 13:00:00		4.29	0.00	0.00	3.98	2.1	329.7		1.41	0.00	0.00	1.31		10.35	18.92	83.84	86.68	01-Jul-15 12:00:00		11.76	18.92	83.84	87.99
01-Jul-15 13:00:00	01-Jul-15 14:00:00		9.15	0.00	0.00	3.81	2.1	329.7		3.02	0.00	0.00	1.26		10.35	18.92	83.84	86.68	01-Jul-15 13:00:00		13.37	18.92	83.84	87.94
01-Jul-15 14:00:00	01-Jul-15 15:00:00		2.52	0.00	0.00	3.61	2.1	329.7		0.83	0.00	0.00	1.19		10.35	18.92	83.84	86.68	01-Jul-15 14:00:00		11.18	18.92	83.84	87.87
01-Jul-15 15:00:00	01-Jul-15 16:00:00		0.00	0.00	0.00	3.40	2.1	329.7		0.00	0.00	0.00	1.12		10.35	18.92	83.84	86.68	01-Jul-15 15:00:00		10.35	18.92	83.84	87.80
01-Jul-15 16:00:00	01-Jul-15 17:00:00		544.19	0.00	0.00	3.28	2.1	329.7		179.42	0.00	0.00	1.08		10.35	18.92	83.84	86.68	01-Jul-15 16:00:00		189.77	18.92	83.84	87.76
01-Jul-15 17:00:00	01-Jul-15 18:00:00		992.69	0.00	0.00	3.34	2.1	329.7		327.29	0.00	0.00	1.10		10.35	18.92	83.84	86.68	01-Jul-15 17:00:00		337.64	18.92	83.84	87.78
01-Jul-15 18:00:00	01-Jul-15 19:00:00		882.12	0.00	0.00	3.42	2.1	329.7		290.83	0.00	0.00	1.13		10.35	18.92	83.84	86.68	01-Jul-15 18:00:00		301.18	18.92	83.84	87.81
01-Jul-15 19:00:00	01-Jul-15 20:00:00		1,086.98	0.00	0.00	3.50	2.1	329.7		358.38	0.00	0.00	1.15		10.35	18.92	83.84	86.68	01-Jul-15 19:00:00		368.73	18.92	83.84	87.83
01-Jul-15 20:00:00	01-Jul-15 21:00:00		1,465.26	0.00	0.00	3.51	2.1	329.7		483.09	0.00	0.00	1.16		10.35	18.92	83.84	86.68	01-Jul-15 20:00:00		493.44	18.92	83.84	87.84
01-Jul-15 21:00:00	01-Jul-15 22:00:00		1,633.70	253.23	0.00	3.66	2.1	329.7		538.63	83.49	0.00	1.21		10.35	18.92	83.84	86.68	01-Jul-15 21:00:00		548.98	102.41	83.84	87.89
01-Jul-15 22:00:00	01-Jul-15 23:00:00		1,660.74	305.46	0.00	3.85	2.1	329.7		547.55	100.71	0.00	1.27		10.35	18.92	83.84	86.68	01-Jul-15 22:00:00		557.90	119.63	83.84	87.95
01-Jul-15 23:00:00	02-Jul-15 00:00:00		1,635.81	305.20	0.00	4.03	2.1	329.7		539.33	100.62	0.00	1.33		10.35	18.92	83.84	86.68	01-Jul-15 23:00:00		549.68	119.54	83.84	88.01
02-Jul-15 00:00:00	02-Jul-15 01:00:00		1,170.07	337.18	0.00	4.16	2.1	329.7		385.77	111.17	0.00	1.37		10.35	18.92	83.84	86.68	02-Jul-15 00:00:00		396.12	130.09	83.84	88.05
02-Jul-15 01:00:00	02-Jul-15 02:00:00		232.22	53.67	1.11	7.60	2.1	329.7		76.59	17.69	0.04	2.50		10.35	18.92	83.84	86.68	02-Jul-15 01:00:00		86.94	36.61	83.88	89.18
02-Jul-15 02:00:00	02-Jul-15 03:00:00		0.15	0.00	0.00	4.34	2.1	329.7		0.05	0.00	0.00	1.43		10.35	18.92	83.84	86.68	02-Jul-15 02:00:00		10.40	18.92	83.84	88.11
02-Jul-15 03:00:00	02-Jul-15 04:00:00		0.80	0.00	0.00	4.46	2.1	329.7		0.26	0.00	0.00	1.47		10.35	18.92	83.84	86.68	02-Jul-15 03:00:00		10.61	18.92	83.84	88.15
02-Jul-15 04:00:00	02-Jul-15 05:00:00		0.31	0.00	0.00	5.09	2.1	329.7		0.10	0.00	0.00	1.68		10.35	18.92	83.84	86.68	02-Jul-15 04:00:00		10.45	18.92	83.84	88.36
02-Jul-15 05:00:00	02-Jul-15 06:00:00		7.58	0.00	0.00	4.51	2.1	329.7		2.50	0.00	0.00	1.49		10.35	18.92	83.84	86.68	02-Jul-15 05:00:00		12.85	18.92	83.84	88.17
02-Jul-15 06:00:00	02-Jul-15 07:00:00		12.37	0.00	0.00	4.42	2.1	329.7		4.08	0.00	0.00	1.46		10.35	18.92	83.84	86.68	02-Jul-15 06:00:00		14.43	18.92	83.84	88.14
02-Jul-15 07:00:00	02-Jul-15 08:00:00		13.76	0.00	0.00	4.34	2.1	329.7		4.54	0.00	0.00	1.43		10.35	18.92	83.84	86.68	02-Jul-15 07:00:00		14.89	18.92	83.84	88.11
02-Jul-15 08:00:00	02-Jul-15 09:00:00		5.69	0.00	0.00	4.28	2.1	329.7		1.88	0.00	0.00	1.41		10.35	18.92	83.84	86.68	02-Jul-15 08:00:00		12.23	18.92	83.84	88.09
02-Jul-15 09:00:00	02-Jul-15 10:00:00		2.95	0.00	0.00	4.22	2.1	329.7		0.97	0.00	0.00	1.39		10.35	18.92	83.84	86.68	02-Jul-15 09:00:00		11.32	18.92	83.84	88.07
02-Jul-15 10:00:00	02-Jul-15 11:00:00		6.47	0.00	0.00	4.14	2.1	329.7		2.13	0.00	0.00	1.37		10.35	18.92	83.84	86.68	02-Jul-15 10:00:00		12.48	18.92	83.84	88.05
02-Jul-15 11:00:00	02-Jul-15 12:00:00		2.75	0.00	0.00	4.06	2.1	329.7		0.91	0.00	0.00	1.34		10.35	18.92	83.84	86.68	02-Jul-15 11:00:00		11.26	18.92	83.84	88.02
02-Jul-15 12:00:00	02-Jul-15 13:00:00		1.10	0.00	0.00	3.93	2.1	329.7		0.36	0.00	0.00	1.30		10.35	18.92	83.84	86.68	02-Jul-15 12:00:00		10.71	18.92	83.84	87.98
02-Jul-15 13:00:00	02-Jul-15 14:00:00		4.48	0.00	0.00	3.77	2.1	329.7		1.48	0.00	0.00	1.24		10.35	18.92	83.84	86.68	02-Jul-15 13:00:00		11.83	18.92	83.84	87.92
02-Jul-15 14:00:00	02-Jul-15 15:00:00		0.53	776.89	0.00	3.65	2.1	329.7		0.17	256.14	0.00	1.20		10.35	18.92	83.84	86.68	02-Jul-15 14:00:00		10.52	275.06	83.84	87.88
02-Jul-15 15:00:00	02-Jul-15 16:00:00		0.00	1,804.93	0.00	3.52	2.1	329.7		0.00	595.08	0.00	1.16		10.35	18.92	83.84	86.68	02-Jul-15 15:00:00		10.35	614.00	83.84	87.84
02-Jul-15 16:00:00	02-Jul-15 17:00:00		0.00	1,857.36	0.00	3.44	2.1	329.7		0.00	612.37	0.00	1.13		10.35	18.92	83.84	86.68	02-Jul-15 16:00:00		10.35	631.29	83.84	87.81
02-Jul-15 17:00:00	02-Jul-15 18:00:00		0.35	1,259.80	0.00	3.64	2.1	329.7		0.11	415.36	0.00	1.20		10.35	18.92	83.84	86.68	02-Jul-15 17:00:00		10.46	434.28	83.84	87.88
02-Jul-15 18:00:00	02-Jul-15 19:00:00		0.00	2,025.95	0.00	3.88	2.1	329.7		0.00	667.96	0.00	1.28		10.35	18.92	83.84	86.68	02-Jul-15 18:00:00		10.35	686.88	83.84	87.96
02-Jul-15 19:00:00	02-Jul-15 20:00:00		1.45	2,150.05	0.00	4.12	2.1	329.7		0.48	708.87	0.00	1.36		10.35	18.92	83.84	86.68	02-Jul-15 19:00:00		10.83	727.79	83.84	88.04
02-Jul-15 20:00:00	02-Jul-15 21:00:00		0.07	249.26	0.00	4.33	2.1	329.7		0.02	82.18	0.00	1.43		10.35	18.92	83.84	86.68	02-Jul-15 20:00:00		10.37	101.10	83.84	88.11
02-Jul-15 21:00:00	02-Jul-15 22:00:00		4.36	0.00	0.00	4.34	2.1	329.7		1.44	0.00	0.00	1.43		10.35	18.92	83.84	86.68	02-Jul-15 21:00:00		11.79	18.92	83.84	88.11
02-Jul-15 22:00:00	02-Jul-15 23:00:00		4.23	0.00	0.00	4.33	2.1	329.7		1.39	0.00	0.00	1.43		10.35	18.92	83.84	86.68	02-Jul-15 22:00:00		11.74	18.92	83.84	88.11
02-Jul-15 23:00:00	03-Jul-15 00:00:00		0.00	0.00	0.00	4.31	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	02-Jul-15 23:00:00		10.35	18.92	83.84	88.10
03-Jul-15 00:00:00	03-Jul-15 01:00:00		0.00	0.00	0.00	4.25	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	03-Jul-15 00:00:00		10.35	18.92	83.84	88.08
03-Jul-15 01:00:00	03-Jul-15 02:00:00		0.00	0.00	0.00	67.18	2.1	329.7		0.00	0.00	0.00	22.15		10.35	18.92	83.84	86.68	03-Jul-15 01:00:00		10.35	18.92	83.84	108.83
03-Jul-15 02:00:00	03-Jul-15 03:00:00		0.00	0.00	0.00	4.08	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	03-Jul-15 02:00:00		10.35	18.92	83.84	88.03
03-Jul-15 03:00:00	03-Jul-15 04:00:00		0.00	0.00	0.00	4.07	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	03-Jul-15 03:00:00		10.35	18.92	83.84	88.02
03-Jul-15 04:00:00	03-Jul-15 05:00:00		0.55	0.00	0.00	4.06	2.1	329.7		0.18	0.00	0.00	1.34		10.35	18.92	83.84	86.68	03-Jul-15 04:00:00		10.53	18.92	83.84	88.02
03-Jul-15 05:00:00	03-Jul-15 06:00:00		0.76	0.00	0.00	4.05	2.1	329.7		0.25	0.00	0.00	1.34		10.35	18.92	83.84	86.68	03-Jul-15 05:00:00		10.60	18.92	83.84	88.02
03-Jul-15 06:00:00	03-Jul-15 07:00:00		0.00	0.00	0.00	8.72	2.1	329.7		0.00	0.00	0.00	2.87		10.35	18.92	83.84	86.68	03-Jul-15 06:00:00		10.35	18.92	83.84	89.55
03-Jul-15 07:00:00	03-Jul-15 08:00:00		0.00	0.00	0.00	4.12	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	03-Jul-15 07:00:00		10.35	18.92	83.84	88.04
03-Jul-15 08:00:00	03-Jul-15 09:00:00		0.00	0.00	0.00	4.10	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	03-Jul-15 08:00:00		10.35	18.92	83.84	88.03
03-Jul-15 09:00:00	03-Jul-15 10:00:00		0.00	0.00	0.00	4.07	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	03-Jul-15 09:00:00		10.35	18.92	83.84	88.02
03-Jul-15 10:00:00	03-Jul-15 11:00:00		0.03	0.00	0.00	3.99	2.1	329.7		0.01	0.00	0.00	1.32		10.35	18.92	83.84	86.68	03-Jul-15 10:00:00		10.36	18.92	83.84	88.00
03-Jul-15 11:00:00	03-Jul-15 12:00:00		6

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
05-Jul-15 09:00:00	05-Jul-15 10:00:00		0.63	0.00	0.00	3.88	2.1	329.7		0.21	0.00	0.00	1.28		10.35	18.92	83.84	86.68	05-Jul-15 09:00:00		10.56	18.92	83.84	87.96
05-Jul-15 10:00:00	05-Jul-15 11:00:00		0.20	0.00	0.00	3.71	2.1	329.7		0.06	0.00	0.00	1.22		10.35	18.92	83.84	86.68	05-Jul-15 10:00:00		10.41	18.92	83.84	87.90
05-Jul-15 11:00:00	05-Jul-15 12:00:00		1.67	0.00	0.00	3.58	2.1	329.7		0.55	0.00	0.00	1.18		10.35	18.92	83.84	86.68	05-Jul-15 11:00:00		10.90	18.92	83.84	87.86
05-Jul-15 12:00:00	05-Jul-15 13:00:00		4.76	0.00	0.00	3.40	2.1	329.7		1.57	0.00	0.00	1.12		10.35	18.92	83.84	86.68	05-Jul-15 12:00:00		11.92	18.92	83.84	87.80
05-Jul-15 13:00:00	05-Jul-15 14:00:00		2.52	0.00	0.00	3.33	2.1	329.7		0.83	0.00	0.00	1.10		10.35	18.92	83.84	86.68	05-Jul-15 13:00:00		11.18	18.92	83.84	87.78
05-Jul-15 14:00:00	05-Jul-15 15:00:00		0.31	0.00	0.00	3.18	2.1	329.7		0.10	0.00	0.00	1.05		10.35	18.92	83.84	86.68	05-Jul-15 14:00:00		10.45	18.92	83.84	87.73
05-Jul-15 15:00:00	05-Jul-15 16:00:00		0.68	0.00	0.00	3.25	2.1	329.7		0.22	0.00	0.00	1.07		10.35	18.92	83.84	86.68	05-Jul-15 15:00:00		10.57	18.92	83.84	87.75
05-Jul-15 16:00:00	05-Jul-15 17:00:00		1.66	0.00	0.00	3.31	2.1	329.7		0.55	0.00	0.00	1.09		10.35	18.92	83.84	86.68	05-Jul-15 16:00:00		10.90	18.92	83.84	87.77
05-Jul-15 17:00:00	05-Jul-15 18:00:00		0.26	0.00	0.00	3.38	2.1	329.7		0.08	0.00	0.00	1.11		10.35	18.92	83.84	86.68	05-Jul-15 17:00:00		10.43	18.92	83.84	87.79
05-Jul-15 18:00:00	05-Jul-15 19:00:00		0.31	0.00	0.00	3.57	2.1	329.7		0.10	0.00	0.00	1.18		10.35	18.92	83.84	86.68	05-Jul-15 18:00:00		10.45	18.92	83.84	87.86
05-Jul-15 19:00:00	05-Jul-15 20:00:00		0.24	0.00	0.00	3.80	2.1	329.7		0.08	0.00	0.00	1.25		10.35	18.92	83.84	86.68	05-Jul-15 19:00:00		10.43	18.92	83.84	87.93
05-Jul-15 20:00:00	05-Jul-15 21:00:00		0.13	0.00	0.00	13.63	2.1	329.7		0.04	0.00	0.00	4.49		10.35	18.92	83.84	86.68	05-Jul-15 20:00:00		10.39	18.92	83.84	91.17
05-Jul-15 21:00:00	05-Jul-15 22:00:00		4.63	0.00	0.00	4.14	2.1	329.7		1.53	0.00	0.00	1.37		10.35	18.92	83.84	86.68	05-Jul-15 21:00:00		11.88	18.92	83.84	88.05
05-Jul-15 22:00:00	05-Jul-15 23:00:00		3.65	0.00	0.00	4.14	2.1	329.7		1.20	0.00	0.00	1.36		10.35	18.92	83.84	86.68	05-Jul-15 22:00:00		11.55	18.92	83.84	88.04
05-Jul-15 23:00:00	06-Jul-15 00:00:00		3.15	0.00	0.00	15.16	2.1	329.7		1.04	0.00	0.00	5.00		10.35	18.92	83.84	86.68	05-Jul-15 23:00:00		11.39	18.92	83.84	91.68
06-Jul-15 00:00:00	06-Jul-15 01:00:00		0.81	0.00	0.00	4.31	2.1	329.7		0.27	0.00	0.00	1.42		10.35	18.92	83.84	86.68	06-Jul-15 00:00:00		10.62	18.92	83.84	88.10
06-Jul-15 01:00:00	06-Jul-15 02:00:00		0.00	0.00	0.00	4.30	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	06-Jul-15 01:00:00		10.35	18.92	83.84	88.10
06-Jul-15 02:00:00	06-Jul-15 03:00:00		0.25	0.00	0.00	4.29	2.1	329.7		0.08	0.00	0.00	1.41		10.35	18.92	83.84	86.68	06-Jul-15 02:00:00		10.43	18.92	83.84	88.09
06-Jul-15 03:00:00	06-Jul-15 04:00:00		1.37	0.00	0.00	4.31	2.1	329.7		0.45	0.00	0.00	1.42		10.35	18.92	83.84	86.68	06-Jul-15 03:00:00		10.80	18.92	83.84	88.10
06-Jul-15 04:00:00	06-Jul-15 05:00:00		10.93	0.00	0.00	4.13	2.1	329.7		3.60	0.00	0.00	1.36		10.35	18.92	83.84	86.68	06-Jul-15 04:00:00		13.95	18.92	83.84	88.04
06-Jul-15 05:00:00	06-Jul-15 06:00:00		23.63	0.00	0.00	4.09	2.1	329.7		7.79	0.00	0.00	1.35		10.35	18.92	83.84	86.68	06-Jul-15 05:00:00		18.14	18.92	83.84	88.03
06-Jul-15 06:00:00	06-Jul-15 07:00:00		23.20	0.00	0.00	4.27	2.1	329.7		7.65	0.00	0.00	1.41		10.35	18.92	83.84	86.68	06-Jul-15 06:00:00		18.00	18.92	83.84	88.09
06-Jul-15 07:00:00	06-Jul-15 08:00:00		22.77	0.00	0.00	4.03	2.1	329.7		7.51	0.00	0.00	1.33		10.35	18.92	83.84	86.68	06-Jul-15 07:00:00		17.86	18.92	83.84	88.01
06-Jul-15 08:00:00	06-Jul-15 09:00:00		22.18	0.00	0.00	3.98	2.1	329.7		7.31	0.00	0.00	1.31		10.35	18.92	83.84	86.68	06-Jul-15 08:00:00		17.66	18.92	83.84	87.99
06-Jul-15 09:00:00	06-Jul-15 10:00:00		16.77	0.00	0.00	3.93	2.1	329.7		5.53	0.00	0.00	1.30		10.35	18.92	83.84	86.68	06-Jul-15 09:00:00		15.88	18.92	83.84	87.98
06-Jul-15 10:00:00	06-Jul-15 11:00:00		9.23	0.00	0.00	3.69	2.1	329.7		3.04	0.00	0.00	1.22		10.35	18.92	83.84	86.68	06-Jul-15 10:00:00		13.39	18.92	83.84	87.90
06-Jul-15 11:00:00	06-Jul-15 12:00:00		3.63	0.00	0.00	3.45	2.1	329.7		1.20	0.00	0.00	1.14		10.35	18.92	83.84	86.68	06-Jul-15 11:00:00		11.55	18.92	83.84	87.82
06-Jul-15 12:00:00	06-Jul-15 13:00:00		0.32	0.00	0.00	3.27	2.1	329.7		0.10	0.00	0.00	1.08		10.35	18.92	83.84	86.68	06-Jul-15 12:00:00		10.45	18.92	83.84	87.76
06-Jul-15 13:00:00	06-Jul-15 14:00:00		2.80	0.00	0.00	3.10	2.1	329.7		0.92	0.00	0.00	1.02		10.35	18.92	83.84	86.68	06-Jul-15 13:00:00		11.27	18.92	83.84	87.70
06-Jul-15 14:00:00	06-Jul-15 15:00:00		0.07	0.00	0.00	3.00	2.1	329.7		0.02	0.00	0.00	0.99		10.35	18.92	83.84	86.68	06-Jul-15 14:00:00		10.37	18.92	83.84	87.67
06-Jul-15 15:00:00	06-Jul-15 16:00:00		0.00	0.00	0.00	2.90	2.1	329.7		0.00	0.00	0.00	0.96		10.35	18.92	83.84	86.68	06-Jul-15 15:00:00		10.35	18.92	83.84	87.64
06-Jul-15 16:00:00	06-Jul-15 17:00:00		0.00	0.00	0.00	2.78	2.1	329.7		0.00	0.00	0.00	0.92		10.35	18.92	83.84	86.68	06-Jul-15 16:00:00		10.35	18.92	83.84	87.60
06-Jul-15 17:00:00	06-Jul-15 18:00:00		0.00	0.00	0.00	2.66	2.1	329.7		0.00	0.00	0.00	0.88		10.35	18.92	83.84	86.68	06-Jul-15 17:00:00		10.35	18.92	83.84	87.56
06-Jul-15 18:00:00	06-Jul-15 19:00:00		0.00	0.00	0.00	2.74	2.1	329.7		0.00	0.00	0.00	0.90		10.35	18.92	83.84	86.68	06-Jul-15 18:00:00		10.35	18.92	83.84	87.58
06-Jul-15 19:00:00	06-Jul-15 20:00:00		0.00	0.00	0.00	3.00	2.1	329.7		0.00	0.00	0.00	0.99		10.35	18.92	83.84	86.68	06-Jul-15 19:00:00		10.35	18.92	83.84	87.67
06-Jul-15 20:00:00	06-Jul-15 21:00:00		0.00	0.00	0.00	3.23	2.1	329.7		0.00	0.00	0.00	1.06		10.35	18.92	83.84	86.68	06-Jul-15 20:00:00		10.35	18.92	83.84	87.74
06-Jul-15 21:00:00	06-Jul-15 22:00:00		0.03	0.00	0.00	3.46	2.1	329.7		0.01	0.00	0.00	1.14		10.35	18.92	83.84	86.68	06-Jul-15 21:00:00		10.36	18.92	83.84	87.82
06-Jul-15 22:00:00	06-Jul-15 23:00:00		2.70	0.00	0.00	3.61	2.1	329.7		0.89	0.00	0.00	1.19		10.35	18.92	83.84	86.68	06-Jul-15 22:00:00		11.24	18.92	83.84	87.87
06-Jul-15 23:00:00	07-Jul-15 00:00:00		0.00	0.00	0.00	3.68	2.1	329.7		0.00	0.00	0.00	1.21		10.35	18.92	83.84	86.68	06-Jul-15 23:00:00		10.35	18.92	83.84	87.89
07-Jul-15 00:00:00	07-Jul-15 01:00:00		0.00	0.00	0.00	3.74	2.1	329.7		0.00	0.00	0.00	1.23		10.35	18.92	83.84	86.68	07-Jul-15 00:00:00		10.35	18.92	83.84	87.91
07-Jul-15 01:00:00	07-Jul-15 02:00:00		0.00	0.00	0.00	3.81	2.1	329.7		0.00	0.00	0.00	1.26		10.35	18.92	83.84	86.68	07-Jul-15 01:00:00		10.35	18.92	83.84	87.94
07-Jul-15 02:00:00	07-Jul-15 03:00:00		0.15	0.00	0.00	3.85	2.1	329.7		0.05	0.00	0.00	1.27		10.35	18.92	83.84	86.68	07-Jul-15 02:00:00		10.40	18.92	83.84	87.95
07-Jul-15 03:00:00	07-Jul-15 04:00:00		7.08	0.00	0.00	3.89	2.1	329.7		2.33	0.00	0.00	1.28		10.35	18.92	83.84	86.68	07-Jul-15 03:00:00		12.68	18.92	83.84	87.96
07-Jul-15 04:00:00	07-Jul-15 05:00:00		14.95	0.00	0.00	3.94	2.1	329.7		4.93	0.00	0.00	1.30		10.35	18.92	83.84	86.68	07-Jul-15 04:00:00		15.28	18.92	83.84	87.98
07-Jul-15 05:00:00	07-Jul-15 06:00:00		27.10	0.00	0.00	3.98	2.1	329.7		8.93	0.00	0.00	1.31		10.35	18.92	83.84	86.68	07-Jul-15 05:00:00		19.28	18.92	83.84	87.99
07-Jul-15 06:00:00	07-Jul-15 07:00:00		21.95	0.00	0.00	4.02	2.1	329.7		7.24	0.00	0.00	1.33		10.35	18.92	83.84	86.68	07-Jul-15 06:00:00		17.59	18.92	83.84	88.01
07-Jul-15 07:00:00	07-Jul-15 08:00:00		13.43	0.00	0.00	3.90	2.1	329.7		4.43	0.00	0.00	1.29		10.35	18.92	83.84	86.68	07-Jul-15 07:00:00		14.78	18.92	83.84	87.97
07-Jul-15 08:00:00	07-Jul-15 09:00:00		12.63	0.00	0.00	3.75	2.1	329.7		4.16	0.00	0.00	1.24		10.35	18.92	83.84	86.68	07-Jul-15 08:00:00		14.51	18.92	83.84	87.92
07-Jul-15 09:00:00	07-Jul-15 10:00:00		11.61	0.00	0.00	3.60	2.1	329.7		3.83	0.00	0.00	1.19		10.35	18.92	83.84	86.68	07-Jul-15 09:00:00		14.18	18.92	83.84	87.87
07-Jul-15 10:00:00	07-Jul-15 11:00:00		16.90	0.00	0.00	3.48	2.1	329.7		5.57	0.00	0.00	1.15		10.35	18.92	83.84	86.68	07-Jul-15 10:00:00		15.92	18.92	83.84	87.83
07-Jul-15 11:00:00	07-Jul-15 12:00:00		7.33	0.00	0.00	4.24	2.1	329.7		2.42	0.00	0.00	1.40		10.35	18.92	83.84	86.68	07-Jul-15 11:00:00		12.77	18.92	83.84	88.08
07-Jul-15 12:00:00	07-Jul-15 13:00:00		1.85	0.00	0.00	3.21	2.1	329.7		0.61	0.00	0.00	1.06		10.35	18.92	83.84	86.68	07-Jul-15 12:00:00		10.96	18.92	83.84	87.74
07-Jul-15 13:00:00	07-Jul-15 14:00:00		0.62	0.00	0.00	3.05	2.1	329.7		0.21	0.00	0.00	1.01		10.35	18.92	83.84	86.68	07-Jul-15 13:00:00		10.56	18.92	83.84	87.69
07-Jul-15 14:00:00	07-Jul-15 15:00:00		0.21	0.00	0.00	2.90	2.1	329.7		0.07	0.00	0.00	0.96		10.35	18.92	83.84	86.68	07-Jul-15 14:00:00		10.42	18.92	83.84	87.64
07-Jul-15 15:00:00	07-Jul-15 16:00:00		0.00	0.00	0.00	2.88	2.1	329.7		0.00	0.00	0.00	0.95		10.35	18.92	83.84	86.68	07-Jul-15 15:00:00		10.35	18.92	83.84	87.63
07-Jul-15 16:00:00	07-Jul-15 17:00:00		1.43	0.00	0.00	2.79	2.1	329.7		0.47	0.00	0.00	0.92		10.35	18.92	83.84	86.68	07-Jul-15 16:00:00		10.82	18.92	83.84	87.60
07-Jul-15 17:00:00	07-Jul-15 18:00:00		0.00	0.00	0.00	2.67	2.1	329.7		0.00	0.00	0.00	0.88		10.35	18.92	83.84	86.68	07-Jul-15 17:00:00		10.35	18.92	83.84	87.56
07-Jul-15 18:00:00	07-Jul-15 19:00:00		0.00	0.00	0.00	21.21	2.1	329.7		0.00	0.00	0.00	6.99		10.35	18.92	83.84	86.68	07-Jul-15 18:00:00		10.35	18.92	83.84	93.67
07-Jul-15 19:00:00	07-Jul-15 20:00:00		0.00	0.00	0.00	2.62	2.1	329.7		0.00	0.00	0.00	0.86		10.35	18.92	83.84	86.68	07-Jul-15 19:00:00		10.35	18.92	83.84	87.54
07-Jul-15 20:00:00	07-Jul-15 21:00:00		0.00	0.00	0.00	2.80	2.1	329.7		0.00	0.00	0.00	0.92		10.35	18.92	83.84	86.68	07-Jul-15 20:00:00		10.35	18.92	83.84	87.60
07-Jul-15 21:00:00	07-Jul-15 22:00:00		0.32	0.00	0.00	2.97	2.1	329.7		0.11	0.00	0.00	0.98		10.35	18.92	83.84	86.68	07-Jul-15 21:00:00		10.46	18.92	83.84	87.66
07-Jul-15 22:00:00	07-Jul-15 23:00:00		0.26	0.00	0.00	3.14	2.1	329.7		0.09	0.00	0.00	1.04		10.35	18.92	83.84	86.68	07-Jul-15 22:00:00		10.44	18.92	83.84	87.72
07-Jul-15 23:00:00	08-Jul-15 00:00:00		1.44	0.00	0.00	3.40	2.1	329.7		0.48	0.00	0.00	1.12		10.35	18.92	83.84	86.68	07-Jul-15 23:00:00		10.83	18.92	83.84	87.80
08-Jul-15 00:00:00	08-Jul-15 01:00:00		0.37	0.00	0.00	4.47	2.1	329.7		0.12	0.00	0.00	1.47		10.35	18.92	83.84	86.68	08-Jul-15 00:00:00		10.47	18.92	83.84	88.15
08-Jul-15 01:00:00	08-Jul-15 02:00:00		1.01	0.00	0.00	3.72	2.1	329.7		0.33	0.00	0.00	1.22		10.35	18.92	83.84	86.68	08-Jul-15 01:00:00		10.68	18.92	83.84	87.90
08-Jul-15 02:00:00	08-Jul-15 03:00:00		4.96	0.00	0.00	3.83	2.1	329.7		1.64	0.00	0.00	1.26		10.35	18.92	83.84	86.68	08-Jul-15 02:00:00		11.99	18.92	83.84	87.94
08-Jul-15 03:00:00	08-Jul-15 04:00:00		12.60	0.00	0.00	3.94	2.1	329.7		4.15	0.00	0.00	1.30		10.35	18.92	83.84	86.68	08-Jul-15 03:00:00		14.50	18.92	83.84	87.98
08-Jul-15 04:00:00	08-Jul-15 05:00:00		2.32	0.00	0.00	4.02	2.1	329.7		0.77	0.00	0.00	1.32		10.35	18.92	83.84	86.68	08-Jul-15 04:00:00		11.12	18.92	83.84	88.00
08-Jul-15 05:00:00	08-Jul-15 06:00:00		11.35	0.00	0.00	3.96	2.1	329.7		3.74	0.00	0.00	1.30		10.35	18.92	83.84	86.68	08-Jul-15 05:00:00		14.09	18.92	83.84	87.98
08-Jul-15 06:00:00	08-Jul-15 07:00:00		17.58	0.00	0.00	3.95	2.1	329.7		5.80	0.00	0.00	1.30		10.35	18.92	83.84	86.68	08-Jul-15 06:00:00		16.15	18.92	83.84	87.98
08-Jul-15 07:00:00	08-Jul-15 08:00:00		1.89	0.00	0.00	3.94	2.1	329.7		0.62	0.00	0.00	1.30		10.35	18.92	83.84	86.68	08-Jul-15 07:00:00		10.97	18.92	83.84	87.98
08-Jul-15 08:00:00	08-Jul-15 09:00:00		2.99	0.00	0.00	3.95	2.1	329.7		0.99	0.00	0.00	1.30		10.35	18.92	83.84	86.68	08-Jul-15 08:00:00		11.34	18.92	83.84	87.98
08-Jul-15 09:00:00	08-Jul-15 10:00:00		1.25	0.00	0.00	3.85	2.1	329.7		0.41	0.00	0.00	1.27		10.35	18.92	83.84	86.68	08-Jul-15 09:00:00		10.76	18.92	83.84	87.95
08-Jul-15 10:00:00	08-Jul-15 11:00:00		3.16	0.00	0.00	3.59	2.1	329.7		1.04	0.00	0.00	1.18		10.35	18.92	83.84	86.68	08-Jul-15 10:00:00		11.39	18.92	83.84	87.86
08-Jul-15 11:00:00	08-Jul-15 12:00:00		3.02	0.00	0.00	3.33	2.1	329.7		0.99	0.00	0.00	1.10		10.35	18.92	83.84	86.68	08-Jul-15 11:00:00		11.34	18.92	83.84	87.78
08-Jul-15 12:00:00	08-Jul-15 13:00:00		1.46	0.00	0.00	3.11	2.1	329.7		0.48	0.00	0.00	1.02		10.35	18.92	83.84	86.68	08-Jul-15 12:00:00		10.83	18.92	83.84	87.70
08-Jul-15 13:00:00	08-Jul-15 14:00:00		2.97	0.00	0.00	3.00	2.1	329.7		0.98	0.00	0.00	0.99		10.35	18.92	83.84	86.68	08-Jul-15 13:00:00		11.33	18.92	83.84	87.67
08-Jul-15 14:00:00	08-Jul-15 15:00:00		5.56	0.00	0.00	2.82	2.1	329.7		1.83	0.00	0.00	0.93		10.35	18.92	83.84	86.68	08-Jul-15 14:00:00		12.18	18.92	83.84	87.61
08-Jul-15 15:00:00	08-Jul-15 16:00:00		1.34	0.00	0.00	2.64	2.1	329.7		0.44	0.00	0.00	0.87		10.35	18.92	83.84	86.68	08-Jul-15 15:00:00		10.79	18.92	83.84	87.55
08-Jul-15 16:00:00	08-Jul-15 17:00:00		5.48	0.00	0.00	2.47	2.1	329.7		1.81	0.00	0.00	0.81		10.35	18.92	83.84	86.68	08-Jul-15 16:00:00		12.16	18.92	83.84	87.49
08-Jul-15 17:00:00	08-Jul-15 18:00:00		6.29	0.00	0.00	2.60	2.1	329.7		2.07	0.00	0.00	0.86		10.35	18.92	83.84	86.68	08-Jul-15 17:00:00		12.42	18.92	83.84	87.54
08-Jul-15 18:00:00	08-Jul-15 19:00:00		0.83	0.00	0.00	2.87	2.1	329.7		0.27	0.00	0.00	0.95		10.35	18.92	83.84	86.68	08-Jul-15 18:00:00		10.62	18.92	83.84	87.63
08-Jul-15 19:00:00	08-Jul-15 20:00:00		7.35	0.00	0.00	3.14	2.1	329.7		2.42	0.00	0.00	1.03		10.35	18.92	83.84	86.68	08-Jul-15 19:00:00		12.77	18.92	83.84	87.71
08-Jul-15 20:00:00	08-Jul-15 21:00:00		1.30	0.00	0.00	3.43	2.1	329.7		0.43	0.00	0.00	1.13		10.35	18.92	83.84	86.68	08-Jul-15 20:00:00		10.78	18.92	83.84	87.81
08-Jul-15 21:00:00	08-Jul-15 22:00:00		1.80	0.00	0.00	3.69	2.1	329.7		0.59	0.00	0.00	1.22		10.35	18.92	83.84	86.68	08-Jul-15 21:00:00		10.94	18.92	83.84	87.90
08-Jul-15 22:00:00	08-Jul-15 23:00:00		0.12	0.00	0.00	3.82	2.1	329.7		0.04	0.00	0.00	1.26		10.35	18.92	83.84	86.68	08-Jul-15 22:00:00		10.39	18.92	83.84	87.94
08-Jul-15 23:00:00	09-Jul-15 00:00:00		0.00	0.00	0.00	3.94	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	08-Jul-15 23:00:00		10.35	18.92	83.84	87.98
09-Jul-15 00:00:00	09-Jul-15 01:00:00		0.00	0.00	0.00	31.74	2.1	329.7		0.00	0.00	0.00	10.46		10.35	18.92	83.84	86.68	09-Jul-15 00:00:00		10.35	18.92	83.84	97.14
09-Jul-15 01:00:00	09-Jul-15 02:00:00		1.76	0.00	0.00	5.25	2.1	329.7		0.58	0.00	0.00	1.73		10.35	18.92	83.84	86.68	09-Jul-15 01:00:00		10.93	18.92	83.84	88.41
09-Jul-15 02:00:00	09-Jul-15 03:00:00		8.65	0.00	0.00	4.05	2.1	329.7		2.85	0.00	0.00	1.34		10.35	18.92	83.84	86.68	09-Jul-15 02:00:00		13.20	18.92	83.84	88.02
09-Jul-15 03:00:00	09-Jul-15 04:00:00		17.09	0.00	0.00	4.01	2.1	329.7		5.63	0.00	0.00	1.32		10.35	18.92	83.84	86.68	09-Jul-15 03:00:00		15.98	18.92	83.84	88.00
09-Jul-15 04:00:00	09-Jul-15 05:00:00		6.77	0.00	0.00	3.97	2.1	329.7		2.23	0.00	0.00	1.31		10.35	18.92	83.84	86.68	09-Jul-15 04:00:00		12.58	18.92	83.84	87.99
09-Jul-15 05:00:00	09-Jul-15 06:00:00		0.00	0.00	0.00	3.87	2.1	329.7		0.00	0.00	0.00	1.28		10.35	18.92	83.84	86.68	09-Jul-15 05:00:00		10.35	18.92	83.84	87.96
09-Jul-15 06:00:00	09-Jul-15 07:00:00		5.09	0.00	0.00	3.84

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
11-Jul-15 04:00:00	11-Jul-15 05:00:00		0.00	0.00	0.00	4.11	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	11-Jul-15 04:00:00		10.35	18.92	83.84	88.03
11-Jul-15 05:00:00	11-Jul-15 06:00:00		5.88	0.00	0.00	4.13	2.1	329.7		1.94	0.00	0.00	1.36		10.35	18.92	83.84	86.68	11-Jul-15 05:00:00		12.29	18.92	83.84	88.04
11-Jul-15 06:00:00	11-Jul-15 07:00:00		18.56	0.00	0.00	4.16	2.1	329.7		6.12	0.00	0.00	1.37		10.35	18.92	83.84	86.68	11-Jul-15 06:00:00		16.47	18.92	83.84	88.05
11-Jul-15 07:00:00	11-Jul-15 08:00:00		2.30	0.00	0.00	4.10	2.1	329.7		0.76	0.00	0.00	1.35		10.35	18.92	83.84	86.68	11-Jul-15 07:00:00		11.11	18.92	83.84	88.03
11-Jul-15 08:00:00	11-Jul-15 09:00:00		2.52	0.00	0.00	3.84	2.1	329.7		0.83	0.00	0.00	1.27		10.35	18.92	83.84	86.68	11-Jul-15 08:00:00		11.18	18.92	83.84	87.95
11-Jul-15 09:00:00	11-Jul-15 10:00:00		6.35	0.00	0.00	3.59	2.1	329.7		2.09	0.00	0.00	1.18		10.35	18.92	83.84	86.68	11-Jul-15 09:00:00		12.44	18.92	83.84	87.86
11-Jul-15 10:00:00	11-Jul-15 11:00:00		8.90	0.00	0.00	3.34	2.1	329.7		2.94	0.00	0.00	1.10		10.35	18.92	83.84	86.68	11-Jul-15 10:00:00		13.29	18.92	83.84	87.78
11-Jul-15 11:00:00	11-Jul-15 12:00:00		14.64	0.00	0.00	3.13	2.1	329.7		4.83	0.00	0.00	1.03		10.35	18.92	83.84	86.68	11-Jul-15 11:00:00		15.18	18.92	83.84	87.71
11-Jul-15 12:00:00	11-Jul-15 13:00:00		8.39	0.00	0.00	2.96	2.1	329.7		2.77	0.00	0.00	0.98		10.35	18.92	83.84	86.68	11-Jul-15 12:00:00		13.12	18.92	83.84	87.66
11-Jul-15 13:00:00	11-Jul-15 14:00:00		0.73	0.00	0.00	2.77	2.1	329.7		0.24	0.00	0.00	0.91		10.35	18.92	83.84	86.68	11-Jul-15 13:00:00		10.59	18.92	83.84	87.59
11-Jul-15 14:00:00	11-Jul-15 15:00:00		2.26	0.00	0.00	2.57	2.1	329.7		0.74	0.00	0.00	0.85		10.35	18.92	83.84	86.68	11-Jul-15 14:00:00		11.09	18.92	83.84	87.53
11-Jul-15 15:00:00	11-Jul-15 16:00:00		0.51	0.00	0.00	2.39	2.1	329.7		0.17	0.00	0.00	0.79		10.35	18.92	83.84	86.68	11-Jul-15 15:00:00		10.52	18.92	83.84	87.47
11-Jul-15 16:00:00	11-Jul-15 17:00:00		1.29	0.00	0.00	2.37	2.1	329.7		0.43	0.00	0.00	0.78		10.35	18.92	83.84	86.68	11-Jul-15 16:00:00		10.78	18.92	83.84	87.46
11-Jul-15 17:00:00	11-Jul-15 18:00:00		1.31	0.00	0.00	2.40	2.1	329.7		0.43	0.00	0.00	0.79		10.35	18.92	83.84	86.68	11-Jul-15 17:00:00		10.78	18.92	83.84	87.47
11-Jul-15 18:00:00	11-Jul-15 19:00:00		2.21	0.00	0.00	2.44	2.1	329.7		0.73	0.00	0.00	0.80		10.35	18.92	83.84	86.68	11-Jul-15 18:00:00		11.08	18.92	83.84	87.48
11-Jul-15 19:00:00	11-Jul-15 20:00:00		0.57	0.00	0.00	2.48	2.1	329.7		0.19	0.00	0.00	0.82		10.35	18.92	83.84	86.68	11-Jul-15 19:00:00		10.54	18.92	83.84	87.50
11-Jul-15 20:00:00	11-Jul-15 21:00:00		1.20	0.00	0.00	6.47	2.1	329.7		0.40	0.00	0.00	2.13		10.35	18.92	83.84	86.68	11-Jul-15 20:00:00		10.75	18.92	83.84	88.81
11-Jul-15 21:00:00	11-Jul-15 22:00:00		0.47	0.00	0.00	3.33	2.1	329.7		0.16	0.00	0.00	1.10		10.35	18.92	83.84	86.68	11-Jul-15 21:00:00		10.51	18.92	83.84	87.78
11-Jul-15 22:00:00	11-Jul-15 23:00:00		0.21	0.00	0.00	3.80	2.1	329.7		0.07	0.00	0.00	1.25		10.35	18.92	83.84	86.68	11-Jul-15 22:00:00		10.42	18.92	83.84	87.93
11-Jul-15 23:00:00	12-Jul-15 00:00:00		0.78	0.00	0.00	4.26	2.1	329.7		0.26	0.00	0.00	1.41		10.35	18.92	83.84	86.68	11-Jul-15 23:00:00		10.61	18.92	83.84	88.09
12-Jul-15 00:00:00	12-Jul-15 01:00:00		5.39	0.00	0.00	4.65	2.1	329.7		1.78	0.00	0.00	1.53		10.35	18.92	83.84	86.68	12-Jul-15 00:00:00		12.13	18.92	83.84	88.21
12-Jul-15 01:00:00	12-Jul-15 02:00:00		1.31	0.00	0.00	4.77	2.1	329.7		0.43	0.00	0.00	1.57		10.35	18.92	83.84	86.68	12-Jul-15 01:00:00		10.78	18.92	83.84	88.25
12-Jul-15 02:00:00	12-Jul-15 03:00:00		2.75	0.00	0.00	4.89	2.1	329.7		0.91	0.00	0.00	1.61		10.35	18.92	83.84	86.68	12-Jul-15 02:00:00		11.26	18.92	83.84	88.29
12-Jul-15 03:00:00	12-Jul-15 04:00:00		3.29	0.00	0.00	5.01	2.1	329.7		1.08	0.00	0.00	1.65		10.35	18.92	83.84	86.68	12-Jul-15 03:00:00		11.43	18.92	83.84	88.33
12-Jul-15 04:00:00	12-Jul-15 05:00:00		15.53	0.00	0.00	5.11	2.1	329.7		5.12	0.00	0.00	1.69		10.35	18.92	83.84	86.68	12-Jul-15 04:00:00		15.47	18.92	83.84	88.37
12-Jul-15 05:00:00	12-Jul-15 06:00:00		12.27	0.00	0.00	5.17	2.1	329.7		4.05	0.00	0.00	1.70		10.35	18.92	83.84	86.68	12-Jul-15 05:00:00		14.40	18.92	83.84	88.38
12-Jul-15 06:00:00	12-Jul-15 07:00:00		12.55	0.00	0.00	50.45	2.1	329.7		4.14	0.00	0.00	16.63		10.35	18.92	83.84	86.68	12-Jul-15 06:00:00		14.49	18.92	83.84	103.31
12-Jul-15 07:00:00	12-Jul-15 08:00:00		3.30	0.00	0.00	5.29	2.1	329.7		1.09	0.00	0.00	1.74		10.35	18.92	83.84	86.68	12-Jul-15 07:00:00		11.44	18.92	83.84	88.42
12-Jul-15 08:00:00	12-Jul-15 09:00:00		2.59	0.00	0.00	26.32	2.1	329.7		0.85	0.00	0.00	8.68		10.35	18.92	83.84	86.68	12-Jul-15 08:00:00		11.20	18.92	83.84	95.36
12-Jul-15 09:00:00	12-Jul-15 10:00:00		2.70	0.00	0.00	16.86	2.1	329.7		0.89	0.00	0.00	5.56		10.35	18.92	83.84	86.68	12-Jul-15 09:00:00		11.24	18.92	83.84	92.24
12-Jul-15 10:00:00	12-Jul-15 11:00:00		5.01	0.00	0.00	876.68	2.1	329.7		1.65	0.00	0.00	289.04		10.35	18.92	83.84	86.68	12-Jul-15 10:00:00		12.00	18.92	83.84	375.72
12-Jul-15 11:00:00	12-Jul-15 12:00:00		13.54	0.00	0.00	5.93	2.1	329.7		4.46	0.00	0.00	1.96		10.35	18.92	83.84	86.68	12-Jul-15 11:00:00		14.81	18.92	83.84	88.64
12-Jul-15 12:00:00	12-Jul-15 13:00:00		14.36	0.00	0.00	3.90	2.1	329.7		4.73	0.00	0.00	1.29		10.35	18.92	83.84	86.68	12-Jul-15 12:00:00		15.08	18.92	83.84	87.97
12-Jul-15 13:00:00	12-Jul-15 14:00:00		1.22	0.00	0.00	3.73	2.1	329.7		0.40	0.00	0.00	1.23		10.35	18.92	83.84	86.68	12-Jul-15 13:00:00		10.75	18.92	83.84	87.91
12-Jul-15 14:00:00	12-Jul-15 15:00:00		3.54	0.00	0.00	3.56	2.1	329.7		1.17	0.00	0.00	1.17		10.35	18.92	83.84	86.68	12-Jul-15 14:00:00		11.52	18.92	83.84	87.85
12-Jul-15 15:00:00	12-Jul-15 16:00:00		1.75	0.00	0.00	3.47	2.1	329.7		0.58	0.00	0.00	1.15		10.35	18.92	83.84	86.68	12-Jul-15 15:00:00		10.93	18.92	83.84	87.83
12-Jul-15 16:00:00	12-Jul-15 17:00:00		0.00	0.00	0.00	3.50	2.1	329.7		0.00	0.00	0.00	1.16		10.35	18.92	83.84	86.68	12-Jul-15 16:00:00		10.35	18.92	83.84	87.84
12-Jul-15 17:00:00	12-Jul-15 18:00:00		0.00	0.00	0.00	3.53	2.1	329.7		0.00	0.00	0.00	1.16		10.35	18.92	83.84	86.68	12-Jul-15 17:00:00		10.35	18.92	83.84	87.84
12-Jul-15 18:00:00	12-Jul-15 19:00:00		0.00	0.00	0.00	3.56	2.1	329.7		0.00	0.00	0.00	1.17		10.35	18.92	83.84	86.68	12-Jul-15 18:00:00		10.35	18.92	83.84	87.85
12-Jul-15 19:00:00	12-Jul-15 20:00:00		0.01	0.81	0.00	3.62	2.1	329.7		0.00	0.27	0.00	1.19		10.35	18.92	83.84	86.68	12-Jul-15 19:00:00		10.35	19.19	83.84	87.87
12-Jul-15 20:00:00	12-Jul-15 21:00:00		0.05	179.95	0.00	4.06	2.1	329.7		0.01	59.33	0.00	1.34		10.35	18.92	83.84	86.68	12-Jul-15 20:00:00		10.36	78.25	83.84	88.02
12-Jul-15 21:00:00	12-Jul-15 22:00:00		1.12	1,197.11	0.00	4.54	2.1	329.7		0.37	394.69	0.00	1.50		10.35	18.92	83.84	86.68	12-Jul-15 21:00:00		10.72	413.61	83.84	88.18
12-Jul-15 22:00:00	12-Jul-15 23:00:00		115.20	1,205.66	0.00	5.03	2.1	329.7		37.98	397.51	0.00	1.66		10.35	18.92	83.84	86.68	12-Jul-15 22:00:00		48.33	416.43	83.84	88.34
12-Jul-15 23:00:00	13-Jul-15 00:00:00		233.00	1,083.67	0.00	5.48	2.1	329.7		76.82	357.29	0.00	1.81		10.35	18.92	83.84	86.68	12-Jul-15 23:00:00		87.17	376.21	83.84	88.49
13-Jul-15 00:00:00	13-Jul-15 01:00:00		287.77	1,120.26	0.00	5.49	2.1	329.7		94.88	369.35	0.00	1.81		10.35	18.92	83.84	86.68	13-Jul-15 00:00:00		105.23	388.27	83.84	88.49
13-Jul-15 01:00:00	13-Jul-15 02:00:00		344.35	1,118.95	0.00	5.44	2.1	329.7		113.53	368.92	0.00	1.79		10.35	18.92	83.84	86.68	13-Jul-15 01:00:00		123.88	387.84	83.84	88.47
13-Jul-15 02:00:00	13-Jul-15 03:00:00		279.34	909.87	0.00	5.39	2.1	329.7		92.10	299.98	0.00	1.78		10.35	18.92	83.84	86.68	13-Jul-15 02:00:00		102.45	318.90	83.84	88.46
13-Jul-15 03:00:00	13-Jul-15 04:00:00		257.44	861.10	0.00	5.30	2.1	329.7		84.88	283.91	0.00	1.75		10.35	18.92	83.84	86.68	13-Jul-15 03:00:00		95.23	302.83	83.84	88.43
13-Jul-15 04:00:00	13-Jul-15 05:00:00		272.48	920.25	0.00	5.29	2.1	329.7		89.84	303.41	0.00	1.74		10.35	18.92	83.84	86.68	13-Jul-15 04:00:00		100.19	322.33	83.84	88.42
13-Jul-15 05:00:00	13-Jul-15 06:00:00		307.92	1,027.05	0.00	5.30	2.1	329.7		101.52	338.62	0.00	1.75		10.35	18.92	83.84	86.68	13-Jul-15 05:00:00		111.87	357.54	83.84	88.43
13-Jul-15 06:00:00	13-Jul-15 07:00:00		310.88	1,034.76	0.00	5.30	2.1	329.7		102.50	341.16	0.00	1.75		10.35	18.92	83.84	86.68	13-Jul-15 06:00:00		112.85	360.08	83.84	88.43
13-Jul-15 07:00:00	13-Jul-15 08:00:00		376.26	1,230.34	0.00	5.34	2.1	329.7		124.05	405.64	0.00	1.76		10.35	18.92	83.84	86.68	13-Jul-15 07:00:00		134.40	424.56	83.84	88.44
13-Jul-15 08:00:00	13-Jul-15 09:00:00		355.82	1,236.41	0.00	5.18	2.1	329.7		117.31	407.65	0.00	1.71		10.35	18.92	83.84	86.68	13-Jul-15 08:00:00		127.66	426.57	83.84	88.39
13-Jul-15 09:00:00	13-Jul-15 10:00:00		93.47	836.74	0.17	4.98	2.1	329.7		30.82	275.87	0.06	1.64		10.35	18.92	83.84	86.68	13-Jul-15 09:00:00		41.17	294.79	83.90	88.32
13-Jul-15 10:00:00	13-Jul-15 11:00:00		2.80	718.42	0.00	4.79	2.1	329.7		0.92	236.86	0.00	1.58		10.35	18.92	83.84	86.68	13-Jul-15 10:00:00		11.27	255.78	83.84	88.26
13-Jul-15 11:00:00	13-Jul-15 12:00:00		8.86	716.39	0.00	4.38	2.1	329.7		2.92	236.20	0.00	1.44		10.35	18.92	83.84	86.68	13-Jul-15 11:00:00		13.27	255.12	83.84	88.12
13-Jul-15 12:00:00	13-Jul-15 13:00:00		0.30	717.34	0.00	4.03	2.1	329.7		0.10	236.51	0.00	1.33		10.35	18.92	83.84	86.68	13-Jul-15 12:00:00		10.45	255.43	83.84	88.01
13-Jul-15 13:00:00	13-Jul-15 14:00:00		1.12	781.97	0.00	3.74	2.1	329.7		0.37	257.81	0.00	1.23		10.35	18.92	83.84	86.68	13-Jul-15 13:00:00		10.72	276.73	83.84	87.91
13-Jul-15 14:00:00	13-Jul-15 15:00:00		0.36	509.07	0.00	3.46	2.1	329.7		0.12	167.84	0.00	1.14		10.35	18.92	83.84	86.68	13-Jul-15 14:00:00		10.47	186.76	83.84	87.82
13-Jul-15 15:00:00	13-Jul-15 16:00:00		7.27	478.62	0.00	3.19	2.1	329.7		2.40	157.80	0.00	1.05		10.35	18.92	83.84	86.68	13-Jul-15 15:00:00		12.75	176.72	83.84	87.73
13-Jul-15 16:00:00	13-Jul-15 17:00:00		1.54	478.62	0.00	3.14	2.1	329.7		0.51	157.80	0.00	1.03		10.35	18.92	83.84	86.68	13-Jul-15 16:00:00		10.86	176.72	83.84	87.71
13-Jul-15 17:00:00	13-Jul-15 18:00:00		1.09	480.04	0.00	3.11	2.1	329.7		0.36	158.27	0.00	1.03		10.35	18.92	83.84	86.68	13-Jul-15 17:00:00		10.71	177.19	83.84	87.71
13-Jul-15 18:00:00	13-Jul-15 19:00:00		0.63	479.09	0.00	3.09	2.1	329.7		0.21	157.96	0.00	1.02		10.35	18.92	83.84	86.68	13-Jul-15 18:00:00		10.56	176.88	83.84	87.70
13-Jul-15 19:00:00	13-Jul-15 20:00:00		0.18	478.33	0.00	3.20	2.1	329.7		0.06	157.71	0.00	1.05		10.35	18.92	83.84	86.68	13-Jul-15 19:00:00		10.41	176.63	83.84	87.73
13-Jul-15 20:00:00	13-Jul-15 21:00:00		0.83	478.77	0.00	60.94	2.1	329.7		0.27	157.85	0.00	20.09		10.35	18.92	83.84	86.68	13-Jul-15 20:00:00		10.62	176.77	83.84	106.77
13-Jul-15 21:00:00	13-Jul-15 22:00:00		0.33	486.30	0.00	154.21	2.1	329.7		0.11	160.33	0.00	50.84		10.35	18.92	83.84	86.68	13-Jul-15 21:00:00		10.46	179.25	83.84	137.52
13-Jul-15 22:00:00	13-Jul-15 23:00:00		13.30	725.25	0.00	5.25	2.1	329.7		4.38	239.12	0.00	1.73		10.35	18.92	83.84	86.68	13-Jul-15 22:00:00		14.73	258.04	83.84	88.41
13-Jul-15 23:00:00	14-Jul-15 00:00:00		2.97	842.82	0.00	5.25	2.1	329.7		0.98	277.88	0.00	1.73		10.35	18.92	83.84	86.68	13-Jul-15 23:00:00		11.33	296.80	83.84	88.41
14-Jul-15 00:00:00	14-Jul-15 01:00:00		9.16	842.26	0.00	5.25	2.1	329.7		3.02	277.69	0.00	1.73		10.35	18.92	83.84	86.68	14-Jul-15 00:00:00		13.37	296.61	83.84	88.41
14-Jul-15 01:00:00	14-Jul-15 02:00:00		5.11	838.79	0.00	5.25	2.1	329.7		1.68	276.55	0.00	1.73		10.35	18.92	83.84	86.68	14-Jul-15 01:00:00		12.03	295.47	83.84	88.41
14-Jul-15 02:00:00	14-Jul-15 03:00:00		2.24	835.77	0.00	5.25	2.1	329.7		0.74	275.55	0.00	1.73		10.35	18.92	83.84	86.68	14-Jul-15 02:00:00		11.09	294.47	83.84	88.41
14-Jul-15 03:00:00	14-Jul-15 04:00:00		1.73	229.77	0.00	5.22	2.1	329.7		0.57	75.76	0.00	1.72		10.35	18.92	83.84	86.68	14-Jul-15 03:00:00		10.92	94.68	83.84	88.40
14-Jul-15 04:00:00	14-Jul-15 05:00:00		2.01	0.00	0.00	5.19	2.1	329.7		0.66	0.00	0.00	1.71		10.35	18.92	83.84	86.68	14-Jul-15 04:00:00		11.01	18.92	83.84	88.39
14-Jul-15 05:00:00	14-Jul-15 06:00:00		1.75	0.00	0.00	5.15	2.1	329.7		0.58	0.00	0.00	1.70		10.35	18.92	83.84	86.68	14-Jul-15 05:00:00		10.93	18.92	83.84	88.38
14-Jul-15 06:00:00	14-Jul-15 07:00:00		1.49	0.00	0.00	5.11	2.1	329.7		0.49	0.00	0.00	1.68		10.35	18.92	83.84	86.68	14-Jul-15 06:00:00		10.84	18.92	83.84	88.36
14-Jul-15 07:00:00	14-Jul-15 08:00:00		1.21	0.00	0.00	5.04	2.1	329.7		0.40	0.00	0.00	1.66		10.35	18.92	83.84	86.68	14-Jul-15 07:00:00		10.75	18.92	83.84	88.34
14-Jul-15 08:00:00	14-Jul-15 09:00:00		0.86	0.00	0.00	4.98	2.1	329.7		0.28	0.00	0.00	1.64		10.35	18.92	83.84	86.68	14-Jul-15 08:00:00		10.63	18.92	83.84	88.32
14-Jul-15 09:00:00	14-Jul-15 10:00:00		0.50	0.00	0.00	5.23	2.1	329.7		0.17	0.00	0.00	1.72		10.35	18.92	83.84	86.68	14-Jul-15 09:00:00		10.52	18.92	83.84	88.40
14-Jul-15 10:00:00	14-Jul-15 11:00:00		1.82	0.00	0.00	4.88	2.1	329.7		0.60	0.00	0.00	1.61		10.35	18.92	83.84	86.68	14-Jul-15 10:00:00		10.95	18.92	83.84	88.29
14-Jul-15 11:00:00	14-Jul-15 12:00:00		2.09	0.00	0.00	4.71	2.1	329.7		0.69	0.00	0.00	1.55		10.35	18.92	83.84	86.68	14-Jul-15 11:00:00		11.04	18.92	83.84	88.23
14-Jul-15 12:00:00	14-Jul-15 13:00:00		12.97	0.00	0.00	4.93	2.1	329.7		4.28	0.00	0.00	1.62		10.35	18.92	83.84	86.68	14-Jul-15 12:00:00		14.63	18.92	83.84	88.30
14-Jul-15 13:00:00	14-Jul-15 14:00:00		14.39	0.00	0.00	4.35	2.1	329.7		4.75	0.00	0.00	1.43		10.35	18.92	83.84	86.68	14-Jul-15 13:00:00		15.10	18.92	83.84	88.11
14-Jul-15 14:00:00	14-Jul-15 15:00:00		11.50	0.00	0.00	4.18	2.1	329.7		3.79	0.00	0.00	1.38		10.35	18.92	83.84	86.68	14-Jul-15 14:00:00		14.14	18.92	83.84	88.06
14-Jul-15 15:00:00	14-Jul-15 16:00:00		4.65	0.00	0.00	4.02	2.1	329.7		1.53	0.00	0.00	1.33		10.35	18.92	83.84	86.68	14-Jul-15 15:00:00		11.88	18.92	83.84	88.01
14-Jul-15 16:00:00	14-Jul-15 17:00:00		1.32	0.00	0.00	3.89	2.1	329.7		0.43	0.00	0.00	1.28		10.35	18.92	83.84	86.68	14-Jul-15 16:00:00		10.78	18.92	83.84	87.96
14-Jul-15 17:00:00	14-Jul-15 18:00:00		0.00	0.00	0.00	4.39	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	14-Jul-15 17:00:00		10.35	18.92	83.84	88.13
14-Jul-15 18:00:00	14-Jul-15 19:00:00		0.00	0.00	0.00	3.85	2.1	329.7		0.00	0.00	0.00	1.27		10.35	18.92	83.84	86.68	14-Jul-15 18:00:00		10.35	18.92	83.84	87.95
14-Jul-15 19:00:00	14-Jul-15 20:00:00		0.00	0.00	0.00	3.91	2.1	329.7		0.00	0.00	0.00	1.29		10.35	18.92	83.84	86.68	14-Jul-15 19:00:00		10.35	18.92	83.84	87.97
14-Jul-15 20:00:00	14-Jul-15 21:00:00		0.00	0.00	0.00	3.97	2.1	329.7		0.00	0.00	0.00	1.31		10.35	18.92	83.84	86.68	14-Jul-15 20:00:00		10.35	18.92	83.84	87.99
14-Jul-15 21:00:00	14-Jul-15 22:00:00		0.81	0.00	0.00	4.03	2.1	329.7		0.27	0.00	0.00	1.33		10.35	18.92	83.84	86.68	14-Jul-15 21:00:00		10.62	18.92	83.84	88.01
14-Jul-15 22:00:00	14-Jul-15 23:00:00		0.86	0.00	0.00	4.09	2.1	329.7		0.28	0.00	0.00	1.35		10.35	18.92	83.84	86.68	14-Jul-15 22:00:00		10.63	18.92	83.84	88.03
14-Jul-15 23:00:00	15-Jul-15 00:00:00		0.00	0.00	0.00	77.72	2.1	329.7		0.00	0.00	0.00	25.62		10.35	18.92	83.84	86.68	14-Jul-15 23:00:00		10.35	18.92	83.84	112.30
15-Jul-15 00:00:00	15-Jul-15 01:00:00		2.31	0.00	0.00	4.34	2.1	329.7		0.76	0.00	0.00	1.43		10.35	18.92	83.84	86.68	15-Jul-15 00:00:00		11.11	18.92	83.84	88.11
15-Jul-15 01:00:00	15-Jul-15 02:00:00		0.

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
16-Jul-15 23:00:00	17-Jul-15 00:00:00		0.77	0.00	0.00	4.20	2.1	329.7		0.26	0.00	0.00	1.38		10.35	18.92	83.84	86.68	16-Jul-15 23:00:00		**10.61**	**18.92**	**83.84**	**88.06**
17-Jul-15 00:00:00	17-Jul-15 01:00:00		1.25	0.00	0.00	4.35	2.1	329.7		0.41	0.00	0.00	1.43		10.35	18.92	83.84	86.68	17-Jul-15 00:00:00		**10.76**	**18.92**	**83.84**	**88.11**
17-Jul-15 01:00:00	17-Jul-15 02:00:00		1.90	0.00	0.00	20.58	2.1	329.7		0.63	0.00	0.00	6.78		10.35	18.92	83.84	86.68	17-Jul-15 01:00:00		**10.98**	**18.92**	**83.84**	**93.46**
17-Jul-15 02:00:00	17-Jul-15 03:00:00		1.59	0.00	0.00	4.57	2.1	329.7		0.53	0.00	0.00	1.51		10.35	18.92	83.84	86.68	17-Jul-15 02:00:00		**10.88**	**18.92**	**83.84**	**88.19**
17-Jul-15 03:00:00	17-Jul-15 04:00:00		16.82	0.00	0.00	4.62	2.1	329.7		5.55	0.00	0.00	1.52		10.35	18.92	83.84	86.68	17-Jul-15 03:00:00		**15.90**	**18.92**	**83.84**	**88.20**
17-Jul-15 04:00:00	17-Jul-15 05:00:00		20.56	0.00	0.00	4.66	2.1	329.7		6.78	0.00	0.00	1.54		10.35	18.92	83.84	86.68	17-Jul-15 04:00:00		**17.13**	**18.92**	**83.84**	**88.22**
17-Jul-15 05:00:00	17-Jul-15 06:00:00		34.89	0.00	0.00	4.69	2.1	329.7		11.50	0.00	0.00	1.54		10.35	18.92	83.84	86.68	17-Jul-15 05:00:00		**21.85**	**18.92**	**83.84**	**88.22**
17-Jul-15 06:00:00	17-Jul-15 07:00:00		33.18	0.00	0.00	45.82	2.1	329.7		10.94	0.00	0.00	15.11		10.35	18.92	83.84	86.68	17-Jul-15 06:00:00		**21.29**	**18.92**	**83.84**	**101.79**
17-Jul-15 07:00:00	17-Jul-15 08:00:00		21.40	0.00	0.00	4.62	2.1	329.7		7.06	0.00	0.00	1.52		10.35	18.92	83.84	86.68	17-Jul-15 07:00:00		**17.41**	**18.92**	**83.84**	**88.20**
17-Jul-15 08:00:00	17-Jul-15 09:00:00		29.84	0.00	0.00	4.56	2.1	329.7		9.84	0.00	0.00	1.50		10.35	18.92	83.84	86.68	17-Jul-15 08:00:00		**20.19**	**18.92**	**83.84**	**88.18**
17-Jul-15 09:00:00	17-Jul-15 10:00:00		13.90	0.00	0.00	9.29	2.1	329.7		4.58	0.00	0.00	3.06		10.35	18.92	83.84	86.68	17-Jul-15 09:00:00		**14.93**	**18.92**	**83.84**	**89.74**
17-Jul-15 10:00:00	17-Jul-15 11:00:00		12.31	0.00	0.00	4.34	2.1	329.7		4.06	0.00	0.00	1.43		10.35	18.92	83.84	86.68	17-Jul-15 10:00:00		**14.41**	**18.92**	**83.84**	**88.11**
17-Jul-15 11:00:00	17-Jul-15 12:00:00		19.80	0.00	0.00	4.08	2.1	329.7		6.53	0.00	0.00	1.34		10.35	18.92	83.84	86.68	17-Jul-15 11:00:00		**16.88**	**18.92**	**83.84**	**88.02**
17-Jul-15 12:00:00	17-Jul-15 13:00:00		3.01	0.00	0.00	3.81	2.1	329.7		0.99	0.00	0.00	1.25		10.35	18.92	83.84	86.68	17-Jul-15 12:00:00		**11.34**	**18.92**	**83.84**	**87.93**
17-Jul-15 13:00:00	17-Jul-15 14:00:00		0.00	0.00	0.00	3.58	2.1	329.7		0.00	0.00	0.00	1.18		10.35	18.92	83.84	86.68	17-Jul-15 13:00:00		**10.35**	**18.92**	**83.84**	**87.86**
17-Jul-15 14:00:00	17-Jul-15 15:00:00		3.26	0.00	0.00	3.56	2.1	329.7		1.08	0.00	0.00	1.17		10.35	18.92	83.84	86.68	17-Jul-15 14:00:00		**11.43**	**18.92**	**83.84**	**87.85**
17-Jul-15 15:00:00	17-Jul-15 16:00:00		0.00	0.00	0.00	3.52	2.1	329.7		0.00	0.00	0.00	1.16		10.35	18.92	83.84	86.68	17-Jul-15 15:00:00		**10.35**	**18.92**	**83.84**	**87.84**
17-Jul-15 16:00:00	17-Jul-15 17:00:00		0.05	0.00	0.00	3.48	2.1	329.7		0.02	0.00	0.00	1.15		10.35	18.92	83.84	86.68	17-Jul-15 16:00:00		**10.37**	**18.92**	**83.84**	**87.83**
17-Jul-15 17:00:00	17-Jul-15 18:00:00		0.00	0.00	0.00	3.44	2.1	329.7		0.00	0.00	0.00	1.13		10.35	18.92	83.84	86.68	17-Jul-15 17:00:00		**10.35**	**18.92**	**83.84**	**87.81**
17-Jul-15 18:00:00	17-Jul-15 19:00:00		0.00	0.00	0.00	113.48	2.1	329.7		0.00	0.00	0.00	37.41		10.35	18.92	83.84	86.68	17-Jul-15 18:00:00		**10.35**	**18.92**	**83.84**	**124.09**
17-Jul-15 19:00:00	17-Jul-15 20:00:00		0.00	0.00	0.00	3.75	2.1	329.7		0.00	0.00	0.00	1.24		10.35	18.92	83.84	86.68	17-Jul-15 19:00:00		**10.35**	**18.92**	**83.84**	**87.92**
17-Jul-15 20:00:00	17-Jul-15 21:00:00		0.00	0.00	0.00	3.85	2.1	329.7		0.00	0.00	0.00	1.27		10.35	18.92	83.84	86.68	17-Jul-15 20:00:00		**10.35**	**18.92**	**83.84**	**87.95**
17-Jul-15 21:00:00	17-Jul-15 22:00:00		0.00	0.00	0.00	13.38	2.1	329.7		0.00	0.00	0.00	4.41		10.35	18.92	83.84	86.68	17-Jul-15 21:00:00		**10.35**	**18.92**	**83.84**	**91.09**
17-Jul-15 22:00:00	17-Jul-15 23:00:00		0.00	0.00	0.00	4.05	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	17-Jul-15 22:00:00		**10.35**	**18.92**	**83.84**	**88.01**
17-Jul-15 23:00:00	18-Jul-15 00:00:00		0.00	0.00	0.00	4.15	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	17-Jul-15 23:00:00		**10.35**	**18.92**	**83.84**	**88.05**
18-Jul-15 00:00:00	18-Jul-15 01:00:00		0.74	0.00	0.00	4.26	2.1	329.7		0.24	0.00	0.00	1.40		10.35	18.92	83.84	86.68	18-Jul-15 00:00:00		**10.59**	**18.92**	**83.84**	**88.08**
18-Jul-15 01:00:00	18-Jul-15 02:00:00		3.74	0.00	0.00	4.38	2.1	329.7		1.23	0.00	0.00	1.44		10.35	18.92	83.84	86.68	18-Jul-15 01:00:00		**11.58**	**18.92**	**83.84**	**88.12**
18-Jul-15 02:00:00	18-Jul-15 03:00:00		0.90	0.00	0.00	4.57	2.1	329.7		0.30	0.00	0.00	1.51		10.35	18.92	83.84	86.68	18-Jul-15 02:00:00		**10.65**	**18.92**	**83.84**	**88.19**
18-Jul-15 03:00:00	18-Jul-15 04:00:00		0.00	0.00	0.00	4.72	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	18-Jul-15 03:00:00		**10.35**	**18.92**	**83.84**	**88.24**
18-Jul-15 04:00:00	18-Jul-15 05:00:00		0.00	0.00	0.00	4.90	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	18-Jul-15 04:00:00		**10.35**	**18.92**	**83.84**	**88.30**
18-Jul-15 05:00:00	18-Jul-15 06:00:00		3.37	0.00	0.00	4.65	2.1	329.7		1.11	0.00	0.00	1.53		10.35	18.92	83.84	86.68	18-Jul-15 05:00:00		**11.46**	**18.92**	**83.84**	**88.21**
18-Jul-15 06:00:00	18-Jul-15 07:00:00		5.23	0.00	0.00	4.65	2.1	329.7		1.72	0.00	0.00	1.53		10.35	18.92	83.84	86.68	18-Jul-15 06:00:00		**12.07**	**18.92**	**83.84**	**88.21**
18-Jul-15 07:00:00	18-Jul-15 08:00:00		23.97	0.00	0.00	4.65	2.1	329.7		7.90	0.00	0.00	1.53		10.35	18.92	83.84	86.68	18-Jul-15 07:00:00		**18.25**	**18.92**	**83.84**	**88.21**
18-Jul-15 08:00:00	18-Jul-15 09:00:00		35.05	0.00	0.00	4.65	2.1	329.7		11.56	0.00	0.00	1.53		10.35	18.92	83.84	86.68	18-Jul-15 08:00:00		**21.91**	**18.92**	**83.84**	**88.21**
18-Jul-15 09:00:00	18-Jul-15 10:00:00		40.24	0.00	0.00	0.00	2.1	329.7		13.27	0.00	0.00	0.00		10.35	18.92	83.84	86.68	18-Jul-15 09:00:00		**23.62**	**18.92**	**83.84**	**86.68**
18-Jul-15 10:00:00	18-Jul-15 11:00:00		41.97	0.00	0.00	0.00	2.1	329.7		13.84	0.00	0.00	0.00		10.35	18.92	83.84	86.68	18-Jul-15 10:00:00		**24.19**	**18.92**	**83.84**	**86.68**
18-Jul-15 11:00:00	18-Jul-15 12:00:00		1.62	0.00	0.00	75.51	2.1	329.7		0.53	0.00	0.00	24.90		10.35	18.92	83.84	86.68	18-Jul-15 11:00:00		**10.88**	**18.92**	**83.84**	**111.58**
18-Jul-15 12:00:00	18-Jul-15 13:00:00		0.72	0.00	0.00	3.74	2.1	329.7		0.24	0.00	0.00	1.23		10.35	18.92	83.84	86.68	18-Jul-15 12:00:00		**10.59**	**18.92**	**83.84**	**87.91**
18-Jul-15 13:00:00	18-Jul-15 14:00:00		0.60	0.00	0.00	3.43	2.1	329.7		0.20	0.00	0.00	1.13		10.35	18.92	83.84	86.68	18-Jul-15 13:00:00		**10.55**	**18.92**	**83.84**	**87.81**
18-Jul-15 14:00:00	18-Jul-15 15:00:00		7.53	0.00	259.77	3.13	2.1	329.7		2.48	0.00	85.65	1.03		10.35	18.92	83.84	86.68	18-Jul-15 14:00:00		**12.83**	**18.92**	**169.49**	**87.71**
18-Jul-15 15:00:00	18-Jul-15 16:00:00		12.05	0.00	73.78	60.06	2.1	329.7		3.97	0.00	24.33	19.80		10.35	18.92	83.84	86.68	18-Jul-15 15:00:00		**14.32**	**18.92**	**108.17**	**106.48**
18-Jul-15 16:00:00	18-Jul-15 17:00:00		1.66	0.00	0.00	3.25	2.1	329.7		0.55	0.00	0.00	1.07		10.35	18.92	83.84	86.68	18-Jul-15 16:00:00		**10.90**	**18.92**	**83.84**	**87.75**
18-Jul-15 17:00:00	18-Jul-15 18:00:00		3.07	0.00	0.00	3.57	2.1	329.7		1.01	0.00	0.00	1.18		10.35	18.92	83.84	86.68	18-Jul-15 17:00:00		**11.36**	**18.92**	**83.84**	**87.86**
18-Jul-15 18:00:00	18-Jul-15 19:00:00		6.59	0.00	0.00	3.88	2.1	329.7		2.17	0.00	0.00	1.28		10.35	18.92	83.84	86.68	18-Jul-15 18:00:00		**12.52**	**18.92**	**83.84**	**87.96**
18-Jul-15 19:00:00	18-Jul-15 20:00:00		22.82	0.00	0.00	4.15	2.1	329.7		7.52	0.00	0.00	1.37		10.35	18.92	83.84	86.68	18-Jul-15 19:00:00		**17.87**	**18.92**	**83.84**	**88.05**
18-Jul-15 20:00:00	18-Jul-15 21:00:00		31.18	0.00	0.00	4.15	2.1	329.7		10.28	0.00	0.00	1.37		10.35	18.92	83.84	86.68	18-Jul-15 20:00:00		**20.63**	**18.92**	**83.84**	**88.05**
18-Jul-15 21:00:00	18-Jul-15 22:00:00		37.93	0.00	0.00	4.13	2.1	329.7		12.51	0.00	0.00	1.36		10.35	18.92	83.84	86.68	18-Jul-15 21:00:00		**22.86**	**18.92**	**83.84**	**88.04**
18-Jul-15 22:00:00	18-Jul-15 23:00:00		20.48	0.00	0.00	4.11	2.1	329.7		6.75	0.00	0.00	1.35		10.35	18.92	83.84	86.68	18-Jul-15 22:00:00		**17.10**	**18.92**	**83.84**	**88.03**
18-Jul-15 23:00:00	19-Jul-15 00:00:00		11.42	0.00	0.00	4.09	2.1	329.7		3.77	0.00	0.00	1.35		10.35	18.92	83.84	86.68	18-Jul-15 23:00:00		**14.12**	**18.92**	**83.84**	**88.03**
19-Jul-15 00:00:00	19-Jul-15 01:00:00		17.18	0.00	0.00	4.09	2.1	329.7		5.66	0.00	0.00	1.35		10.35	18.92	83.84	86.68	19-Jul-15 00:00:00		**16.01**	**18.92**	**83.84**	**88.03**
19-Jul-15 01:00:00	19-Jul-15 02:00:00		18.18	0.58	0.00	4.08	2.1	329.7		5.99	0.19	0.00	1.34		10.35	18.92	83.84	86.68	19-Jul-15 01:00:00		**16.34**	**19.11**	**83.84**	**88.02**
19-Jul-15 02:00:00	19-Jul-15 03:00:00		19.40	0.00	0.00	4.06	2.1	329.7		6.40	0.00	0.00	1.34		10.35	18.92	83.84	86.68	19-Jul-15 02:00:00		**16.75**	**18.92**	**83.84**	**88.02**
19-Jul-15 03:00:00	19-Jul-15 04:00:00		24.94	0.00	0.00	4.07	2.1	329.7		8.22	0.00	0.00	1.34		10.35	18.92	83.84	86.68	19-Jul-15 03:00:00		**18.57**	**18.92**	**83.84**	**88.02**
19-Jul-15 04:00:00	19-Jul-15 05:00:00		14.51	0.00	0.00	4.17	2.1	329.7		4.78	0.00	0.00	1.38		10.35	18.92	83.84	86.68	19-Jul-15 04:00:00		**15.13**	**18.92**	**83.84**	**88.06**
19-Jul-15 05:00:00	19-Jul-15 06:00:00		7.27	0.00	0.00	4.25	2.1	329.7		2.40	0.00	0.00	1.40		10.35	18.92	83.84	86.68	19-Jul-15 05:00:00		**12.75**	**18.92**	**83.84**	**88.08**
19-Jul-15 06:00:00	19-Jul-15 07:00:00		25.37	0.00	0.00	4.33	2.1	329.7		8.37	0.00	0.00	1.43		10.35	18.92	83.84	86.68	19-Jul-15 06:00:00		**18.72**	**18.92**	**83.84**	**88.11**
19-Jul-15 07:00:00	19-Jul-15 08:00:00		20.99	0.00	0.00	4.42	2.1	329.7		6.92	0.00	0.00	1.46		10.35	18.92	83.84	86.68	19-Jul-15 07:00:00		**17.27**	**18.92**	**83.84**	**88.14**
19-Jul-15 08:00:00	19-Jul-15 09:00:00		21.22	0.00	0.00	4.31	2.1	329.7		6.99	0.00	0.00	1.42		10.35	18.92	83.84	86.68	19-Jul-15 08:00:00		**17.34**	**18.92**	**83.84**	**88.10**
19-Jul-15 09:00:00	19-Jul-15 10:00:00		21.50	0.00	0.00	4.08	2.1	329.7		7.09	0.00	0.00	1.34		10.35	18.92	83.84	86.68	19-Jul-15 09:00:00		**17.44**	**18.92**	**83.84**	**88.02**
19-Jul-15 10:00:00	19-Jul-15 11:00:00		15.10	0.00	0.00	3.85	2.1	329.7		4.98	0.00	0.00	1.27		10.35	18.92	83.84	86.68	19-Jul-15 10:00:00		**15.33**	**18.92**	**83.84**	**87.95**
19-Jul-15 11:00:00	19-Jul-15 12:00:00		18.00	0.00	0.00	3.61	2.1	329.7		5.93	0.00	0.00	1.19		10.35	18.92	83.84	86.68	19-Jul-15 11:00:00		**16.28**	**18.92**	**83.84**	**87.87**
19-Jul-15 12:00:00	19-Jul-15 13:00:00		1.98	0.00	0.00	3.31	2.1	329.7		0.65	0.00	0.00	1.09		10.35	18.92	83.84	86.68	19-Jul-15 12:00:00		**11.00**	**18.92**	**83.84**	**87.77**
19-Jul-15 13:00:00	19-Jul-15 14:00:00		8.49	0.00	0.00	4.41	2.1	329.7		2.80	0.00	0.00	1.46		10.35	18.92	83.84	86.68	19-Jul-15 13:00:00		**13.15**	**18.92**	**83.84**	**88.14**
19-Jul-15 14:00:00	19-Jul-15 15:00:00		8.31	0.00	0.00	2.90	2.1	329.7		2.74	0.00	0.00	0.95		10.35	18.92	83.84	86.68	19-Jul-15 14:00:00		**13.09**	**18.92**	**83.84**	**87.63**
19-Jul-15 15:00:00	19-Jul-15 16:00:00		1.66	0.00	0.00	2.94	2.1	329.7		0.55	0.00	0.00	0.97		10.35	18.92	83.84	86.68	19-Jul-15 15:00:00		**10.90**	**18.92**	**83.84**	**87.65**
19-Jul-15 16:00:00	19-Jul-15 17:00:00		11.11	0.00	0.00	2.99	2.1	329.7		3.66	0.00	0.00	0.99		10.35	18.92	83.84	86.68	19-Jul-15 16:00:00		**14.01**	**18.92**	**83.84**	**87.67**
19-Jul-15 17:00:00	19-Jul-15 18:00:00		8.04	0.00	0.00	3.04	2.1	329.7		2.65	0.00	0.00	1.00		10.35	18.92	83.84	86.68	19-Jul-15 17:00:00		**13.00**	**18.92**	**83.84**	**87.68**
19-Jul-15 18:00:00	19-Jul-15 19:00:00		6.52	0.00	0.00	3.13	2.1	329.7		2.15	0.00	0.00	1.03		10.35	18.92	83.84	86.68	19-Jul-15 18:00:00		**12.50**	**18.92**	**83.84**	**87.71**
19-Jul-15 19:00:00	19-Jul-15 20:00:00		10.18	0.00	0.00	3.24	2.1	329.7		3.36	0.00	0.00	1.07		10.35	18.92	83.84	86.68	19-Jul-15 19:00:00		**13.71**	**18.92**	**83.84**	**87.75**
19-Jul-15 20:00:00	19-Jul-15 21:00:00		2.75	0.00	0.00	3.35	2.1	329.7		0.91	0.00	0.00	1.10		10.35	18.92	83.84	86.68	19-Jul-15 20:00:00		**11.26**	**18.92**	**83.84**	**87.78**
19-Jul-15 21:00:00	19-Jul-15 22:00:00		1.99	0.00	0.00	3.41	2.1	329.7		0.66	0.00	0.00	1.12		10.35	18.92	83.84	86.68	19-Jul-15 21:00:00		**11.01**	**18.92**	**83.84**	**87.80**
19-Jul-15 22:00:00	19-Jul-15 23:00:00		3.88	0.00	0.00	13.06	2.1	329.7		1.28	0.00	0.00	4.31		10.35	18.92	83.84	86.68	19-Jul-15 22:00:00		**11.63**	**18.92**	**83.84**	**90.99**
19-Jul-15 23:00:00	20-Jul-15 00:00:00		2.90	0.00	0.00	3.86	2.1	329.7		0.96	0.00	0.00	1.27		10.35	18.92	83.84	86.68	19-Jul-15 23:00:00		**11.31**	**18.92**	**83.84**	**87.95**
20-Jul-15 00:00:00	20-Jul-15 01:00:00		1.18	0.00	0.00	3.99	2.1	329.7		0.39	0.00	0.00	1.32		10.35	18.92	83.84	86.68	20-Jul-15 00:00:00		**10.74**	**18.92**	**83.84**	**88.00**
20-Jul-15 01:00:00	20-Jul-15 02:00:00		0.42	0.00	0.00	4.12	2.1	329.7		0.14	0.00	0.00	1.36		10.35	18.92	83.84	86.68	20-Jul-15 01:00:00		**10.49**	**18.92**	**83.84**	**88.04**
20-Jul-15 02:00:00	20-Jul-15 03:00:00		2.04	0.00	0.00	4.39	2.1	329.7		0.67	0.00	0.00	1.45		10.35	18.92	83.84	86.68	20-Jul-15 02:00:00		**11.02**	**18.92**	**83.84**	**88.13**
20-Jul-15 03:00:00	20-Jul-15 04:00:00		10.84	0.00	0.00	4.42	2.1	329.7		3.57	0.00	0.00	1.46		10.35	18.92	83.84	86.68	20-Jul-15 03:00:00		**13.92**	**18.92**	**83.84**	**88.14**
20-Jul-15 04:00:00	20-Jul-15 05:00:00		12.74	0.00	0.00	4.40	2.1	329.7		4.20	0.00	0.00	1.45		10.35	18.92	83.84	86.68	20-Jul-15 04:00:00		**14.55**	**18.92**	**83.84**	**88.13**
20-Jul-15 05:00:00	20-Jul-15 06:00:00		0.00	0.00	0.00	4.38	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	20-Jul-15 05:00:00		**10.35**	**18.92**	**83.84**	**88.13**
20-Jul-15 06:00:00	20-Jul-15 07:00:00		11.90	0.00	0.00	4.38	2.1	329.7		3.92	0.00	0.00	1.44		10.35	18.92	83.84	86.68	20-Jul-15 06:00:00		**14.27**	**18.92**	**83.84**	**88.12**
20-Jul-15 07:00:00	20-Jul-15 08:00:00		17.32	0.00	0.00	4.26	2.1	329.7		5.71	0.00	0.00	1.41		10.35	18.92	83.84	86.68	20-Jul-15 07:00:00		**16.06**	**18.92**	**83.84**	**88.09**
20-Jul-15 08:00:00	20-Jul-15 09:00:00		16.21	0.00	0.00	4.13	2.1	329.7		5.34	0.00	0.00	1.36		10.35	18.92	83.84	86.68	20-Jul-15 08:00:00		**15.69**	**18.92**	**83.84**	**88.04**
20-Jul-15 09:00:00	20-Jul-15 10:00:00		15.10	0.00	0.00	4.00	2.1	329.7		4.98	0.00	0.00	1.32		10.35	18.92	83.84	86.68	20-Jul-15 09:00:00		**15.33**	**18.92**	**83.84**	**88.00**
20-Jul-15 10:00:00	20-Jul-15 11:00:00		2.71	0.00	0.00	3.89	2.1	329.7		0.89	0.00	0.00	1.28		10.35	18.92	83.84	86.68	20-Jul-15 10:00:00		**11.24**	**18.92**	**83.84**	**87.96**
20-Jul-15 11:00:00	20-Jul-15 12:00:00		4.59	0.00	0.00	3.72	2.1	329.7		1.51	0.00	0.00	1.23		10.35	18.92	83.84	86.68	20-Jul-15 11:00:00		**11.86**	**18.92**	**83.84**	**87.91**
20-Jul-15 12:00:00	20-Jul-15 13:00:00		4.33	0.00	0.00	3.53	2.1	329.7		1.43	0.00	0.00	1.16		10.35	18.92	83.84	86.68	20-Jul-15 12:00:00		**11.78**	**18.92**	**83.84**	**87.84**
20-Jul-15 13:00:00	20-Jul-15 14:00:00		4.92	0.00	0.00	3.34	2.1	329.7		1.62	0.00	0.00	1.10		10.35	18.92	83.84	86.68	20-Jul-15 13:00:00		**11.97**	**18.92**	**83.84**	**87.78**
20-Jul-15 14:00:00	20-Jul-15 15:00:00		3.16	0.00	0.00	3.21	2.1	329.7		1.04	0.00	0.00	1.06		10.35	18.92	83.84	86.68	20-Jul-15 14:00:00		**11.39**	**18.92**	**83.84**	**87.74**
20-Jul-15 15:00:00	20-Jul-15 16:00:00		4.52	0.00	0.00	33.90	2.1	329.7		1.49	0.00	0.00	11.18		10.35	18.92	83.84	86.68	20-Jul-15 15:00:00		**11.84**	**18.92**	**83.84**	**97.86**
20-Jul-15 16:00:00	20-Jul-15 17:00:00		6.11	0.00	0.00	3.19	2.1	329.7		2.01	0.00	0.00	1.05		10.35	18.92	83.84	86.68	20-Jul-15 16:00:00		**12.36**	**18.92**	**83.84**	**87.73**
20-Jul-15 17:00:00	20-Jul-15 18:00:00		11.74	0.00	0.00	3.24	2.1	329.7		3.87	0.00	0.00	1.07		10.35	18.92	83.84	86.68	20-Jul-15 17:00:00		**14.22**	**18.92**	**83.84**	**87.75**
20-Jul-15 18:00:00	20-Jul-15 19:00:00		17.18	0.00	0.00	10.49	2.1	329.7		5.67	0.00	0.00	3.46		10.35	18.92	83.84	86.68	20-Jul-15 18:00:00		**16.02**	**18.92**	**83.84**	**90.14**
20-Jul-15 19:00:00	20-Jul-15 20:00:00		24.63	0.00	0.00	3.50	2.1	329.7		8.12	0.00	0.00	1.15		10.35	18.92	83.84	86.68	20-Jul-15 19:00:00		**18.47**	**18.92**	**83.84**	**87.83**
20-Jul-15 20:00:00	20-Jul-15 21:00:00		12.09	0.00	0.00	3.83

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
22-Jul-15 18:00:00	22-Jul-15 19:00:00		0.00	0.00	0.00	3.67	2.1	329.7		0.00	0.00	0.00	1.21		10.35	18.92	83.84	86.68	22-Jul-15 18:00:00		10.35	18.92	83.84	87.89
22-Jul-15 19:00:00	22-Jul-15 20:00:00		0.00	0.00	0.00	3.85	2.1	329.7		0.00	0.00	0.00	1.27		10.35	18.92	83.84	86.68	22-Jul-15 19:00:00		10.35	18.92	83.84	87.95
22-Jul-15 20:00:00	22-Jul-15 21:00:00		0.28	0.00	0.00	4.02	2.1	329.7		0.09	0.00	0.00	1.33		10.35	18.92	83.84	86.68	22-Jul-15 20:00:00		10.44	18.92	83.84	88.01
22-Jul-15 21:00:00	22-Jul-15 22:00:00		1.28	0.00	0.00	4.18	2.1	329.7		0.42	0.00	0.00	1.38		10.35	18.92	83.84	86.68	22-Jul-15 21:00:00		10.77	18.92	83.84	88.06
22-Jul-15 22:00:00	22-Jul-15 23:00:00		1.85	0.00	0.00	4.37	2.1	329.7		0.61	0.00	0.00	1.44		10.35	18.92	83.84	86.68	22-Jul-15 22:00:00		10.96	18.92	83.84	88.12
22-Jul-15 23:00:00	23-Jul-15 00:00:00		7.38	0.00	0.00	4.57	2.1	329.7		2.43	0.00	0.00	1.51		10.35	18.92	83.84	86.68	22-Jul-15 23:00:00		12.78	18.92	83.84	88.19
23-Jul-15 00:00:00	23-Jul-15 01:00:00		0.00	0.00	0.00	4.76	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	23-Jul-15 00:00:00		10.35	18.92	83.84	88.25
23-Jul-15 01:00:00	23-Jul-15 02:00:00		0.00	0.00	0.00	4.88	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	23-Jul-15 01:00:00		10.35	18.92	83.84	88.29
23-Jul-15 02:00:00	23-Jul-15 03:00:00		0.00	0.00	0.00	8.36	2.1	329.7		0.00	0.00	0.00	2.76		10.35	18.92	83.84	86.68	23-Jul-15 02:00:00		10.35	18.92	83.84	89.44
23-Jul-15 03:00:00	23-Jul-15 04:00:00		0.00	0.00	0.00	5.06	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	23-Jul-15 03:00:00		10.35	18.92	83.84	88.35
23-Jul-15 04:00:00	23-Jul-15 05:00:00		0.44	0.00	0.00	5.08	2.1	329.7		0.15	0.00	0.00	1.67		10.35	18.92	83.84	86.68	23-Jul-15 04:00:00		10.50	18.92	83.84	88.35
23-Jul-15 05:00:00	23-Jul-15 06:00:00		1.33	0.00	0.00	5.10	2.1	329.7		0.44	0.00	0.00	1.68		10.35	18.92	83.84	86.68	23-Jul-15 05:00:00		10.79	18.92	83.84	88.36
23-Jul-15 06:00:00	23-Jul-15 07:00:00		7.83	0.00	0.00	11.45	2.1	329.7		2.58	0.00	0.00	3.78		10.35	18.92	83.84	86.68	23-Jul-15 06:00:00		12.93	18.92	83.84	90.46
23-Jul-15 07:00:00	23-Jul-15 08:00:00		2.19	0.00	0.00	4.83	2.1	329.7		0.72	0.00	0.00	1.59		10.35	18.92	83.84	86.68	23-Jul-15 07:00:00		11.07	18.92	83.84	88.27
23-Jul-15 08:00:00	23-Jul-15 09:00:00		7.11	0.00	0.00	4.73	2.1	329.7		2.34	0.00	0.00	1.56		10.35	18.92	83.84	86.68	23-Jul-15 08:00:00		12.69	18.92	83.84	88.24
23-Jul-15 09:00:00	23-Jul-15 10:00:00		0.00	0.00	0.00	24.71	2.1	329.7		0.00	0.00	0.00	8.15		10.35	18.92	83.84	86.68	23-Jul-15 09:00:00		10.35	18.92	83.84	94.83
23-Jul-15 10:00:00	23-Jul-15 11:00:00		0.00	0.00	0.00	4.32	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	23-Jul-15 10:00:00		10.35	18.92	83.84	88.10
23-Jul-15 11:00:00	23-Jul-15 12:00:00		2.11	0.00	0.00	4.08	2.1	329.7		0.70	0.00	0.00	1.34		10.35	18.92	83.84	86.68	23-Jul-15 11:00:00		11.05	18.92	83.84	88.02
23-Jul-15 12:00:00	23-Jul-15 13:00:00		3.78	0.00	0.00	3.84	2.1	329.7		1.25	0.00	0.00	1.27		10.35	18.92	83.84	86.68	23-Jul-15 12:00:00		11.60	18.92	83.84	87.95
23-Jul-15 13:00:00	23-Jul-15 14:00:00		1.59	0.75	0.00	3.73	2.1	329.7		0.52	0.25	0.00	1.23		10.35	18.92	83.84	86.68	23-Jul-15 13:00:00		10.87	19.17	83.84	87.91
23-Jul-15 14:00:00	23-Jul-15 15:00:00		0.00	0.00	0.00	3.90	2.1	329.7		0.00	0.00	0.00	1.29		10.35	18.92	83.84	86.68	23-Jul-15 14:00:00		10.35	18.92	83.84	87.97
23-Jul-15 15:00:00	23-Jul-15 16:00:00		0.00	0.00	0.00	4.06	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	23-Jul-15 15:00:00		10.35	18.92	83.84	88.02
23-Jul-15 16:00:00	23-Jul-15 17:00:00		19.72	0.00	0.00	4.22	2.1	329.7		6.50	0.00	0.00	1.39		10.35	18.92	83.84	86.68	23-Jul-15 16:00:00		16.85	18.92	83.84	88.07
23-Jul-15 17:00:00	23-Jul-15 18:00:00		16.11	0.00	0.00	4.41	2.1	329.7		5.31	0.00	0.00	1.45		10.35	18.92	83.84	86.68	23-Jul-15 17:00:00		15.66	18.92	83.84	88.13
23-Jul-15 18:00:00	23-Jul-15 19:00:00		0.14	0.00	0.00	4.74	2.1	329.7		0.05	0.00	0.00	1.56		10.35	18.92	83.84	86.68	23-Jul-15 18:00:00		10.40	18.92	83.84	88.24
23-Jul-15 19:00:00	23-Jul-15 20:00:00		1.66	0.00	0.00	5.08	2.1	329.7		0.55	0.00	0.00	1.67		10.35	18.92	83.84	86.68	23-Jul-15 19:00:00		10.90	18.92	83.84	88.35
23-Jul-15 20:00:00	23-Jul-15 21:00:00		0.33	0.00	0.00	5.42	2.1	329.7		0.11	0.00	0.00	1.79		10.35	18.92	83.84	86.68	23-Jul-15 20:00:00		10.46	18.92	83.84	88.47
23-Jul-15 21:00:00	23-Jul-15 22:00:00		0.59	0.00	0.00	5.64	2.1	329.7		0.19	0.00	0.00	1.86		10.35	18.92	83.84	86.68	23-Jul-15 21:00:00		10.54	18.92	83.84	88.54
23-Jul-15 22:00:00	23-Jul-15 23:00:00		0.74	0.00	0.00	5.52	2.1	329.7		0.24	0.00	0.00	1.82		10.35	18.92	83.84	86.68	23-Jul-15 22:00:00		10.59	18.92	83.84	88.50
23-Jul-15 23:00:00	24-Jul-15 00:00:00		0.45	0.00	0.00	5.40	2.1	329.7		0.15	0.00	0.00	1.78		10.35	18.92	83.84	86.68	23-Jul-15 23:00:00		10.50	18.92	83.84	88.46
24-Jul-15 00:00:00	24-Jul-15 01:00:00		0.16	0.00	0.00	5.27	2.1	329.7		0.05	0.00	0.00	1.74		10.35	18.92	83.84	86.68	24-Jul-15 00:00:00		10.40	18.92	83.84	88.42
24-Jul-15 01:00:00	24-Jul-15 02:00:00		8.13	0.00	0.00	5.24	2.1	329.7		2.68	0.00	0.00	1.73		10.35	18.92	83.84	86.68	24-Jul-15 01:00:00		13.03	18.92	83.84	88.41
24-Jul-15 02:00:00	24-Jul-15 03:00:00		2.03	0.00	0.00	5.27	2.1	329.7		0.67	0.00	0.00	1.74		10.35	18.92	83.84	86.68	24-Jul-15 02:00:00		11.02	18.92	83.84	88.42
24-Jul-15 03:00:00	24-Jul-15 04:00:00		0.48	0.00	0.00	5.26	2.1	329.7		0.16	0.00	0.00	1.73		10.35	18.92	83.84	86.68	24-Jul-15 03:00:00		10.51	18.92	83.84	88.41
24-Jul-15 04:00:00	24-Jul-15 05:00:00		8.66	0.00	0.00	5.24	2.1	329.7		2.85	0.00	0.00	1.73		10.35	18.92	83.84	86.68	24-Jul-15 04:00:00		13.20	18.92	83.84	88.41
24-Jul-15 05:00:00	24-Jul-15 06:00:00		5.47	0.00	0.00	5.21	2.1	329.7		1.80	0.00	0.00	1.72		10.35	18.92	83.84	86.68	24-Jul-15 05:00:00		12.15	18.92	83.84	88.40
24-Jul-15 06:00:00	24-Jul-15 07:00:00		4.34	0.00	0.00	5.26	2.1	329.7		1.43	0.00	0.00	1.73		10.35	18.92	83.84	86.68	24-Jul-15 06:00:00		11.78	18.92	83.84	88.41
24-Jul-15 07:00:00	24-Jul-15 08:00:00		13.80	0.00	0.00	5.34	2.1	329.7		4.55	0.00	0.00	1.76		10.35	18.92	83.84	86.68	24-Jul-15 07:00:00		14.90	18.92	83.84	88.44
24-Jul-15 08:00:00	24-Jul-15 09:00:00		17.84	0.00	0.00	5.42	2.1	329.7		5.88	0.00	0.00	1.79		10.35	18.92	83.84	86.68	24-Jul-15 08:00:00		16.23	18.92	83.84	88.47
24-Jul-15 09:00:00	24-Jul-15 10:00:00		23.23	0.00	0.00	5.43	2.1	329.7		7.66	0.00	0.00	1.79		10.35	18.92	83.84	86.68	24-Jul-15 09:00:00		18.01	18.92	83.84	88.47
24-Jul-15 10:00:00	24-Jul-15 11:00:00		22.41	0.00	0.00	5.28	2.1	329.7		7.39	0.00	0.00	1.74		10.35	18.92	83.84	86.68	24-Jul-15 10:00:00		17.74	18.92	83.84	88.42
24-Jul-15 11:00:00	24-Jul-15 12:00:00		20.04	0.00	0.00	5.12	2.1	329.7		6.61	0.00	0.00	1.69		10.35	18.92	83.84	86.68	24-Jul-15 11:00:00		16.96	18.92	83.84	88.37
24-Jul-15 12:00:00	24-Jul-15 13:00:00		19.89	0.00	0.00	4.97	2.1	329.7		6.56	0.00	0.00	1.64		10.35	18.92	83.84	86.68	24-Jul-15 12:00:00		16.91	18.92	83.84	88.32
24-Jul-15 13:00:00	24-Jul-15 14:00:00		18.82	0.00	0.00	4.82	2.1	329.7		6.21	0.00	0.00	1.59		10.35	18.92	83.84	86.68	24-Jul-15 13:00:00		16.56	18.92	83.84	88.27
24-Jul-15 14:00:00	24-Jul-15 15:00:00		3.06	0.00	0.00	4.77	2.1	329.7		1.01	0.00	0.00	1.57		10.35	18.92	83.84	86.68	24-Jul-15 14:00:00		11.36	18.92	83.84	88.25
24-Jul-15 15:00:00	24-Jul-15 16:00:00		0.00	0.00	0.00	4.74	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	24-Jul-15 15:00:00		10.35	18.92	83.84	88.24
24-Jul-15 16:00:00	24-Jul-15 17:00:00		0.00	0.00	0.00	4.71	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	24-Jul-15 16:00:00		10.35	18.92	83.84	88.23
24-Jul-15 17:00:00	24-Jul-15 18:00:00		0.00	0.00	0.00	4.68	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	24-Jul-15 17:00:00		10.35	18.92	83.84	88.22
24-Jul-15 18:00:00	24-Jul-15 19:00:00		0.00	0.00	0.00	4.70	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	24-Jul-15 18:00:00		10.35	18.92	83.84	88.23
24-Jul-15 19:00:00	24-Jul-15 20:00:00		0.00	0.00	0.00	4.73	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	24-Jul-15 19:00:00		10.35	18.92	83.84	88.24
24-Jul-15 20:00:00	24-Jul-15 21:00:00		0.00	0.00	0.00	4.77	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	24-Jul-15 20:00:00		10.35	18.92	83.84	88.25
24-Jul-15 21:00:00	24-Jul-15 22:00:00		0.00	0.00	0.00	4.78	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	24-Jul-15 21:00:00		10.35	18.92	83.84	88.26
24-Jul-15 22:00:00	24-Jul-15 23:00:00		0.00	0.00	0.00	4.84	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	24-Jul-15 22:00:00		10.35	18.92	83.84	88.28
24-Jul-15 23:00:00	25-Jul-15 00:00:00		3.75	0.00	0.00	4.95	2.1	329.7		1.24	0.00	0.00	1.63		10.35	18.92	83.84	86.68	24-Jul-15 23:00:00		11.59	18.92	83.84	88.31
25-Jul-15 00:00:00	25-Jul-15 01:00:00		15.59	0.00	0.00	5.05	2.1	329.7		5.14	0.00	0.00	1.67		10.35	18.92	83.84	86.68	25-Jul-15 00:00:00		15.49	18.92	83.84	88.35
25-Jul-15 01:00:00	25-Jul-15 02:00:00		28.70	0.00	0.00	5.09	2.1	329.7		9.46	0.00	0.00	1.68		10.35	18.92	83.84	86.68	25-Jul-15 01:00:00		19.81	18.92	83.84	88.36
25-Jul-15 02:00:00	25-Jul-15 03:00:00		33.13	0.00	0.00	5.09	2.1	329.7		10.92	0.00	0.00	1.68		10.35	18.92	83.84	86.68	25-Jul-15 02:00:00		21.27	18.92	83.84	88.36
25-Jul-15 03:00:00	25-Jul-15 04:00:00		20.72	0.00	0.00	5.13	2.1	329.7		6.83	0.00	0.00	1.69		10.35	18.92	83.84	86.68	25-Jul-15 03:00:00		17.18	18.92	83.84	88.37
25-Jul-15 04:00:00	25-Jul-15 05:00:00		19.18	0.00	0.00	5.18	2.1	329.7		6.32	0.00	0.00	1.71		10.35	18.92	83.84	86.68	25-Jul-15 04:00:00		16.67	18.92	83.84	88.39
25-Jul-15 05:00:00	25-Jul-15 06:00:00		26.83	0.00	0.00	5.17	2.1	329.7		8.85	0.00	0.00	1.71		10.35	18.92	83.84	86.68	25-Jul-15 05:00:00		19.20	18.92	83.84	88.39
25-Jul-15 06:00:00	25-Jul-15 07:00:00		7.76	0.00	0.00	5.15	2.1	329.7		2.56	0.00	0.00	1.70		10.35	18.92	83.84	86.68	25-Jul-15 06:00:00		12.91	18.92	83.84	88.38
25-Jul-15 07:00:00	25-Jul-15 08:00:00		19.08	0.00	0.00	5.15	2.1	329.7		6.29	0.00	0.00	1.70		10.35	18.92	83.84	86.68	25-Jul-15 07:00:00		16.64	18.92	83.84	88.38
25-Jul-15 08:00:00	25-Jul-15 09:00:00		17.19	0.00	0.00	5.16	2.1	329.7		5.67	0.00	0.00	1.70		10.35	18.92	83.84	86.68	25-Jul-15 08:00:00		16.02	18.92	83.84	88.38
25-Jul-15 09:00:00	25-Jul-15 10:00:00		16.82	0.00	0.00	5.05	2.1	329.7		5.55	0.00	0.00	1.67		10.35	18.92	83.84	86.68	25-Jul-15 09:00:00		15.90	18.92	83.84	88.35
25-Jul-15 10:00:00	25-Jul-15 11:00:00		15.45	0.00	0.00	4.82	2.1	329.7		5.09	0.00	0.00	1.59		10.35	18.92	83.84	86.68	25-Jul-15 10:00:00		15.44	18.92	83.84	88.27
25-Jul-15 11:00:00	25-Jul-15 12:00:00		15.04	0.00	0.00	4.66	2.1	329.7		4.96	0.00	0.00	1.54		10.35	18.92	83.84	86.68	25-Jul-15 11:00:00		15.31	18.92	83.84	88.22
25-Jul-15 12:00:00	25-Jul-15 13:00:00		3.27	0.00	0.00	4.50	2.1	329.7		1.08	0.00	0.00	1.48		10.35	18.92	83.84	86.68	25-Jul-15 12:00:00		11.43	18.92	83.84	88.16
25-Jul-15 13:00:00	25-Jul-15 14:00:00		0.00	0.00	0.00	4.36	2.1	329.7		0.00	0.00	0.00	1.44		10.35	18.92	83.84	86.68	25-Jul-15 13:00:00		10.35	18.92	83.84	88.12
25-Jul-15 14:00:00	25-Jul-15 15:00:00		0.06	0.00	0.00	4.35	2.1	329.7		0.02	0.00	0.00	1.43		10.35	18.92	83.84	86.68	25-Jul-15 14:00:00		10.37	18.92	83.84	88.11
25-Jul-15 15:00:00	25-Jul-15 16:00:00		0.00	0.00	0.00	4.37	2.1	329.7		0.00	0.00	0.00	1.44		10.35	18.92	83.84	86.68	25-Jul-15 15:00:00		10.35	18.92	83.84	88.12
25-Jul-15 16:00:00	25-Jul-15 17:00:00		0.00	0.00	0.00	4.39	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	25-Jul-15 16:00:00		10.35	18.92	83.84	88.13
25-Jul-15 17:00:00	25-Jul-15 18:00:00		0.00	0.00	0.00	4.45	2.1	329.7		0.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	25-Jul-15 17:00:00		10.35	18.92	83.84	88.15
25-Jul-15 18:00:00	25-Jul-15 19:00:00		0.00	0.00	0.00	4.54	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	25-Jul-15 18:00:00		10.35	18.92	83.84	88.18
25-Jul-15 19:00:00	25-Jul-15 20:00:00		0.12	0.00	0.00	4.59	2.1	329.7		0.04	0.00	0.00	1.51		10.35	18.92	83.84	86.68	25-Jul-15 19:00:00		10.39	18.92	83.84	88.19
25-Jul-15 20:00:00	25-Jul-15 21:00:00		0.34	0.00	0.00	4.65	2.1	329.7		0.11	0.00	0.00	1.53		10.35	18.92	83.84	86.68	25-Jul-15 20:00:00		10.46	18.92	83.84	88.21
25-Jul-15 21:00:00	25-Jul-15 22:00:00		0.55	0.00	0.00	4.69	2.1	329.7		0.18	0.00	0.00	1.55		10.35	18.92	83.84	86.68	25-Jul-15 21:00:00		10.53	18.92	83.84	88.23
25-Jul-15 22:00:00	25-Jul-15 23:00:00		0.74	0.00	0.00	4.82	2.1	329.7		0.25	0.00	0.00	1.59		10.35	18.92	83.84	86.68	25-Jul-15 22:00:00		10.60	18.92	83.84	88.27
25-Jul-15 23:00:00	26-Jul-15 00:00:00		0.00	0.00	0.00	4.99	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	25-Jul-15 23:00:00		10.35	18.92	83.84	88.33
26-Jul-15 00:00:00	26-Jul-15 01:00:00		9.15	0.00	0.00	5.16	2.1	329.7		3.02	0.00	0.00	1.70		10.35	18.92	83.84	86.68	26-Jul-15 00:00:00		13.37	18.92	83.84	88.38
26-Jul-15 01:00:00	26-Jul-15 02:00:00		24.68	0.00	0.00	5.26	2.1	329.7		8.14	0.00	0.00	1.73		10.35	18.92	83.84	86.68	26-Jul-15 01:00:00		18.49	18.92	83.84	88.41
26-Jul-15 02:00:00	26-Jul-15 03:00:00		26.56	0.00	0.00	5.22	2.1	329.7		8.76	0.00	0.00	1.72		10.35	18.92	83.84	86.68	26-Jul-15 02:00:00		19.11	18.92	83.84	88.40
26-Jul-15 03:00:00	26-Jul-15 04:00:00		32.84	0.00	0.00	5.22	2.1	329.7		10.83	0.00	0.00	1.72		10.35	18.92	83.84	86.68	26-Jul-15 03:00:00		21.18	18.92	83.84	88.40
26-Jul-15 04:00:00	26-Jul-15 05:00:00		10.13	0.00	0.00	5.22	2.1	329.7		3.34	0.00	0.00	1.72		10.35	18.92	83.84	86.68	26-Jul-15 04:00:00		13.69	18.92	83.84	88.40
26-Jul-15 05:00:00	26-Jul-15 06:00:00		27.25	0.00	0.00	5.21	2.1	329.7		8.99	0.00	0.00	1.72		10.35	18.92	83.84	86.68	26-Jul-15 05:00:00		19.34	18.92	83.84	88.40
26-Jul-15 06:00:00	26-Jul-15 07:00:00		46.73	0.00	0.00	5.13	2.1	329.7		15.41	0.00	0.00	1.69		10.35	18.92	83.84	86.68	26-Jul-15 06:00:00		25.76	18.92	83.84	88.37
26-Jul-15 07:00:00	26-Jul-15 08:00:00		42.77	0.00	0.00	5.03	2.1	329.7		14.10	0.00	0.00	1.66		10.35	18.92	83.84	86.68	26-Jul-15 07:00:00		24.45	18.92	83.84	88.34
26-Jul-15 08:00:00	26-Jul-15 09:00:00		41.04	0.00	0.00	4.93	2.1	329.7		13.53	0.00	0.00	1.62		10.35	18.92	83.84	86.68	26-Jul-15 08:00:00		23.88	18.92	83.84	88.30
26-Jul-15 09:00:00	26-Jul-15 10:00:00		41.53	0.00	0.00	4.83	2.1	329.7		13.69	0.00	0.00	1.59		10.35	18.92	83.84	86.68	26-Jul-15 09:00:00		24.04	18.92	83.84	88.27
26-Jul-15 10:00:00	26-Jul-15 11:00:00		37.13	0.00	0.00	4.71	2.1	329.7		12.24	0.00	0.00	1.55		10.35	18.92	83.84	86.68	26-Jul-15 10:00:00		22.59	18.92	83.84	88.23
26-Jul-15 11:00:00	26-Jul-15 12:00:00		7.34	0.00	0.00	4.58	2.1	329.7		2.42	0.00	0.00	1.51		10.35	18.92	83.84	86.68	26-Jul-15 11:00:00		12.77	18.92	83.84	88.19
26-Jul-15 12:00:00	26-Jul-15 13:00:00		6.42	0.00	0.00	4.46	2.1	329.7		2.12	0.00	0.00	1.47		10.35	18.92	83.84	86.68	26-Jul-15 12:00:00		12.47	18.92	83.84	88.15
26-Jul-15 13:00:00	26-Jul-15 14:00:00		5.46	0.00	0.00	4.35	2.1	329.7		1.80	0.00	0.00	1.43		10.35	18.92	83.84	86.68	26-Jul-15 13:00:00		12.15	18.92	83.84	88.11
26-Jul-15 14:00:00	26-Jul-15 15:00:00		1.88	0.00	0.00	4.45	2.1	329.7		0.62	0.00	0.00	1.47		10.35	18.92	83.84	86.68	26-Jul-15 14:00:00		10.97	18.92	83.84	88.15
26-Jul-15 15:00:00	26-Jul-15 16:00:00		0.58	0.00	0.00	4.63

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
28-Jul-15 13:00:00	28-Jul-15 14:00:00		0.57	0.00	0.00	4.50	2.1	329.7		0.19	0.00	0.00	1.48		10.35	18.92	83.84	86.68	28-Jul-15 13:00:00		**10.54**	**18.92**	**83.84**	**88.16**
28-Jul-15 14:00:00	28-Jul-15 15:00:00		0.30	0.00	0.00	4.59	2.1	329.7		0.10	0.00	0.00	1.51		10.35	18.92	83.84	86.68	28-Jul-15 14:00:00		**10.45**	**18.92**	**83.84**	**88.19**
28-Jul-15 15:00:00	28-Jul-15 16:00:00		0.18	0.00	0.00	4.69	2.1	329.7		0.06	0.00	0.00	1.54		10.35	18.92	83.84	86.68	28-Jul-15 15:00:00		**10.41**	**18.92**	**83.84**	**88.22**
28-Jul-15 16:00:00	28-Jul-15 17:00:00		0.77	0.00	0.00	4.77	2.1	329.7		0.26	0.00	0.00	1.57		10.35	18.92	83.84	86.68	28-Jul-15 16:00:00		**10.61**	**18.92**	**83.84**	**88.25**
28-Jul-15 17:00:00	28-Jul-15 18:00:00		0.11	0.00	0.00	4.70	2.1	329.7		0.04	0.00	0.00	1.55		10.35	18.92	83.84	86.68	28-Jul-15 17:00:00		**10.39**	**18.92**	**83.84**	**88.23**
28-Jul-15 18:00:00	28-Jul-15 19:00:00		0.28	0.00	0.00	4.75	2.1	329.7		0.09	0.00	0.00	1.57		10.35	18.92	83.84	86.68	28-Jul-15 18:00:00		**10.44**	**18.92**	**83.84**	**88.25**
28-Jul-15 19:00:00	28-Jul-15 20:00:00		0.20	0.00	0.00	4.81	2.1	329.7		0.06	0.00	0.00	1.58		10.35	18.92	83.84	86.68	28-Jul-15 19:00:00		**10.41**	**18.92**	**83.84**	**88.26**
28-Jul-15 20:00:00	28-Jul-15 21:00:00		0.11	0.00	0.00	4.86	2.1	329.7		0.04	0.00	0.00	1.60		10.35	18.92	83.84	86.68	28-Jul-15 20:00:00		**10.39**	**18.92**	**83.84**	**88.28**
28-Jul-15 21:00:00	28-Jul-15 22:00:00		0.03	0.00	0.00	5.01	2.1	329.7		0.01	0.00	0.00	1.65		10.35	18.92	83.84	86.68	28-Jul-15 21:00:00		**10.36**	**18.92**	**83.84**	**88.33**
28-Jul-15 22:00:00	28-Jul-15 23:00:00		0.00	0.00	0.00	5.07	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	28-Jul-15 22:00:00		**10.35**	**18.92**	**83.84**	**88.35**
28-Jul-15 23:00:00	29-Jul-15 00:00:00		0.00	0.00	0.00	5.13	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	28-Jul-15 23:00:00		**10.35**	**18.92**	**83.84**	**88.37**
29-Jul-15 00:00:00	29-Jul-15 01:00:00		0.00	0.00	0.00	5.21	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	29-Jul-15 00:00:00		**10.35**	**18.92**	**83.84**	**88.40**
29-Jul-15 01:00:00	29-Jul-15 02:00:00		0.00	0.00	0.00	5.37	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	29-Jul-15 01:00:00		**10.35**	**18.92**	**83.84**	**88.45**
29-Jul-15 02:00:00	29-Jul-15 03:00:00		3.27	0.00	0.00	5.35	2.1	329.7		1.08	0.00	0.00	1.76		10.35	18.92	83.84	86.68	29-Jul-15 02:00:00		**11.43**	**18.92**	**83.84**	**88.44**
29-Jul-15 03:00:00	29-Jul-15 04:00:00		8.54	0.00	0.00	5.33	2.1	329.7		2.82	0.00	0.00	1.76		10.35	18.92	83.84	86.68	29-Jul-15 03:00:00		**13.17**	**18.92**	**83.84**	**88.44**
29-Jul-15 04:00:00	29-Jul-15 05:00:00		9.42	0.00	0.00	5.31	2.1	329.7		3.10	0.00	0.00	1.75		10.35	18.92	83.84	86.68	29-Jul-15 04:00:00		**13.45**	**18.92**	**83.84**	**88.43**
29-Jul-15 05:00:00	29-Jul-15 06:00:00		5.89	0.00	0.00	5.26	2.1	329.7		1.94	0.00	0.00	1.73		10.35	18.92	83.84	86.68	29-Jul-15 05:00:00		**12.29**	**18.92**	**83.84**	**88.41**
29-Jul-15 06:00:00	29-Jul-15 07:00:00		7.90	0.00	0.00	5.25	2.1	329.7		2.61	0.00	0.00	1.73		10.35	18.92	83.84	86.68	29-Jul-15 06:00:00		**12.96**	**18.92**	**83.84**	**88.41**
29-Jul-15 07:00:00	29-Jul-15 08:00:00		13.30	0.00	0.00	5.24	2.1	329.7		4.38	0.00	0.00	1.73		10.35	18.92	83.84	86.68	29-Jul-15 07:00:00		**14.73**	**18.92**	**83.84**	**88.41**
29-Jul-15 08:00:00	29-Jul-15 09:00:00		13.87	0.00	0.00	5.22	2.1	329.7		4.57	0.00	0.00	1.72		10.35	18.92	83.84	86.68	29-Jul-15 08:00:00		**14.92**	**18.92**	**83.84**	**88.40**
29-Jul-15 09:00:00	29-Jul-15 10:00:00		14.30	0.00	0.00	5.05	2.1	329.7		4.72	0.00	0.00	1.66		10.35	18.92	83.84	86.68	29-Jul-15 09:00:00		**15.07**	**18.92**	**83.84**	**88.34**
29-Jul-15 10:00:00	29-Jul-15 11:00:00		17.62	0.00	0.00	4.77	2.1	329.7		5.81	0.00	0.00	1.57		10.35	18.92	83.84	86.68	29-Jul-15 10:00:00		**16.16**	**18.92**	**83.84**	**88.25**
29-Jul-15 11:00:00	29-Jul-15 12:00:00		3.99	0.00	0.00	4.50	2.1	329.7		1.31	0.00	0.00	1.48		10.35	18.92	83.84	86.68	29-Jul-15 11:00:00		**11.66**	**18.92**	**83.84**	**88.16**
29-Jul-15 12:00:00	29-Jul-15 13:00:00		0.65	0.00	0.00	4.22	2.1	329.7		0.21	0.00	0.00	1.39		10.35	18.92	83.84	86.68	29-Jul-15 12:00:00		**10.56**	**18.92**	**83.84**	**88.07**
29-Jul-15 13:00:00	29-Jul-15 14:00:00		2.09	0.00	0.00	4.13	2.1	329.7		0.69	0.00	0.00	1.36		10.35	18.92	83.84	86.68	29-Jul-15 13:00:00		**11.04**	**18.92**	**83.84**	**88.04**
29-Jul-15 14:00:00	29-Jul-15 15:00:00		0.51	0.00	0.00	4.18	2.1	329.7		0.17	0.00	0.00	1.38		10.35	18.92	83.84	86.68	29-Jul-15 14:00:00		**10.52**	**18.92**	**83.84**	**88.06**
29-Jul-15 15:00:00	29-Jul-15 16:00:00		3.46	0.00	0.00	4.22	2.1	329.7		1.14	0.00	0.00	1.39		10.35	18.92	83.84	86.68	29-Jul-15 15:00:00		**11.49**	**18.92**	**83.84**	**88.07**
29-Jul-15 16:00:00	29-Jul-15 17:00:00		0.00	0.00	0.00	4.27	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	29-Jul-15 16:00:00		**10.35**	**18.92**	**83.84**	**88.09**
29-Jul-15 17:00:00	29-Jul-15 18:00:00		0.38	0.00	0.00	4.18	2.1	329.7		0.13	0.00	0.00	1.38		10.35	18.92	83.84	86.68	29-Jul-15 17:00:00		**10.48**	**18.92**	**83.84**	**88.06**
29-Jul-15 18:00:00	29-Jul-15 19:00:00		0.05	0.00	0.00	4.19	2.1	329.7		0.02	0.00	0.00	1.38		10.35	18.92	83.84	86.68	29-Jul-15 18:00:00		**10.37**	**18.92**	**83.84**	**88.06**
29-Jul-15 19:00:00	29-Jul-15 20:00:00		0.10	0.00	0.00	4.20	2.1	329.7		0.03	0.00	0.00	1.38		10.35	18.92	83.84	86.68	29-Jul-15 19:00:00		**10.38**	**18.92**	**83.84**	**88.06**
29-Jul-15 20:00:00	29-Jul-15 21:00:00		0.15	0.00	0.00	4.20	2.1	329.7		0.05	0.00	0.00	1.39		10.35	18.92	83.84	86.68	29-Jul-15 20:00:00		**10.40**	**18.92**	**83.84**	**88.07**
29-Jul-15 21:00:00	29-Jul-15 22:00:00		0.22	0.00	0.00	4.30	2.1	329.7		0.07	0.00	0.00	1.42		10.35	18.92	83.84	86.68	29-Jul-15 21:00:00		**10.42**	**18.92**	**83.84**	**88.10**
29-Jul-15 22:00:00	29-Jul-15 23:00:00		0.53	0.00	0.00	4.40	2.1	329.7		0.18	0.00	0.00	1.45		10.35	18.92	83.84	86.68	29-Jul-15 22:00:00		**10.53**	**18.92**	**83.84**	**88.13**
29-Jul-15 23:00:00	30-Jul-15 00:00:00		0.89	0.00	0.00	4.50	2.1	329.7		0.29	0.00	0.00	1.48		10.35	18.92	83.84	86.68	29-Jul-15 23:00:00		**10.64**	**18.92**	**83.84**	**88.16**
30-Jul-15 00:00:00	30-Jul-15 01:00:00		0.69	0.00	0.00	4.60	2.1	329.7		0.23	0.00	0.00	1.52		10.35	18.92	83.84	86.68	30-Jul-15 00:00:00		**10.58**	**18.92**	**83.84**	**88.20**
30-Jul-15 01:00:00	30-Jul-15 02:00:00		0.32	0.00	0.00	4.62	2.1	329.7		0.11	0.00	0.00	1.52		10.35	18.92	83.84	86.68	30-Jul-15 01:00:00		**10.46**	**18.92**	**83.84**	**88.20**
30-Jul-15 02:00:00	30-Jul-15 03:00:00		0.21	0.00	0.00	4.78	2.1	329.7		0.07	0.00	0.00	1.57		10.35	18.92	83.84	86.68	30-Jul-15 02:00:00		**10.42**	**18.92**	**83.84**	**88.25**
30-Jul-15 03:00:00	30-Jul-15 04:00:00		0.09	0.00	0.00	4.93	2.1	329.7		0.03	0.00	0.00	1.62		10.35	18.92	83.84	86.68	30-Jul-15 03:00:00		**10.38**	**18.92**	**83.84**	**88.30**
30-Jul-15 04:00:00	30-Jul-15 05:00:00		0.13	0.00	0.00	5.08	2.1	329.7		0.04	0.00	0.00	1.67		10.35	18.92	83.84	86.68	30-Jul-15 04:00:00		**10.39**	**18.92**	**83.84**	**88.35**
30-Jul-15 05:00:00	30-Jul-15 06:00:00		2.17	0.00	0.00	5.09	2.1	329.7		0.72	0.36	0.00	1.68		10.35	18.92	83.84	86.68	30-Jul-15 05:00:00		**11.07**	**18.92**	**83.84**	**88.36**
30-Jul-15 06:00:00	30-Jul-15 07:00:00		0.00	0.00	0.00	5.03	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	30-Jul-15 06:00:00		**10.35**	**18.92**	**83.84**	**88.34**
30-Jul-15 07:00:00	30-Jul-15 08:00:00		0.00	0.00	0.00	4.97	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	30-Jul-15 07:00:00		**10.35**	**18.92**	**83.84**	**88.32**
30-Jul-15 08:00:00	30-Jul-15 09:00:00		0.00	0.00	0.00	4.91	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	30-Jul-15 08:00:00		**10.35**	**18.92**	**83.84**	**88.30**
30-Jul-15 09:00:00	30-Jul-15 10:00:00		0.00	0.00	0.00	4.94	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	30-Jul-15 09:00:00		**10.35**	**18.92**	**83.84**	**88.31**
30-Jul-15 10:00:00	30-Jul-15 11:00:00		0.00	0.00	0.00	4.74	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	30-Jul-15 10:00:00		**10.35**	**18.92**	**83.84**	**88.24**
30-Jul-15 11:00:00	30-Jul-15 12:00:00		0.33	0.00	0.00	4.54	2.1	329.7		0.11	0.00	0.00	1.50		10.35	18.92	83.84	86.68	30-Jul-15 11:00:00		**10.46**	**18.92**	**83.84**	**88.18**
30-Jul-15 12:00:00	30-Jul-15 13:00:00		0.22	0.00	0.00	4.35	2.1	329.7		0.07	0.00	0.00	1.43		10.35	18.92	83.84	86.68	30-Jul-15 12:00:00		**10.42**	**18.92**	**83.84**	**88.11**
30-Jul-15 13:00:00	30-Jul-15 14:00:00		2.13	0.00	0.00	4.16	2.1	329.7		0.70	0.00	0.00	1.37		10.35	18.92	83.84	86.68	30-Jul-15 13:00:00		**11.05**	**18.92**	**83.84**	**88.05**
30-Jul-15 14:00:00	30-Jul-15 15:00:00		6.09	0.00	0.00	4.09	2.1	329.7		2.01	0.00	0.00	1.35		10.35	18.92	83.84	86.68	30-Jul-15 14:00:00		**12.36**	**18.92**	**83.84**	**88.03**
30-Jul-15 15:00:00	30-Jul-15 16:00:00		3.00	0.00	0.00	4.01	2.1	329.7		0.99	0.00	0.00	1.32		10.35	18.92	83.84	86.68	30-Jul-15 15:00:00		**11.34**	**18.92**	**83.84**	**88.00**
30-Jul-15 16:00:00	30-Jul-15 17:00:00		0.00	0.00	0.00	3.93	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	30-Jul-15 16:00:00		**10.35**	**18.92**	**83.84**	**87.98**
30-Jul-15 17:00:00	30-Jul-15 18:00:00		0.00	0.00	0.00	4.07	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	30-Jul-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.02**
30-Jul-15 18:00:00	30-Jul-15 19:00:00		0.00	0.00	0.00	4.19	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	30-Jul-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.06**
30-Jul-15 19:00:00	30-Jul-15 20:00:00		0.00	0.00	0.00	4.31	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	30-Jul-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.10**
30-Jul-15 20:00:00	30-Jul-15 21:00:00		0.00	0.00	0.00	4.42	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	30-Jul-15 20:00:00		**10.35**	**18.92**	**83.84**	**88.14**
30-Jul-15 21:00:00	30-Jul-15 22:00:00		0.00	0.00	0.00	4.64	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	30-Jul-15 21:00:00		**10.35**	**18.92**	**83.84**	**88.21**
30-Jul-15 22:00:00	30-Jul-15 23:00:00		0.00	0.00	0.00	4.73	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	30-Jul-15 22:00:00		**10.35**	**18.92**	**83.84**	**88.24**
30-Jul-15 23:00:00	31-Jul-15 00:00:00		0.10	0.00	0.00	4.82	2.1	329.7		0.03	0.00	0.00	1.59		10.35	18.92	83.84	86.68	30-Jul-15 23:00:00		**10.38**	**18.92**	**83.84**	**88.27**
31-Jul-15 00:00:00	31-Jul-15 01:00:00		1.04	0.00	0.00	4.91	2.1	329.7		0.34	0.00	0.00	1.62		10.35	18.92	83.84	86.68	31-Jul-15 00:00:00		**10.69**	**18.92**	**83.84**	**88.30**
31-Jul-15 01:00:00	31-Jul-15 02:00:00		3.75	0.00	0.00	5.08	2.1	329.7		1.23	0.00	0.00	1.67		10.35	18.92	83.84	86.68	31-Jul-15 01:00:00		**11.58**	**18.92**	**83.84**	**88.35**
31-Jul-15 02:00:00	31-Jul-15 03:00:00		5.52	0.00	0.00	5.26	2.1	329.7		1.82	0.00	0.00	1.74		10.35	18.92	83.84	86.68	31-Jul-15 02:00:00		**12.17**	**18.92**	**83.84**	**88.42**
31-Jul-15 03:00:00	31-Jul-15 04:00:00		1.25	0.00	0.00	5.45	2.1	329.7		0.41	0.00	0.00	1.80		10.35	18.92	83.84	86.68	31-Jul-15 03:00:00		**10.76**	**18.92**	**83.84**	**88.48**
31-Jul-15 04:00:00	31-Jul-15 05:00:00		1.98	0.00	0.00	5.64	2.1	329.7		0.65	0.00	0.00	1.86		10.35	18.92	83.84	86.68	31-Jul-15 04:00:00		**11.00**	**18.92**	**83.84**	**88.54**
31-Jul-15 05:00:00	31-Jul-15 06:00:00		2.51	0.00	0.00	5.81	2.1	329.7		0.83	0.00	0.00	1.92		10.35	18.92	83.84	86.68	31-Jul-15 05:00:00		**11.18**	**18.92**	**83.84**	**88.60**
31-Jul-15 06:00:00	31-Jul-15 07:00:00		0.00	0.00	0.00	5.77	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	31-Jul-15 06:00:00		**10.35**	**18.92**	**83.84**	**88.58**
31-Jul-15 07:00:00	31-Jul-15 08:00:00		9.57	0.00	0.00	5.73	2.1	329.7		3.15	0.00	0.00	1.89		10.35	18.92	83.84	86.68	31-Jul-15 07:00:00		**13.50**	**18.92**	**83.84**	**88.57**
31-Jul-15 08:00:00	31-Jul-15 09:00:00		28.24	0.00	0.00	5.69	2.1	329.7		9.31	0.00	0.00	1.87		10.35	18.92	83.84	86.68	31-Jul-15 08:00:00		**19.66**	**18.92**	**83.84**	**88.55**
31-Jul-15 09:00:00	31-Jul-15 10:00:00		30.17	0.00	0.00	5.39	2.1	329.7		9.95	0.00	0.00	1.78		10.35	18.92	83.84	86.68	31-Jul-15 09:00:00		**20.30**	**18.92**	**83.84**	**88.46**
31-Jul-15 10:00:00	31-Jul-15 11:00:00		29.01	0.00	0.00	5.18	2.1	329.7		9.56	0.00	0.00	1.71		10.35	18.92	83.84	86.68	31-Jul-15 10:00:00		**19.91**	**18.92**	**83.84**	**88.39**
31-Jul-15 11:00:00	31-Jul-15 12:00:00		22.75	0.00	0.00	4.99	2.1	329.7		7.50	0.00	0.00	1.64		10.35	18.92	83.84	86.68	31-Jul-15 11:00:00		**17.85**	**18.92**	**83.84**	**88.32**
31-Jul-15 12:00:00	31-Jul-15 13:00:00		15.92	0.00	0.00	4.79	2.1	329.7		5.25	0.00	0.00	1.58		10.35	18.92	83.84	86.68	31-Jul-15 12:00:00		**15.60**	**18.92**	**83.84**	**88.26**
31-Jul-15 13:00:00	31-Jul-15 14:00:00		1.10	0.00	0.00	4.65	2.1	329.7		0.36	0.00	0.00	1.53		10.35	18.92	83.84	86.68	31-Jul-15 13:00:00		**10.71**	**18.92**	**83.84**	**88.21**
31-Jul-15 14:00:00	31-Jul-15 15:00:00		0.82	0.00	0.00	4.51	2.1	329.7		0.27	0.00	0.00	1.49		10.35	18.92	83.84	86.68	31-Jul-15 14:00:00		**10.62**	**18.92**	**83.84**	**88.17**
31-Jul-15 15:00:00	31-Jul-15 16:00:00		4.54	0.00	0.00	4.36	2.1	329.7		1.50	0.00	0.00	1.44		10.35	18.92	83.84	86.68	31-Jul-15 15:00:00		**11.85**	**18.92**	**83.84**	**88.12**
31-Jul-15 16:00:00	31-Jul-15 17:00:00		0.00	0.00	0.00	4.22	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	31-Jul-15 16:00:00		**10.35**	**18.92**	**83.84**	**88.07**
31-Jul-15 17:00:00	31-Jul-15 18:00:00		0.00	0.00	0.00	4.09	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	31-Jul-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.03**
31-Jul-15 18:00:00	31-Jul-15 19:00:00		0.00	0.00	0.00	4.12	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	31-Jul-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.04**
31-Jul-15 19:00:00	31-Jul-15 20:00:00		0.00	0.00	0.00	4.15	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	31-Jul-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.05**
31-Jul-15 20:00:00	31-Jul-15 21:00:00		0.00	0.00	0.00	4.18	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	31-Jul-15 20:00:00		**10.35**	**18.92**	**83.84**	**88.06**
31-Jul-15 21:00:00	31-Jul-15 22:00:00		0.00	0.00	0.00	4.43	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	31-Jul-15 21:00:00		**10.35**	**18.92**	**83.84**	**88.14**
31-Jul-15 22:00:00	31-Jul-15 23:00:00		2.31	0.00	0.00	4.66	2.1	329.7		0.76	0.00	0.00	1.54		10.35	18.92	83.84	86.68	31-Jul-15 22:00:00		**11.11**	**18.92**	**83.84**	**88.22**
31-Jul-15 23:00:00	01-Aug-15 00:00:00		1.07	0.00	0.00	4.87	2.1	329.7		0.35	0.00	0.00	1.61		10.35	18.92	83.84	86.68	31-Jul-15 23:00:00		**10.70**	**18.92**	**83.84**	**88.29**
01-Aug-15 00:00:00	01-Aug-15 01:00:00		0.00	0.00	0.00	5.08	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	01-Aug-15 00:00:00		**10.35**	**18.92**	**83.84**	**88.36**
01-Aug-15 01:00:00	01-Aug-15 02:00:00		3.12	0.00	0.00	5.27	2.1	329.7		1.03	0.00	0.00	1.74		10.35	18.92	83.84	86.68	01-Aug-15 01:00:00		**11.38**	**18.92**	**83.84**	**88.42**
01-Aug-15 02:00:00	01-Aug-15 03:00:00		9.20	0.00	0.00	5.37	2.1	329.7		3.03	0.00	0.00	1.77		10.35	18.92	83.84	86.68	01-Aug-15 02:00:00		**13.38**	**18.92**	**83.84**	**88.45**
01-Aug-15 03:00:00	01-Aug-15 04:00:00		32.78	0.00	0.00	5.47	2.1	329.7		10.81	0.00	0.00	1.80		10.35	18.92	83.84	86.68	01-Aug-15 03:00:00		**21.16**	**18.92**	**83.84**	**88.48**
01-Aug-15 04:00:00	01-Aug-15 05:00:00		29.26	0.00	0.00	5.57	2.1	329.7		9.65	0.00	0.00	1.84		10.35	18.92	83.84	86.68	01-Aug-15 04:00:00		**20.00**	**18.92**	**83.84**	**88.52**
01-Aug-15 05:00:00	01-Aug-15 06:00:00		5.66	0.00	0.00	5.68	2.1	329.7		1.87	0.00	0.00	1.87		10.35	18.92	83.84	86.68	01-Aug-15 05:00:00		**12.22**	**18.92**	**83.84**	**88.55**
01-Aug-15 06:00:00	01-Aug-15 07:00:00		6.57	0.00	0.00	5.66	2.1	329.7		2.17	0.00	0.00	1.87		10.35	18.92	83.84	86.68	01-Aug-15 06:00:00		**12.52**	**18.92**	**83.84**	**88.55**
01-Aug-15 07:00:00	01-Aug-15 08:00:00		3.86	0.00	0.00	5.64	2.1	329.7		1.27	0.00	0.00	1.86		10.35	18.92	83.84	86.68	01-Aug-15 07:00:00		**11.62**	**18.92**	**83.84**	**88.54**
01-Aug-15 08:00:00	01-Aug-15 09:00:00		0.00	0.00	0.00	5.61	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	01-Aug-15 08:00:00		**10.35**	**18.92**	**83.84**	**88.53**
01-Aug-15 09:00:00	01-Aug-15 10:00:00		0.00	0.00	0.00	5.49	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	01-Aug-15 09:00:00		**10.35**	**18.92**	**83.84**	**88.49**
01-Aug-15 10:00:00	01-Aug-15 11:00:00		0.28	0.00	0.00	5.

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
03-Aug-15 08:00:00	03-Aug-15 09:00:00		25.19	0.00	0.00	5.41	2.1	329.7		8.30	0.00	0.00	1.78		10.35	18.92	83.84	86.68	03-Aug-15 08:00:00		18.65	18.92	83.84	88.46
03-Aug-15 09:00:00	03-Aug-15 10:00:00		23.75	0.00	0.00	5.20	2.1	329.7		7.83	0.00	0.00	1.71		10.35	18.92	83.84	86.68	03-Aug-15 09:00:00		18.18	18.92	83.84	88.39
03-Aug-15 10:00:00	03-Aug-15 11:00:00		24.24	0.00	0.00	5.00	2.1	329.7		7.99	0.00	0.00	1.65		10.35	18.92	83.84	86.68	03-Aug-15 10:00:00		18.34	18.92	83.84	88.33
03-Aug-15 11:00:00	03-Aug-15 12:00:00		3.03	0.00	0.00	6.34	2.1	329.7		1.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	03-Aug-15 11:00:00		11.35	18.92	83.84	88.77
03-Aug-15 12:00:00	03-Aug-15 13:00:00		11.14	0.00	0.00	4.53	2.1	329.7		3.67	0.00	0.00	1.49		10.35	18.92	83.84	86.68	03-Aug-15 12:00:00		14.02	18.92	83.84	88.17
03-Aug-15 13:00:00	03-Aug-15 14:00:00		0.14	0.00	0.00	4.41	2.1	329.7		0.05	0.00	0.00	1.45		10.35	18.92	83.84	86.68	03-Aug-15 13:00:00		10.40	18.92	83.84	88.13
03-Aug-15 14:00:00	03-Aug-15 15:00:00		1.21	0.00	0.00	4.29	2.1	329.7		0.40	0.00	0.00	1.41		10.35	18.92	83.84	86.68	03-Aug-15 14:00:00		10.75	18.92	83.84	88.09
03-Aug-15 15:00:00	03-Aug-15 16:00:00		1.31	0.00	0.00	8.59	2.1	329.7		0.43	0.00	0.00	2.83		10.35	18.92	83.84	86.68	03-Aug-15 15:00:00		10.78	18.92	83.84	89.51
03-Aug-15 16:00:00	03-Aug-15 17:00:00		4.49	0.00	0.00	4.46	2.1	329.7		1.48	0.00	0.00	1.47		10.35	18.92	83.84	86.68	03-Aug-15 16:00:00		11.83	18.92	83.84	88.15
03-Aug-15 17:00:00	03-Aug-15 18:00:00		1.32	0.00	0.00	4.31	2.1	329.7		0.44	0.00	0.00	1.42		10.35	18.92	83.84	86.68	03-Aug-15 17:00:00		10.79	18.92	83.84	88.10
03-Aug-15 18:00:00	03-Aug-15 19:00:00		0.94	0.00	0.00	4.80	2.1	329.7		0.31	0.00	0.00	1.58		10.35	18.92	83.84	86.68	03-Aug-15 18:00:00		10.66	18.92	83.84	88.26
03-Aug-15 19:00:00	03-Aug-15 20:00:00		0.56	0.00	0.00	4.48	2.1	329.7		0.19	0.00	0.00	1.48		10.35	18.92	83.84	86.68	03-Aug-15 19:00:00		10.54	18.92	83.84	88.16
03-Aug-15 20:00:00	03-Aug-15 21:00:00		0.19	0.00	0.00	4.78	2.1	329.7		0.06	0.00	0.00	1.58		10.35	18.92	83.84	86.68	03-Aug-15 20:00:00		10.41	18.92	83.84	88.26
03-Aug-15 21:00:00	03-Aug-15 22:00:00		0.68	0.00	0.00	27.52	2.1	329.7		0.22	0.00	0.00	9.07		10.35	18.92	83.84	86.68	03-Aug-15 21:00:00		10.57	18.92	83.84	95.75
03-Aug-15 22:00:00	03-Aug-15 23:00:00		2.32	0.00	0.00	5.02	2.1	329.7		0.76	0.00	0.00	1.65		10.35	18.92	83.84	86.68	03-Aug-15 22:00:00		11.11	18.92	83.84	88.33
03-Aug-15 23:00:00	04-Aug-15 00:00:00		1.10	0.00	0.00	5.21	2.1	329.7		0.36	0.00	0.00	1.72		10.35	18.92	83.84	86.68	03-Aug-15 23:00:00		10.71	18.92	83.84	88.40
04-Aug-15 00:00:00	04-Aug-15 01:00:00		2.32	0.00	0.00	5.41	2.1	329.7		0.77	0.00	0.00	1.78		10.35	18.92	83.84	86.68	04-Aug-15 00:00:00		11.12	18.92	83.84	88.46
04-Aug-15 01:00:00	04-Aug-15 02:00:00		19.77	0.00	0.00	5.59	2.1	329.7		6.52	0.00	0.00	1.84		10.35	18.92	83.84	86.68	04-Aug-15 01:00:00		16.87	18.92	83.84	88.52
04-Aug-15 02:00:00	04-Aug-15 03:00:00		29.69	0.00	0.00	5.47	2.1	329.7		9.79	0.00	0.00	1.80		10.35	18.92	83.84	86.68	04-Aug-15 02:00:00		20.14	18.92	83.84	88.48
04-Aug-15 03:00:00	04-Aug-15 04:00:00		20.64	0.00	0.00	5.43	2.1	329.7		6.81	0.00	0.00	1.79		10.35	18.92	83.84	86.68	04-Aug-15 03:00:00		17.16	18.92	83.84	88.47
04-Aug-15 04:00:00	04-Aug-15 05:00:00		29.35	0.00	0.00	5.38	2.1	329.7		9.68	0.00	0.00	1.77		10.35	18.92	83.84	86.68	04-Aug-15 04:00:00		20.03	18.92	83.84	88.45
04-Aug-15 05:00:00	04-Aug-15 06:00:00		11.26	0.00	0.00	5.33	2.1	329.7		3.71	0.00	0.00	1.76		10.35	18.92	83.84	86.68	04-Aug-15 05:00:00		14.06	18.92	83.84	88.44
04-Aug-15 06:00:00	04-Aug-15 07:00:00		1.23	0.00	0.00	5.26	2.1	329.7		0.41	0.00	0.00	1.73		10.35	18.92	83.84	86.68	04-Aug-15 06:00:00		10.76	18.92	83.84	88.41
04-Aug-15 07:00:00	04-Aug-15 08:00:00		3.26	0.00	0.00	5.26	2.1	329.7		1.07	0.00	0.00	1.73		10.35	18.92	83.84	86.68	04-Aug-15 07:00:00		11.42	18.92	83.84	88.41
04-Aug-15 08:00:00	04-Aug-15 09:00:00		3.95	0.00	0.00	5.26	2.1	329.7		1.30	0.00	0.00	1.73		10.35	18.92	83.84	86.68	04-Aug-15 08:00:00		11.65	18.92	83.84	88.41
04-Aug-15 09:00:00	04-Aug-15 10:00:00		5.01	0.00	0.00	5.27	2.1	329.7		1.65	0.00	0.00	1.74		10.35	18.92	83.84	86.68	04-Aug-15 09:00:00		12.00	18.92	83.84	88.42
04-Aug-15 10:00:00	04-Aug-15 11:00:00		12.66	0.00	0.00	5.20	2.1	329.7		4.17	0.00	0.00	1.72		10.35	18.92	83.84	86.68	04-Aug-15 10:00:00		14.52	18.92	83.84	88.40
04-Aug-15 11:00:00	04-Aug-15 12:00:00		5.89	0.00	0.00	4.89	2.1	329.7		1.94	0.00	0.00	1.61		10.35	18.92	83.84	86.68	04-Aug-15 11:00:00		12.29	18.92	83.84	88.29
04-Aug-15 12:00:00	04-Aug-15 13:00:00		0.90	0.00	0.00	4.57	2.1	329.7		0.30	0.00	0.00	1.51		10.35	18.92	83.84	86.68	04-Aug-15 12:00:00		10.65	18.92	83.84	88.19
04-Aug-15 13:00:00	04-Aug-15 14:00:00		3.98	0.00	0.00	4.25	2.1	329.7		1.31	0.00	0.00	1.40		10.35	18.92	83.84	86.68	04-Aug-15 13:00:00		11.66	18.92	83.84	88.08
04-Aug-15 14:00:00	04-Aug-15 15:00:00		1.18	0.00	0.00	4.09	2.1	329.7		0.39	0.00	0.00	1.35		10.35	18.92	83.84	86.68	04-Aug-15 14:00:00		10.74	18.92	83.84	88.03
04-Aug-15 15:00:00	04-Aug-15 16:00:00		6.98	0.00	0.00	3.93	2.1	329.7		2.30	0.00	0.00	1.30		10.35	18.92	83.84	86.68	04-Aug-15 15:00:00		12.65	18.92	83.84	87.98
04-Aug-15 16:00:00	04-Aug-15 17:00:00		0.68	0.00	0.00	3.77	2.1	329.7		0.22	0.00	0.00	1.24		10.35	18.92	83.84	86.68	04-Aug-15 16:00:00		10.57	18.92	83.84	87.92
04-Aug-15 17:00:00	04-Aug-15 18:00:00		4.59	0.00	0.00	3.61	2.1	329.7		1.51	0.00	0.00	1.19		10.35	18.92	83.84	86.68	04-Aug-15 17:00:00		11.86	18.92	83.84	87.87
04-Aug-15 18:00:00	04-Aug-15 19:00:00		1.22	0.00	0.00	3.67	2.1	329.7		0.40	0.00	0.00	1.21		10.35	18.92	83.84	86.68	04-Aug-15 18:00:00		10.75	18.92	83.84	87.89
04-Aug-15 19:00:00	04-Aug-15 20:00:00		1.31	0.00	0.00	3.93	2.1	329.7		0.43	0.00	0.00	1.29		10.35	18.92	83.84	86.68	04-Aug-15 19:00:00		10.78	18.92	83.84	87.97
04-Aug-15 20:00:00	04-Aug-15 21:00:00		11.59	0.00	0.00	4.18	2.1	329.7		3.82	0.00	0.00	1.38		10.35	18.92	83.84	86.68	04-Aug-15 20:00:00		14.17	18.92	83.84	88.06
04-Aug-15 21:00:00	04-Aug-15 22:00:00		9.16	0.00	0.00	4.44	2.1	329.7		3.02	0.00	0.00	1.47		10.35	18.92	83.84	86.68	04-Aug-15 21:00:00		13.37	18.92	83.84	88.15
04-Aug-15 22:00:00	04-Aug-15 23:00:00		4.58	0.00	0.00	4.70	2.1	329.7		1.51	0.00	0.00	1.55		10.35	18.92	83.84	86.68	04-Aug-15 22:00:00		11.86	18.92	83.84	88.23
04-Aug-15 23:00:00	05-Aug-15 00:00:00		1.82	0.00	0.00	4.88	2.1	329.7		0.60	0.00	0.00	1.61		10.35	18.92	83.84	86.68	04-Aug-15 23:00:00		10.95	18.92	83.84	88.29
05-Aug-15 00:00:00	05-Aug-15 01:00:00		4.29	0.00	0.00	5.05	2.1	329.7		1.41	0.00	0.00	1.67		10.35	18.92	83.84	86.68	05-Aug-15 00:00:00		11.76	18.92	83.84	88.35
05-Aug-15 01:00:00	05-Aug-15 02:00:00		2.86	0.00	0.00	5.23	2.1	329.7		0.94	0.00	0.00	1.72		10.35	18.92	83.84	86.68	05-Aug-15 01:00:00		11.29	18.92	83.84	88.40
05-Aug-15 02:00:00	05-Aug-15 03:00:00		2.70	0.00	0.00	5.26	2.1	329.7		0.89	0.00	0.00	1.73		10.35	18.92	83.84	86.68	05-Aug-15 02:00:00		11.24	18.92	83.84	88.41
05-Aug-15 03:00:00	05-Aug-15 04:00:00		2.88	0.00	0.00	5.26	2.1	329.7		0.95	0.00	0.00	1.73		10.35	18.92	83.84	86.68	05-Aug-15 03:00:00		11.30	18.92	83.84	88.41
05-Aug-15 04:00:00	05-Aug-15 05:00:00		5.22	0.00	0.00	5.26	2.1	329.7		1.72	0.00	0.00	1.74		10.35	18.92	83.84	86.68	05-Aug-15 04:00:00		12.07	18.92	83.84	88.42
05-Aug-15 05:00:00	05-Aug-15 06:00:00		3.60	0.00	0.00	5.26	2.1	329.7		1.19	0.00	0.00	1.74		10.35	18.92	83.84	86.68	05-Aug-15 05:00:00		11.54	18.92	83.84	88.42
05-Aug-15 06:00:00	05-Aug-15 07:00:00		16.95	0.00	0.00	5.20	2.1	329.7		5.59	0.00	0.00	1.72		10.35	18.92	83.84	86.68	05-Aug-15 06:00:00		15.94	18.92	83.84	88.40
05-Aug-15 07:00:00	05-Aug-15 08:00:00		26.49	0.00	0.00	5.08	2.1	329.7		8.73	0.00	0.00	1.68		10.35	18.92	83.84	86.68	05-Aug-15 07:00:00		19.08	18.92	83.84	88.36
05-Aug-15 08:00:00	05-Aug-15 09:00:00		13.62	0.00	0.00	4.96	2.1	329.7		4.49	0.00	0.00	1.64		10.35	18.92	83.84	86.68	05-Aug-15 08:00:00		14.84	18.92	83.84	88.32
05-Aug-15 09:00:00	05-Aug-15 10:00:00		7.91	0.00	0.00	4.84	2.1	329.7		2.61	0.00	0.00	1.60		10.35	18.92	83.84	86.68	05-Aug-15 09:00:00		12.96	18.92	83.84	88.28
05-Aug-15 10:00:00	05-Aug-15 11:00:00		15.34	0.00	0.00	4.59	2.1	329.7		5.06	0.00	0.00	1.51		10.35	18.92	83.84	86.68	05-Aug-15 10:00:00		15.41	18.92	83.84	88.19
05-Aug-15 11:00:00	05-Aug-15 12:00:00		0.38	0.00	0.00	4.48	2.1	329.7		0.13	0.00	0.00	1.48		10.35	18.92	83.84	86.68	05-Aug-15 11:00:00		10.48	18.92	83.84	88.16
05-Aug-15 12:00:00	05-Aug-15 13:00:00		0.59	0.00	0.00	4.37	2.1	329.7		0.19	0.00	0.00	1.44		10.35	18.92	83.84	86.68	05-Aug-15 12:00:00		10.54	18.92	83.84	88.12
05-Aug-15 13:00:00	05-Aug-15 14:00:00		2.04	0.00	0.00	4.26	2.1	329.7		0.67	0.00	0.00	1.40		10.35	18.92	83.84	86.68	05-Aug-15 13:00:00		11.02	18.92	83.84	88.08
05-Aug-15 14:00:00	05-Aug-15 15:00:00		1.40	0.00	0.00	4.08	2.1	329.7		0.46	0.00	0.00	1.34		10.35	18.92	83.84	86.68	05-Aug-15 14:00:00		10.81	18.92	83.84	88.02
05-Aug-15 15:00:00	05-Aug-15 16:00:00		0.26	0.00	0.00	4.07	2.1	329.7		0.08	0.00	0.00	1.34		10.35	18.92	83.84	86.68	05-Aug-15 15:00:00		10.43	18.92	83.84	88.02
05-Aug-15 16:00:00	05-Aug-15 17:00:00		7.93	0.00	0.00	4.06	2.1	329.7		2.61	0.00	0.00	1.34		10.35	18.92	83.84	86.68	05-Aug-15 16:00:00		12.96	18.92	83.84	88.02
05-Aug-15 17:00:00	05-Aug-15 18:00:00		296.33	0.00	0.00	4.06	2.1	329.7		97.70	0.00	0.00	1.34		10.35	18.92	83.84	86.68	05-Aug-15 17:00:00		108.05	18.92	83.84	88.02
05-Aug-15 18:00:00	05-Aug-15 19:00:00		329.77	0.00	0.00	4.17	2.1	329.7		108.72	0.00	0.00	1.37		10.35	18.92	83.84	86.68	05-Aug-15 18:00:00		119.07	18.92	83.84	88.05
05-Aug-15 19:00:00	05-Aug-15 20:00:00		370.48	0.00	0.00	4.34	2.1	329.7		122.15	0.00	0.00	1.43		10.35	18.92	83.84	86.68	05-Aug-15 19:00:00		132.50	18.92	83.84	88.11
05-Aug-15 20:00:00	05-Aug-15 21:00:00		770.96	0.00	0.00	4.52	2.1	329.7		254.19	0.00	0.00	1.49		10.35	18.92	83.84	86.68	05-Aug-15 20:00:00		264.54	18.92	83.84	88.17
05-Aug-15 21:00:00	05-Aug-15 22:00:00		801.78	0.00	0.00	4.69	2.1	329.7		264.35	0.00	0.00	1.55		10.35	18.92	83.84	86.68	05-Aug-15 21:00:00		274.70	18.92	83.84	88.23
05-Aug-15 22:00:00	05-Aug-15 23:00:00		796.44	0.00	0.00	4.77	2.1	329.7		262.59	0.00	0.00	1.57		10.35	18.92	83.84	86.68	05-Aug-15 22:00:00		272.94	18.92	83.84	88.25
05-Aug-15 23:00:00	06-Aug-15 00:00:00		706.21	0.00	0.00	4.88	2.1	329.7		232.84	0.00	0.00	1.61		10.35	18.92	83.84	86.68	05-Aug-15 23:00:00		243.19	18.92	83.84	88.29
06-Aug-15 00:00:00	06-Aug-15 01:00:00		548.93	0.00	0.00	4.99	2.1	329.7		180.98	0.00	0.00	1.65		10.35	18.92	83.84	86.68	06-Aug-15 00:00:00		191.33	18.92	83.84	88.33
06-Aug-15 01:00:00	06-Aug-15 02:00:00		419.75	0.00	0.00	5.10	2.1	329.7		138.39	0.00	0.00	1.68		10.35	18.92	83.84	86.68	06-Aug-15 01:00:00		148.74	18.92	83.84	88.36
06-Aug-15 02:00:00	06-Aug-15 03:00:00		178.49	0.00	0.00	5.24	2.1	329.7		58.85	0.00	0.00	1.73		10.35	18.92	83.84	86.68	06-Aug-15 02:00:00		69.20	18.92	83.84	88.41
06-Aug-15 03:00:00	06-Aug-15 04:00:00		5.76	0.00	0.00	5.30	2.1	329.7		1.90	0.00	0.00	1.75		10.35	18.92	83.84	86.68	06-Aug-15 03:00:00		12.25	18.92	83.84	88.43
06-Aug-15 04:00:00	06-Aug-15 05:00:00		13.37	0.00	0.00	5.35	2.1	329.7		4.41	0.00	0.00	1.77		10.35	18.92	83.84	86.68	06-Aug-15 04:00:00		14.76	18.92	83.84	88.45
06-Aug-15 05:00:00	06-Aug-15 06:00:00		8.10	0.00	0.00	5.41	2.1	329.7		2.67	0.00	0.00	1.78		10.35	18.92	83.84	86.68	06-Aug-15 05:00:00		13.02	18.92	83.84	88.46
06-Aug-15 06:00:00	06-Aug-15 07:00:00		5.76	0.00	0.00	5.42	2.1	329.7		1.90	0.00	0.00	1.79		10.35	18.92	83.84	86.68	06-Aug-15 06:00:00		12.25	18.92	83.84	88.47
06-Aug-15 07:00:00	06-Aug-15 08:00:00		8.08	0.00	0.00	5.26	2.1	329.7		2.66	0.00	0.00	1.73		10.35	18.92	83.84	86.68	06-Aug-15 07:00:00		13.01	18.92	83.84	88.41
06-Aug-15 08:00:00	06-Aug-15 09:00:00		16.33	0.00	0.00	5.11	2.1	329.7		5.38	0.00	0.00	1.68		10.35	18.92	83.84	86.68	06-Aug-15 08:00:00		15.73	18.92	83.84	88.36
06-Aug-15 09:00:00	06-Aug-15 10:00:00		18.70	0.00	0.00	4.95	2.1	329.7		6.17	0.00	0.00	1.63		10.35	18.92	83.84	86.68	06-Aug-15 09:00:00		16.52	18.92	83.84	88.31
06-Aug-15 10:00:00	06-Aug-15 11:00:00		15.55	0.00	0.00	4.99	2.1	329.7		5.13	0.00	0.00	1.65		10.35	18.92	83.84	86.68	06-Aug-15 10:00:00		15.48	18.92	83.84	88.33
06-Aug-15 11:00:00	06-Aug-15 12:00:00		4.71	0.00	0.00	4.92	2.1	329.7		1.55	0.00	0.00	1.62		10.35	18.92	83.84	86.68	06-Aug-15 11:00:00		11.90	18.92	83.84	88.30
06-Aug-15 12:00:00	06-Aug-15 13:00:00		1.13	0.00	0.00	4.84	2.1	329.7		0.37	0.00	0.00	1.59		10.35	18.92	83.84	86.68	06-Aug-15 12:00:00		10.72	18.92	83.84	88.27
06-Aug-15 13:00:00	06-Aug-15 14:00:00		0.00	0.00	0.00	4.76	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	06-Aug-15 13:00:00		10.35	18.92	83.84	88.25
06-Aug-15 14:00:00	06-Aug-15 15:00:00		0.00	0.00	0.00	4.72	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	06-Aug-15 14:00:00		10.35	18.92	83.84	88.24
06-Aug-15 15:00:00	06-Aug-15 16:00:00		0.00	0.00	0.00	4.78	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	06-Aug-15 15:00:00		10.35	18.92	83.84	88.26
06-Aug-15 16:00:00	06-Aug-15 17:00:00		0.00	0.00	0.00	4.84	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	06-Aug-15 16:00:00		10.35	18.92	83.84	88.28
06-Aug-15 17:00:00	06-Aug-15 18:00:00		0.00	0.00	0.00	4.90	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	06-Aug-15 17:00:00		10.35	18.92	83.84	88.30
06-Aug-15 18:00:00	06-Aug-15 19:00:00		0.00	0.00	0.00	5.18	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	06-Aug-15 18:00:00		10.35	18.92	83.84	88.39
06-Aug-15 19:00:00	06-Aug-15 20:00:00		12.43	0.00	0.00	5.28	2.1	329.7		4.10	0.00	0.00	1.74		10.35	18.92	83.84	86.68	06-Aug-15 19:00:00		14.45	18.92	83.84	88.42
06-Aug-15 20:00:00	06-Aug-15 21:00:00		2.67	0.00	0.00	5.37	2.1	329.7		0.88	0.00	0.00	1.77		10.35	18.92	83.84	86.68	06-Aug-15 20:00:00		11.23	18.92	83.84	88.45
06-Aug-15 21:00:00	06-Aug-15 22:00:00		0.56	0.00	0.00	5.47	2.1	329.7		0.19	0.00	0.00	1.80		10.35	18.92	83.84	86.68	06-Aug-15 21:00:00		10.54	18.92	83.84	88.48
06-Aug-15 22:00:00	06-Aug-15 23:00:00		0.80	0.00	0.00	5.40	2.1	329.7		0.26	0.00	0.00	1.78		10.35	18.92	83.84	86.68	06-Aug-15 22:00:00		10.61	18.92	83.84	88.46
06-Aug-15 23:00:00	07-Aug-15 00:00:00		5.47	0.00	0.00	5.41	2.1	329.7		1.80	0.00	0.00	1.78		10.35	18.92	83.84	86.68	06-Aug-15 23:00:00		12.15	18.92	83.84	88.46
07-Aug-15 00:00:00	07-Aug-15 01:00:00		13.40	0.00	0.00	5.43	2.1	329.7		4.42	0.00	0.00	1.79		10.35	18.92	83.84	86.68	07-Aug-15 00:00:00		14.77	18.92	83.84	88.47
07-Aug-15 01:00:00	07-Aug-15 02:00:00		14.10	0.00	0.00	5.45	2.1	329.7		4.65	0.00	0.00	1.80		10.35	18.92	83.84	86.68	07-Aug-15 01:00:00		15.00	18.92	83.84	88.48
07-Aug-15 02:00:00	07-Aug-15 03:00:00		12.97	0.00	0.00	5.33	2.1	329.7		4.28	0.00	0.00	1.76		10.35	18.92	83.84	86.68	07-Aug-15 02:00:00		14.63	18.92	83.84	88.44
07-Aug-15 03:00:00	07-Aug-15 04:00:00		14.27	0.00	0.00	5.32	2.1	329.7		4.70	0.00	0.00	1.75		10.35	18.92	83.84	86.68	07-Aug-15 03:00:00		15.05	18.92	83.84	88.43
07-Aug-15 04:00:00	07-Aug-15 05:00:00		16.24	0.00	0.00	5.32	2.1	329.7		5.36	0.00	0.00	1.75		10.35	18.92	83.84	86.68	07-Aug-15 04:00:00		15.71	18.92	83.84	88.43
07-Aug-15 05:00:00	07-Aug-15 06:00:00		8.66	0.00	0.00	5.31

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
09-Aug-15 03:00:00	09-Aug-15 04:00:00		3.70	0.00	0.00	5.52	2.1	329.7		1.22	0.00	0.00	1.82		10.35	18.92	83.84	86.68	09-Aug-15 03:00:00		11.57	18.92	83.84	88.50
09-Aug-15 04:00:00	09-Aug-15 05:00:00		1.82	0.00	0.00	5.64	2.1	329.7		0.60	0.00	0.00	1.86		10.35	18.92	83.84	86.68	09-Aug-15 04:00:00		10.95	18.92	83.84	88.54
09-Aug-15 05:00:00	09-Aug-15 06:00:00		9.76	0.00	0.00	5.75	2.1	329.7		3.22	0.00	0.00	1.90		10.35	18.92	83.84	86.68	09-Aug-15 05:00:00		13.57	18.92	83.84	88.58
09-Aug-15 06:00:00	09-Aug-15 07:00:00		16.03	0.00	0.00	5.76	2.1	329.7		5.29	0.00	0.00	1.90		10.35	18.92	83.84	86.68	09-Aug-15 06:00:00		15.64	18.92	83.84	88.58
09-Aug-15 07:00:00	09-Aug-15 08:00:00		11.17	0.00	0.00	5.77	2.1	329.7		3.68	0.00	0.00	1.90		10.35	18.92	83.84	86.68	09-Aug-15 07:00:00		14.03	18.92	83.84	88.58
09-Aug-15 08:00:00	09-Aug-15 09:00:00		15.61	0.00	0.00	5.77	2.1	329.7		5.15	0.00	0.00	1.90		10.35	18.92	83.84	86.68	09-Aug-15 08:00:00		15.50	18.92	83.84	88.58
09-Aug-15 09:00:00	09-Aug-15 10:00:00		19.41	0.00	0.00	5.55	2.1	329.7		6.40	0.00	0.00	1.83		10.35	18.92	83.84	86.68	09-Aug-15 09:00:00		16.75	18.92	83.84	88.51
09-Aug-15 10:00:00	09-Aug-15 11:00:00		18.28	0.00	0.00	5.22	2.1	329.7		6.03	0.00	0.00	1.72		10.35	18.92	83.84	86.68	09-Aug-15 10:00:00		16.38	18.92	83.84	88.40
09-Aug-15 11:00:00	09-Aug-15 12:00:00		4.94	0.00	0.00	4.90	2.1	329.7		1.63	0.00	0.00	1.62		10.35	18.92	83.84	86.68	09-Aug-15 11:00:00		11.98	18.92	83.84	88.30
09-Aug-15 12:00:00	09-Aug-15 13:00:00		9.31	0.00	0.00	4.65	2.1	329.7		3.07	0.00	0.00	1.53		10.35	18.92	83.84	86.68	09-Aug-15 12:00:00		13.42	18.92	83.84	88.21
09-Aug-15 13:00:00	09-Aug-15 14:00:00		10.71	0.00	0.00	4.63	2.1	329.7		3.53	0.00	0.00	1.53		10.35	18.92	83.84	86.68	09-Aug-15 13:00:00		13.88	18.92	83.84	88.21
09-Aug-15 14:00:00	09-Aug-15 15:00:00		4.78	0.00	0.00	4.57	2.1	329.7		1.58	0.00	0.00	1.51		10.35	18.92	83.84	86.68	09-Aug-15 14:00:00		11.93	18.92	83.84	88.19
09-Aug-15 15:00:00	09-Aug-15 16:00:00		0.00	0.00	0.00	4.52	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	09-Aug-15 15:00:00		10.35	18.92	83.84	88.17
09-Aug-15 16:00:00	09-Aug-15 17:00:00		0.00	0.00	0.00	4.43	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	09-Aug-15 16:00:00		10.35	18.92	83.84	88.14
09-Aug-15 17:00:00	09-Aug-15 18:00:00		0.00	0.00	0.00	4.33	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	09-Aug-15 17:00:00		10.35	18.92	83.84	88.11
09-Aug-15 18:00:00	09-Aug-15 19:00:00		0.00	0.00	0.00	4.30	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	09-Aug-15 18:00:00		10.35	18.92	83.84	88.10
09-Aug-15 19:00:00	09-Aug-15 20:00:00		0.00	0.00	0.00	4.27	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	09-Aug-15 19:00:00		10.35	18.92	83.84	88.09
09-Aug-15 20:00:00	09-Aug-15 21:00:00		0.00	0.00	0.00	4.25	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	09-Aug-15 20:00:00		10.35	18.92	83.84	88.08
09-Aug-15 21:00:00	09-Aug-15 22:00:00		0.00	0.00	0.00	4.38	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	09-Aug-15 21:00:00		10.35	18.92	83.84	88.13
09-Aug-15 22:00:00	09-Aug-15 23:00:00		0.00	0.00	0.00	4.56	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	09-Aug-15 22:00:00		10.35	18.92	83.84	88.18
09-Aug-15 23:00:00	10-Aug-15 00:00:00		0.00	0.00	0.00	66.95	2.1	329.7		0.00	0.00	0.00	22.07		10.35	18.92	83.84	86.68	09-Aug-15 23:00:00		10.35	18.92	83.84	108.75
10-Aug-15 00:00:00	10-Aug-15 01:00:00		1.64	0.00	0.00	4.86	2.1	329.7		0.54	0.00	0.00	1.60		10.35	18.92	83.84	86.68	10-Aug-15 00:00:00		10.89	18.92	83.84	88.28
10-Aug-15 01:00:00	10-Aug-15 02:00:00		7.85	0.00	0.00	5.00	2.1	329.7		2.59	0.00	0.00	1.65		10.35	18.92	83.84	86.68	10-Aug-15 01:00:00		12.94	18.92	83.84	88.33
10-Aug-15 02:00:00	10-Aug-15 03:00:00		1.85	0.00	0.00	5.38	2.1	329.7		0.61	0.00	0.00	1.78		10.35	18.92	83.84	86.68	10-Aug-15 02:00:00		10.96	18.92	83.84	88.46
10-Aug-15 03:00:00	10-Aug-15 04:00:00		3.11	0.00	0.00	5.16	2.1	329.7		1.02	0.00	0.00	1.70		10.35	18.92	83.84	86.68	10-Aug-15 03:00:00		11.37	18.92	83.84	88.38
10-Aug-15 04:00:00	10-Aug-15 05:00:00		6.51	0.00	0.00	5.24	2.1	329.7		2.15	0.00	0.00	1.73		10.35	18.92	83.84	86.68	10-Aug-15 04:00:00		12.50	18.92	83.84	88.41
10-Aug-15 05:00:00	10-Aug-15 06:00:00		3.86	0.00	0.00	5.32	2.1	329.7		1.27	0.00	0.00	1.75		10.35	18.92	83.84	86.68	10-Aug-15 05:00:00		11.62	18.92	83.84	88.43
10-Aug-15 06:00:00	10-Aug-15 07:00:00		14.01	0.00	0.00	5.36	2.1	329.7		4.62	0.00	0.00	1.77		10.35	18.92	83.84	86.68	10-Aug-15 06:00:00		14.97	18.92	83.84	88.45
10-Aug-15 07:00:00	10-Aug-15 08:00:00		7.90	0.00	0.00	5.27	2.1	329.7		2.60	0.00	0.00	1.74		10.35	18.92	83.84	86.68	10-Aug-15 07:00:00		12.95	18.92	83.84	88.42
10-Aug-15 08:00:00	10-Aug-15 09:00:00		4.62	0.00	0.00	5.17	2.1	329.7		1.52	0.00	0.00	1.70		10.35	18.92	83.84	86.68	10-Aug-15 08:00:00		11.87	18.92	83.84	88.38
10-Aug-15 09:00:00	10-Aug-15 10:00:00		3.69	0.00	0.00	5.57	2.1	329.7		1.22	0.00	0.00	1.84		10.35	18.92	83.84	86.68	10-Aug-15 09:00:00		11.57	18.92	83.84	88.52
10-Aug-15 10:00:00	10-Aug-15 11:00:00		3.20	0.00	0.00	4.84	2.1	329.7		1.06	0.00	0.00	1.60		10.35	18.92	83.84	86.68	10-Aug-15 10:00:00		11.41	18.92	83.84	88.28
10-Aug-15 11:00:00	10-Aug-15 12:00:00		4.33	0.00	0.00	4.65	2.1	329.7		1.43	0.00	0.00	1.53		10.35	18.92	83.84	86.68	10-Aug-15 11:00:00		11.78	18.92	83.84	88.21
10-Aug-15 12:00:00	10-Aug-15 13:00:00		1.27	0.00	0.00	4.46	2.1	329.7		0.42	0.00	0.00	1.47		10.35	18.92	83.84	86.68	10-Aug-15 12:00:00		10.77	18.92	83.84	88.15
10-Aug-15 13:00:00	10-Aug-15 14:00:00		0.48	0.00	0.00	4.31	2.1	329.7		0.16	0.00	0.00	1.42		10.35	18.92	83.84	86.68	10-Aug-15 13:00:00		10.51	18.92	83.84	88.10
10-Aug-15 14:00:00	10-Aug-15 15:00:00		0.00	0.00	0.00	4.38	2.1	329.7		0.00	0.00	0.00	1.44		10.35	18.92	83.84	86.68	10-Aug-15 14:00:00		10.35	18.92	83.84	88.12
10-Aug-15 15:00:00	10-Aug-15 16:00:00		0.00	0.00	0.00	4.31	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	10-Aug-15 15:00:00		10.35	18.92	83.84	88.10
10-Aug-15 16:00:00	10-Aug-15 17:00:00		0.00	0.00	0.00	12.22	2.1	329.7		0.00	0.00	0.00	4.03		10.35	18.92	83.84	86.68	10-Aug-15 16:00:00		10.35	18.92	83.84	90.71
10-Aug-15 17:00:00	10-Aug-15 18:00:00		0.00	0.00	0.00	4.50	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	10-Aug-15 17:00:00		10.35	18.92	83.84	88.16
10-Aug-15 18:00:00	10-Aug-15 19:00:00		0.00	0.00	0.00	4.21	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	10-Aug-15 18:00:00		10.35	18.92	83.84	88.07
10-Aug-15 19:00:00	10-Aug-15 20:00:00		0.00	0.00	0.00	4.26	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	10-Aug-15 19:00:00		10.35	18.92	83.84	88.08
10-Aug-15 20:00:00	10-Aug-15 21:00:00		0.00	0.00	0.00	81.77	2.1	329.7		0.00	0.00	0.00	26.96		10.35	18.92	83.84	86.68	10-Aug-15 20:00:00		10.35	18.92	83.84	113.64
10-Aug-15 21:00:00	10-Aug-15 22:00:00		0.09	0.00	0.00	24.02	2.1	329.7		0.03	0.00	0.00	7.92		10.35	18.92	83.84	86.68	10-Aug-15 21:00:00		10.38	18.92	83.84	94.60
10-Aug-15 22:00:00	10-Aug-15 23:00:00		0.71	0.00	0.00	4.45	2.1	329.7		0.23	0.00	0.00	1.47		10.35	18.92	83.84	86.68	10-Aug-15 22:00:00		10.58	18.92	83.84	88.15
10-Aug-15 23:00:00	11-Aug-15 00:00:00		1.41	0.00	0.00	4.61	2.1	329.7		0.47	0.00	0.00	1.52		10.35	18.92	83.84	86.68	10-Aug-15 23:00:00		10.82	18.92	83.84	88.20
11-Aug-15 00:00:00	11-Aug-15 01:00:00		2.11	0.00	0.00	4.76	2.1	329.7		0.70	0.00	0.00	1.57		10.35	18.92	83.84	86.68	11-Aug-15 00:00:00		11.05	18.92	83.84	88.25
11-Aug-15 01:00:00	11-Aug-15 02:00:00		2.57	0.00	0.00	4.96	2.1	329.7		0.85	0.00	0.00	1.63		10.35	18.92	83.84	86.68	11-Aug-15 01:00:00		11.20	18.92	83.84	88.31
11-Aug-15 02:00:00	11-Aug-15 03:00:00		7.00	0.00	0.00	5.05	2.1	329.7		2.31	0.00	0.00	1.67		10.35	18.92	83.84	86.68	11-Aug-15 02:00:00		12.66	18.92	83.84	88.35
11-Aug-15 03:00:00	11-Aug-15 04:00:00		2.72	0.00	0.00	5.07	2.1	329.7		0.90	0.00	0.00	1.67		10.35	18.92	83.84	86.68	11-Aug-15 03:00:00		11.25	18.92	83.84	88.35
11-Aug-15 04:00:00	11-Aug-15 05:00:00		0.00	0.00	0.00	5.09	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	11-Aug-15 04:00:00		10.35	18.92	83.84	88.36
11-Aug-15 05:00:00	11-Aug-15 06:00:00		0.49	0.00	0.00	5.07	2.1	329.7		0.16	0.00	0.00	1.67		10.35	18.92	83.84	86.68	11-Aug-15 05:00:00		10.51	18.92	83.84	88.35
11-Aug-15 06:00:00	11-Aug-15 07:00:00		0.36	0.00	0.00	5.06	2.1	329.7		0.12	0.00	0.00	1.67		10.35	18.92	83.84	86.68	11-Aug-15 06:00:00		10.47	18.92	83.84	88.35
11-Aug-15 07:00:00	11-Aug-15 08:00:00		2.40	0.00	0.00	5.11	2.1	329.7		0.79	0.00	0.00	1.68		10.35	18.92	83.84	86.68	11-Aug-15 07:00:00		11.14	18.92	83.84	88.36
11-Aug-15 08:00:00	11-Aug-15 09:00:00		9.71	0.00	0.00	5.15	2.1	329.7		3.20	0.00	0.00	1.70		10.35	18.92	83.84	86.68	11-Aug-15 08:00:00		13.55	18.92	83.84	88.38
11-Aug-15 09:00:00	11-Aug-15 10:00:00		3.60	0.00	0.00	5.19	2.1	329.7		1.19	0.00	0.00	1.71		10.35	18.92	83.84	86.68	11-Aug-15 09:00:00		11.54	18.92	83.84	88.39
11-Aug-15 10:00:00	11-Aug-15 11:00:00		3.34	0.00	0.00	5.08	2.1	329.7		1.10	0.00	0.00	1.67		10.35	18.92	83.84	86.68	11-Aug-15 10:00:00		11.45	18.92	83.84	88.35
11-Aug-15 11:00:00	11-Aug-15 12:00:00		3.28	0.00	0.00	4.94	2.1	329.7		1.08	0.00	0.00	1.63		10.35	18.92	83.84	86.68	11-Aug-15 11:00:00		11.43	18.92	83.84	88.31
11-Aug-15 12:00:00	11-Aug-15 13:00:00		3.81	0.00	0.00	4.80	2.1	329.7		1.25	0.00	0.00	1.58		10.35	18.92	83.84	86.68	11-Aug-15 12:00:00		11.60	18.92	83.84	88.26
11-Aug-15 13:00:00	11-Aug-15 14:00:00		4.71	0.00	0.00	4.63	2.1	329.7		1.55	0.00	0.00	1.53		10.35	18.92	83.84	86.68	11-Aug-15 13:00:00		11.90	18.92	83.84	88.21
11-Aug-15 14:00:00	11-Aug-15 15:00:00		1.77	0.00	0.00	13.68	2.1	329.7		0.58	0.00	0.00	4.51		10.35	18.92	83.84	86.68	11-Aug-15 14:00:00		10.93	18.92	83.84	91.19
11-Aug-15 15:00:00	11-Aug-15 16:00:00		2.19	0.00	0.00	107.00	2.1	329.7		0.72	0.00	0.00	35.28		10.35	18.92	83.84	86.68	11-Aug-15 15:00:00		11.07	18.92	83.84	121.96
11-Aug-15 16:00:00	11-Aug-15 17:00:00		2.74	0.00	0.00	4.29	2.1	329.7		0.90	0.00	0.00	1.41		10.35	18.92	83.84	86.68	11-Aug-15 16:00:00		11.25	18.92	83.84	88.09
11-Aug-15 17:00:00	11-Aug-15 18:00:00		4.83	0.00	0.00	4.51	2.1	329.7		1.59	0.00	0.00	1.49		10.35	18.92	83.84	86.68	11-Aug-15 17:00:00		11.94	18.92	83.84	88.17
11-Aug-15 18:00:00	11-Aug-15 19:00:00		0.87	0.00	0.00	5.68	2.1	329.7		0.29	0.00	0.00	1.87		10.35	18.92	83.84	86.68	11-Aug-15 18:00:00		10.64	18.92	83.84	88.55
11-Aug-15 19:00:00	11-Aug-15 20:00:00		0.00	0.00	0.00	5.69	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	11-Aug-15 19:00:00		10.35	18.92	83.84	88.56
11-Aug-15 20:00:00	11-Aug-15 21:00:00		0.00	0.00	0.00	6.42	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	11-Aug-15 20:00:00		10.35	18.92	83.84	88.80
11-Aug-15 21:00:00	11-Aug-15 22:00:00		0.00	0.00	0.00	26.19	2.1	329.7		0.00	0.00	0.00	8.63		10.35	18.92	83.84	86.68	11-Aug-15 21:00:00		10.35	18.92	83.84	95.31
11-Aug-15 22:00:00	11-Aug-15 23:00:00		0.00	0.00	0.00	5.13	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	11-Aug-15 22:00:00		10.35	18.92	83.84	88.37
11-Aug-15 23:00:00	12-Aug-15 00:00:00		1.96	0.00	0.00	5.37	2.1	329.7		0.65	0.00	0.00	1.77		10.35	18.92	83.84	86.68	11-Aug-15 23:00:00		11.00	18.92	83.84	88.45
12-Aug-15 00:00:00	12-Aug-15 01:00:00		11.22	0.00	0.00	5.61	2.1	329.7		3.70	0.00	0.00	1.85		10.35	18.92	83.84	86.68	12-Aug-15 00:00:00		14.05	18.92	83.84	88.53
12-Aug-15 01:00:00	12-Aug-15 02:00:00		0.96	0.00	0.00	19.25	2.1	329.7		0.32	0.00	0.00	6.35		10.35	18.92	83.84	86.68	12-Aug-15 01:00:00		10.67	18.92	83.84	93.03
12-Aug-15 02:00:00	12-Aug-15 03:00:00		1.16	0.00	0.00	5.79	2.1	329.7		0.38	0.00	0.00	1.91		10.35	18.92	83.84	86.68	12-Aug-15 02:00:00		10.73	18.92	83.84	88.59
12-Aug-15 03:00:00	12-Aug-15 04:00:00		1.99	0.00	0.00	5.71	2.1	329.7		0.66	0.00	0.00	1.88		10.35	18.92	83.84	86.68	12-Aug-15 03:00:00		11.01	18.92	83.84	88.56
12-Aug-15 04:00:00	12-Aug-15 05:00:00		4.27	0.00	0.00	5.64	2.1	329.7		1.41	0.00	0.00	1.86		10.35	18.92	83.84	86.68	12-Aug-15 04:00:00		11.76	18.92	83.84	88.54
12-Aug-15 05:00:00	12-Aug-15 06:00:00		13.29	0.00	0.00	5.58	2.1	329.7		4.38	0.00	0.00	1.84		10.35	18.92	83.84	86.68	12-Aug-15 05:00:00		14.73	18.92	83.84	88.52
12-Aug-15 06:00:00	12-Aug-15 07:00:00		12.31	0.00	0.00	5.93	2.1	329.7		4.06	0.00	0.00	1.96		10.35	18.92	83.84	86.68	12-Aug-15 06:00:00		14.41	18.92	83.84	88.64
12-Aug-15 07:00:00	12-Aug-15 08:00:00		10.41	0.00	0.00	5.45	2.1	329.7		3.43	0.00	0.00	1.80		10.35	18.92	83.84	86.68	12-Aug-15 07:00:00		13.78	18.92	83.84	88.48
12-Aug-15 08:00:00	12-Aug-15 09:00:00		10.40	0.00	0.00	5.31	2.1	329.7		3.43	0.00	0.00	1.75		10.35	18.92	83.84	86.68	12-Aug-15 08:00:00		13.78	18.92	83.84	88.43
12-Aug-15 09:00:00	12-Aug-15 10:00:00		12.86	0.00	0.00	26.28	2.1	329.7		4.24	0.00	0.00	8.67		10.35	18.92	83.84	86.68	12-Aug-15 09:00:00		14.59	18.92	83.84	95.35
12-Aug-15 10:00:00	12-Aug-15 11:00:00		4.94	0.00	0.00	5.92	2.1	329.7		1.63	0.00	0.00	1.95		10.35	18.92	83.84	86.68	12-Aug-15 10:00:00		11.98	18.92	83.84	88.63
12-Aug-15 11:00:00	12-Aug-15 12:00:00		1.04	0.00	0.00	4.64	2.1	329.7		0.34	0.00	0.00	1.53		10.35	18.92	83.84	86.68	12-Aug-15 11:00:00		10.69	18.92	83.84	88.21
12-Aug-15 12:00:00	12-Aug-15 13:00:00		0.00	0.00	0.00	4.26	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	12-Aug-15 12:00:00		10.35	18.92	83.84	88.08
12-Aug-15 13:00:00	12-Aug-15 14:00:00		0.00	0.00	0.00	9.50	2.1	329.7		0.00	0.00	0.00	3.13		10.35	18.92	83.84	86.68	12-Aug-15 13:00:00		10.35	18.92	83.84	89.81
12-Aug-15 14:00:00	12-Aug-15 15:00:00		0.00	0.00	0.00	4.04	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	12-Aug-15 14:00:00		10.35	18.92	83.84	88.01
12-Aug-15 15:00:00	12-Aug-15 16:00:00		0.28	0.00	0.00	3.96	2.1	329.7		0.09	0.00	0.00	1.31		10.35	18.92	83.84	86.68	12-Aug-15 15:00:00		10.44	18.92	83.84	87.99
12-Aug-15 16:00:00	12-Aug-15 17:00:00		0.76	0.00	0.00	3.88	2.1	329.7		0.25	0.00	0.00	1.28		10.35	18.92	83.84	86.68	12-Aug-15 16:00:00		10.60	18.92	83.84	87.96
12-Aug-15 17:00:00	12-Aug-15 18:00:00		8.47	0.00	0.00	4.13	2.1	329.7		2.79	0.00	0.00	1.36		10.35	18.92	83.84	86.68	12-Aug-15 17:00:00		13.14	18.92	83.84	88.04
12-Aug-15 18:00:00	12-Aug-15 19:00:00		5.49	0.00	0.00	18.06	2.1	329.7		1.81	0.00	0.00	5.95		10.35	18.92	83.84	86.68	12-Aug-15 18:00:00		12.16	18.92	83.84	92.63
12-Aug-15 19:00:00	12-Aug-15 20:00:00		6.31	0.00	0.00	4.32	2.1	329.7		2.08	0.00	0.00	1.42		10.35	18.92	83.84	86.68	12-Aug-15 19:00:00		12.43	18.92	83.84	88.10
12-Aug-15 20:00:00	12-Aug-15 21:00:00		0.33	0.00	0.00	4.49	2.1	329.7		0.11	0.00	0.00	1.48		10.35	18.92	83.84	86.68	12-Aug-15 20:00:00		10.46	18.92	83.84	88.16
12-Aug-15 21:00:00	12-Aug-15 22:00:00		0.00	0.00	0.00	6.86	2.1	329.7		0.00	0.00	0.00	2.26		10.35	18.92	83.84	86.68	12-Aug-15 21:00:00		10.35	18.92	83.84	88.94
12-Aug-15 22:00:00	12-Aug-15 23:00:00		3.44	0.00	0.00	4.85	2.1	329.7		1.13	0.00	0.00	1.60		10.35	18.92	83.84	86.68	12-Aug-15 22:00:00		11.48	18.92	83.84	88.28
12-Aug-15 23:00:00	13-Aug-15 00:00:00		2.86	0.00	0.00	5.10	2.1	329.7		0.94	0.00	0.00	1.68		10.35	18.92	83.84	86.68	12-Aug-15 23:00:00		11.29	18.92	83.84	88.36
13-Aug-15 00:00:00	13-Aug-15 01:00:00		14.30	0.00	0.00	19.44

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
14-Aug-15 22:00:00	14-Aug-15 23:00:00		0.00	0.00	0.00	4.50	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	14-Aug-15 22:00:00		**10.35**	**18.92**	**83.84**	**88.16**
14-Aug-15 23:00:00	15-Aug-15 00:00:00		0.31	0.00	0.00	21.60	2.1	329.7		0.10	0.00	0.00	7.12		10.35	18.92	83.84	86.68	14-Aug-15 23:00:00		**10.45**	**18.92**	**83.84**	**93.80**
15-Aug-15 00:00:00	15-Aug-15 01:00:00		3.33	0.00	0.00	4.73	2.1	329.7		1.10	0.00	0.00	1.56		10.35	18.92	83.84	86.68	15-Aug-15 00:00:00		**11.45**	**18.92**	**83.84**	**88.24**
15-Aug-15 01:00:00	15-Aug-15 02:00:00		1.83	0.00	0.00	4.79	2.1	329.7		0.60	0.00	0.00	1.58		10.35	18.92	83.84	86.68	15-Aug-15 01:00:00		**10.95**	**18.92**	**83.84**	**88.26**
15-Aug-15 02:00:00	15-Aug-15 03:00:00		7.24	0.00	0.00	5.17	2.1	329.7		2.39	0.00	0.00	1.70		10.35	18.92	83.84	86.68	15-Aug-15 02:00:00		**12.74**	**18.92**	**83.84**	**88.38**
15-Aug-15 03:00:00	15-Aug-15 04:00:00		1.34	0.00	0.00	4.76	2.1	329.7		0.44	0.00	0.00	1.57		10.35	18.92	83.84	86.68	15-Aug-15 03:00:00		**10.79**	**18.92**	**83.84**	**88.25**
15-Aug-15 04:00:00	15-Aug-15 05:00:00		6.88	0.00	0.00	4.91	2.1	329.7		2.27	0.00	0.00	1.62		10.35	18.92	83.84	86.68	15-Aug-15 04:00:00		**12.62**	**18.92**	**83.84**	**88.30**
15-Aug-15 05:00:00	15-Aug-15 06:00:00		7.75	0.00	0.00	5.06	2.1	329.7		2.56	0.00	0.00	1.67		10.35	18.92	83.84	86.68	15-Aug-15 05:00:00		**12.91**	**18.92**	**83.84**	**88.35**
15-Aug-15 06:00:00	15-Aug-15 07:00:00		5.93	0.00	0.00	17.28	2.1	329.7		1.96	0.00	0.00	5.70		10.35	18.92	83.84	86.68	15-Aug-15 06:00:00		**12.31**	**18.92**	**83.84**	**92.38**
15-Aug-15 07:00:00	15-Aug-15 08:00:00		1.60	0.00	0.00	5.43	2.1	329.7		0.53	0.00	0.00	1.79		10.35	18.92	83.84	86.68	15-Aug-15 07:00:00		**10.88**	**18.92**	**83.84**	**88.47**
15-Aug-15 08:00:00	15-Aug-15 09:00:00		0.00	0.00	0.00	5.36	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	15-Aug-15 08:00:00		**10.35**	**18.92**	**83.84**	**88.45**
15-Aug-15 09:00:00	15-Aug-15 10:00:00		0.00	0.00	0.00	5.29	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	15-Aug-15 09:00:00		**10.35**	**18.92**	**83.84**	**88.42**
15-Aug-15 10:00:00	15-Aug-15 11:00:00		1.19	0.00	0.00	7.25	2.1	329.7		0.39	0.00	0.00	2.39		10.35	18.92	83.84	86.68	15-Aug-15 10:00:00		**10.74**	**18.92**	**83.84**	**89.07**
15-Aug-15 11:00:00	15-Aug-15 12:00:00		1.90	0.00	0.00	4.43	2.1	329.7		0.63	0.00	0.00	1.46		10.35	18.92	83.84	86.68	15-Aug-15 11:00:00		**10.98**	**18.92**	**83.84**	**88.14**
15-Aug-15 12:00:00	15-Aug-15 13:00:00		1.69	0.00	0.00	4.25	2.1	329.7		0.56	0.00	0.00	1.40		10.35	18.92	83.84	86.68	15-Aug-15 12:00:00		**10.91**	**18.92**	**83.84**	**88.08**
15-Aug-15 13:00:00	15-Aug-15 14:00:00		0.00	0.00	0.00	4.72	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	15-Aug-15 13:00:00		**10.35**	**18.92**	**83.84**	**88.24**
15-Aug-15 14:00:00	15-Aug-15 15:00:00		0.00	0.00	0.00	3.99	2.1	329.7		0.00	0.00	0.00	1.32		10.35	18.92	83.84	86.68	15-Aug-15 14:00:00		**10.35**	**18.92**	**83.84**	**88.00**
15-Aug-15 15:00:00	15-Aug-15 16:00:00		0.00	0.00	0.00	3.85	2.1	329.7		0.00	0.00	0.00	1.27		10.35	18.92	83.84	86.68	15-Aug-15 15:00:00		**10.35**	**18.92**	**83.84**	**87.95**
15-Aug-15 16:00:00	15-Aug-15 17:00:00		0.00	0.00	0.00	26.83	2.1	329.7		0.00	0.00	0.00	8.85		10.35	18.92	83.84	86.68	15-Aug-15 16:00:00		**10.35**	**18.92**	**83.84**	**95.53**
15-Aug-15 17:00:00	15-Aug-15 18:00:00		0.00	0.00	0.00	3.62	2.1	329.7		0.00	0.00	0.00	1.19		10.35	18.92	83.84	86.68	15-Aug-15 17:00:00		**10.35**	**18.92**	**83.84**	**87.87**
15-Aug-15 18:00:00	15-Aug-15 19:00:00		0.00	0.00	0.00	3.68	2.1	329.7		0.00	0.00	0.00	1.21		10.35	18.92	83.84	86.68	15-Aug-15 18:00:00		**10.35**	**18.92**	**83.84**	**87.89**
15-Aug-15 19:00:00	15-Aug-15 20:00:00		0.00	0.00	0.00	7.31	2.1	329.7		0.00	0.00	0.00	2.41		10.35	18.92	83.84	86.68	15-Aug-15 19:00:00		**10.35**	**18.92**	**83.84**	**89.09**
15-Aug-15 20:00:00	15-Aug-15 21:00:00		0.01	0.00	0.00	3.92	2.1	329.7		0.00	0.00	0.00	1.29		10.35	18.92	83.84	86.68	15-Aug-15 20:00:00		**10.35**	**18.92**	**83.84**	**87.97**
15-Aug-15 21:00:00	15-Aug-15 22:00:00		0.81	0.00	0.00	4.31	2.1	329.7		0.27	0.00	0.00	1.42		10.35	18.92	83.84	86.68	15-Aug-15 21:00:00		**10.62**	**18.92**	**83.84**	**88.10**
15-Aug-15 22:00:00	15-Aug-15 23:00:00		2.38	0.00	0.00	4.70	2.1	329.7		0.79	0.00	0.00	1.55		10.35	18.92	83.84	86.68	15-Aug-15 22:00:00		**11.14**	**18.92**	**83.84**	**88.23**
15-Aug-15 23:00:00	16-Aug-15 00:00:00		1.96	0.00	0.00	5.09	2.1	329.7		0.65	0.00	0.00	1.68		10.35	18.92	83.84	86.68	15-Aug-15 23:00:00		**11.00**	**18.92**	**83.84**	**88.36**
16-Aug-15 00:00:00	16-Aug-15 01:00:00		7.47	0.00	0.00	6.65	2.1	329.7		2.46	0.00	0.00	2.19		10.35	18.92	83.84	86.68	16-Aug-15 00:00:00		**12.81**	**18.92**	**83.84**	**88.87**
16-Aug-15 01:00:00	16-Aug-15 02:00:00		1.81	0.00	0.00	5.19	2.1	329.7		0.60	0.00	0.00	1.71		10.35	18.92	83.84	86.68	16-Aug-15 01:00:00		**10.95**	**18.92**	**83.84**	**88.39**
16-Aug-15 02:00:00	16-Aug-15 03:00:00		1.68	0.00	0.00	5.15	2.1	329.7		0.55	0.00	0.00	1.70		10.35	18.92	83.84	86.68	16-Aug-15 02:00:00		**10.90**	**18.92**	**83.84**	**88.38**
16-Aug-15 03:00:00	16-Aug-15 04:00:00		12.79	0.00	0.00	5.11	2.1	329.7		4.22	0.00	0.00	1.68		10.35	18.92	83.84	86.68	16-Aug-15 03:00:00		**14.57**	**18.92**	**83.84**	**88.36**
16-Aug-15 04:00:00	16-Aug-15 05:00:00		11.23	0.00	0.00	10.13	2.1	329.7		3.70	0.00	0.00	3.34		10.35	18.92	83.84	86.68	16-Aug-15 04:00:00		**14.05**	**18.92**	**83.84**	**90.02**
16-Aug-15 05:00:00	16-Aug-15 06:00:00		8.94	0.00	0.00	5.20	2.1	329.7		2.95	0.00	0.00	1.71		10.35	18.92	83.84	86.68	16-Aug-15 05:00:00		**13.30**	**18.92**	**83.84**	**88.39**
16-Aug-15 06:00:00	16-Aug-15 07:00:00		4.55	0.00	0.00	5.22	2.1	329.7		1.50	0.00	0.00	1.72		10.35	18.92	83.84	86.68	16-Aug-15 06:00:00		**11.85**	**18.92**	**83.84**	**88.40**
16-Aug-15 07:00:00	16-Aug-15 08:00:00		0.00	0.00	0.00	6.71	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	16-Aug-15 07:00:00		**10.35**	**18.92**	**83.84**	**88.89**
16-Aug-15 08:00:00	16-Aug-15 09:00:00		0.00	0.00	0.00	5.22	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	16-Aug-15 08:00:00		**10.35**	**18.92**	**83.84**	**88.40**
16-Aug-15 09:00:00	16-Aug-15 10:00:00		0.00	0.00	0.00	5.04	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	16-Aug-15 09:00:00		**10.35**	**18.92**	**83.84**	**88.34**
16-Aug-15 10:00:00	16-Aug-15 11:00:00		1.13	0.00	0.00	26.92	2.1	329.7		0.37	0.00	0.00	8.88		10.35	18.92	83.84	86.68	16-Aug-15 10:00:00		**10.72**	**18.92**	**83.84**	**95.56**
16-Aug-15 11:00:00	16-Aug-15 12:00:00		0.52	0.00	0.00	4.41	2.1	329.7		0.17	0.00	0.00	1.45		10.35	18.92	83.84	86.68	16-Aug-15 11:00:00		**10.52**	**18.92**	**83.84**	**88.13**
16-Aug-15 12:00:00	16-Aug-15 13:00:00		1.08	0.00	0.00	4.21	2.1	329.7		0.35	0.00	0.00	1.39		10.35	18.92	83.84	86.68	16-Aug-15 12:00:00		**10.70**	**18.92**	**83.84**	**88.07**
16-Aug-15 13:00:00	16-Aug-15 14:00:00		0.00	0.00	0.00	8.30	2.1	329.7		0.00	0.00	0.00	2.74		10.35	18.92	83.84	86.68	16-Aug-15 13:00:00		**10.35**	**18.92**	**83.84**	**89.42**
16-Aug-15 14:00:00	16-Aug-15 15:00:00		0.00	0.00	0.00	3.94	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	16-Aug-15 14:00:00		**10.35**	**18.92**	**83.84**	**87.98**
16-Aug-15 15:00:00	16-Aug-15 16:00:00		0.00	0.00	0.00	3.84	2.1	329.7		0.00	0.00	0.00	1.27		10.35	18.92	83.84	86.68	16-Aug-15 15:00:00		**10.35**	**18.92**	**83.84**	**87.95**
16-Aug-15 16:00:00	16-Aug-15 17:00:00		0.00	0.00	0.00	32.37	2.1	329.7		0.00	0.00	0.00	10.67		10.35	18.92	83.84	86.68	16-Aug-15 16:00:00		**10.35**	**18.92**	**83.84**	**97.35**
16-Aug-15 17:00:00	16-Aug-15 18:00:00		0.00	0.00	0.00	3.74	2.1	329.7		0.00	0.00	0.00	1.23		10.35	18.92	83.84	86.68	16-Aug-15 17:00:00		**10.35**	**18.92**	**83.84**	**87.91**
16-Aug-15 18:00:00	16-Aug-15 19:00:00		0.00	0.00	0.00	3.89	2.1	329.7		0.00	0.00	0.00	1.28		10.35	18.92	83.84	86.68	16-Aug-15 18:00:00		**10.35**	**18.92**	**83.84**	**87.96**
16-Aug-15 19:00:00	16-Aug-15 20:00:00		0.00	0.00	0.00	4.04	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	16-Aug-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.01**
16-Aug-15 20:00:00	16-Aug-15 21:00:00		0.00	0.00	0.00	25.50	2.1	329.7		0.00	0.00	0.00	8.41		10.35	18.92	83.84	86.68	16-Aug-15 20:00:00		**10.35**	**18.92**	**83.84**	**95.09**
16-Aug-15 21:00:00	16-Aug-15 22:00:00		0.46	0.00	0.00	4.37	2.1	329.7		0.15	0.00	0.00	1.44		10.35	18.92	83.84	86.68	16-Aug-15 21:00:00		**10.50**	**18.92**	**83.84**	**88.12**
16-Aug-15 22:00:00	16-Aug-15 23:00:00		1.20	0.00	0.00	4.56	2.1	329.7		0.40	0.00	0.00	1.50		10.35	18.92	83.84	86.68	16-Aug-15 22:00:00		**10.75**	**18.92**	**83.84**	**88.18**
16-Aug-15 23:00:00	17-Aug-15 00:00:00		2.10	0.00	0.00	6.72	2.1	329.7		0.69	0.00	0.00	2.22		10.35	18.92	83.84	86.68	16-Aug-15 23:00:00		**11.04**	**18.92**	**83.84**	**88.90**
17-Aug-15 00:00:00	17-Aug-15 01:00:00		4.44	0.00	0.00	4.75	2.1	329.7		1.46	0.00	0.00	1.57		10.35	18.92	83.84	86.68	17-Aug-15 00:00:00		**11.81**	**18.92**	**83.84**	**88.25**
17-Aug-15 01:00:00	17-Aug-15 02:00:00		5.67	0.00	0.00	4.88	2.1	329.7		1.87	0.00	0.00	1.61		10.35	18.92	83.84	86.68	17-Aug-15 01:00:00		**12.22**	**18.92**	**83.84**	**88.29**
17-Aug-15 02:00:00	17-Aug-15 03:00:00		0.83	0.00	0.00	5.02	2.1	329.7		0.28	0.00	0.00	1.65		10.35	18.92	83.84	86.68	17-Aug-15 02:00:00		**10.63**	**18.92**	**83.84**	**88.33**
17-Aug-15 03:00:00	17-Aug-15 04:00:00		0.76	0.00	0.00	18.64	2.1	329.7		0.25	0.00	0.00	6.14		10.35	18.92	83.84	86.68	17-Aug-15 03:00:00		**10.60**	**18.92**	**83.84**	**92.82**
17-Aug-15 04:00:00	17-Aug-15 05:00:00		9.02	0.00	0.00	5.24	2.1	329.7		2.97	0.00	0.00	1.73		10.35	18.92	83.84	86.68	17-Aug-15 04:00:00		**13.32**	**18.92**	**83.84**	**88.41**
17-Aug-15 05:00:00	17-Aug-15 06:00:00		6.67	0.00	0.00	5.23	2.1	329.7		2.20	0.00	0.00	1.72		10.35	18.92	83.84	86.68	17-Aug-15 05:00:00		**12.55**	**18.92**	**83.84**	**88.40**
17-Aug-15 06:00:00	17-Aug-15 07:00:00		9.35	0.00	0.00	5.22	2.1	329.7		3.08	0.00	0.00	1.72		10.35	18.92	83.84	86.68	17-Aug-15 06:00:00		**13.43**	**18.92**	**83.84**	**88.40**
17-Aug-15 07:00:00	17-Aug-15 08:00:00		9.33	0.00	0.00	28.86	2.1	329.7		3.07	0.00	0.00	9.52		10.35	18.92	83.84	86.68	17-Aug-15 07:00:00		**13.42**	**18.92**	**83.84**	**96.20**
17-Aug-15 08:00:00	17-Aug-15 09:00:00		1.66	0.00	0.00	4.92	2.1	329.7		0.55	0.00	0.00	1.62		10.35	18.92	83.84	86.68	17-Aug-15 08:00:00		**10.90**	**18.92**	**83.84**	**88.30**
17-Aug-15 09:00:00	17-Aug-15 10:00:00		5.73	0.00	0.00	4.61	2.1	329.7		1.89	0.00	0.00	1.52		10.35	18.92	83.84	86.68	17-Aug-15 09:00:00		**12.24**	**18.92**	**83.84**	**88.20**
17-Aug-15 10:00:00	17-Aug-15 11:00:00		0.86	0.00	0.00	18.30	2.1	329.7		0.29	0.00	0.00	6.03		10.35	18.92	83.84	86.68	17-Aug-15 10:00:00		**10.64**	**18.92**	**83.84**	**92.71**
17-Aug-15 11:00:00	17-Aug-15 12:00:00		0.72	0.00	0.00	4.19	2.1	329.7		0.24	0.00	0.00	1.38		10.35	18.92	83.84	86.68	17-Aug-15 11:00:00		**10.59**	**18.92**	**83.84**	**88.06**
17-Aug-15 12:00:00	17-Aug-15 13:00:00		0.05	0.00	0.00	5.66	2.1	329.7		0.02	0.00	0.00	1.87		10.35	18.92	83.84	86.68	17-Aug-15 12:00:00		**10.37**	**18.92**	**83.84**	**88.55**
17-Aug-15 13:00:00	17-Aug-15 14:00:00		0.00	0.00	0.00	4.65	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	17-Aug-15 13:00:00		**10.35**	**18.92**	**83.84**	**88.21**
17-Aug-15 14:00:00	17-Aug-15 15:00:00		0.00	0.00	0.00	4.38	2.1	329.7		0.00	0.00	0.00	1.44		10.35	18.92	83.84	86.68	17-Aug-15 14:00:00		**10.35**	**18.92**	**83.84**	**88.12**
17-Aug-15 15:00:00	17-Aug-15 16:00:00		0.00	0.00	0.00	4.11	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	17-Aug-15 15:00:00		**10.35**	**18.92**	**83.84**	**88.04**
17-Aug-15 16:00:00	17-Aug-15 17:00:00		0.00	0.00	0.00	3.85	2.1	329.7		0.00	0.00	0.00	1.27		10.35	18.92	83.84	86.68	17-Aug-15 16:00:00		**10.35**	**18.92**	**83.84**	**87.95**
17-Aug-15 17:00:00	17-Aug-15 18:00:00		0.00	0.00	0.00	3.86	2.1	329.7		0.00	0.00	0.00	1.27		10.35	18.92	83.84	86.68	17-Aug-15 17:00:00		**10.35**	**18.92**	**83.84**	**87.95**
17-Aug-15 18:00:00	17-Aug-15 19:00:00		0.08	0.00	0.00	20.26	2.1	329.7		0.03	0.00	0.00	6.68		10.35	18.92	83.84	86.68	17-Aug-15 18:00:00		**10.38**	**18.92**	**83.84**	**93.36**
17-Aug-15 19:00:00	17-Aug-15 20:00:00		0.00	0.00	0.00	4.07	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	17-Aug-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.02**
17-Aug-15 20:00:00	17-Aug-15 21:00:00		0.00	0.00	0.00	4.14	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	17-Aug-15 20:00:00		**10.35**	**18.92**	**83.84**	**88.04**
17-Aug-15 21:00:00	17-Aug-15 22:00:00		0.00	0.00	0.00	4.20	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	17-Aug-15 21:00:00		**10.35**	**18.92**	**83.84**	**88.06**
17-Aug-15 22:00:00	17-Aug-15 23:00:00		0.00	0.00	0.00	4.26	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	17-Aug-15 22:00:00		**10.35**	**18.92**	**83.84**	**88.08**
17-Aug-15 23:00:00	18-Aug-15 00:00:00		1.09	0.00	0.00	4.95	2.1	329.7		0.36	0.00	0.00	1.63		10.35	18.92	83.84	86.68	17-Aug-15 23:00:00		**10.71**	**18.92**	**83.84**	**88.31**
18-Aug-15 00:00:00	18-Aug-15 01:00:00		3.88	0.00	0.00	4.87	2.1	329.7		1.28	0.00	0.00	1.61		10.35	18.92	83.84	86.68	18-Aug-15 00:00:00		**11.63**	**18.92**	**83.84**	**88.29**
18-Aug-15 01:00:00	18-Aug-15 02:00:00		0.49	0.00	0.00	4.93	2.1	329.7		0.16	0.00	0.00	1.63		10.35	18.92	83.84	86.68	18-Aug-15 01:00:00		**10.51**	**18.92**	**83.84**	**88.31**
18-Aug-15 02:00:00	18-Aug-15 03:00:00		2.43	0.00	0.00	4.99	2.1	329.7		0.80	0.00	0.00	1.64		10.35	18.92	83.84	86.68	18-Aug-15 02:00:00		**11.15**	**18.92**	**83.84**	**88.32**
18-Aug-15 03:00:00	18-Aug-15 04:00:00		1.14	0.00	0.00	5.00	2.1	329.7		0.38	0.00	0.00	1.65		10.35	18.92	83.84	86.68	18-Aug-15 03:00:00		**10.73**	**18.92**	**83.84**	**88.33**
18-Aug-15 04:00:00	18-Aug-15 05:00:00		3.55	0.00	0.00	10.91	2.1	329.7		1.17	0.00	0.00	3.60		10.35	18.92	83.84	86.68	18-Aug-15 04:00:00		**11.52**	**18.92**	**83.84**	**90.28**
18-Aug-15 05:00:00	18-Aug-15 06:00:00		4.82	0.00	0.00	5.01	2.1	329.7		1.59	0.00	0.00	1.65		10.35	18.92	83.84	86.68	18-Aug-15 05:00:00		**11.94**	**18.92**	**83.84**	**88.33**
18-Aug-15 06:00:00	18-Aug-15 07:00:00		4.66	0.00	0.00	5.05	2.1	329.7		1.54	0.00	0.00	1.67		10.35	18.92	83.84	86.68	18-Aug-15 06:00:00		**11.89**	**18.92**	**83.84**	**88.35**
18-Aug-15 07:00:00	18-Aug-15 08:00:00		4.13	0.00	0.00	30.91	2.1	329.7		1.36	0.00	0.00	10.19		10.35	18.92	83.84	86.68	18-Aug-15 07:00:00		**11.71**	**18.92**	**83.84**	**96.87**
18-Aug-15 08:00:00	18-Aug-15 09:00:00		4.37	0.00	0.00	5.01	2.1	329.7		1.44	0.00	0.00	1.65		10.35	18.92	83.84	86.68	18-Aug-15 08:00:00		**11.79**	**18.92**	**83.84**	**88.33**
18-Aug-15 09:00:00	18-Aug-15 10:00:00		4.62	0.00	0.00	4.95	2.1	329.7		1.52	0.00	0.00	1.63		10.35	18.92	83.84	86.68	18-Aug-15 09:00:00		**11.87**	**18.92**	**83.84**	**88.31**
18-Aug-15 10:00:00	18-Aug-15 11:00:00		4.85	0.00	0.00	24.99	2.1	329.7		1.60	0.00	0.00	8.24		10.35	18.92	83.84	86.68	18-Aug-15 10:00:00		**11.95**	**18.92**	**83.84**	**94.92**
18-Aug-15 11:00:00	18-Aug-15 12:00:00		4.00	0.00	0.00	4.83	2.1	329.7		1.32	0.00	0.00	1.59		10.35	18.92	83.84	86.68	18-Aug-15 11:00:00		**11.67**	**18.92**	**83.84**	**88.27**
18-Aug-15 12:00:00	18-Aug-15 13:00:00		3.05	0.00	0.00	4.65	2.1	329.7		1.01	0.00	0.00	1.53		10.35	18.92	83.84	86.68	18-Aug-15 12:00:00		**11.36**	**18.92**	**83.84**	**88.21**
18-Aug-15 13:00:00	18-Aug-15 14:00:00		1.08	0.00	0.00	25.56	2.1	329.7		0.36	0.00	0.00	8.43		10.35	18.92	83.84	86.68	18-Aug-15 13:00:00		**10.71**	**18.92**	**83.84**	**95.11**
18-Aug-15 14:00:00	18-Aug-15 15:00:00		0.28	0.00	0.00	4.29	2.1	329.7		0.09	0.00	0.00	1.42		10.35	18.92	83.84	86.68	18-Aug-15 14:00:00		**10.44**	**18.92**	**83.84**	**88.10**
18-Aug-15 15:00:00	18-Aug-15 16:00:00		0.00	0.00	0.00	4.21	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	18-Aug-15 15:00:00		**10.35**	**18.92**	**83.84**	**88.07**
18-Aug-15 16:00:00	18-Aug-15 17:00:00		0.00	0.00	0.00	31.46	2.1	329.7		0.00	0.00	0.00	10.37		10.35	18.92	83.84	86.68	18-Aug-15 16:00:00		**10.35**	**18.92**	**83.84**	**97.05**
18-Aug-15 17:00:00	18-Aug-15 18:00:00		0.00	0.00	0.00	4.21	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	18-Aug-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.07**
18-Aug-15 18:00:00	18-Aug-15 19:00:00		0.00	0.00	0.00	4.31	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	18-Aug-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.10**
18-Aug-15 19:00:00	18-Aug-15 20:00:00		0.00	0.00	0.00	4.

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
2015 HOURLY EMISSIONS		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
20-Aug-15 17:00:00	20-Aug-15 18:00:00		1.96	0.00	0.00	4.49	2.1	329.7		0.65	0.00	0.00	1.48		10.35	18.92	83.84	86.68	20-Aug-15 17:00:00		11.00	18.92	83.84	88.16
20-Aug-15 18:00:00	20-Aug-15 19:00:00		0.80	0.00	0.00	4.61	2.1	329.7		0.26	0.00	0.00	1.52		10.35	18.92	83.84	86.68	20-Aug-15 18:00:00		10.61	18.92	83.84	88.20
20-Aug-15 19:00:00	20-Aug-15 20:00:00		0.00	0.00	0.00	7.30	2.1	329.7		0.00	0.00	0.00	2.41		10.35	18.92	83.84	86.68	20-Aug-15 19:00:00		10.35	18.92	83.84	89.09
20-Aug-15 20:00:00	20-Aug-15 21:00:00		0.00	0.00	0.00	12.24	2.1	329.7		0.00	0.00	0.00	4.04		10.35	18.92	83.84	86.68	20-Aug-15 20:00:00		10.35	18.92	83.84	90.72
20-Aug-15 21:00:00	20-Aug-15 22:00:00		0.00	0.00	0.00	4.78	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	20-Aug-15 21:00:00		10.35	18.92	83.84	88.26
20-Aug-15 22:00:00	20-Aug-15 23:00:00		0.00	0.00	0.00	4.74	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	20-Aug-15 22:00:00		10.35	18.92	83.84	88.24
20-Aug-15 23:00:00	21-Aug-15 00:00:00		0.00	0.00	0.00	7.48	2.1	329.7		0.00	0.00	0.00	2.47		10.35	18.92	83.84	86.68	20-Aug-15 23:00:00		10.35	18.92	83.84	89.15
21-Aug-15 00:00:00	21-Aug-15 01:00:00		0.00	0.00	0.00	4.60	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	21-Aug-15 00:00:00		10.35	18.92	83.84	88.20
21-Aug-15 01:00:00	21-Aug-15 02:00:00		0.00	0.00	0.00	4.62	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	21-Aug-15 01:00:00		10.35	18.92	83.84	88.20
21-Aug-15 02:00:00	21-Aug-15 03:00:00		0.00	0.00	0.00	15.43	2.1	329.7		0.00	0.00	0.00	5.09		10.35	18.92	83.84	86.68	21-Aug-15 02:00:00		10.35	18.92	83.84	91.77
21-Aug-15 03:00:00	21-Aug-15 04:00:00		0.00	0.00	0.00	4.62	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	21-Aug-15 03:00:00		10.35	18.92	83.84	88.20
21-Aug-15 04:00:00	21-Aug-15 05:00:00		1.97	0.00	0.00	4.66	2.1	329.7		0.65	0.00	0.00	1.54		10.35	18.92	83.84	86.68	21-Aug-15 04:00:00		11.00	18.92	83.84	88.22
21-Aug-15 05:00:00	21-Aug-15 06:00:00		0.00	0.00	0.00	27.76	2.1	329.7		0.00	0.00	0.00	9.15		10.35	18.92	83.84	86.68	21-Aug-15 05:00:00		10.35	18.92	83.84	95.83
21-Aug-15 06:00:00	21-Aug-15 07:00:00		0.00	0.00	0.00	4.89	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	21-Aug-15 06:00:00		10.35	18.92	83.84	88.29
21-Aug-15 07:00:00	21-Aug-15 08:00:00		0.00	0.00	0.00	4.92	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	21-Aug-15 07:00:00		10.35	18.92	83.84	88.30
21-Aug-15 08:00:00	21-Aug-15 09:00:00		0.00	0.00	0.00	4.95	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	21-Aug-15 08:00:00		10.35	18.92	83.84	88.31
21-Aug-15 09:00:00	21-Aug-15 10:00:00		0.00	0.00	0.00	4.94	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	21-Aug-15 09:00:00		10.35	18.92	83.84	88.31
21-Aug-15 10:00:00	21-Aug-15 11:00:00		0.34	0.00	0.00	20.30	2.1	329.7		0.11	0.00	0.00	6.69		10.35	18.92	83.84	86.68	21-Aug-15 10:00:00		10.46	18.92	83.84	93.37
21-Aug-15 11:00:00	21-Aug-15 12:00:00		0.00	0.00	0.00	4.61	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	21-Aug-15 11:00:00		10.35	18.92	83.84	88.20
21-Aug-15 12:00:00	21-Aug-15 13:00:00		0.09	0.00	0.00	4.44	2.1	329.7		0.03	0.00	0.00	1.46		10.35	18.92	83.84	86.68	21-Aug-15 12:00:00		10.38	18.92	83.84	88.14
21-Aug-15 13:00:00	21-Aug-15 14:00:00		0.00	0.00	0.00	4.27	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	21-Aug-15 13:00:00		10.35	18.92	83.84	88.09
21-Aug-15 14:00:00	21-Aug-15 15:00:00		0.00	0.00	0.00	6.95	2.1	329.7		0.00	0.00	0.00	2.29		10.35	18.92	83.84	86.68	21-Aug-15 14:00:00		10.35	18.92	83.84	88.97
21-Aug-15 15:00:00	21-Aug-15 16:00:00		0.00	0.00	0.00	4.20	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	21-Aug-15 15:00:00		10.35	18.92	83.84	88.07
21-Aug-15 16:00:00	21-Aug-15 17:00:00		0.00	0.00	0.00	4.16	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	21-Aug-15 16:00:00		10.35	18.92	83.84	88.05
21-Aug-15 17:00:00	21-Aug-15 18:00:00		0.00	0.00	0.00	51.13	2.1	329.7		0.00	0.00	0.00	16.86		10.35	18.92	83.84	86.68	21-Aug-15 17:00:00		10.35	18.92	83.84	103.54
21-Aug-15 18:00:00	21-Aug-15 19:00:00		0.00	0.00	0.00	4.17	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	21-Aug-15 18:00:00		10.35	18.92	83.84	88.06
21-Aug-15 19:00:00	21-Aug-15 20:00:00		0.00	0.00	0.00	4.30	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	21-Aug-15 19:00:00		10.35	18.92	83.84	88.10
21-Aug-15 20:00:00	21-Aug-15 21:00:00		0.00	0.00	0.00	6.36	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	21-Aug-15 20:00:00		10.35	18.92	83.84	88.78
21-Aug-15 21:00:00	21-Aug-15 22:00:00		0.00	0.00	0.00	5.00	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	21-Aug-15 21:00:00		10.35	18.92	83.84	88.33
21-Aug-15 22:00:00	21-Aug-15 23:00:00		0.00	0.00	0.00	4.94	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	21-Aug-15 22:00:00		10.35	18.92	83.84	88.31
21-Aug-15 23:00:00	22-Aug-15 00:00:00		0.00	0.00	0.00	4.88	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	21-Aug-15 23:00:00		10.35	18.92	83.84	88.29
22-Aug-15 00:00:00	22-Aug-15 01:00:00		0.00	0.00	0.00	8.05	2.1	329.7		0.00	0.00	0.00	2.65		10.35	18.92	83.84	86.68	22-Aug-15 00:00:00		10.35	18.92	83.84	89.33
22-Aug-15 01:00:00	22-Aug-15 02:00:00		0.00	0.00	0.00	5.11	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	22-Aug-15 01:00:00		10.35	18.92	83.84	88.37
22-Aug-15 02:00:00	22-Aug-15 03:00:00		0.43	0.00	0.00	5.21	2.1	329.7		0.14	0.00	0.00	1.72		10.35	18.92	83.84	86.68	22-Aug-15 02:00:00		10.49	18.92	83.84	88.40
22-Aug-15 03:00:00	22-Aug-15 04:00:00		8.32	0.00	0.00	45.24	2.1	329.7		2.74	0.00	0.00	14.92		10.35	18.92	83.84	86.68	22-Aug-15 03:00:00		13.09	18.92	83.84	101.60
22-Aug-15 04:00:00	22-Aug-15 05:00:00		1.24	0.00	0.00	5.13	2.1	329.7		0.41	0.00	0.00	1.69		10.35	18.92	83.84	86.68	22-Aug-15 04:00:00		10.76	18.92	83.84	88.37
22-Aug-15 05:00:00	22-Aug-15 06:00:00		5.64	0.00	0.00	5.16	2.1	329.7		1.86	0.00	0.00	1.70		10.35	18.92	83.84	86.68	22-Aug-15 05:00:00		12.21	18.92	83.84	88.38
22-Aug-15 06:00:00	22-Aug-15 07:00:00		6.87	0.00	0.00	40.12	2.1	329.7		2.27	0.00	0.00	13.23		10.35	18.92	83.84	86.68	22-Aug-15 06:00:00		12.62	18.92	83.84	99.91
22-Aug-15 07:00:00	22-Aug-15 08:00:00		2.17	0.00	0.00	5.20	2.1	329.7		0.71	0.00	0.00	1.71		10.35	18.92	83.84	86.68	22-Aug-15 07:00:00		11.06	18.92	83.84	88.39
22-Aug-15 08:00:00	22-Aug-15 09:00:00		0.21	0.00	0.00	5.17	2.1	329.7		0.07	0.00	0.00	1.70		10.35	18.92	83.84	86.68	22-Aug-15 08:00:00		10.42	18.92	83.84	88.38
22-Aug-15 09:00:00	22-Aug-15 10:00:00		0.00	0.00	0.00	5.14	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	22-Aug-15 09:00:00		10.35	18.92	83.84	88.37
22-Aug-15 10:00:00	22-Aug-15 11:00:00		0.00	0.00	0.00	62.20	2.1	329.7		0.00	0.00	0.00	20.51		10.35	18.92	83.84	86.68	22-Aug-15 10:00:00		10.35	18.92	83.84	107.19
22-Aug-15 11:00:00	22-Aug-15 12:00:00		0.00	0.00	0.00	5.08	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	22-Aug-15 11:00:00		10.35	18.92	83.84	88.36
22-Aug-15 12:00:00	22-Aug-15 13:00:00		1.20	0.00	0.00	4.83	2.1	329.7		0.40	0.00	0.00	1.59		10.35	18.92	83.84	86.68	22-Aug-15 12:00:00		10.75	18.92	83.84	88.27
22-Aug-15 13:00:00	22-Aug-15 14:00:00		1.21	0.00	0.00	5.87	2.1	329.7		0.40	0.00	0.00	1.94		10.35	18.92	83.84	86.68	22-Aug-15 13:00:00		10.75	18.92	83.84	88.62
22-Aug-15 14:00:00	22-Aug-15 15:00:00		0.75	0.00	0.00	4.49	2.1	329.7		0.25	0.00	0.00	1.48		10.35	18.92	83.84	86.68	22-Aug-15 14:00:00		10.60	18.92	83.84	88.16
22-Aug-15 15:00:00	22-Aug-15 16:00:00		0.72	82.57	0.00	4.36	2.1	329.7		0.24	27.22	0.00	1.44		10.35	18.92	83.84	86.68	22-Aug-15 15:00:00		10.59	46.14	83.84	88.12
22-Aug-15 16:00:00	22-Aug-15 17:00:00		0.00	0.00	0.00	4.23	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	22-Aug-15 16:00:00		10.35	18.92	83.84	88.07
22-Aug-15 17:00:00	22-Aug-15 18:00:00		0.00	0.00	0.00	4.11	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	22-Aug-15 17:00:00		10.35	18.92	83.84	88.04
22-Aug-15 18:00:00	22-Aug-15 19:00:00		0.00	0.00	0.00	4.18	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	22-Aug-15 18:00:00		10.35	18.92	83.84	88.06
22-Aug-15 19:00:00	22-Aug-15 20:00:00		0.00	0.00	0.00	4.31	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	22-Aug-15 19:00:00		10.35	18.92	83.84	88.10
22-Aug-15 20:00:00	22-Aug-15 21:00:00		0.00	0.00	0.00	4.44	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	22-Aug-15 20:00:00		10.35	18.92	83.84	88.14
22-Aug-15 21:00:00	22-Aug-15 22:00:00		170.08	0.00	0.00	16.91	2.1	329.7		56.07	0.00	0.00	5.58		10.35	18.92	83.84	86.68	22-Aug-15 21:00:00		66.42	18.92	83.84	92.26
22-Aug-15 22:00:00	22-Aug-15 23:00:00		40.16	0.00	0.00	4.46	2.1	329.7		13.24	0.00	0.00	1.47		10.35	18.92	83.84	86.68	22-Aug-15 22:00:00		23.59	18.92	83.84	88.15
22-Aug-15 23:00:00	23-Aug-15 00:00:00		0.00	0.00	0.00	4.60	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	22-Aug-15 23:00:00		10.35	18.92	83.84	88.20
23-Aug-15 00:00:00	23-Aug-15 01:00:00		0.00	0.00	0.00	13.34	2.1	329.7		0.00	0.00	0.00	4.40		10.35	18.92	83.84	86.68	23-Aug-15 00:00:00		10.35	18.92	83.84	91.08
23-Aug-15 01:00:00	23-Aug-15 02:00:00		0.00	0.00	0.00	4.90	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	23-Aug-15 01:00:00		10.35	18.92	83.84	88.30
23-Aug-15 02:00:00	23-Aug-15 03:00:00		1.34	0.00	0.00	18.33	2.1	329.7		0.44	0.00	0.00	6.04		10.35	18.92	83.84	86.68	23-Aug-15 02:00:00		10.79	18.92	83.84	92.72
23-Aug-15 03:00:00	23-Aug-15 04:00:00		0.00	0.00	0.00	7.26	2.1	329.7		0.00	0.00	0.00	2.39		10.35	18.92	83.84	86.68	23-Aug-15 03:00:00		10.35	18.92	83.84	89.07
23-Aug-15 04:00:00	23-Aug-15 05:00:00		0.00	0.00	0.00	6.44	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	23-Aug-15 04:00:00		10.35	18.92	83.84	88.80
23-Aug-15 05:00:00	23-Aug-15 06:00:00		1.41	0.00	0.00	5.62	2.1	329.7		0.46	0.00	0.00	1.85		10.35	18.92	83.84	86.68	23-Aug-15 05:00:00		10.81	18.92	83.84	88.53
23-Aug-15 06:00:00	23-Aug-15 07:00:00		4.97	0.00	0.00	37.18	2.1	329.7		1.64	0.00	0.00	12.26		10.35	18.92	83.84	86.68	23-Aug-15 06:00:00		11.99	18.92	83.84	98.94
23-Aug-15 07:00:00	23-Aug-15 08:00:00		7.71	0.00	0.00	5.09	2.1	329.7		2.54	0.00	0.00	1.68		10.35	18.92	83.84	86.68	23-Aug-15 07:00:00		12.89	18.92	83.84	88.36
23-Aug-15 08:00:00	23-Aug-15 09:00:00		31.32	0.00	0.00	5.01	2.1	329.7		10.33	0.00	0.00	1.65		10.35	18.92	83.84	86.68	23-Aug-15 08:00:00		20.68	18.92	83.84	88.33
23-Aug-15 09:00:00	23-Aug-15 10:00:00		30.28	0.00	0.00	4.93	2.1	329.7		9.98	0.00	0.00	1.63		10.35	18.92	83.84	86.68	23-Aug-15 09:00:00		20.33	18.92	83.84	88.31
23-Aug-15 10:00:00	23-Aug-15 11:00:00		11.36	0.00	0.00	48.23	2.1	329.7		3.75	0.00	0.00	15.90		10.35	18.92	83.84	86.68	23-Aug-15 10:00:00		14.10	18.92	83.84	102.58
23-Aug-15 11:00:00	23-Aug-15 12:00:00		10.39	0.00	0.00	4.71	2.1	329.7		3.43	0.00	0.00	1.55		10.35	18.92	83.84	86.68	23-Aug-15 11:00:00		13.78	18.92	83.84	88.23
23-Aug-15 12:00:00	23-Aug-15 13:00:00		5.97	0.00	0.00	4.69	2.1	329.7		1.97	0.00	0.00	1.55		10.35	18.92	83.84	86.68	23-Aug-15 12:00:00		12.32	18.92	83.84	88.23
23-Aug-15 13:00:00	23-Aug-15 14:00:00		14.44	0.00	0.00	6.75	2.1	329.7		4.76	0.00	0.00	2.22		10.35	18.92	83.84	86.68	23-Aug-15 13:00:00		15.11	18.92	83.84	88.90
23-Aug-15 14:00:00	23-Aug-15 15:00:00		13.95	0.00	0.00	4.62	2.1	329.7		4.60	0.00	0.00	1.52		10.35	18.92	83.84	86.68	23-Aug-15 14:00:00		14.95	18.92	83.84	88.20
23-Aug-15 15:00:00	23-Aug-15 16:00:00		13.46	0.00	0.00	4.60	2.1	329.7		4.44	0.00	0.00	1.52		10.35	18.92	83.84	86.68	23-Aug-15 15:00:00		14.79	18.92	83.84	88.20
23-Aug-15 16:00:00	23-Aug-15 17:00:00		14.61	0.00	0.00	4.59	2.1	329.7		4.82	0.00	0.00	1.51		10.35	18.92	83.84	86.68	23-Aug-15 16:00:00		15.17	18.92	83.84	88.19
23-Aug-15 17:00:00	23-Aug-15 18:00:00		12.32	0.00	0.00	4.58	2.1	329.7		4.06	0.00	0.00	1.51		10.35	18.92	83.84	86.68	23-Aug-15 17:00:00		14.41	18.92	83.84	88.19
23-Aug-15 18:00:00	23-Aug-15 19:00:00		11.29	0.00	0.00	27.93	2.1	329.7		3.72	0.00	0.00	9.21		10.35	18.92	83.84	86.68	23-Aug-15 18:00:00		14.07	18.92	83.84	95.89
23-Aug-15 19:00:00	23-Aug-15 20:00:00		9.53	0.00	0.00	4.60	2.1	329.7		3.14	0.00	0.00	1.52		10.35	18.92	83.84	86.68	23-Aug-15 19:00:00		13.49	18.92	83.84	88.20
23-Aug-15 20:00:00	23-Aug-15 21:00:00		9.29	0.00	0.00	4.68	2.1	329.7		3.06	0.00	0.00	1.54		10.35	18.92	83.84	86.68	23-Aug-15 20:00:00		13.41	18.92	83.84	88.22
23-Aug-15 21:00:00	23-Aug-15 22:00:00		253.41	0.00	0.00	9.69	2.1	329.7		83.55	0.00	0.00	3.20		10.35	18.92	83.84	86.68	23-Aug-15 21:00:00		93.90	18.92	83.84	89.88
23-Aug-15 22:00:00	23-Aug-15 23:00:00		550.99	241.65	0.00	4.60	2.1	329.7		181.66	79.67	0.00	1.52		10.35	18.92	83.84	86.68	23-Aug-15 22:00:00		192.01	98.59	83.84	88.20
23-Aug-15 23:00:00	24-Aug-15 00:00:00		774.90	891.51	0.00	4.66	2.1	329.7		255.48	293.93	0.00	1.54		10.35	18.92	83.84	86.68	23-Aug-15 23:00:00		265.83	312.85	83.84	88.22
24-Aug-15 00:00:00	24-Aug-15 01:00:00		770.79	892.10	0.00	7.64	2.1	329.7		254.13	294.12	0.00	2.52		10.35	18.92	83.84	86.68	24-Aug-15 00:00:00		264.48	313.04	83.84	89.20
24-Aug-15 01:00:00	24-Aug-15 02:00:00		769.45	892.21	0.00	4.86	2.1	329.7		253.69	294.16	0.00	1.60		10.35	18.92	83.84	86.68	24-Aug-15 01:00:00		264.04	313.08	83.84	88.28
24-Aug-15 02:00:00	24-Aug-15 03:00:00		769.35	893.95	0.00	4.78	2.1	329.7		253.65	294.74	0.00	1.58		10.35	18.92	83.84	86.68	24-Aug-15 02:00:00		264.00	313.66	83.84	88.26
24-Aug-15 03:00:00	24-Aug-15 04:00:00		768.46	1,007.60	0.00	4.70	2.1	329.7		253.36	332.21	0.00	1.55		10.35	18.92	83.84	86.68	24-Aug-15 03:00:00		263.71	351.13	83.84	88.23
24-Aug-15 04:00:00	24-Aug-15 05:00:00		503.62	598.74	0.00	13.56	2.1	329.7		166.04	197.41	0.00	4.47		10.35	18.92	83.84	86.68	24-Aug-15 04:00:00		176.39	216.33	83.84	91.15
24-Aug-15 05:00:00	24-Aug-15 06:00:00		357.55	341.67	0.00	4.64	2.1	329.7		117.89	112.65	0.00	1.53		10.35	18.92	83.84	86.68	24-Aug-15 05:00:00		128.24	131.57	83.84	88.21
24-Aug-15 06:00:00	24-Aug-15 07:00:00		359.53	243.64	0.00	81.24	2.1	329.7		118.54	80.33	0.00	26.79		10.35	18.92	83.84	86.68	24-Aug-15 06:00:00		128.89	99.25	83.84	113.47
24-Aug-15 07:00:00	24-Aug-15 08:00:00		355.94	248.98	0.00	4.67	2.1	329.7		117.35	82.09	0.00	1.54		10.35	18.92	83.84	86.68	24-Aug-15 07:00:00		127.70	101.01	83.84	88.22
24-Aug-15 08:00:00	24-Aug-15 09:00:00		367.52	249.66	0.00	4.56	2.1	329.7		121.17	82.31	0.00	1.50		10.35	18.92	83.84	86.68	24-Aug-15 08:00:00		131.52	101.23	83.84	88.18
24-Aug-15 09:00:00	24-Aug-15 10:00:00		364.13	253.56	0.00	8.84	2.1	329.7		120.05	83.60	0.00	2.92		10.35	18.92	83.84	86.68	24-Aug-15 09:00:00		130.40	102.52	83.84	89.60
24-Aug-15 10:00:00	24-Aug-15 11:00:00		359.00	253.58	0.00	4.36	2.1	329.7		118.36	83.61	0.00	1.44		10.35	18.92	83.84	86.68	24-Aug-15 10:00:00		128.71	102.53	83.84	88.12
24-Aug-15 11:00:00	24-Aug-15 12:00:00		365.80	254.52	0.00	4.11	2.1	329.7		120.60	83.91	0.00	1.35		10.35	18.92	83.84	86.68	24-Aug-15 11:00:00		130.95	102.83	83.84	88.03
24-Aug-15 12:00:00	24-Aug-15 13:00:00		341.39	255.32	0.00	3.86	2.1	329.7		112.56	84.18	0.00	1.27		10.35	18.92	83.84	86.68	24-Aug-15 12:00:00		122.91	103.10	83.84	87.95
24-Aug-15 13:00:00	24-Aug-15 14:00:00		345.24	256.92	0.00	25.13	2.1	329.7		113.83	84.71	0.00	8.29		10.35	18.92	83.84	86.68	24-Aug-15 13:00:00		124.18	103.63	83.84	94.97
24-Aug-15 14:00:00	24-Aug-15 15:00:00		69.97	123.65	0.00

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
26-Aug-15 12:00:00	26-Aug-15 13:00:00		10.01	0.00	0.00	4.72	2.1	329.7		3.30	0.00	0.00	1.55		10.35	18.92	83.84	86.68	26-Aug-15 12:00:00		**13.65**	**18.92**	**83.84**	**88.23**
26-Aug-15 13:00:00	26-Aug-15 14:00:00		6.04	0.00	0.00	13.48	2.1	329.7		1.99	0.00	0.00	4.44		10.35	18.92	83.84	86.68	26-Aug-15 13:00:00		**12.34**	**18.92**	**83.84**	**91.12**
26-Aug-15 14:00:00	26-Aug-15 15:00:00		2.23	0.00	0.00	4.86	2.1	329.7		0.74	0.00	0.00	1.60		10.35	18.92	83.84	86.68	26-Aug-15 14:00:00		**11.09**	**18.92**	**83.84**	**88.28**
26-Aug-15 15:00:00	26-Aug-15 16:00:00		4.92	0.00	0.00	4.40	2.1	329.7		1.62	0.00	0.00	1.45		10.35	18.92	83.84	86.68	26-Aug-15 15:00:00		**11.97**	**18.92**	**83.84**	**88.13**
26-Aug-15 16:00:00	26-Aug-15 17:00:00		0.81	0.00	0.00	10.17	2.1	329.7		0.27	0.00	0.00	3.35		10.35	18.92	83.84	86.68	26-Aug-15 16:00:00		**10.62**	**18.92**	**83.84**	**90.03**
26-Aug-15 17:00:00	26-Aug-15 18:00:00		0.53	0.00	0.00	4.02	2.1	329.7		0.17	0.00	0.00	1.32		10.35	18.92	83.84	86.68	26-Aug-15 17:00:00		**10.52**	**18.92**	**83.84**	**88.00**
26-Aug-15 18:00:00	26-Aug-15 19:00:00		0.34	0.00	0.00	4.08	2.1	329.7		0.11	0.00	0.00	1.35		10.35	18.92	83.84	86.68	26-Aug-15 18:00:00		**10.46**	**18.92**	**83.84**	**88.03**
26-Aug-15 19:00:00	26-Aug-15 20:00:00		0.15	0.00	0.00	32.66	2.1	329.7		0.05	0.00	0.00	10.77		10.35	18.92	83.84	86.68	26-Aug-15 19:00:00		**10.40**	**18.92**	**83.84**	**97.45**
26-Aug-15 20:00:00	26-Aug-15 21:00:00		0.01	0.00	0.00	4.30	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	26-Aug-15 20:00:00		**10.35**	**18.92**	**83.84**	**88.10**
26-Aug-15 21:00:00	26-Aug-15 22:00:00		0.00	0.00	0.00	4.47	2.1	329.7		0.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	26-Aug-15 21:00:00		**10.35**	**18.92**	**83.84**	**88.15**
26-Aug-15 22:00:00	26-Aug-15 23:00:00		0.77	0.00	0.00	4.64	2.1	329.7		0.25	0.00	0.00	1.53		10.35	18.92	83.84	86.68	26-Aug-15 22:00:00		**10.60**	**18.92**	**83.84**	**88.21**
26-Aug-15 23:00:00	27-Aug-15 00:00:00		5.44	0.00	0.00	11.28	2.1	329.7		1.79	0.00	0.00	3.72		10.35	18.92	83.84	86.68	26-Aug-15 23:00:00		**12.14**	**18.92**	**83.84**	**90.40**
27-Aug-15 00:00:00	27-Aug-15 01:00:00		0.40	0.00	0.00	4.79	2.1	329.7		0.13	0.00	0.00	1.58		10.35	18.92	83.84	86.68	27-Aug-15 00:00:00		**10.48**	**18.92**	**83.84**	**88.26**
27-Aug-15 01:00:00	27-Aug-15 02:00:00		10.72	0.00	0.00	4.92	2.1	329.7		3.54	0.00	0.00	1.62		10.35	18.92	83.84	86.68	27-Aug-15 01:00:00		**13.89**	**18.92**	**83.84**	**88.30**
27-Aug-15 02:00:00	27-Aug-15 03:00:00		21.14	0.00	0.00	5.06	2.1	329.7		6.97	0.00	0.00	1.67		10.35	18.92	83.84	86.68	27-Aug-15 02:00:00		**17.32**	**18.92**	**83.84**	**88.35**
27-Aug-15 03:00:00	27-Aug-15 04:00:00		0.00	0.00	0.00	5.19	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	27-Aug-15 03:00:00		**10.35**	**18.92**	**83.84**	**88.39**
27-Aug-15 04:00:00	27-Aug-15 05:00:00		7.19	0.00	0.00	12.69	2.1	329.7		2.37	0.00	0.00	4.18		10.35	18.92	83.84	86.68	27-Aug-15 04:00:00		**12.72**	**18.92**	**83.84**	**90.86**
27-Aug-15 05:00:00	27-Aug-15 06:00:00		12.21	0.00	0.00	5.36	2.1	329.7		4.02	0.00	0.00	1.77		10.35	18.92	83.84	86.68	27-Aug-15 05:00:00		**14.37**	**18.92**	**83.84**	**88.45**
27-Aug-15 06:00:00	27-Aug-15 07:00:00		12.72	0.00	0.00	5.48	2.1	329.7		4.19	0.00	0.00	1.81		10.35	18.92	83.84	86.68	27-Aug-15 06:00:00		**14.54**	**18.92**	**83.84**	**88.49**
27-Aug-15 07:00:00	27-Aug-15 08:00:00		16.81	0.00	0.00	50.78	2.1	329.7		5.54	0.00	0.00	16.74		10.35	18.92	83.84	86.68	27-Aug-15 07:00:00		**15.89**	**18.92**	**83.84**	**103.42**
27-Aug-15 08:00:00	27-Aug-15 09:00:00		24.96	0.00	0.00	5.33	2.1	329.7		8.23	0.00	0.00	1.76		10.35	18.92	83.84	86.68	27-Aug-15 08:00:00		**18.58**	**18.92**	**83.84**	**88.44**
27-Aug-15 09:00:00	27-Aug-15 10:00:00		16.95	0.00	0.00	5.29	2.1	329.7		5.59	0.00	0.00	1.74		10.35	18.92	83.84	86.68	27-Aug-15 09:00:00		**15.94**	**18.92**	**83.84**	**88.42**
27-Aug-15 10:00:00	27-Aug-15 11:00:00		14.49	0.00	0.00	8.34	2.1	329.7		4.78	0.00	0.00	2.75		10.35	18.92	83.84	86.68	27-Aug-15 10:00:00		**15.13**	**18.92**	**83.84**	**89.43**
27-Aug-15 11:00:00	27-Aug-15 12:00:00		12.86	0.00	0.00	4.85	2.1	329.7		4.24	0.00	0.00	1.60		10.35	18.92	83.84	86.68	27-Aug-15 11:00:00		**14.59**	**18.92**	**83.84**	**88.28**
27-Aug-15 12:00:00	27-Aug-15 13:00:00		9.07	0.00	0.00	4.62	2.1	329.7		2.99	0.00	0.00	1.52		10.35	18.92	83.84	86.68	27-Aug-15 12:00:00		**13.34**	**18.92**	**83.84**	**88.20**
27-Aug-15 13:00:00	27-Aug-15 14:00:00		5.44	0.00	0.00	4.40	2.1	329.7		1.79	0.00	0.00	1.45		10.35	18.92	83.84	86.68	27-Aug-15 13:00:00		**12.14**	**18.92**	**83.84**	**88.13**
27-Aug-15 14:00:00	27-Aug-15 15:00:00		8.99	0.00	0.00	4.17	2.1	329.7		2.96	0.00	0.00	1.37		10.35	18.92	83.84	86.68	27-Aug-15 14:00:00		**13.31**	**18.92**	**83.84**	**88.05**
27-Aug-15 15:00:00	27-Aug-15 16:00:00		7.45	0.00	0.00	4.09	2.1	329.7		2.46	0.00	0.00	1.35		10.35	18.92	83.84	86.68	27-Aug-15 15:00:00		**12.81**	**18.92**	**83.84**	**88.03**
27-Aug-15 16:00:00	27-Aug-15 17:00:00		3.79	0.00	0.00	61.38	2.1	329.7		1.25	0.00	0.00	20.24		10.35	18.92	83.84	86.68	27-Aug-15 16:00:00		**11.60**	**18.92**	**83.84**	**106.92**
27-Aug-15 17:00:00	27-Aug-15 18:00:00		5.03	0.00	0.00	4.15	2.1	329.7		1.66	0.00	0.00	1.37		10.35	18.92	83.84	86.68	27-Aug-15 17:00:00		**12.01**	**18.92**	**83.84**	**88.05**
27-Aug-15 18:00:00	27-Aug-15 19:00:00		0.61	0.00	0.00	4.26	2.1	329.7		0.20	0.00	0.00	1.40		10.35	18.92	83.84	86.68	27-Aug-15 18:00:00		**10.55**	**18.92**	**83.84**	**88.08**
27-Aug-15 19:00:00	27-Aug-15 20:00:00		0.10	0.00	0.00	4.37	2.1	329.7		0.03	0.00	0.00	1.44		10.35	18.92	83.84	86.68	27-Aug-15 19:00:00		**10.38**	**18.92**	**83.84**	**88.12**
27-Aug-15 20:00:00	27-Aug-15 21:00:00		0.00	0.00	0.00	4.48	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	27-Aug-15 20:00:00		**10.35**	**18.92**	**83.84**	**88.16**
27-Aug-15 21:00:00	27-Aug-15 22:00:00		2.39	0.00	0.00	28.85	2.1	329.7		0.79	0.00	0.00	9.51		10.35	18.92	83.84	86.68	27-Aug-15 21:00:00		**11.14**	**18.92**	**83.84**	**96.19**
27-Aug-15 22:00:00	27-Aug-15 23:00:00		6.74	0.00	0.00	4.81	2.1	329.7		2.22	0.00	0.00	1.59		10.35	18.92	83.84	86.68	27-Aug-15 22:00:00		**12.57**	**18.92**	**83.84**	**88.27**
27-Aug-15 23:00:00	28-Aug-15 00:00:00		12.38	0.00	0.00	4.97	2.1	329.7		4.08	0.00	0.00	1.64		10.35	18.92	83.84	86.68	27-Aug-15 23:00:00		**14.43**	**18.92**	**83.84**	**88.32**
28-Aug-15 00:00:00	28-Aug-15 01:00:00		10.45	0.00	0.00	5.13	2.1	329.7		3.45	0.00	0.00	1.69		10.35	18.92	83.84	86.68	28-Aug-15 00:00:00		**13.80**	**18.92**	**83.84**	**88.37**
28-Aug-15 01:00:00	28-Aug-15 02:00:00		20.73	0.00	0.00	8.14	2.1	329.7		6.83	0.00	0.00	2.68		10.35	18.92	83.84	86.68	28-Aug-15 01:00:00		**17.18**	**18.92**	**83.84**	**89.36**
28-Aug-15 02:00:00	28-Aug-15 03:00:00		8.36	0.00	0.00	5.97	2.1	329.7		2.75	0.00	0.00	1.97		10.35	18.92	83.84	86.68	28-Aug-15 02:00:00		**13.10**	**18.92**	**83.84**	**88.65**
28-Aug-15 03:00:00	28-Aug-15 04:00:00		3.54	0.00	0.00	8.91	2.1	329.7		1.17	0.00	0.00	2.94		10.35	18.92	83.84	86.68	28-Aug-15 03:00:00		**11.52**	**18.92**	**83.84**	**89.62**
28-Aug-15 04:00:00	28-Aug-15 05:00:00		0.86	0.00	0.00	5.68	2.1	329.7		0.28	0.00	0.00	1.87		10.35	18.92	83.84	86.68	28-Aug-15 04:00:00		**10.63**	**18.92**	**83.84**	**88.55**
28-Aug-15 05:00:00	28-Aug-15 06:00:00		0.57	0.00	0.00	5.67	2.1	329.7		0.19	0.00	0.00	1.87		10.35	18.92	83.84	86.68	28-Aug-15 05:00:00		**10.54**	**18.92**	**83.84**	**88.55**
28-Aug-15 06:00:00	28-Aug-15 07:00:00		0.28	0.00	0.00	5.66	2.1	329.7		0.09	0.00	0.00	1.87		10.35	18.92	83.84	86.68	28-Aug-15 06:00:00		**10.44**	**18.92**	**83.84**	**88.55**
28-Aug-15 07:00:00	28-Aug-15 08:00:00		0.03	0.00	0.00	6.65	2.1	329.7		0.01	0.00	0.00	2.19		10.35	18.92	83.84	86.68	28-Aug-15 07:00:00		**10.36**	**18.92**	**83.84**	**88.87**
28-Aug-15 08:00:00	28-Aug-15 09:00:00		0.25	0.00	0.00	5.06	2.1	329.7		0.08	0.00	0.00	1.67		10.35	18.92	83.84	86.68	28-Aug-15 08:00:00		**10.43**	**18.92**	**83.84**	**88.35**
28-Aug-15 09:00:00	28-Aug-15 10:00:00		0.94	0.00	0.00	15.31	2.1	329.7		0.31	0.00	0.00	5.05		10.35	18.92	83.84	86.68	28-Aug-15 09:00:00		**10.66**	**18.92**	**83.84**	**91.73**
28-Aug-15 10:00:00	28-Aug-15 11:00:00		2.19	0.00	0.00	4.97	2.1	329.7		0.72	0.00	0.00	1.64		10.35	18.92	83.84	86.68	28-Aug-15 10:00:00		**11.07**	**18.92**	**83.84**	**88.32**
28-Aug-15 11:00:00	28-Aug-15 12:00:00		7.84	0.00	0.00	4.68	2.1	329.7		2.59	0.00	0.00	1.54		10.35	18.92	83.84	86.68	28-Aug-15 11:00:00		**12.94**	**18.92**	**83.84**	**88.22**
28-Aug-15 12:00:00	28-Aug-15 13:00:00		6.41	0.00	0.00	4.38	2.1	329.7		2.11	0.00	0.00	1.44		10.35	18.92	83.84	86.68	28-Aug-15 12:00:00		**12.46**	**18.92**	**83.84**	**88.12**
28-Aug-15 13:00:00	28-Aug-15 14:00:00		24.81	0.00	0.00	107.83	2.1	329.7		8.18	0.00	0.00	35.55		10.35	18.92	83.84	86.68	28-Aug-15 13:00:00		**18.53**	**18.92**	**83.84**	**122.23**
28-Aug-15 14:00:00	28-Aug-15 15:00:00		23.50	0.00	0.00	4.16	2.1	329.7		7.75	0.00	0.00	1.37		10.35	18.92	83.84	86.68	28-Aug-15 14:00:00		**18.10**	**18.92**	**83.84**	**88.05**
28-Aug-15 15:00:00	28-Aug-15 16:00:00		7.69	0.00	0.00	4.06	2.1	329.7		2.54	0.00	0.00	1.34		10.35	18.92	83.84	86.68	28-Aug-15 15:00:00		**12.89**	**18.92**	**83.84**	**88.02**
28-Aug-15 16:00:00	28-Aug-15 17:00:00		1.24	0.00	0.00	82.91	2.1	329.7		0.41	0.00	0.00	27.34		10.35	18.92	83.84	86.68	28-Aug-15 16:00:00		**10.76**	**18.92**	**83.84**	**114.02**
28-Aug-15 17:00:00	28-Aug-15 18:00:00		2.17	0.00	0.00	3.88	2.1	329.7		0.71	0.00	0.00	1.28		10.35	18.92	83.84	86.68	28-Aug-15 17:00:00		**11.06**	**18.92**	**83.84**	**87.96**
28-Aug-15 18:00:00	28-Aug-15 19:00:00		0.93	0.00	0.00	3.92	2.1	329.7		0.31	0.00	0.00	1.29		10.35	18.92	83.84	86.68	28-Aug-15 18:00:00		**10.66**	**18.92**	**83.84**	**87.97**
28-Aug-15 19:00:00	28-Aug-15 20:00:00		0.58	0.00	0.00	17.02	2.1	329.7		0.19	0.00	0.00	5.61		10.35	18.92	83.84	86.68	28-Aug-15 19:00:00		**10.54**	**18.92**	**83.84**	**92.29**
28-Aug-15 20:00:00	28-Aug-15 21:00:00		0.23	0.00	0.00	4.25	2.1	329.7		0.08	0.00	0.00	1.40		10.35	18.92	83.84	86.68	28-Aug-15 20:00:00		**10.43**	**18.92**	**83.84**	**88.08**
28-Aug-15 21:00:00	28-Aug-15 22:00:00		10.39	0.00	0.00	4.54	2.1	329.7		3.42	0.00	0.00	1.50		10.35	18.92	83.84	86.68	28-Aug-15 21:00:00		**13.77**	**18.92**	**83.84**	**88.18**
28-Aug-15 22:00:00	28-Aug-15 23:00:00		17.60	0.00	0.00	4.82	2.1	329.7		5.80	0.00	0.00	1.59		10.35	18.92	83.84	86.68	28-Aug-15 22:00:00		**16.15**	**18.92**	**83.84**	**88.27**
28-Aug-15 23:00:00	29-Aug-15 00:00:00		6.86	0.00	0.00	9.71	2.1	329.7		2.26	0.00	0.00	3.20		10.35	18.92	83.84	86.68	28-Aug-15 23:00:00		**12.61**	**18.92**	**83.84**	**89.88**
29-Aug-15 00:00:00	29-Aug-15 01:00:00		11.16	0.00	0.00	5.10	2.1	329.7		3.68	0.00	0.00	1.68		10.35	18.92	83.84	86.68	29-Aug-15 00:00:00		**14.03**	**18.92**	**83.84**	**88.36**
29-Aug-15 01:00:00	29-Aug-15 02:00:00		9.41	0.00	0.00	5.20	2.1	329.7		3.10	0.00	0.00	1.72		10.35	18.92	83.84	86.68	29-Aug-15 01:00:00		**13.45**	**18.92**	**83.84**	**88.40**
29-Aug-15 02:00:00	29-Aug-15 03:00:00		2.27	0.00	0.00	5.31	2.1	329.7		0.75	0.00	0.00	1.75		10.35	18.92	83.84	86.68	29-Aug-15 02:00:00		**11.10**	**18.92**	**83.84**	**88.43**
29-Aug-15 03:00:00	29-Aug-15 04:00:00		1.31	0.00	0.00	6.04	2.1	329.7		0.43	0.00	0.00	1.99		10.35	18.92	83.84	86.68	29-Aug-15 03:00:00		**10.78**	**18.92**	**83.84**	**88.67**
29-Aug-15 04:00:00	29-Aug-15 05:00:00		0.83	0.00	0.00	5.20	2.1	329.7		0.27	0.00	0.00	1.72		10.35	18.92	83.84	86.68	29-Aug-15 04:00:00		**10.62**	**18.92**	**83.84**	**88.40**
29-Aug-15 05:00:00	29-Aug-15 06:00:00		0.35	0.00	0.00	5.20	2.1	329.7		0.12	0.00	0.00	1.71		10.35	18.92	83.84	86.68	29-Aug-15 05:00:00		**10.47**	**18.92**	**83.84**	**88.39**
29-Aug-15 06:00:00	29-Aug-15 07:00:00		0.14	0.00	0.00	5.19	2.1	329.7		0.05	0.00	0.00	1.71		10.35	18.92	83.84	86.68	29-Aug-15 06:00:00		**10.40**	**18.92**	**83.84**	**88.39**
29-Aug-15 07:00:00	29-Aug-15 08:00:00		0.00	0.00	0.00	5.17	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	29-Aug-15 07:00:00		**10.35**	**18.92**	**83.84**	**88.39**
29-Aug-15 08:00:00	29-Aug-15 09:00:00		0.00	0.00	0.00	5.15	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	29-Aug-15 08:00:00		**10.35**	**18.92**	**83.84**	**88.38**
29-Aug-15 09:00:00	29-Aug-15 10:00:00		0.00	0.00	0.00	18.26	2.1	329.7		0.00	0.00	0.00	6.02		10.35	18.92	83.84	86.68	29-Aug-15 09:00:00		**10.35**	**18.92**	**83.84**	**92.70**
29-Aug-15 10:00:00	29-Aug-15 11:00:00		0.00	0.00	0.00	5.15	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	29-Aug-15 10:00:00		**10.35**	**18.92**	**83.84**	**88.38**
29-Aug-15 11:00:00	29-Aug-15 12:00:00		0.31	0.00	0.00	4.84	2.1	329.7		0.10	0.00	0.00	1.60		10.35	18.92	83.84	86.68	29-Aug-15 11:00:00		**10.45**	**18.92**	**83.84**	**88.28**
29-Aug-15 12:00:00	29-Aug-15 13:00:00		8.53	0.00	0.00	29.52	2.1	329.7		2.81	0.00	0.00	9.73		10.35	18.92	83.84	86.68	29-Aug-15 12:00:00		**13.16**	**18.92**	**83.84**	**96.41**
29-Aug-15 13:00:00	29-Aug-15 14:00:00		0.75	0.00	0.00	4.33	2.1	329.7		0.25	0.00	0.00	1.43		10.35	18.92	83.84	86.68	29-Aug-15 13:00:00		**10.60**	**18.92**	**83.84**	**88.11**
29-Aug-15 14:00:00	29-Aug-15 15:00:00		10.14	0.00	0.00	4.26	2.1	329.7		3.34	0.00	0.00	1.40		10.35	18.92	83.84	86.68	29-Aug-15 14:00:00		**13.69**	**18.92**	**83.84**	**88.08**
29-Aug-15 15:00:00	29-Aug-15 16:00:00		0.24	0.00	0.00	4.18	2.1	329.7		0.08	0.00	0.00	1.38		10.35	18.92	83.84	86.68	29-Aug-15 15:00:00		**10.43**	**18.92**	**83.84**	**88.06**
29-Aug-15 16:00:00	29-Aug-15 17:00:00		0.43	0.00	0.00	7.37	2.1	329.7		0.14	0.00	0.00	2.43		10.35	18.92	83.84	86.68	29-Aug-15 16:00:00		**10.49**	**18.92**	**83.84**	**89.11**
29-Aug-15 17:00:00	29-Aug-15 18:00:00		0.75	0.00	0.00	4.16	2.1	329.7		0.25	0.00	0.00	1.37		10.35	18.92	83.84	86.68	29-Aug-15 17:00:00		**10.60**	**18.92**	**83.84**	**88.05**
29-Aug-15 18:00:00	29-Aug-15 19:00:00		1.06	0.00	0.00	4.12	2.1	329.7		0.35	0.00	0.00	1.36		10.35	18.92	83.84	86.68	29-Aug-15 18:00:00		**10.70**	**18.92**	**83.84**	**88.04**
29-Aug-15 19:00:00	29-Aug-15 20:00:00		0.00	0.00	0.00	6.02	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	29-Aug-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.67**
29-Aug-15 20:00:00	29-Aug-15 21:00:00		0.00	0.00	0.00	4.15	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	29-Aug-15 20:00:00		**10.35**	**18.92**	**83.84**	**88.05**
29-Aug-15 21:00:00	29-Aug-15 22:00:00		0.00	0.00	0.00	4.93	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	29-Aug-15 21:00:00		**10.35**	**18.92**	**83.84**	**88.31**
29-Aug-15 22:00:00	29-Aug-15 23:00:00		0.49	0.00	0.00	24.78	2.1	329.7		0.16	0.00	0.00	8.17		10.35	18.92	83.84	86.68	29-Aug-15 22:00:00		**10.51**	**18.92**	**83.84**	**94.85**
29-Aug-15 23:00:00	30-Aug-15 00:00:00		1.93	0.00	0.00	5.95	2.1	329.7		0.64	0.00	0.00	1.96		10.35	18.92	83.84	86.68	29-Aug-15 23:00:00		**10.99**	**18.92**	**83.84**	**88.64**
30-Aug-15 00:00:00	30-Aug-15 01:00:00		1.35	0.00	0.00	5.76	2.1	329.7		0.44	0.00	0.00	1.90		10.35	18.92	83.84	86.68	30-Aug-15 00:00:00		**10.79**	**18.92**	**83.84**	**88.58**
30-Aug-15 01:00:00	30-Aug-15 02:00:00		16.93	0.00	0.00	5.56	2.1	329.7		5.58	0.00	0.00	1.83		10.35	18.92	83.84	86.68	30-Aug-15 01:00:00		**15.93**	**18.92**	**83.84**	**88.51**
30-Aug-15 02:00:00	30-Aug-15 03:00:00		21.83	0.00	0.00	5.28	2.1	329.7		7.20	0.00	0.00	1.74		10.35	18.92	83.84	86.68	30-Aug-15 02:00:00		**17.55**	**18.92**	**83.84**	**88.42**
30-Aug-15 03:00:00	30-Aug-15 04:00:00		22.05	0.00	0.00	5.02	2.1	329.7		7.27	0.00	0.00	1.65		10.35	18.92	83.84	86.68	30-Aug-15 03:00:00		**17.62**	**18.92**	**83.84**	**88.33**
30-Aug-15 04:00:00	30-Aug-15 05:00:00		21.89	0.00	0.00	6.83	2.1	329.7		7.22	0.00	0.00	2.25		10.35	18.92	83.84	86.68	30-Aug-15 04:00:00		**17.57**	**18.92**	**83.84**	**88.93**
30-Aug-15 05:00:00	30-Aug-15 06:00:00		21.74	0.00	0.00	4.98	2.1	329.7		7.17	0.00	0.00	1.64		10.35	18.92	83.84	86.68	30-Aug-15 05:00:00		**17.52**	**18.92**	**83.84**	**88.32**
30-Aug-15 06:00:00	30-Aug-15 07:00:00		21.59	0.00	0.00	4.87	2.1	329.7		7.12	0.00	0.00	1.61		10.35	18.92	83.84	86.68	30-Aug-15 06:00:00		**17.47**	**18.92**	**83.84**	**88.29**
30-Aug-15 07:00:00	30-Aug-15 08:00:00		21.43	0.00	0.00	4.77	2.1	329.7		7.07	0.00	0.00	1.57		10.35	18.92	83.84	86.68	30-Aug-15 07:00:00		**17.42**	**18.92**	**83.84**	**88.25**
30-Aug-15 08:00:00	30-Aug-15 09:00:00		21.28	0.00	0.00	4.66	2.1	329.7		7.02	0.00	0.00	1.54		10.35	18.92	83.84	86.68	30-Aug-15 08:00:00		**17.37**	**18.92**	**83.84**	**88.22**
30-Aug-15 09:00:00	30-Aug-15 10:00:00		21.13	0.00	0.00	4.

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
01-Sep-15 07:00:00	01-Sep-15 08:00:00		21.04	0.00	0.00	4.64	2.1	329.7		6.94	0.00	0.00	1.53		10.35	18.92	83.84	86.68	01-Sep-15 07:00:00		17.29	18.92	83.84	88.21
01-Sep-15 08:00:00	01-Sep-15 09:00:00		17.75	0.00	0.00	4.64	2.1	329.7		5.85	0.00	0.00	1.53		10.35	18.92	83.84	86.68	01-Sep-15 08:00:00		16.20	18.92	83.84	88.21
01-Sep-15 09:00:00	01-Sep-15 10:00:00		17.16	0.00	0.00	6.94	2.1	329.7		5.66	0.00	0.00	2.29		10.35	18.92	83.84	86.68	01-Sep-15 09:00:00		16.01	18.92	83.84	88.97
01-Sep-15 10:00:00	01-Sep-15 11:00:00		13.28	0.00	0.00	4.44	2.1	329.7		4.38	0.00	0.00	1.46		10.35	18.92	83.84	86.68	01-Sep-15 10:00:00		14.73	18.92	83.84	88.14
01-Sep-15 11:00:00	01-Sep-15 12:00:00		18.69	0.00	0.00	6.76	2.1	329.7		6.16	0.00	0.00	2.23		10.35	18.92	83.84	86.68	01-Sep-15 11:00:00		16.51	18.92	83.84	88.91
01-Sep-15 12:00:00	01-Sep-15 13:00:00		6.33	0.00	0.00	4.13	2.1	329.7		2.09	0.00	0.00	1.36		10.35	18.92	83.84	86.68	01-Sep-15 12:00:00		12.44	18.92	83.84	88.04
01-Sep-15 13:00:00	01-Sep-15 14:00:00		2.46	0.00	0.00	5.20	2.1	329.7		0.81	0.00	0.00	1.72		10.35	18.92	83.84	86.68	01-Sep-15 13:00:00		11.16	18.92	83.84	88.40
01-Sep-15 14:00:00	01-Sep-15 15:00:00		4.40	0.00	0.00	3.59	2.1	329.7		1.45	0.00	0.00	1.18		10.35	18.92	83.84	86.68	01-Sep-15 14:00:00		11.80	18.92	83.84	87.86
01-Sep-15 15:00:00	01-Sep-15 16:00:00		7.87	0.00	0.00	3.45	2.1	329.7		2.60	0.00	0.00	1.14		10.35	18.92	83.84	86.68	01-Sep-15 15:00:00		12.95	18.92	83.84	87.82
01-Sep-15 16:00:00	01-Sep-15 17:00:00		5.21	0.00	0.00	3.30	2.1	329.7		1.72	0.00	0.00	1.09		10.35	18.92	83.84	86.68	01-Sep-15 16:00:00		12.07	18.92	83.84	87.77
01-Sep-15 17:00:00	01-Sep-15 18:00:00		5.77	0.00	0.00	13.89	2.1	329.7		1.90	0.00	0.00	4.58		10.35	18.92	83.84	86.68	01-Sep-15 17:00:00		12.25	18.92	83.84	91.26
01-Sep-15 18:00:00	01-Sep-15 19:00:00		17.47	0.00	0.00	3.44	2.1	329.7		5.76	0.00	0.00	1.13		10.35	18.92	83.84	86.68	01-Sep-15 18:00:00		16.11	18.92	83.84	87.81
01-Sep-15 19:00:00	01-Sep-15 20:00:00		14.28	0.00	0.00	11.68	2.1	329.7		4.71	0.00	0.00	3.85		10.35	18.92	83.84	86.68	01-Sep-15 19:00:00		15.06	18.92	83.84	90.53
01-Sep-15 20:00:00	01-Sep-15 21:00:00		5.44	0.00	0.00	5.59	2.1	329.7		1.79	0.00	0.00	1.84		10.35	18.92	83.84	86.68	01-Sep-15 20:00:00		12.14	18.92	83.84	88.52
01-Sep-15 21:00:00	01-Sep-15 22:00:00		0.62	0.00	0.00	25.98	2.1	329.7		0.21	0.00	0.00	8.57		10.35	18.92	83.84	86.68	01-Sep-15 21:00:00		10.56	18.92	83.84	95.25
01-Sep-15 22:00:00	01-Sep-15 23:00:00		1.04	0.00	0.00	9.43	2.1	329.7		0.34	0.00	0.00	3.11		10.35	18.92	83.84	86.68	01-Sep-15 22:00:00		10.69	18.92	83.84	89.79
01-Sep-15 23:00:00	02-Sep-15 00:00:00		7.20	0.00	0.00	4.17	2.1	329.7		2.37	0.00	0.00	1.37		10.35	18.92	83.84	86.68	01-Sep-15 23:00:00		12.72	18.92	83.84	88.05
02-Sep-15 00:00:00	02-Sep-15 01:00:00		8.00	0.00	0.00	6.96	2.1	329.7		2.64	0.00	0.00	2.30		10.35	18.92	83.84	86.68	02-Sep-15 00:00:00		12.99	18.92	83.84	88.98
02-Sep-15 01:00:00	02-Sep-15 02:00:00		8.01	0.00	0.00	4.29	2.1	329.7		2.64	0.00	0.00	1.41		10.35	18.92	83.84	86.68	02-Sep-15 01:00:00		12.99	18.92	83.84	88.09
02-Sep-15 02:00:00	02-Sep-15 03:00:00		16.85	0.00	0.00	28.50	2.1	329.7		5.55	0.00	0.00	9.39		10.35	18.92	83.84	86.68	02-Sep-15 02:00:00		15.90	18.92	83.84	96.07
02-Sep-15 03:00:00	02-Sep-15 04:00:00		19.99	0.00	0.00	4.61	2.1	329.7		6.59	0.00	0.00	1.52		10.35	18.92	83.84	86.68	02-Sep-15 03:00:00		16.94	18.92	83.84	88.20
02-Sep-15 04:00:00	02-Sep-15 05:00:00		15.62	0.00	0.00	19.18	2.1	329.7		5.15	0.00	0.00	6.32		10.35	18.92	83.84	86.68	02-Sep-15 04:00:00		15.50	18.92	83.84	93.00
02-Sep-15 05:00:00	02-Sep-15 06:00:00		10.08	0.00	0.00	4.85	2.1	329.7		3.32	0.00	0.00	1.60		10.35	18.92	83.84	86.68	02-Sep-15 05:00:00		13.67	18.92	83.84	88.28
02-Sep-15 06:00:00	02-Sep-15 07:00:00		10.79	0.00	0.00	8.07	2.1	329.7		3.56	0.00	0.00	2.66		10.35	18.92	83.84	86.68	02-Sep-15 06:00:00		13.91	18.92	83.84	89.34
02-Sep-15 07:00:00	02-Sep-15 08:00:00		28.11	0.00	0.00	5.22	2.1	329.7		9.27	0.00	0.00	1.72		10.35	18.92	83.84	86.68	02-Sep-15 07:00:00		19.62	18.92	83.84	88.40
02-Sep-15 08:00:00	02-Sep-15 09:00:00		26.36	0.00	0.00	5.80	2.1	329.7		8.69	0.00	0.00	1.91		10.35	18.92	83.84	86.68	02-Sep-15 08:00:00		19.04	18.92	83.84	88.59
02-Sep-15 09:00:00	02-Sep-15 10:00:00		26.90	0.00	0.00	6.37	2.1	329.7		8.87	0.00	0.00	2.10		10.35	18.92	83.84	86.68	02-Sep-15 09:00:00		19.22	18.92	83.84	88.78
02-Sep-15 10:00:00	02-Sep-15 11:00:00		21.24	0.00	0.00	56.25	2.1	329.7		7.00	0.00	0.00	18.55		10.35	18.92	83.84	86.68	02-Sep-15 10:00:00		17.35	18.92	83.84	105.23
02-Sep-15 11:00:00	02-Sep-15 12:00:00		16.25	0.00	0.00	3.87	2.1	329.7		5.36	0.00	0.00	1.28		10.35	18.92	83.84	86.68	02-Sep-15 11:00:00		15.71	18.92	83.84	87.96
02-Sep-15 12:00:00	02-Sep-15 13:00:00		4.20	0.00	0.00	6.01	2.1	329.7		1.38	0.00	0.00	1.98		10.35	18.92	83.84	86.68	02-Sep-15 12:00:00		11.73	18.92	83.84	88.66
02-Sep-15 13:00:00	02-Sep-15 14:00:00		1.87	0.00	0.00	3.53	2.1	329.7		0.62	0.00	0.00	1.16		10.35	18.92	83.84	86.68	02-Sep-15 13:00:00		10.97	18.92	83.84	87.84
02-Sep-15 14:00:00	02-Sep-15 15:00:00		13.97	0.00	0.00	3.54	2.1	329.7		4.60	0.00	0.00	1.17		10.35	18.92	83.84	86.68	02-Sep-15 14:00:00		14.95	18.92	83.84	87.85
02-Sep-15 15:00:00	02-Sep-15 16:00:00		13.85	0.00	0.00	3.55	2.1	329.7		4.56	0.00	0.00	1.17		10.35	18.92	83.84	86.68	02-Sep-15 15:00:00		14.91	18.92	83.84	87.85
02-Sep-15 16:00:00	02-Sep-15 17:00:00		0.01	0.00	0.00	3.55	2.1	329.7		0.00	0.00	0.00	1.17		10.35	18.92	83.84	86.68	02-Sep-15 16:00:00		10.35	18.92	83.84	87.85
02-Sep-15 17:00:00	02-Sep-15 18:00:00		0.00	0.00	0.00	28.66	2.1	329.7		0.00	0.00	0.00	9.45		10.35	18.92	83.84	86.68	02-Sep-15 17:00:00		10.35	18.92	83.84	96.13
02-Sep-15 18:00:00	02-Sep-15 19:00:00		0.00	0.00	0.00	3.43	2.1	329.7		0.00	0.00	0.00	1.13		10.35	18.92	83.84	86.68	02-Sep-15 18:00:00		10.35	18.92	83.84	87.81
02-Sep-15 19:00:00	02-Sep-15 20:00:00		0.00	0.00	0.00	5.28	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	02-Sep-15 19:00:00		10.35	18.92	83.84	88.42
02-Sep-15 20:00:00	02-Sep-15 21:00:00		0.00	0.00	0.00	3.48	2.1	329.7		0.00	0.00	0.00	1.15		10.35	18.92	83.84	86.68	02-Sep-15 20:00:00		10.35	18.92	83.84	87.83
02-Sep-15 21:00:00	02-Sep-15 22:00:00		0.00	0.00	0.00	26.62	2.1	329.7		0.00	0.00	0.00	8.78		10.35	18.92	83.84	86.68	02-Sep-15 21:00:00		10.35	18.92	83.84	95.46
02-Sep-15 22:00:00	02-Sep-15 23:00:00		0.05	0.00	0.00	3.89	2.1	329.7		0.02	0.00	0.00	1.28		10.35	18.92	83.84	86.68	02-Sep-15 22:00:00		10.37	18.92	83.84	87.96
02-Sep-15 23:00:00	03-Sep-15 00:00:00		0.00	0.00	0.00	60.35	2.1	329.7		0.00	0.00	0.00	19.90		10.35	18.92	83.84	86.68	02-Sep-15 23:00:00		10.35	18.92	83.84	106.58
03-Sep-15 00:00:00	03-Sep-15 01:00:00		0.00	0.00	0.00	4.07	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	03-Sep-15 00:00:00		10.35	18.92	83.84	88.02
03-Sep-15 01:00:00	03-Sep-15 02:00:00		0.00	0.00	0.00	6.20	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	03-Sep-15 01:00:00		10.35	18.92	83.84	88.73
03-Sep-15 02:00:00	03-Sep-15 03:00:00		0.00	0.00	0.00	4.19	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	03-Sep-15 02:00:00		10.35	18.92	83.84	88.06
03-Sep-15 03:00:00	03-Sep-15 04:00:00		5.24	0.00	0.00	6.79	2.1	329.7		1.73	0.00	0.00	2.24		10.35	18.92	83.84	86.68	03-Sep-15 03:00:00		12.08	18.92	83.84	88.92
03-Sep-15 04:00:00	03-Sep-15 05:00:00		26.01	0.00	0.00	4.58	2.1	329.7		8.57	0.00	0.00	1.51		10.35	18.92	83.84	86.68	03-Sep-15 04:00:00		18.92	18.92	83.84	88.19
03-Sep-15 05:00:00	03-Sep-15 06:00:00		14.75	0.00	0.00	5.66	2.1	329.7		4.86	0.00	0.00	1.87		10.35	18.92	83.84	86.68	03-Sep-15 05:00:00		15.21	18.92	83.84	88.55
03-Sep-15 06:00:00	03-Sep-15 07:00:00		18.53	0.00	0.00	4.72	2.1	329.7		6.11	0.00	0.00	1.55		10.35	18.92	83.84	86.68	03-Sep-15 06:00:00		16.46	18.92	83.84	88.23
03-Sep-15 07:00:00	03-Sep-15 08:00:00		0.35	0.00	0.00	13.34	2.1	329.7		0.12	0.00	0.00	4.40		10.35	18.92	83.84	86.68	03-Sep-15 07:00:00		10.47	18.92	83.84	91.08
03-Sep-15 08:00:00	03-Sep-15 09:00:00		9.19	0.00	0.00	4.63	2.1	329.7		3.03	0.00	0.00	1.53		10.35	18.92	83.84	86.68	03-Sep-15 08:00:00		13.38	18.92	83.84	88.21
03-Sep-15 09:00:00	03-Sep-15 10:00:00		29.08	0.00	0.00	4.55	2.1	329.7		9.59	0.00	0.00	1.50		10.35	18.92	83.84	86.68	03-Sep-15 09:00:00		19.94	18.92	83.84	88.18
03-Sep-15 10:00:00	03-Sep-15 11:00:00		24.99	0.00	0.00	4.59	2.1	329.7		8.24	0.00	0.00	1.51		10.35	18.92	83.84	86.68	03-Sep-15 10:00:00		18.59	18.92	83.84	88.19
03-Sep-15 11:00:00	03-Sep-15 12:00:00		9.60	0.00	0.00	3.94	2.1	329.7		3.17	0.00	0.00	1.30		10.35	18.92	83.84	86.68	03-Sep-15 11:00:00		13.52	18.92	83.84	87.98
03-Sep-15 12:00:00	03-Sep-15 13:00:00		2.22	0.00	0.00	6.82	2.1	329.7		0.73	0.00	0.00	2.25		10.35	18.92	83.84	86.68	03-Sep-15 12:00:00		11.08	18.92	83.84	88.93
03-Sep-15 13:00:00	03-Sep-15 14:00:00		4.59	0.00	0.00	3.96	2.1	329.7		1.51	0.00	0.00	1.31		10.35	18.92	83.84	86.68	03-Sep-15 13:00:00		11.86	18.92	83.84	87.99
03-Sep-15 14:00:00	03-Sep-15 15:00:00		0.00	0.00	0.00	10.51	2.1	329.7		0.00	0.00	0.00	3.46		10.35	18.92	83.84	86.68	03-Sep-15 14:00:00		10.35	18.92	83.84	90.14
03-Sep-15 15:00:00	03-Sep-15 16:00:00		0.00	0.00	0.00	5.31	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	03-Sep-15 15:00:00		10.35	18.92	83.84	88.43
03-Sep-15 16:00:00	03-Sep-15 17:00:00		2.69	0.00	0.00	4.22	2.1	329.7		0.89	0.00	0.00	1.39		10.35	18.92	83.84	86.68	03-Sep-15 16:00:00		11.24	18.92	83.84	88.07
03-Sep-15 17:00:00	03-Sep-15 18:00:00		6.42	0.00	0.00	10.84	2.1	329.7		2.12	0.00	0.00	3.57		10.35	18.92	83.84	86.68	03-Sep-15 17:00:00		12.47	18.92	83.84	90.25
03-Sep-15 18:00:00	03-Sep-15 19:00:00		17.17	0.00	0.00	3.46	2.1	329.7		5.66	0.00	0.00	1.14		10.35	18.92	83.84	86.68	03-Sep-15 18:00:00		16.01	18.92	83.84	87.82
03-Sep-15 19:00:00	03-Sep-15 20:00:00		5.91	0.00	0.00	6.30	2.1	329.7		1.95	0.00	0.00	2.08		10.35	18.92	83.84	86.68	03-Sep-15 19:00:00		12.30	18.92	83.84	88.76
03-Sep-15 20:00:00	03-Sep-15 21:00:00		2.61	0.00	0.00	3.79	2.1	329.7		0.86	0.00	0.00	1.25		10.35	18.92	83.84	86.68	03-Sep-15 20:00:00		11.21	18.92	83.84	87.93
03-Sep-15 21:00:00	03-Sep-15 22:00:00		2.72	0.00	0.00	7.81	2.1	329.7		0.90	0.00	0.00	2.57		10.35	18.92	83.84	86.68	03-Sep-15 21:00:00		11.25	18.92	83.84	89.25
03-Sep-15 22:00:00	03-Sep-15 23:00:00		3.40	0.00	0.00	4.37	2.1	329.7		1.12	0.00	0.00	1.44		10.35	18.92	83.84	86.68	03-Sep-15 22:00:00		11.47	18.92	83.84	88.12
03-Sep-15 23:00:00	04-Sep-15 00:00:00		4.08	0.00	0.00	11.37	2.1	329.7		1.35	0.00	0.00	3.75		10.35	18.92	83.84	86.68	03-Sep-15 23:00:00		11.70	18.92	83.84	90.43
04-Sep-15 00:00:00	04-Sep-15 01:00:00		5.53	0.00	0.00	4.76	2.1	329.7		1.82	0.00	0.00	1.57		10.35	18.92	83.84	86.68	04-Sep-15 00:00:00		12.17	18.92	83.84	88.25
04-Sep-15 01:00:00	04-Sep-15 02:00:00		8.58	0.00	0.00	33.22	2.1	329.7		2.83	0.00	0.00	10.95		10.35	18.92	83.84	86.68	04-Sep-15 01:00:00		13.18	18.92	83.84	97.63
04-Sep-15 02:00:00	04-Sep-15 03:00:00		28.83	0.00	0.00	5.70	2.1	329.7		9.50	0.00	0.00	1.88		10.35	18.92	83.84	86.68	04-Sep-15 02:00:00		19.85	18.92	83.84	88.56
04-Sep-15 03:00:00	04-Sep-15 04:00:00		53.72	0.00	0.00	6.66	2.1	329.7		17.71	0.00	0.00	2.19		10.35	18.92	83.84	86.68	04-Sep-15 03:00:00		28.06	18.92	83.84	88.87
04-Sep-15 04:00:00	04-Sep-15 05:00:00		48.85	0.00	0.00	6.71	2.1	329.7		16.11	0.00	0.00	2.21		10.35	18.92	83.84	86.68	04-Sep-15 04:00:00		26.46	18.92	83.84	88.89
04-Sep-15 05:00:00	04-Sep-15 06:00:00		40.25	0.00	0.00	5.03	2.1	329.7		13.27	0.00	0.00	1.66		10.35	18.92	83.84	86.68	04-Sep-15 05:00:00		23.62	18.92	83.84	88.34
04-Sep-15 06:00:00	04-Sep-15 07:00:00		37.84	0.00	0.00	5.14	2.1	329.7		12.48	0.00	0.00	1.70		10.35	18.92	83.84	86.68	04-Sep-15 06:00:00		22.83	18.92	83.84	88.38
04-Sep-15 07:00:00	04-Sep-15 08:00:00		43.11	0.00	0.00	6.27	2.1	329.7		14.21	0.00	0.00	2.07		10.35	18.92	83.84	86.68	04-Sep-15 07:00:00		24.56	18.92	83.84	88.75
04-Sep-15 08:00:00	04-Sep-15 09:00:00		46.75	0.00	0.00	44.27	2.1	329.7		15.41	0.00	0.00	14.59		10.35	18.92	83.84	86.68	04-Sep-15 08:00:00		25.76	18.92	83.84	101.27
04-Sep-15 09:00:00	04-Sep-15 10:00:00		42.84	0.00	0.00	24.86	2.1	329.7		14.13	0.00	0.00	8.20		10.35	18.92	83.84	86.68	04-Sep-15 09:00:00		24.48	18.92	83.84	94.88
04-Sep-15 10:00:00	04-Sep-15 11:00:00		43.05	0.00	0.00	5.60	2.1	329.7		14.19	0.00	0.00	1.85		10.35	18.92	83.84	86.68	04-Sep-15 10:00:00		24.54	18.92	83.84	88.53
04-Sep-15 11:00:00	04-Sep-15 12:00:00		8.38	0.00	0.00	22.30	2.1	329.7		2.76	0.00	0.00	7.35		10.35	18.92	83.84	86.68	04-Sep-15 11:00:00		13.11	18.92	83.84	94.03
04-Sep-15 12:00:00	04-Sep-15 13:00:00		2.32	0.00	0.00	3.73	2.1	329.7		0.76	0.00	0.00	1.23		10.35	18.92	83.84	86.68	04-Sep-15 12:00:00		11.11	18.92	83.84	87.91
04-Sep-15 13:00:00	04-Sep-15 14:00:00		1.97	0.00	0.00	11.17	2.1	329.7		0.65	0.00	0.00	3.68		10.35	18.92	83.84	86.68	04-Sep-15 13:00:00		11.00	18.92	83.84	90.36
04-Sep-15 14:00:00	04-Sep-15 15:00:00		2.25	0.00	0.00	9.51	2.1	329.7		0.74	0.00	0.00	3.13		10.35	18.92	83.84	86.68	04-Sep-15 14:00:00		11.09	18.92	83.84	89.81
04-Sep-15 15:00:00	04-Sep-15 16:00:00		2.81	0.00	0.00	3.55	2.1	329.7		0.93	0.00	0.00	1.17		10.35	18.92	83.84	86.68	04-Sep-15 15:00:00		11.28	18.92	83.84	87.85
04-Sep-15 16:00:00	04-Sep-15 17:00:00		0.33	0.00	0.00	6.39	2.1	329.7		0.11	0.00	0.00	2.11		10.35	18.92	83.84	86.68	04-Sep-15 16:00:00		10.46	18.92	83.84	88.79
04-Sep-15 17:00:00	04-Sep-15 18:00:00		2.38	0.00	0.00	3.59	2.1	329.7		0.79	0.00	0.00	1.19		10.35	18.92	83.84	86.68	04-Sep-15 17:00:00		11.14	18.92	83.84	87.87
04-Sep-15 18:00:00	04-Sep-15 19:00:00		0.00	0.00	0.00	3.83	2.1	329.7		0.00	0.00	0.00	1.26		10.35	18.92	83.84	86.68	04-Sep-15 18:00:00		10.35	18.92	83.84	87.94
04-Sep-15 19:00:00	04-Sep-15 20:00:00		2.77	0.00	0.00	4.06	2.1	329.7		0.91	0.00	0.00	1.34		10.35	18.92	83.84	86.68	04-Sep-15 19:00:00		11.26	18.92	83.84	88.02
04-Sep-15 20:00:00	04-Sep-15 21:00:00		5.98	0.00	0.00	15.64	2.1	329.7		1.97	0.00	0.00	5.16		10.35	18.92	83.84	86.68	04-Sep-15 20:00:00		12.32	18.92	83.84	91.84
04-Sep-15 21:00:00	04-Sep-15 22:00:00		0.64	0.00	0.00	4.48	2.1	329.7		0.21	0.00	0.00	1.48		10.35	18.92	83.84	86.68	04-Sep-15 21:00:00		10.56	18.92	83.84	88.16
04-Sep-15 22:00:00	04-Sep-15 23:00:00		0.27	0.00	0.00	7.11	2.1	329.7		0.09	0.00	0.00	2.35		10.35	18.92	83.84	86.68	04-Sep-15 22:00:00		10.44	18.92	83.84	89.03
04-Sep-15 23:00:00	05-Sep-15 00:00:00		0.87	0.00	0.00	7.43	2.1	329.7		0.29	0.00	0.00	2.45		10.35	18.92	83.84	86.68	04-Sep-15 23:00:00		10.64	18.92	83.84	89.13
05-Sep-15 00:00:00	05-Sep-15 01:00:00		1.08	0.00	0.00	4.86	2.1	329.7		0.36	0.00	0.00	1.60		10.35	18.92	83.84	86.68	05-Sep-15 00:00:00		10.71	18.92	83.84	88.28
05-Sep-15 01:00:00	05-Sep-15 02:00:00		0.71	0.00	0.00	5.07	2.1	329.7		0.24	0.00	0.00	1.67		10.35	18.92	83.84	86.68	05-Sep-15 01:00:00		10.59	18.92	83.84	88.35
05-Sep-15 02:00:00	05-Sep-15 03:00:00		1.50	0.00	0.00	7.95	2.1	329.7		0.49	0.00	0.00	2.62		10.35	18.92	83.84	86.68	05-Sep-15 02:00:00		10.84	18.92	83.84	89.30
05-Sep-15 03:00:00	05-Sep-15 04:00:00		14.25	0.00	0.00	16.18	2.1	329.7		4.70	0.00	0.00	5.33		10.35	18.92	83.84	86.68	05-Sep-15 03:00:00		15.05	18.92	83.84	92.01
05-Sep-15 04:00:00	05-Sep-15 05:00:00		28.55	0.00	0.00	5.

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
07-Sep-15 02:00:00	07-Sep-15 03:00:00		25.45	0.00	0.00	4.95	2.1	329.7		8.39	0.00	0.00	1.63		10.35	18.92	83.84	86.68	07-Sep-15 02:00:00		**18.74**	**18.92**	**83.84**	**88.31**
07-Sep-15 03:00:00	07-Sep-15 04:00:00		29.14	0.00	0.00	12.93	2.1	329.7		9.61	0.00	0.00	4.26		10.35	18.92	83.84	86.68	07-Sep-15 03:00:00		**19.96**	**18.92**	**83.84**	**90.94**
07-Sep-15 04:00:00	07-Sep-15 05:00:00		37.82	0.00	0.00	52.57	2.1	329.7		12.47	0.00	0.00	17.33		10.35	18.92	83.84	86.68	07-Sep-15 04:00:00		**22.82**	**18.92**	**83.84**	**104.01**
07-Sep-15 05:00:00	07-Sep-15 06:00:00		16.56	0.00	11.81	5.12	2.1	329.7		5.46	0.00	3.89	1.69		10.35	18.92	83.84	86.68	07-Sep-15 05:00:00		**15.81**	**18.92**	**87.73**	**88.37**
07-Sep-15 06:00:00	07-Sep-15 07:00:00		12.65	0.00	0.00	5.47	2.1	329.7		4.17	0.00	0.00	1.80		10.35	18.92	83.84	86.68	07-Sep-15 06:00:00		**14.52**	**18.92**	**83.84**	**88.48**
07-Sep-15 07:00:00	07-Sep-15 08:00:00		12.59	0.00	0.00	5.03	2.1	329.7		4.15	0.00	0.00	1.66		10.35	18.92	83.84	86.68	07-Sep-15 07:00:00		**14.50**	**18.92**	**83.84**	**88.34**
07-Sep-15 08:00:00	07-Sep-15 09:00:00		10.95	0.00	0.00	4.92	2.1	329.7		3.61	0.00	0.00	1.62		10.35	18.92	83.84	86.68	07-Sep-15 08:00:00		**13.96**	**18.92**	**83.84**	**88.30**
07-Sep-15 09:00:00	07-Sep-15 10:00:00		9.97	0.00	0.00	6.70	2.1	329.7		3.29	0.00	0.00	2.21		10.35	18.92	83.84	86.68	07-Sep-15 09:00:00		**13.64**	**18.92**	**83.84**	**88.89**
07-Sep-15 10:00:00	07-Sep-15 11:00:00		9.52	0.00	0.00	10.47	2.1	329.7		3.14	0.00	0.00	3.45		10.35	18.92	83.84	86.68	07-Sep-15 10:00:00		**13.49**	**18.92**	**83.84**	**90.13**
07-Sep-15 11:00:00	07-Sep-15 12:00:00		9.50	0.00	0.00	7.38	2.1	329.7		3.13	0.00	0.00	2.43		10.35	18.92	83.84	86.68	07-Sep-15 11:00:00		**13.48**	**18.92**	**83.84**	**89.11**
07-Sep-15 12:00:00	07-Sep-15 13:00:00		9.39	0.00	0.00	4.37	2.1	329.7		3.10	0.00	0.00	1.44		10.35	18.92	83.84	86.68	07-Sep-15 12:00:00		**13.45**	**18.92**	**83.84**	**88.12**
07-Sep-15 13:00:00	07-Sep-15 14:00:00		14.12	0.00	0.00	18.95	2.1	329.7		4.65	0.00	0.00	6.25		10.35	18.92	83.84	86.68	07-Sep-15 13:00:00		**15.00**	**18.92**	**83.84**	**92.93**
07-Sep-15 14:00:00	07-Sep-15 15:00:00		15.28	0.00	0.00	4.22	2.1	329.7		5.04	0.00	0.00	1.39		10.35	18.92	83.84	86.68	07-Sep-15 14:00:00		**15.39**	**18.92**	**83.84**	**88.07**
07-Sep-15 15:00:00	07-Sep-15 16:00:00		9.04	0.00	0.00	4.11	2.1	329.7		2.98	0.00	0.00	1.36		10.35	18.92	83.84	86.68	07-Sep-15 15:00:00		**13.33**	**18.92**	**83.84**	**88.04**
07-Sep-15 16:00:00	07-Sep-15 17:00:00		53.20	0.00	0.00	6.19	2.1	329.7		17.54	0.00	0.00	2.04		10.35	18.92	83.84	86.68	07-Sep-15 16:00:00		**27.89**	**18.92**	**83.84**	**88.72**
07-Sep-15 17:00:00	07-Sep-15 18:00:00		607.53	0.00	0.00	4.01	2.1	329.7		200.30	0.00	0.00	1.32		10.35	18.92	83.84	86.68	07-Sep-15 17:00:00		**210.65**	**18.92**	**83.84**	**88.00**
07-Sep-15 18:00:00	07-Sep-15 19:00:00		746.34	0.00	0.00	6.44	2.1	329.7		246.07	0.00	0.00	2.12		10.35	18.92	83.84	86.68	07-Sep-15 18:00:00		**256.42**	**18.92**	**83.84**	**88.80**
07-Sep-15 19:00:00	07-Sep-15 20:00:00		1,027.71	0.00	0.00	4.41	2.1	329.7		338.83	0.00	0.00	1.45		10.35	18.92	83.84	86.68	07-Sep-15 19:00:00		**349.18**	**18.92**	**83.84**	**88.13**
07-Sep-15 20:00:00	07-Sep-15 21:00:00		1,102.57	0.00	0.00	6.81	2.1	329.7		363.52	0.00	0.00	2.24		10.35	18.92	83.84	86.68	07-Sep-15 20:00:00		**373.87**	**18.92**	**83.84**	**88.92**
07-Sep-15 21:00:00	07-Sep-15 22:00:00		1,188.80	0.00	0.00	4.46	2.1	329.7		391.95	0.00	0.00	1.47		10.35	18.92	83.84	86.68	07-Sep-15 21:00:00		**402.30**	**18.92**	**83.84**	**88.15**
07-Sep-15 22:00:00	07-Sep-15 23:00:00		1,295.99	112.31	0.00	10.32	2.1	329.7		427.29	37.03	0.00	3.40		10.35	18.92	83.84	86.68	07-Sep-15 22:00:00		**437.64**	**55.95**	**83.84**	**90.08**
07-Sep-15 23:00:00	08-Sep-15 00:00:00		1,270.73	581.67	0.00	4.64	2.1	329.7		418.96	191.78	0.00	1.53		10.35	18.92	83.84	86.68	07-Sep-15 23:00:00		**429.31**	**210.70**	**83.84**	**88.21**
08-Sep-15 00:00:00	08-Sep-15 01:00:00		1,272.56	849.52	0.00	30.53	2.1	329.7		419.56	280.09	0.00	10.07		10.35	18.92	83.84	86.68	08-Sep-15 00:00:00		**429.91**	**299.01**	**83.84**	**96.75**
08-Sep-15 01:00:00	08-Sep-15 02:00:00		1,299.34	856.16	0.00	5.33	2.1	329.7		428.39	282.28	0.00	1.76		10.35	18.92	83.84	86.68	08-Sep-15 01:00:00		**438.74**	**301.20**	**83.84**	**88.44**
08-Sep-15 02:00:00	08-Sep-15 03:00:00		1,285.63	850.36	0.00	27.44	2.1	329.7		423.87	280.36	0.00	9.05		10.35	18.92	83.84	86.68	08-Sep-15 02:00:00		**434.22**	**299.28**	**83.84**	**95.73**
08-Sep-15 03:00:00	08-Sep-15 04:00:00		1,240.14	847.46	0.00	4.82	2.1	329.7		408.87	279.41	0.00	1.59		10.35	18.92	83.84	86.68	08-Sep-15 03:00:00		**419.22**	**298.33**	**83.84**	**88.27**
08-Sep-15 04:00:00	08-Sep-15 05:00:00		1,249.06	848.71	0.00	14.06	2.1	329.7		411.82	279.82	0.00	4.64		10.35	18.92	83.84	86.68	08-Sep-15 04:00:00		**422.17**	**298.74**	**83.84**	**91.32**
08-Sep-15 05:00:00	08-Sep-15 06:00:00		1,277.51	850.90	0.00	4.84	2.1	329.7		421.20	280.54	0.00	1.60		10.35	18.92	83.84	86.68	08-Sep-15 05:00:00		**431.55**	**299.46**	**83.84**	**88.28**
08-Sep-15 06:00:00	08-Sep-15 07:00:00		1,259.03	851.23	0.00	4.92	2.1	329.7		415.10	280.65	0.00	1.62		10.35	18.92	83.84	86.68	08-Sep-15 06:00:00		**425.45**	**299.57**	**83.84**	**88.30**
08-Sep-15 07:00:00	08-Sep-15 08:00:00		1,240.80	875.11	0.00	4.99	2.1	329.7		409.09	288.52	0.00	1.64		10.35	18.92	83.84	86.68	08-Sep-15 07:00:00		**419.44**	**307.44**	**83.84**	**88.32**
08-Sep-15 08:00:00	08-Sep-15 09:00:00		1,259.26	876.44	0.00	5.08	2.1	329.7		415.18	288.96	0.00	1.68		10.35	18.92	83.84	86.68	08-Sep-15 08:00:00		**425.53**	**307.88**	**83.84**	**88.36**
08-Sep-15 09:00:00	08-Sep-15 10:00:00		1,243.19	868.42	0.00	5.01	2.1	329.7		409.88	286.32	0.00	1.65		10.35	18.92	83.84	86.68	08-Sep-15 09:00:00		**420.23**	**305.24**	**83.84**	**88.33**
08-Sep-15 10:00:00	08-Sep-15 11:00:00		1,248.54	872.21	0.00	4.88	2.1	329.7		411.64	287.57	0.00	1.61		10.35	18.92	83.84	86.68	08-Sep-15 10:00:00		**421.99**	**306.49**	**83.84**	**88.29**
08-Sep-15 11:00:00	08-Sep-15 12:00:00		1,262.20	891.71	0.00	4.75	2.1	329.7		416.15	294.00	0.00	1.57		10.35	18.92	83.84	86.68	08-Sep-15 11:00:00		**426.50**	**312.92**	**83.84**	**88.25**
08-Sep-15 12:00:00	08-Sep-15 13:00:00		1,247.08	891.86	0.00	12.54	2.1	329.7		411.16	294.05	0.00	4.13		10.35	18.92	83.84	86.68	08-Sep-15 12:00:00		**421.51**	**312.97**	**83.84**	**90.81**
08-Sep-15 13:00:00	08-Sep-15 14:00:00		1,255.42	889.70	0.00	5.94	2.1	329.7		413.91	293.33	0.00	1.96		10.35	18.92	83.84	86.68	08-Sep-15 13:00:00		**424.26**	**312.25**	**83.84**	**88.64**
08-Sep-15 14:00:00	08-Sep-15 15:00:00		1,284.98	889.64	0.00	4.79	2.1	329.7		423.66	293.31	0.00	1.58		10.35	18.92	83.84	86.68	08-Sep-15 14:00:00		**434.01**	**312.23**	**83.84**	**88.26**
08-Sep-15 15:00:00	08-Sep-15 16:00:00		1,280.28	887.98	0.00	8.31	2.1	329.7		422.11	292.77	0.00	2.74		10.35	18.92	83.84	86.68	08-Sep-15 15:00:00		**432.46**	**311.69**	**83.84**	**89.42**
08-Sep-15 16:00:00	08-Sep-15 17:00:00		1,262.79	888.18	0.00	3.86	2.1	329.7		416.34	292.83	0.00	1.27		10.35	18.92	83.84	86.68	08-Sep-15 16:00:00		**426.69**	**311.75**	**83.84**	**87.95**
08-Sep-15 17:00:00	08-Sep-15 18:00:00		1,254.15	885.89	0.00	3.76	2.1	329.7		413.49	292.08	0.00	1.24		10.35	18.92	83.84	86.68	08-Sep-15 17:00:00		**423.84**	**311.00**	**83.84**	**87.92**
08-Sep-15 18:00:00	08-Sep-15 19:00:00		1,242.37	887.84	0.00	3.65	2.1	329.7		409.61	292.72	0.00	1.20		10.35	18.92	83.84	86.68	08-Sep-15 18:00:00		**419.96**	**311.64**	**83.84**	**87.88**
08-Sep-15 19:00:00	08-Sep-15 20:00:00		1,245.76	888.43	0.00	39.56	2.1	329.7		410.73	292.92	0.00	13.04		10.35	18.92	83.84	86.68	08-Sep-15 19:00:00		**421.08**	**311.84**	**83.84**	**99.72**
08-Sep-15 20:00:00	08-Sep-15 21:00:00		1,245.10	886.99	0.00	3.69	2.1	329.7		410.51	292.44	0.00	1.22		10.35	18.92	83.84	86.68	08-Sep-15 20:00:00		**420.86**	**311.36**	**83.84**	**87.90**
08-Sep-15 21:00:00	08-Sep-15 22:00:00		1,248.13	887.32	0.00	13.51	2.1	329.7		411.51	292.55	0.00	4.46		10.35	18.92	83.84	86.68	08-Sep-15 21:00:00		**421.86**	**311.47**	**83.84**	**91.14**
08-Sep-15 22:00:00	08-Sep-15 23:00:00		1,246.84	888.51	0.00	10.38	2.1	329.7		411.08	292.94	0.00	3.42		10.35	18.92	83.84	86.68	08-Sep-15 22:00:00		**421.43**	**311.86**	**83.84**	**90.10**
08-Sep-15 23:00:00	09-Sep-15 00:00:00		1,274.06	887.24	0.00	16.16	2.1	329.7		420.06	292.52	0.00	5.33		10.35	18.92	83.84	86.68	08-Sep-15 23:00:00		**430.41**	**311.44**	**83.84**	**92.01**
09-Sep-15 00:00:00	09-Sep-15 01:00:00		1,279.57	888.70	0.00	5.14	2.1	329.7		421.74	293.00	0.00	1.69		10.35	18.92	83.84	86.68	09-Sep-15 00:00:00		**432.09**	**311.92**	**83.84**	**88.37**
09-Sep-15 01:00:00	09-Sep-15 02:00:00		1,295.35	889.18	0.00	8.32	2.1	329.7		427.08	293.16	0.00	2.74		10.35	18.92	83.84	86.68	09-Sep-15 01:00:00		**437.43**	**312.08**	**83.84**	**89.42**
09-Sep-15 02:00:00	09-Sep-15 03:00:00		1,291.97	889.68	0.00	4.51	2.1	329.7		425.96	293.33	0.00	1.49		10.35	18.92	83.84	86.68	09-Sep-15 02:00:00		**436.31**	**312.25**	**83.84**	**88.17**
09-Sep-15 03:00:00	09-Sep-15 04:00:00		1,234.68	889.22	0.00	5.52	2.1	329.7		407.07	293.18	0.00	1.82		10.35	18.92	83.84	86.68	09-Sep-15 03:00:00		**417.42**	**312.10**	**83.84**	**88.50**
09-Sep-15 04:00:00	09-Sep-15 05:00:00		1,224.06	886.91	0.00	4.57	2.1	329.7		403.57	292.42	0.00	1.51		10.35	18.92	83.84	86.68	09-Sep-15 04:00:00		**413.92**	**311.34**	**83.84**	**88.19**
09-Sep-15 05:00:00	09-Sep-15 06:00:00		1,226.21	889.22	0.00	81.51	2.1	329.7		404.28	293.18	0.00	26.87		10.35	18.92	83.84	86.68	09-Sep-15 05:00:00		**414.63**	**312.10**	**83.84**	**113.55**
09-Sep-15 06:00:00	09-Sep-15 07:00:00		1,227.72	892.63	0.00	4.55	2.1	329.7		404.78	294.30	0.00	1.50		10.35	18.92	83.84	86.68	09-Sep-15 06:00:00		**415.13**	**313.22**	**83.84**	**88.18**
09-Sep-15 07:00:00	09-Sep-15 08:00:00		1,226.81	893.27	0.00	4.44	2.1	329.7		404.48	294.51	0.00	1.46		10.35	18.92	83.84	86.68	09-Sep-15 07:00:00		**414.83**	**313.43**	**83.84**	**88.14**
09-Sep-15 08:00:00	09-Sep-15 09:00:00		1,229.27	892.22	0.00	4.33	2.1	329.7		405.29	294.16	0.00	1.43		10.35	18.92	83.84	86.68	09-Sep-15 08:00:00		**415.64**	**313.08**	**83.84**	**88.11**
09-Sep-15 09:00:00	09-Sep-15 10:00:00		1,224.95	891.92	0.00	4.39	2.1	329.7		403.87	294.07	0.00	1.45		10.35	18.92	83.84	86.68	09-Sep-15 09:00:00		**414.22**	**312.99**	**83.84**	**88.13**
09-Sep-15 10:00:00	09-Sep-15 11:00:00		1,221.96	890.62	0.00	4.27	2.1	329.7		402.88	293.64	0.00	1.41		10.35	18.92	83.84	86.68	09-Sep-15 10:00:00		**413.23**	**312.56**	**83.84**	**88.09**
09-Sep-15 11:00:00	09-Sep-15 12:00:00		1,247.59	893.21	0.00	4.10	2.1	329.7		411.33	294.49	0.00	1.35		10.35	18.92	83.84	86.68	09-Sep-15 11:00:00		**421.68**	**313.41**	**83.84**	**88.03**
09-Sep-15 12:00:00	09-Sep-15 13:00:00		1,285.22	891.55	0.00	3.93	2.1	329.7		423.74	293.94	0.00	1.29		10.35	18.92	83.84	86.68	09-Sep-15 12:00:00		**434.09**	**312.86**	**83.84**	**87.97**
09-Sep-15 13:00:00	09-Sep-15 14:00:00		1,292.40	890.67	0.00	3.81	2.1	329.7		426.10	293.65	0.00	1.26		10.35	18.92	83.84	86.68	09-Sep-15 13:00:00		**436.45**	**312.57**	**83.84**	**87.94**
09-Sep-15 14:00:00	09-Sep-15 15:00:00		1,303.48	884.28	0.00	3.94	2.1	329.7		429.76	291.55	0.00	1.30		10.35	18.92	83.84	86.68	09-Sep-15 14:00:00		**440.11**	**310.47**	**83.84**	**87.98**
09-Sep-15 15:00:00	09-Sep-15 16:00:00		1,009.69	887.15	0.00	19.65	2.1	329.7		332.89	292.49	0.00	6.48		10.35	18.92	83.84	86.68	09-Sep-15 15:00:00		**343.24**	**311.41**	**83.84**	**93.16**
09-Sep-15 16:00:00	09-Sep-15 17:00:00		628.76	885.35	0.00	4.10	2.1	329.7		207.30	291.90	0.00	1.35		10.35	18.92	83.84	86.68	09-Sep-15 16:00:00		**217.65**	**310.82**	**83.84**	**88.03**
09-Sep-15 17:00:00	09-Sep-15 18:00:00		284.69	884.64	0.00	20.04	2.1	329.7		93.86	291.66	0.00	6.61		10.35	18.92	83.84	86.68	09-Sep-15 17:00:00		**104.21**	**310.58**	**83.84**	**93.29**
09-Sep-15 18:00:00	09-Sep-15 19:00:00		44.70	884.66	0.00	4.21	2.1	329.7		14.74	291.67	0.00	1.39		10.35	18.92	83.84	86.68	09-Sep-15 18:00:00		**25.09**	**310.59**	**83.84**	**88.07**
09-Sep-15 19:00:00	09-Sep-15 20:00:00		48.32	882.44	0.00	15.28	2.1	329.7		15.93	290.94	0.00	5.04		10.35	18.92	83.84	86.68	09-Sep-15 19:00:00		**26.28**	**309.86**	**83.84**	**91.72**
09-Sep-15 20:00:00	09-Sep-15 21:00:00		48.30	884.04	0.00	4.30	2.1	329.7		15.93	291.47	0.00	1.42		10.35	18.92	83.84	86.68	09-Sep-15 20:00:00		**26.28**	**310.39**	**83.84**	**88.10**
09-Sep-15 21:00:00	09-Sep-15 22:00:00		38.31	831.43	0.00	5.01	2.1	329.7		12.63	274.12	0.00	1.65		10.35	18.92	83.84	86.68	09-Sep-15 21:00:00		**22.98**	**293.04**	**83.84**	**88.33**
09-Sep-15 22:00:00	09-Sep-15 23:00:00		21.59	330.56	0.00	4.38	2.1	329.7		7.12	108.99	0.00	1.44		10.35	18.92	83.84	86.68	09-Sep-15 22:00:00		**17.47**	**127.91**	**83.84**	**88.12**
09-Sep-15 23:00:00	10-Sep-15 00:00:00		19.75	0.00	0.00	5.93	2.1	329.7		6.51	0.00	0.00	1.96		10.35	18.92	83.84	86.68	09-Sep-15 23:00:00		**16.86**	**18.92**	**83.84**	**88.64**
10-Sep-15 00:00:00	10-Sep-15 01:00:00		9.87	0.00	0.00	4.42	2.1	329.7		3.26	0.00	0.00	1.46		10.35	18.92	83.84	86.68	10-Sep-15 00:00:00		**13.61**	**18.92**	**83.84**	**88.14**
10-Sep-15 01:00:00	10-Sep-15 02:00:00		9.92	0.00	0.00	6.14	2.1	329.7		3.27	0.00	0.00	2.03		10.35	18.92	83.84	86.68	10-Sep-15 01:00:00		**13.62**	**18.92**	**83.84**	**88.71**
10-Sep-15 02:00:00	10-Sep-15 03:00:00		10.87	0.00	0.00	4.51	2.1	329.7		3.59	0.00	0.00	1.49		10.35	18.92	83.84	86.68	10-Sep-15 02:00:00		**13.94**	**18.92**	**83.84**	**88.17**
10-Sep-15 03:00:00	10-Sep-15 04:00:00		14.82	0.00	0.00	6.59	2.1	329.7		4.88	0.00	0.00	2.17		10.35	18.92	83.84	86.68	10-Sep-15 03:00:00		**15.23**	**18.92**	**83.84**	**88.85**
10-Sep-15 04:00:00	10-Sep-15 05:00:00		38.07	377.50	0.00	4.40	2.1	329.7		12.55	124.46	0.00	1.45		10.35	18.92	83.84	86.68	10-Sep-15 04:00:00		**22.90**	**143.38**	**83.84**	**88.13**
10-Sep-15 05:00:00	10-Sep-15 06:00:00		22.95	127.81	0.00	6.19	2.1	329.7		7.57	42.14	0.00	2.04		10.35	18.92	83.84	86.68	10-Sep-15 05:00:00		**17.92**	**61.06**	**83.84**	**88.72**
10-Sep-15 06:00:00	10-Sep-15 07:00:00		22.12	0.00	0.00	4.32	2.1	329.7		7.29	0.00	0.00	1.42		10.35	18.92	83.84	86.68	10-Sep-15 06:00:00		**17.64**	**18.92**	**83.84**	**88.10**
10-Sep-15 07:00:00	10-Sep-15 08:00:00		16.71	0.00	0.00	18.58	2.1	329.7		5.51	0.00	0.00	6.13		10.35	18.92	83.84	86.68	10-Sep-15 07:00:00		**15.86**	**18.92**	**83.84**	**92.81**
10-Sep-15 08:00:00	10-Sep-15 09:00:00		16.89	0.00	0.00	4.49	2.1	329.7		5.57	0.00	0.00	1.48		10.35	18.92	83.84	86.68	10-Sep-15 08:00:00		**15.92**	**18.92**	**83.84**	**88.16**
10-Sep-15 09:00:00	10-Sep-15 10:00:00		434.18	0.00	0.00	4.51	2.1	329.7		143.15	0.00	0.00	1.49		10.35	18.92	83.84	86.68	10-Sep-15 09:00:00		**153.50**	**18.92**	**83.84**	**88.17**
10-Sep-15 10:00:00	10-Sep-15 11:00:00		541.47	0.00	0.00	4.53	2.1	329.7		178.52	0.00	0.00	1.50		10.35	18.92	83.84	86.68	10-Sep-15 10:00:00		**188.87**	**18.92**	**83.84**	**88.18**
10-Sep-15 11:00:00	10-Sep-15 12:00:00		540.09	0.00	0.00	4.49	2.1	329.7		178.07	0.00	0.00	1.48		10.35	18.92	83.84	86.68	10-Sep-15 11:00:00		**188.42**	**18.92**	**83.84**	**88.16**
10-Sep-15 12:00:00	10-Sep-15 13:00:00		810.30	0.00	0.00	4.30	2.1	329.7		267.16	0.00	0.00	1.42		10.35	18.92	83.84	86.68	10-Sep-15 12:00:00		**277.51**	**18.92**	**83.84**	**88.10**
10-Sep-15 13:00:00	10-Sep-15 14:00:00		1,140.10	0.00	0.00	4.11	2.1	329.7		375.89	0.00	0.00	1.35		10.35	18.92	83.84	86.68	10-Sep-15 13:00:00		**386.24**	**18.92**	**83.84**	**88.03**
10-Sep-15 14:00:00	10-Sep-15 15:00:00		1,441.07	0.00	0.00	46.06	2.1	329.7		475.12	0.00	0.00	15.18		10.35	18.92	83.84	86.68	10-Sep-15 14:00:00		**485.47**	**18.92**	**83.84**	**101.86**
10-Sep-15 15:00:00	10-Sep-15 16:00:00		1,445.39	0.00	0.00	3.79	2.1	329.7		476.54	0.00	0.00	1.25		10.35	18.92	83.84	86.68	10-Sep-15 15:00:00		**486.89**	**18.92**	**83.84**	**87.93**
10-Sep-15 16:00:00	10-Sep-15 17:00:00		1,453.13	0.00	0.00	3.93	2.1	329.7		479.10	0.00	0.00	1.29		10.35	18.92	83.84	86.68	10-Sep-15 16:00:00		**489.45**	**18.92**	**83.84**	**87.97**
10-Sep-15 17:00:00	10-Sep-15 18:00:00		1,433.90	0.00	0.00	5.96	2.1	329.7		472.76	0.00	0.00	1.96		10.35	18.92	83.84	86.68	10-Sep-15 17:00:00		**483.11**	**18.92**	**83.84**	**88.64**
10-Sep-15 18:00:00	10-Sep-15 19:00:00		1,274.68	0.00	0.00	5.82	2.1	329.7		420.26	0.00	0.00	1.92		10.35	18.92	83.84	86.68	10-Sep-15 18:00:00		**430.61**	**18.92**	**83.84**	**88.60**
10-Sep-15 19:00:00	10-Sep-15 20:00:00		1,306.83	0.00	0.00	9.62	2.1	329.7		430.86	0.00	0.00	3.17		10.35	18.92	83.84	86.68	10-Sep-15 19:00:00		**441.21**	**18.92**	**83.84**	**89.85**
10-Sep-15 20:00:00	10-Sep-15 21:00:00		1,303.89	0.00	0.00	4.07	2.1	329.7		429.89	0.00	0.00	1.34		10.35	18.92	83.84	86.68	10-Sep-15 20:00:00		**440.24**	**18.92**	**83.84**	**88.02**
10-Sep-15 21:00:00	10-Sep-15 22:00:00		1,318.18	0.00	0.00	72.60	2.1	329.7		434.61	0.00	0.00	23.94		10.35	18.92	83.84	86.68	10-Sep-15 21:00:00		**444.96**	**18.92**	**83.84**	**110.62**
10-Sep-15 22:00:00	10-Sep-15 23:00:00		1,311.14	77.40	0.00	4.16	2.1	329.7		432.28	25.52	0.00	1.37		10.35	18.92

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
12-Sep-15 21:00:00	12-Sep-15 22:00:00		0.04	0.00	0.00	4.71	2.1	329.7		0.01	0.00	0.00	1.55		10.35	18.92	83.84	86.68	12-Sep-15 21:00:00		**10.36**	**18.92**	**83.84**	**88.23**
12-Sep-15 22:00:00	12-Sep-15 23:00:00		10.96	0.00	0.00	22.32	2.1	329.7		3.61	0.00	0.00	7.36		10.35	18.92	83.84	86.68	12-Sep-15 22:00:00		**13.96**	**18.92**	**83.84**	**94.04**
12-Sep-15 23:00:00	13-Sep-15 00:00:00		29.30	0.00	0.00	4.85	2.1	329.7		9.66	0.00	0.00	1.60		10.35	18.92	83.84	86.68	12-Sep-15 23:00:00		**20.01**	**18.92**	**83.84**	**88.28**
13-Sep-15 00:00:00	13-Sep-15 01:00:00		26.72	0.00	0.00	6.68	2.1	329.7		8.81	0.00	0.00	2.20		10.35	18.92	83.84	86.68	13-Sep-15 00:00:00		**19.16**	**18.92**	**83.84**	**88.88**
13-Sep-15 01:00:00	13-Sep-15 02:00:00		25.83	0.00	0.00	5.28	2.1	329.7		8.52	0.00	0.00	1.74		10.35	18.92	83.84	86.68	13-Sep-15 01:00:00		**18.87**	**18.92**	**83.84**	**88.42**
13-Sep-15 02:00:00	13-Sep-15 03:00:00		23.73	0.00	0.00	5.26	2.1	329.7		7.83	0.00	0.00	1.73		10.35	18.92	83.84	86.68	13-Sep-15 02:00:00		**18.18**	**18.92**	**83.84**	**88.41**
13-Sep-15 03:00:00	13-Sep-15 04:00:00		26.26	0.00	0.00	5.24	2.1	329.7		8.66	0.00	0.00	1.73		10.35	18.92	83.84	86.68	13-Sep-15 03:00:00		**19.01**	**18.92**	**83.84**	**88.41**
13-Sep-15 04:00:00	13-Sep-15 05:00:00		25.52	0.00	0.00	5.22	2.1	329.7		8.41	0.00	0.00	1.72		10.35	18.92	83.84	86.68	13-Sep-15 04:00:00		**18.76**	**18.92**	**83.84**	**88.40**
13-Sep-15 05:00:00	13-Sep-15 06:00:00		5.22	0.00	0.00	5.58	2.1	329.7		1.72	0.00	0.00	1.84		10.35	18.92	83.84	86.68	13-Sep-15 05:00:00		**12.07**	**18.92**	**83.84**	**88.52**
13-Sep-15 06:00:00	13-Sep-15 07:00:00		2.03	0.00	0.00	5.11	2.1	329.7		0.67	0.00	0.00	1.69		10.35	18.92	83.84	86.68	13-Sep-15 06:00:00		**11.02**	**18.92**	**83.84**	**88.37**
13-Sep-15 07:00:00	13-Sep-15 08:00:00		32.22	0.00	0.00	7.37	2.1	329.7		10.62	0.00	0.00	2.43		10.35	18.92	83.84	86.68	13-Sep-15 07:00:00		**20.97**	**18.92**	**83.84**	**89.11**
13-Sep-15 08:00:00	13-Sep-15 09:00:00		9.82	0.00	0.00	5.13	2.1	329.7		3.24	0.00	0.00	1.69		10.35	18.92	83.84	86.68	13-Sep-15 08:00:00		**13.59**	**18.92**	**83.84**	**88.37**
13-Sep-15 09:00:00	13-Sep-15 10:00:00		0.00	0.00	0.00	71.64	2.1	329.7		0.00	0.00	0.00	23.62		10.35	18.92	83.84	86.68	13-Sep-15 09:00:00		**10.35**	**18.92**	**83.84**	**110.30**
13-Sep-15 10:00:00	13-Sep-15 11:00:00		0.19	0.00	0.00	4.88	2.1	329.7		0.06	0.00	0.00	1.61		10.35	18.92	83.84	86.68	13-Sep-15 10:00:00		**10.41**	**18.92**	**83.84**	**88.29**
13-Sep-15 11:00:00	13-Sep-15 12:00:00		0.94	0.00	0.00	27.33	2.1	329.7		0.31	0.00	0.00	9.01		10.35	18.92	83.84	86.68	13-Sep-15 11:00:00		**10.66**	**18.92**	**83.84**	**95.69**
13-Sep-15 12:00:00	13-Sep-15 13:00:00		2.04	0.00	0.00	4.62	2.1	329.7		0.67	0.00	0.00	1.52		10.35	18.92	83.84	86.68	13-Sep-15 12:00:00		**11.02**	**18.92**	**83.84**	**88.20**
13-Sep-15 13:00:00	13-Sep-15 14:00:00		0.00	0.00	0.00	9.13	2.1	329.7		0.00	0.00	0.00	3.01		10.35	18.92	83.84	86.68	13-Sep-15 13:00:00		**10.35**	**18.92**	**83.84**	**89.69**
13-Sep-15 14:00:00	13-Sep-15 15:00:00		0.00	0.00	0.00	4.44	2.1	329.7		0.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	13-Sep-15 14:00:00		**10.35**	**18.92**	**83.84**	**88.15**
13-Sep-15 15:00:00	13-Sep-15 16:00:00		4.01	0.00	0.00	4.75	2.1	329.7		1.32	0.00	0.00	1.57		10.35	18.92	83.84	86.68	13-Sep-15 15:00:00		**11.67**	**18.92**	**83.84**	**88.25**
13-Sep-15 16:00:00	13-Sep-15 17:00:00		21.31	0.00	0.00	4.09	2.1	329.7		7.02	0.00	0.00	1.35		10.35	18.92	83.84	86.68	13-Sep-15 16:00:00		**17.37**	**18.92**	**83.84**	**88.03**
13-Sep-15 17:00:00	13-Sep-15 18:00:00		18.91	0.00	0.00	30.15	2.1	329.7		6.24	0.00	0.00	9.94		10.35	18.92	83.84	86.68	13-Sep-15 17:00:00		**16.59**	**18.92**	**83.84**	**96.62**
13-Sep-15 18:00:00	13-Sep-15 19:00:00		14.10	0.00	0.00	4.08	2.1	329.7		4.65	0.00	0.00	1.34		10.35	18.92	83.84	86.68	13-Sep-15 18:00:00		**15.00**	**18.92**	**83.84**	**88.02**
13-Sep-15 19:00:00	13-Sep-15 20:00:00		17.19	0.00	0.00	4.89	2.1	329.7		5.67	0.00	0.00	1.61		10.35	18.92	83.84	86.68	13-Sep-15 19:00:00		**16.02**	**18.92**	**83.84**	**88.29**
13-Sep-15 20:00:00	13-Sep-15 21:00:00		25.68	0.00	0.00	4.46	2.1	329.7		8.47	0.00	0.00	1.47		10.35	18.92	83.84	86.68	13-Sep-15 20:00:00		**18.82**	**18.92**	**83.84**	**88.15**
13-Sep-15 21:00:00	13-Sep-15 22:00:00		24.85	0.00	0.00	11.58	2.1	329.7		8.19	0.00	0.00	3.82		10.35	18.92	83.84	86.68	13-Sep-15 21:00:00		**18.54**	**18.92**	**83.84**	**90.50**
13-Sep-15 22:00:00	13-Sep-15 23:00:00		18.16	0.00	0.00	5.40	2.1	329.7		5.99	0.00	0.00	1.78		10.35	18.92	83.84	86.68	13-Sep-15 22:00:00		**16.34**	**18.92**	**83.84**	**88.46**
13-Sep-15 23:00:00	14-Sep-15 00:00:00		18.43	0.00	0.00	6.61	2.1	329.7		6.08	0.00	0.00	2.18		10.35	18.92	83.84	86.68	13-Sep-15 23:00:00		**16.43**	**18.92**	**83.84**	**88.86**
14-Sep-15 00:00:00	14-Sep-15 01:00:00		14.88	0.00	0.00	19.82	2.1	329.7		4.91	0.00	0.00	6.53		10.35	18.92	83.84	86.68	14-Sep-15 00:00:00		**15.26**	**18.92**	**83.84**	**93.21**
14-Sep-15 01:00:00	14-Sep-15 02:00:00		3.94	0.00	0.00	37.00	2.1	329.7		1.30	0.00	0.00	12.20		10.35	18.92	83.84	86.68	14-Sep-15 01:00:00		**11.65**	**18.92**	**83.84**	**98.88**
14-Sep-15 02:00:00	14-Sep-15 03:00:00		13.92	0.00	0.00	5.65	2.1	329.7		4.59	0.00	0.00	1.86		10.35	18.92	83.84	86.68	14-Sep-15 02:00:00		**14.94**	**18.92**	**83.84**	**88.54**
14-Sep-15 03:00:00	14-Sep-15 04:00:00		2.10	0.00	8.33	6.02	2.1	329.7		0.69	0.00	2.75	1.98		10.35	18.92	83.84	86.68	14-Sep-15 03:00:00		**11.04**	**18.92**	**86.59**	**88.66**
14-Sep-15 04:00:00	14-Sep-15 05:00:00		0.83	0.00	0.00	5.82	2.1	329.7		0.28	0.00	0.00	1.92		10.35	18.92	83.84	86.68	14-Sep-15 04:00:00		**10.63**	**18.92**	**83.84**	**88.60**
14-Sep-15 05:00:00	14-Sep-15 06:00:00		0.74	0.00	0.00	5.84	2.1	329.7		0.24	0.00	0.00	1.93		10.35	18.92	83.84	86.68	14-Sep-15 05:00:00		**10.59**	**18.92**	**83.84**	**88.61**
14-Sep-15 06:00:00	14-Sep-15 07:00:00		1.27	0.00	0.00	5.86	2.1	329.7		0.42	0.00	0.00	1.93		10.35	18.92	83.84	86.68	14-Sep-15 06:00:00		**10.77**	**18.92**	**83.84**	**88.61**
14-Sep-15 07:00:00	14-Sep-15 08:00:00		3.04	0.00	0.00	6.18	2.1	329.7		1.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	14-Sep-15 07:00:00		**11.35**	**18.92**	**83.84**	**88.72**
14-Sep-15 08:00:00	14-Sep-15 09:00:00		0.00	0.00	0.00	5.71	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	14-Sep-15 08:00:00		**10.35**	**18.92**	**83.84**	**88.56**
14-Sep-15 09:00:00	14-Sep-15 10:00:00		0.00	0.00	0.00	5.38	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	14-Sep-15 09:00:00		**10.35**	**18.92**	**83.84**	**88.45**
14-Sep-15 10:00:00	14-Sep-15 11:00:00		0.61	0.00	0.00	5.06	2.1	329.7		0.20	0.00	0.00	1.67		10.35	18.92	83.84	86.68	14-Sep-15 10:00:00		**10.55**	**18.92**	**83.84**	**88.35**
14-Sep-15 11:00:00	14-Sep-15 12:00:00		2.89	0.00	0.00	66.66	2.1	329.7		0.95	0.00	0.00	21.98		10.35	18.92	83.84	86.68	14-Sep-15 11:00:00		**11.30**	**18.92**	**83.84**	**108.66**
14-Sep-15 12:00:00	14-Sep-15 13:00:00		5.77	0.00	0.00	4.54	2.1	329.7		1.90	0.00	0.00	1.50		10.35	18.92	83.84	86.68	14-Sep-15 12:00:00		**12.25**	**18.92**	**83.84**	**88.18**
14-Sep-15 13:00:00	14-Sep-15 14:00:00		2.27	0.00	0.00	6.37	2.1	329.7		0.75	0.00	0.00	2.10		10.35	18.92	83.84	86.68	14-Sep-15 13:00:00		**11.10**	**18.92**	**83.84**	**88.78**
14-Sep-15 14:00:00	14-Sep-15 15:00:00		10.84	0.00	0.00	4.24	2.1	329.7		3.57	0.00	0.00	1.40		10.35	18.92	83.84	86.68	14-Sep-15 14:00:00		**13.92**	**18.92**	**83.84**	**88.08**
14-Sep-15 15:00:00	14-Sep-15 16:00:00		22.60	0.00	0.00	29.39	2.1	329.7		7.45	0.00	0.00	9.69		10.35	18.92	83.84	86.68	14-Sep-15 15:00:00		**17.80**	**18.92**	**83.84**	**96.37**
14-Sep-15 16:00:00	14-Sep-15 17:00:00		3.17	0.00	0.00	4.11	2.1	329.7		1.05	0.00	0.00	1.35		10.35	18.92	83.84	86.68	14-Sep-15 16:00:00		**11.40**	**18.92**	**83.84**	**88.03**
14-Sep-15 17:00:00	14-Sep-15 18:00:00		8.20	0.00	0.00	4.12	2.1	329.7		2.70	0.00	0.00	1.36		10.35	18.92	83.84	86.68	14-Sep-15 17:00:00		**13.05**	**18.92**	**83.84**	**88.04**
14-Sep-15 18:00:00	14-Sep-15 19:00:00		6.49	0.00	0.00	5.34	2.1	329.7		2.14	0.00	0.00	1.76		10.35	18.92	83.84	86.68	14-Sep-15 18:00:00		**12.49**	**18.92**	**83.84**	**88.44**
14-Sep-15 19:00:00	14-Sep-15 20:00:00		6.11	0.00	0.00	4.29	2.1	329.7		2.01	0.00	0.00	1.41		10.35	18.92	83.84	86.68	14-Sep-15 19:00:00		**12.36**	**18.92**	**83.84**	**88.09**
14-Sep-15 20:00:00	14-Sep-15 21:00:00		6.31	0.00	0.00	4.60	2.1	329.7		2.08	0.00	0.00	1.52		10.35	18.92	83.84	86.68	14-Sep-15 20:00:00		**12.43**	**18.92**	**83.84**	**88.20**
14-Sep-15 21:00:00	14-Sep-15 22:00:00		22.57	0.00	0.00	4.92	2.1	329.7		7.44	0.00	0.00	1.62		10.35	18.92	83.84	86.68	14-Sep-15 21:00:00		**17.79**	**18.92**	**83.84**	**88.30**
14-Sep-15 22:00:00	14-Sep-15 23:00:00		9.22	0.00	0.00	5.23	2.1	329.7		3.04	0.00	0.00	1.72		10.35	18.92	83.84	86.68	14-Sep-15 22:00:00		**13.39**	**18.92**	**83.84**	**88.40**
14-Sep-15 23:00:00	15-Sep-15 00:00:00		5.53	0.00	0.00	5.51	2.1	329.7		1.82	0.00	0.00	1.82		10.35	18.92	83.84	86.68	14-Sep-15 23:00:00		**12.17**	**18.92**	**83.84**	**88.50**
15-Sep-15 00:00:00	15-Sep-15 01:00:00		9.46	0.00	0.00	10.78	2.1	329.7		3.12	0.00	0.00	3.55		10.35	18.92	83.84	86.68	15-Sep-15 00:00:00		**13.47**	**18.92**	**83.84**	**90.23**
15-Sep-15 01:00:00	15-Sep-15 02:00:00		1.74	0.00	0.00	5.91	2.1	329.7		0.57	0.00	0.00	1.95		10.35	18.92	83.84	86.68	15-Sep-15 01:00:00		**10.92**	**18.92**	**83.84**	**88.63**
15-Sep-15 02:00:00	15-Sep-15 03:00:00		0.47	0.00	0.00	6.05	2.1	329.7		0.15	0.00	0.00	2.00		10.35	18.92	83.84	86.68	15-Sep-15 02:00:00		**10.50**	**18.92**	**83.84**	**88.68**
15-Sep-15 03:00:00	15-Sep-15 04:00:00		0.31	0.00	0.00	25.89	2.1	329.7		0.10	0.00	0.00	8.54		10.35	18.92	83.84	86.68	15-Sep-15 03:00:00		**10.45**	**18.92**	**83.84**	**95.22**
15-Sep-15 04:00:00	15-Sep-15 05:00:00		0.16	0.00	0.00	5.84	2.1	329.7		0.05	0.00	0.00	1.93		10.35	18.92	83.84	86.68	15-Sep-15 04:00:00		**10.40**	**18.92**	**83.84**	**88.61**
15-Sep-15 05:00:00	15-Sep-15 06:00:00		1.23	0.00	0.00	6.80	2.1	329.7		0.41	0.00	0.00	2.24		10.35	18.92	83.84	86.68	15-Sep-15 05:00:00		**10.76**	**18.92**	**83.84**	**88.92**
15-Sep-15 06:00:00	15-Sep-15 07:00:00		6.31	0.00	0.00	5.93	2.1	329.7		2.08	0.00	0.00	1.96		10.35	18.92	83.84	86.68	15-Sep-15 06:00:00		**12.43**	**18.92**	**83.84**	**88.64**
15-Sep-15 07:00:00	15-Sep-15 08:00:00		6.15	0.00	0.00	99.99	2.1	329.7		2.03	0.00	0.00	32.97		10.35	18.92	83.84	86.68	15-Sep-15 07:00:00		**12.38**	**18.92**	**83.84**	**119.65**
15-Sep-15 08:00:00	15-Sep-15 09:00:00		5.23	0.00	0.00	5.55	2.1	329.7		1.73	0.00	0.00	1.83		10.35	18.92	83.84	86.68	15-Sep-15 08:00:00		**12.08**	**18.92**	**83.84**	**88.51**
15-Sep-15 09:00:00	15-Sep-15 10:00:00		5.44	0.00	0.00	7.58	2.1	329.7		1.79	0.00	0.00	2.50		10.35	18.92	83.84	86.68	15-Sep-15 09:00:00		**12.14**	**18.92**	**83.84**	**89.18**
15-Sep-15 10:00:00	15-Sep-15 11:00:00		0.59	0.00	0.00	4.92	2.1	329.7		0.20	0.00	0.00	1.62		10.35	18.92	83.84	86.68	15-Sep-15 10:00:00		**10.55**	**18.92**	**83.84**	**88.30**
15-Sep-15 11:00:00	15-Sep-15 12:00:00		6.88	0.00	0.00	4.62	2.1	329.7		2.27	0.00	0.00	1.52		10.35	18.92	83.84	86.68	15-Sep-15 11:00:00		**12.62**	**18.92**	**83.84**	**88.20**
15-Sep-15 12:00:00	15-Sep-15 13:00:00		5.78	0.00	0.00	4.32	2.1	329.7		1.90	0.00	0.00	1.42		10.35	18.92	83.84	86.68	15-Sep-15 12:00:00		**12.25**	**18.92**	**83.84**	**88.10**
15-Sep-15 13:00:00	15-Sep-15 14:00:00		32.40	0.00	0.00	4.13	2.1	329.7		10.68	0.00	0.00	1.36		10.35	18.92	83.84	86.68	15-Sep-15 13:00:00		**21.03**	**18.92**	**83.84**	**88.04**
15-Sep-15 14:00:00	15-Sep-15 15:00:00		27.36	0.00	0.00	6.12	2.1	329.7		9.02	0.00	0.00	2.02		10.35	18.92	83.84	86.68	15-Sep-15 14:00:00		**19.37**	**18.92**	**83.84**	**88.70**
15-Sep-15 15:00:00	15-Sep-15 16:00:00		29.45	0.00	0.00	4.34	2.1	329.7		9.71	0.00	0.00	1.43		10.35	18.92	83.84	86.68	15-Sep-15 15:00:00		**20.06**	**18.92**	**83.84**	**88.11**
15-Sep-15 16:00:00	15-Sep-15 17:00:00		33.10	0.00	0.00	4.06	2.1	329.7		10.91	0.00	0.00	1.34		10.35	18.92	83.84	86.68	15-Sep-15 16:00:00		**21.26**	**18.92**	**83.84**	**88.02**
15-Sep-15 17:00:00	15-Sep-15 18:00:00		35.84	0.00	0.00	4.47	2.1	329.7		11.82	0.00	0.00	1.47		10.35	18.92	83.84	86.68	15-Sep-15 17:00:00		**22.17**	**18.92**	**83.84**	**88.15**
15-Sep-15 18:00:00	15-Sep-15 19:00:00		28.08	0.00	0.00	4.01	2.1	329.7		9.26	0.00	0.00	1.32		10.35	18.92	83.84	86.68	15-Sep-15 18:00:00		**19.61**	**18.92**	**83.84**	**88.00**
15-Sep-15 19:00:00	15-Sep-15 20:00:00		28.07	0.00	0.00	4.49	2.1	329.7		9.25	0.00	0.00	1.48		10.35	18.92	83.84	86.68	15-Sep-15 19:00:00		**19.60**	**18.92**	**83.84**	**88.16**
15-Sep-15 20:00:00	15-Sep-15 21:00:00		25.94	0.00	0.00	4.45	2.1	329.7		8.55	0.00	0.00	1.47		10.35	18.92	83.84	86.68	15-Sep-15 20:00:00		**18.90**	**18.92**	**83.84**	**88.15**
15-Sep-15 21:00:00	15-Sep-15 22:00:00		13.69	0.00	0.00	9.57	2.1	329.7		4.52	0.00	0.00	3.15		10.35	18.92	83.84	86.68	15-Sep-15 21:00:00		**14.87**	**18.92**	**83.84**	**89.83**
15-Sep-15 22:00:00	15-Sep-15 23:00:00		29.83	0.00	0.00	4.99	2.1	329.7		9.83	0.00	0.00	1.64		10.35	18.92	83.84	86.68	15-Sep-15 22:00:00		**20.18**	**18.92**	**83.84**	**88.32**
15-Sep-15 23:00:00	16-Sep-15 00:00:00		4.03	0.00	0.00	5.10	2.1	329.7		1.33	0.00	0.00	1.68		10.35	18.92	83.84	86.68	15-Sep-15 23:00:00		**11.68**	**18.92**	**83.84**	**88.36**
16-Sep-15 00:00:00	16-Sep-15 01:00:00		19.09	0.00	0.00	5.21	2.1	329.7		6.29	0.00	0.00	1.72		10.35	18.92	83.84	86.68	16-Sep-15 00:00:00		**16.64**	**18.92**	**83.84**	**88.40**
16-Sep-15 01:00:00	16-Sep-15 02:00:00		7.13	0.00	0.00	22.80	2.1	329.7		2.35	0.00	0.00	7.52		10.35	18.92	83.84	86.68	16-Sep-15 01:00:00		**12.70**	**18.92**	**83.84**	**94.20**
16-Sep-15 02:00:00	16-Sep-15 03:00:00		1.40	0.00	0.00	5.48	2.1	329.7		0.46	0.00	0.00	1.81		10.35	18.92	83.84	86.68	16-Sep-15 02:00:00		**10.81**	**18.92**	**83.84**	**88.49**
16-Sep-15 03:00:00	16-Sep-15 04:00:00		2.18	0.00	0.00	12.22	2.1	329.7		0.72	0.00	0.00	4.03		10.35	18.92	83.84	86.68	16-Sep-15 03:00:00		**11.07**	**18.92**	**83.84**	**90.71**
16-Sep-15 04:00:00	16-Sep-15 05:00:00		0.00	0.00	0.00	5.26	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	16-Sep-15 04:00:00		**10.35**	**18.92**	**83.84**	**88.41**
16-Sep-15 05:00:00	16-Sep-15 06:00:00		0.00	0.00	0.00	30.31	2.1	329.7		0.00	0.00	0.00	9.99		10.35	18.92	83.84	86.68	16-Sep-15 05:00:00		**10.35**	**18.92**	**83.84**	**96.67**
16-Sep-15 06:00:00	16-Sep-15 07:00:00		0.00	0.00	0.00	5.37	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	16-Sep-15 06:00:00		**10.35**	**18.92**	**83.84**	**88.45**
16-Sep-15 07:00:00	16-Sep-15 08:00:00		0.00	0.00	0.00	5.83	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	16-Sep-15 07:00:00		**10.35**	**18.92**	**83.84**	**88.60**
16-Sep-15 08:00:00	16-Sep-15 09:00:00		0.00	0.00	0.00	5.37	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	16-Sep-15 08:00:00		**10.35**	**18.92**	**83.84**	**88.45**
16-Sep-15 09:00:00	16-Sep-15 10:00:00		0.00	0.00	0.00	17.09	2.1	329.7		0.00	0.00	0.00	5.63		10.35	18.92	83.84	86.68	16-Sep-15 09:00:00		**10.35**	**18.92**	**83.84**	**92.31**
16-Sep-15 10:00:00	16-Sep-15 11:00:00		0.00	0.00	0.00	5.14	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	16-Sep-15 10:00:00		**10.35**	**18.92**	**83.84**	**88.38**
16-Sep-15 11:00:00	16-Sep-15 12:00:00		0.66	0.00	0.00	4.92	2.1	329.7		0.22	0.00	0.00	1.62		10.35	18.92	83.84	86.68	16-Sep-15 11:00:00		**10.57**	**18.92**	**83.84**	**88.30**
16-Sep-15 12:00:00	16-Sep-15 13:00:00		2.74	0.00	0.00	33.43	2.1	329.7		0.90	0.00	0.00	11.02		10.35	18.92	83.84	86.68	16-Sep-15 12:00:00		**11.25**	**18.92**	**83.84**	**97.70**
16-Sep-15 13:00:00	16-Sep-15 14:00:00		3.92	0.00	0.00	4.29	2.1	329.7		1.29	0.00	0.00	1.42		10.35	18.92	83.84	86.68	16-Sep-15 13:00:00		**11.64**	**18.92**	**83.84**	**88.10**
16-Sep-15 14:00:00	16-Sep-15 15:00:00		18.49	0.00	0.00	9.40	2.1	329.7		6.10	0.00	0.00	3.10		10.35	18.92	83.84	86.68	16-Sep-15 14:00:00		**16.45**	**18.92**	**83.84**	**89.78**
16-Sep-15 15:00:00	16-Sep-15 16:00:00		27.94	0.00	0.00	4.19	2.1	329.7		9.21	0.00	0.00	1.38		10.35	18.92	83.84	86.68	16-Sep-15 15:00:00		**19.56**	**18.92**	**83.84**	**88.06**
16-Sep-15 16:00:00	16-Sep-15 17:00:00		30.56	0.00	0.00	74.80	2.1	329.7		10.08	0.00	0.00	24.66		10.35	18.92	83.84	86.68	16-Sep-15 16:00:00		**20.43**	**18.92**	**83.84**	**111.34**
16-Sep-15 17:00:00	16-Sep-15 18:00:00		40.32	0.00	0.00	4.27	2.1	329.7		13.29	0.00	0.00	1.41		10.35	18.92	83.84	86.68	16-Sep-15 17:00:00		**23.64**	**18.92**	**83.84**	**88.09**
16-Sep-15 18:00:00	16-Sep-15 19:00:00		43.77	0.00	0.00	24.

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
18-Sep-15 16:00:00	18-Sep-15 17:00:00		20.50	0.00	0.00	3.61	2.1	329.7		6.76	0.00	0.00	1.19		10.35	18.92	83.84	86.68	18-Sep-15 16:00:00		17.11	18.92	83.84	87.87
18-Sep-15 17:00:00	18-Sep-15 18:00:00		29.02	0.00	0.00	3.56	2.1	329.7		9.57	0.00	0.00	1.17		10.35	18.92	83.84	86.68	18-Sep-15 17:00:00		19.92	18.92	83.84	87.85
18-Sep-15 18:00:00	18-Sep-15 19:00:00		52.23	0.00	0.00	3.60	2.1	329.7		17.22	0.00	0.00	1.19		10.35	18.92	83.84	86.68	18-Sep-15 18:00:00		27.57	18.92	83.84	87.87
18-Sep-15 19:00:00	18-Sep-15 20:00:00		59.49	0.00	0.00	11.50	2.1	329.7		19.62	0.00	0.00	3.79		10.35	18.92	83.84	86.68	18-Sep-15 19:00:00		29.97	18.92	83.84	90.47
18-Sep-15 20:00:00	18-Sep-15 21:00:00		56.34	0.00	0.00	3.85	2.1	329.7		18.57	0.00	0.00	1.27		10.35	18.92	83.84	86.68	18-Sep-15 20:00:00		28.92	18.92	83.84	87.95
18-Sep-15 21:00:00	18-Sep-15 22:00:00		48.89	0.00	0.00	11.47	2.1	329.7		16.12	0.00	0.00	3.78		10.35	18.92	83.84	86.68	18-Sep-15 21:00:00		26.47	18.92	83.84	90.46
18-Sep-15 22:00:00	18-Sep-15 23:00:00		18.16	0.00	0.00	4.82	2.1	329.7		5.99	0.00	0.00	1.59		10.35	18.92	83.84	86.68	18-Sep-15 22:00:00		16.34	18.92	83.84	88.27
18-Sep-15 23:00:00	19-Sep-15 00:00:00		8.29	0.00	0.00	24.17	2.1	329.7		2.73	0.00	0.00	7.97		10.35	18.92	83.84	86.68	18-Sep-15 23:00:00		13.08	18.92	83.84	94.65
19-Sep-15 00:00:00	19-Sep-15 01:00:00		27.91	0.00	0.00	4.54	2.1	329.7		9.20	0.00	0.00	1.50		10.35	18.92	83.84	86.68	19-Sep-15 00:00:00		19.55	18.92	83.84	88.18
19-Sep-15 01:00:00	19-Sep-15 02:00:00		27.02	0.00	0.00	20.94	2.1	329.7		8.91	0.00	0.00	6.90		10.35	18.92	83.84	86.68	19-Sep-15 01:00:00		19.26	18.92	83.84	93.58
19-Sep-15 02:00:00	19-Sep-15 03:00:00		6.78	0.00	0.00	4.72	2.1	329.7		2.23	0.00	0.00	1.56		10.35	18.92	83.84	86.68	19-Sep-15 02:00:00		12.58	18.92	83.84	88.24
19-Sep-15 03:00:00	19-Sep-15 04:00:00		1.52	0.00	0.00	5.37	2.1	329.7		0.50	0.00	0.00	1.77		10.35	18.92	83.84	86.68	19-Sep-15 03:00:00		10.85	18.92	83.84	88.45
19-Sep-15 04:00:00	19-Sep-15 05:00:00		0.96	0.00	0.00	4.93	2.1	329.7		0.32	0.00	0.00	1.63		10.35	18.92	83.84	86.68	19-Sep-15 04:00:00		10.67	18.92	83.84	88.31
19-Sep-15 05:00:00	19-Sep-15 06:00:00		0.40	0.00	0.00	6.61	2.1	329.7		0.13	0.00	0.00	2.18		10.35	18.92	83.84	86.68	19-Sep-15 05:00:00		10.48	18.92	83.84	88.86
19-Sep-15 06:00:00	19-Sep-15 07:00:00		0.01	0.00	0.00	5.11	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	19-Sep-15 06:00:00		10.35	18.92	83.84	88.36
19-Sep-15 07:00:00	19-Sep-15 08:00:00		0.00	0.00	0.00	5.07	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	19-Sep-15 07:00:00		10.35	18.92	83.84	88.35
19-Sep-15 08:00:00	19-Sep-15 09:00:00		0.00	0.00	0.00	5.02	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	19-Sep-15 08:00:00		10.35	18.92	83.84	88.34
19-Sep-15 09:00:00	19-Sep-15 10:00:00		0.00	0.00	0.00	9.00	2.1	329.7		0.00	0.00	0.00	2.97		10.35	18.92	83.84	86.68	19-Sep-15 09:00:00		10.35	18.92	83.84	89.65
19-Sep-15 10:00:00	19-Sep-15 11:00:00		0.00	0.00	0.00	4.34	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	19-Sep-15 10:00:00		10.35	18.92	83.84	88.11
19-Sep-15 11:00:00	19-Sep-15 12:00:00		13.73	0.00	0.00	13.52	2.1	329.7		4.53	0.00	0.00	4.46		10.35	18.92	83.84	86.68	19-Sep-15 11:00:00		14.88	18.92	83.84	91.14
19-Sep-15 12:00:00	19-Sep-15 13:00:00		13.23	0.00	0.00	4.32	2.1	329.7		4.36	0.00	0.00	1.42		10.35	18.92	83.84	86.68	19-Sep-15 12:00:00		14.71	18.92	83.84	88.10
19-Sep-15 13:00:00	19-Sep-15 14:00:00		17.02	0.00	0.00	3.66	2.1	329.7		5.61	0.00	0.00	1.21		10.35	18.92	83.84	86.68	19-Sep-15 13:00:00		15.96	18.92	83.84	87.89
19-Sep-15 14:00:00	19-Sep-15 15:00:00		25.74	0.00	0.00	3.46	2.1	329.7		8.49	0.00	0.00	1.14		10.35	18.92	83.84	86.68	19-Sep-15 14:00:00		18.84	18.92	83.84	87.82
19-Sep-15 15:00:00	19-Sep-15 16:00:00		10.91	0.00	0.00	3.42	2.1	329.7		3.60	0.00	0.00	1.13		10.35	18.92	83.84	86.68	19-Sep-15 15:00:00		13.95	18.92	83.84	87.81
19-Sep-15 16:00:00	19-Sep-15 17:00:00		15.10	0.00	0.00	20.45	2.1	329.7		4.98	0.00	0.00	6.74		10.35	18.92	83.84	86.68	19-Sep-15 16:00:00		15.33	18.92	83.84	93.42
19-Sep-15 17:00:00	19-Sep-15 18:00:00		14.01	0.00	0.00	3.27	2.1	329.7		4.62	0.00	0.00	1.08		10.35	18.92	83.84	86.68	19-Sep-15 17:00:00		14.97	18.92	83.84	87.76
19-Sep-15 18:00:00	19-Sep-15 19:00:00		10.06	0.00	0.00	3.71	2.1	329.7		3.32	0.00	0.00	1.22		10.35	18.92	83.84	86.68	19-Sep-15 18:00:00		13.67	18.92	83.84	87.90
19-Sep-15 19:00:00	19-Sep-15 20:00:00		0.42	0.00	0.00	3.58	2.1	329.7		0.14	0.00	0.00	1.18		10.35	18.92	83.84	86.68	19-Sep-15 19:00:00		10.49	18.92	83.84	87.86
19-Sep-15 20:00:00	19-Sep-15 21:00:00		0.05	0.00	0.00	25.84	2.1	329.7		0.02	0.00	0.00	8.52		10.35	18.92	83.84	86.68	19-Sep-15 20:00:00		10.37	18.92	83.84	95.20
19-Sep-15 21:00:00	19-Sep-15 22:00:00		18.30	0.00	0.00	4.20	2.1	329.7		6.03	0.00	0.00	1.39		10.35	18.92	83.84	86.68	19-Sep-15 21:00:00		16.38	18.92	83.84	88.07
19-Sep-15 22:00:00	19-Sep-15 23:00:00		12.56	0.00	0.00	28.72	2.1	329.7		4.14	0.00	0.00	9.47		10.35	18.92	83.84	86.68	19-Sep-15 22:00:00		14.49	18.92	83.84	96.15
19-Sep-15 23:00:00	20-Sep-15 00:00:00		19.54	0.00	0.00	12.36	2.1	329.7		6.44	0.00	0.00	4.08		10.35	18.92	83.84	86.68	19-Sep-15 23:00:00		16.79	18.92	83.84	90.76
20-Sep-15 00:00:00	20-Sep-15 01:00:00		25.97	0.00	0.00	11.74	2.1	329.7		8.56	0.00	0.00	3.87		10.35	18.92	83.84	86.68	20-Sep-15 00:00:00		18.91	18.92	83.84	90.55
20-Sep-15 01:00:00	20-Sep-15 02:00:00		0.82	0.00	0.00	4.87	2.1	329.7		0.27	0.00	0.00	1.61		10.35	18.92	83.84	86.68	20-Sep-15 01:00:00		10.62	18.92	83.84	88.29
20-Sep-15 02:00:00	20-Sep-15 03:00:00		2.09	0.00	0.00	94.25	2.1	329.7		0.69	0.00	0.00	31.07		10.35	18.92	83.84	86.68	20-Sep-15 02:00:00		11.04	18.92	83.84	117.75
20-Sep-15 03:00:00	20-Sep-15 04:00:00		0.63	0.00	0.00	5.87	2.1	329.7		0.21	0.00	0.00	1.93		10.35	18.92	83.84	86.68	20-Sep-15 03:00:00		10.56	18.92	83.84	88.61
20-Sep-15 04:00:00	20-Sep-15 05:00:00		1.30	0.00	0.00	5.18	2.1	329.7		0.43	0.00	0.00	1.71		10.35	18.92	83.84	86.68	20-Sep-15 04:00:00		10.78	18.92	83.84	88.39
20-Sep-15 05:00:00	20-Sep-15 06:00:00		2.21	0.00	0.00	63.68	2.1	329.7		0.73	0.00	0.00	21.00		10.35	18.92	83.84	86.68	20-Sep-15 05:00:00		11.08	18.92	83.84	107.68
20-Sep-15 06:00:00	20-Sep-15 07:00:00		2.66	0.00	0.00	7.08	2.1	329.7		0.88	0.00	0.00	2.34		10.35	18.92	83.84	86.68	20-Sep-15 06:00:00		11.23	18.92	83.84	89.02
20-Sep-15 07:00:00	20-Sep-15 08:00:00		1.90	0.00	0.00	9.27	2.1	329.7		0.63	0.00	0.00	3.06		10.35	18.92	83.84	86.68	20-Sep-15 07:00:00		10.98	18.92	83.84	89.74
20-Sep-15 08:00:00	20-Sep-15 09:00:00		0.00	0.00	0.00	6.73	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	20-Sep-15 08:00:00		10.35	18.92	83.84	88.90
20-Sep-15 09:00:00	20-Sep-15 10:00:00		0.00	0.00	0.00	4.78	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	20-Sep-15 09:00:00		10.35	18.92	83.84	88.26
20-Sep-15 10:00:00	20-Sep-15 11:00:00		9.83	0.00	0.00	34.13	2.1	329.7		3.24	0.00	0.00	11.25		10.35	18.92	83.84	86.68	20-Sep-15 10:00:00		13.59	18.92	83.84	97.93
20-Sep-15 11:00:00	20-Sep-15 12:00:00		21.85	0.00	0.00	3.85	2.1	329.7		7.20	0.00	0.00	1.27		10.35	18.92	83.84	86.68	20-Sep-15 11:00:00		17.55	18.92	83.84	87.95
20-Sep-15 12:00:00	20-Sep-15 13:00:00		13.79	0.00	0.00	10.05	2.1	329.7		4.55	0.00	0.00	3.31		10.35	18.92	83.84	86.68	20-Sep-15 12:00:00		14.90	18.92	83.84	89.99
20-Sep-15 13:00:00	20-Sep-15 14:00:00		14.39	0.00	0.00	3.32	2.1	329.7		4.75	0.00	0.00	1.10		10.35	18.92	83.84	86.68	20-Sep-15 13:00:00		15.10	18.92	83.84	87.78
20-Sep-15 14:00:00	20-Sep-15 15:00:00		4.42	0.00	0.00	3.18	2.1	329.7		1.46	0.00	0.00	1.05		10.35	18.92	83.84	86.68	20-Sep-15 14:00:00		11.81	18.92	83.84	87.73
20-Sep-15 15:00:00	20-Sep-15 16:00:00		7.57	0.00	0.00	50.82	2.1	329.7		2.50	0.00	0.00	16.75		10.35	18.92	83.84	86.68	20-Sep-15 15:00:00		12.85	18.92	83.84	103.43
20-Sep-15 16:00:00	20-Sep-15 17:00:00		3.99	0.00	0.00	3.09	2.1	329.7		1.32	0.00	0.00	1.02		10.35	18.92	83.84	86.68	20-Sep-15 16:00:00		11.67	18.92	83.84	87.70
20-Sep-15 17:00:00	20-Sep-15 18:00:00		1.09	0.00	0.00	122.85	2.1	329.7		0.36	0.00	0.00	40.50		10.35	18.92	83.84	86.68	20-Sep-15 17:00:00		10.71	18.92	83.84	127.18
20-Sep-15 18:00:00	20-Sep-15 19:00:00		1.37	0.00	0.00	3.50	2.1	329.7		0.45	0.00	0.00	1.16		10.35	18.92	83.84	86.68	20-Sep-15 18:00:00		10.80	18.92	83.84	87.84
20-Sep-15 19:00:00	20-Sep-15 20:00:00		1.65	0.00	0.00	3.94	2.1	329.7		0.54	0.00	0.00	1.30		10.35	18.92	83.84	86.68	20-Sep-15 19:00:00		10.89	18.92	83.84	87.98
20-Sep-15 20:00:00	20-Sep-15 21:00:00		2.25	0.00	0.00	3.88	2.1	329.7		0.74	0.00	0.00	1.28		10.35	18.92	83.84	86.68	20-Sep-15 20:00:00		11.09	18.92	83.84	87.96
20-Sep-15 21:00:00	20-Sep-15 22:00:00		3.13	0.00	0.00	6.00	2.1	329.7		1.03	0.00	0.00	1.98		10.35	18.92	83.84	86.68	20-Sep-15 21:00:00		11.38	18.92	83.84	88.66
20-Sep-15 22:00:00	20-Sep-15 23:00:00		13.37	0.00	0.00	4.50	2.1	329.7		4.41	0.00	0.00	1.48		10.35	18.92	83.84	86.68	20-Sep-15 22:00:00		14.76	18.92	83.84	88.16
20-Sep-15 23:00:00	21-Sep-15 00:00:00		7.43	0.00	0.00	13.95	2.1	329.7		2.45	0.00	0.00	4.60		10.35	18.92	83.84	86.68	20-Sep-15 23:00:00		12.80	18.92	83.84	91.28
21-Sep-15 00:00:00	21-Sep-15 01:00:00		7.64	0.00	0.00	4.64	2.1	329.7		2.52	0.00	0.00	1.53		10.35	18.92	83.84	86.68	21-Sep-15 00:00:00		12.87	18.92	83.84	88.21
21-Sep-15 01:00:00	21-Sep-15 02:00:00		7.43	0.00	0.00	19.71	2.1	329.7		2.45	0.00	0.00	6.50		10.35	18.92	83.84	86.68	21-Sep-15 01:00:00		12.80	18.92	83.84	93.18
21-Sep-15 02:00:00	21-Sep-15 03:00:00		5.52	0.00	0.00	4.97	2.1	329.7		1.82	0.00	0.00	1.64		10.35	18.92	83.84	86.68	21-Sep-15 02:00:00		12.17	18.92	83.84	88.32
21-Sep-15 03:00:00	21-Sep-15 04:00:00		7.33	0.00	0.00	5.09	2.1	329.7		2.42	0.00	0.00	1.68		10.35	18.92	83.84	86.68	21-Sep-15 03:00:00		12.77	18.92	83.84	88.36
21-Sep-15 04:00:00	21-Sep-15 05:00:00		2.44	0.00	0.00	16.47	2.1	329.7		0.81	0.00	0.00	5.43		10.35	18.92	83.84	86.68	21-Sep-15 04:00:00		11.16	18.92	83.84	92.11
21-Sep-15 05:00:00	21-Sep-15 06:00:00		4.29	0.00	0.00	20.18	2.1	329.7		1.41	0.00	0.00	6.65		10.35	18.92	83.84	86.68	21-Sep-15 05:00:00		11.76	18.92	83.84	93.33
21-Sep-15 06:00:00	21-Sep-15 07:00:00		8.80	0.00	0.00	5.31	2.1	329.7		2.90	0.00	0.00	1.75		10.35	18.92	83.84	86.68	21-Sep-15 06:00:00		13.25	18.92	83.84	88.43
21-Sep-15 07:00:00	21-Sep-15 08:00:00		4.92	0.00	0.00	16.34	2.1	329.7		1.62	0.00	0.00	5.39		10.35	18.92	83.84	86.68	21-Sep-15 07:00:00		11.97	18.92	83.84	92.07
21-Sep-15 08:00:00	21-Sep-15 09:00:00		3.50	0.00	0.00	39.90	2.1	329.7		1.15	0.00	0.00	13.16		10.35	18.92	83.84	86.68	21-Sep-15 08:00:00		11.50	18.92	83.84	99.84
21-Sep-15 09:00:00	21-Sep-15 10:00:00		2.98	0.00	0.00	4.96	2.1	329.7		0.98	0.00	0.00	1.63		10.35	18.92	83.84	86.68	21-Sep-15 09:00:00		11.33	18.92	83.84	88.31
21-Sep-15 10:00:00	21-Sep-15 11:00:00		3.34	0.00	0.00	12.65	2.1	329.7		1.10	0.00	0.00	4.17		10.35	18.92	83.84	86.68	21-Sep-15 10:00:00		11.45	18.92	83.84	90.85
21-Sep-15 11:00:00	21-Sep-15 12:00:00		3.70	0.00	0.00	18.84	2.1	329.7		1.22	0.00	0.00	6.21		10.35	18.92	83.84	86.68	21-Sep-15 11:00:00		11.57	18.92	83.84	92.89
21-Sep-15 12:00:00	21-Sep-15 13:00:00		7.45	0.00	0.00	4.37	2.1	329.7		2.46	0.00	0.00	1.44		10.35	18.92	83.84	86.68	21-Sep-15 12:00:00		12.81	18.92	83.84	88.12
21-Sep-15 13:00:00	21-Sep-15 14:00:00		3.39	0.00	0.00	18.14	2.1	329.7		1.12	0.00	0.00	5.98		10.35	18.92	83.84	86.68	21-Sep-15 13:00:00		11.47	18.92	83.84	92.66
21-Sep-15 14:00:00	21-Sep-15 15:00:00		21.64	0.00	0.00	3.92	2.1	329.7		7.13	0.00	0.00	1.29		10.35	18.92	83.84	86.68	21-Sep-15 14:00:00		17.48	18.92	83.84	87.97
21-Sep-15 15:00:00	21-Sep-15 16:00:00		28.70	0.00	0.00	6.36	2.1	329.7		9.46	0.00	0.00	2.10		10.35	18.92	83.84	86.68	21-Sep-15 15:00:00		19.81	18.92	83.84	88.78
21-Sep-15 16:00:00	21-Sep-15 17:00:00		8.49	0.00	0.00	3.90	2.1	329.7		2.80	0.00	0.00	1.29		10.35	18.92	83.84	86.68	21-Sep-15 16:00:00		13.15	18.92	83.84	87.97
21-Sep-15 17:00:00	21-Sep-15 18:00:00		7.25	0.00	0.00	5.64	2.1	329.7		2.39	0.00	0.00	1.86		10.35	18.92	83.84	86.68	21-Sep-15 17:00:00		12.74	18.92	83.84	88.54
21-Sep-15 18:00:00	21-Sep-15 19:00:00		4.91	0.00	0.00	4.28	2.1	329.7		1.62	0.00	0.00	1.41		10.35	18.92	83.84	86.68	21-Sep-15 18:00:00		11.97	18.92	83.84	88.09
21-Sep-15 19:00:00	21-Sep-15 20:00:00		3.64	0.00	0.00	19.70	2.1	329.7		1.20	0.00	0.00	6.50		10.35	18.92	83.84	86.68	21-Sep-15 19:00:00		11.55	18.92	83.84	93.18
21-Sep-15 20:00:00	21-Sep-15 21:00:00		19.13	0.00	0.00	4.76	2.1	329.7		6.31	0.00	0.00	1.57		10.35	18.92	83.84	86.68	21-Sep-15 20:00:00		16.66	18.92	83.84	88.25
21-Sep-15 21:00:00	21-Sep-15 22:00:00		3.83	0.00	0.00	22.76	2.1	329.7		1.26	0.00	0.00	7.50		10.35	18.92	83.84	86.68	21-Sep-15 21:00:00		11.61	18.92	83.84	94.18
21-Sep-15 22:00:00	21-Sep-15 23:00:00		5.61	0.00	0.00	4.93	2.1	329.7		1.85	0.00	0.00	1.63		10.35	18.92	83.84	86.68	21-Sep-15 22:00:00		12.20	18.92	83.84	88.31
21-Sep-15 23:00:00	22-Sep-15 00:00:00		20.77	0.00	0.00	33.38	2.1	329.7		6.85	0.00	0.00	11.01		10.35	18.92	83.84	86.68	21-Sep-15 23:00:00		17.20	18.92	83.84	97.69
22-Sep-15 00:00:00	22-Sep-15 01:00:00		34.76	0.00	0.00	5.21	2.1	329.7		11.46	0.00	0.00	1.72		10.35	18.92	83.84	86.68	22-Sep-15 00:00:00		21.81	18.92	83.84	88.40
22-Sep-15 01:00:00	22-Sep-15 02:00:00		23.86	0.00	0.00	7.28	2.1	329.7		7.87	0.00	0.00	2.40		10.35	18.92	83.84	86.68	22-Sep-15 01:00:00		18.22	18.92	83.84	89.08
22-Sep-15 02:00:00	22-Sep-15 03:00:00		25.67	0.00	0.00	5.22	2.1	329.7		8.46	0.00	0.00	1.72		10.35	18.92	83.84	86.68	22-Sep-15 02:00:00		18.81	18.92	83.84	88.40
22-Sep-15 03:00:00	22-Sep-15 04:00:00		23.75	0.00	0.00	6.62	2.1	329.7		7.83	0.00	0.00	2.18		10.35	18.92	83.84	86.68	22-Sep-15 03:00:00		18.18	18.92	83.84	88.86
22-Sep-15 04:00:00	22-Sep-15 05:00:00		23.10	0.00	0.00	5.17	2.1	329.7		7.62	0.00	0.00	1.71		10.35	18.92	83.84	86.68	22-Sep-15 04:00:00		17.97	18.92	83.84	88.39
22-Sep-15 05:00:00	22-Sep-15 06:00:00		16.85	0.00	0.00	20.35	2.1	329.7		5.56	0.00	0.00	6.71		10.35	18.92	83.84	86.68	22-Sep-15 05:00:00		15.91	18.92	83.84	93.39
22-Sep-15 06:00:00	22-Sep-15 07:00:00		13.10	0.00	0.00	5.25	2.1	329.7		4.32	0.00	0.00	1.73		10.35	18.92	83.84	86.68	22-Sep-15 06:00:00		14.67	18.92	83.84	88.41
22-Sep-15 07:00:00	22-Sep-15 08:00:00		13.74	0.00	0.00	26.53	2.1	329.7		4.53	0.00	0.00	8.75		10.35	18.92	83.84	86.68	22-Sep-15 07:00:00		14.88	18.92	83.84	95.43
22-Sep-15 08:00:00	22-Sep-15 09:00:00		14.36	0.00	0.00	7.00	2.1	329.7		4.73	0.00	0.00	2.31		10.35	18.92	83.84	86.68	22-Sep-15 08:00:00		15.08	18.92	83.84	88.99
22-Sep-15 09:00:00	22-Sep-15 10:00:00		14.87	64.13	0.00	5.20	2.1	329.7		4.90	21.14	0.00	1.71		10.35	18.92	83.84	86.68	22-Sep-15 09:00:00		15.25	40.06	83.84	88.39
22-Sep-15 10:00:00	22-Sep-15 11:00:00		14.14	0.00	0.00	5.27	2.1	329.7		4.66	0.00	0.00	1.74		10.35	18.92	83.84	86.68	22-Sep-15 10:00:00		15.01	18.92	83.84	88.42
22-Sep-15 11:00:00	22-Sep-15 12:00:00		13.40	0.00	0.00	34.89	2.1	329.7		4.42	0.00	0.00	11.50		10.35	18.92	83.84	86.68	22-Sep-15 11:00:00		14.77	18.92	83.84	98.18
22-Sep-15 12:00:00	22-Sep-15 13:00:00		12.68	0.00	0.00	5.16	2.1	329.7		4.18	0.00	0.00	1.70		10.35	18.92	83.84	86.68	22-Sep-15 12:00:00		14.53	18.92	83.84	88.38
22-Sep-15 13:00:00	22-Sep-15 14:00:00		11.79	0.00	0.66	7.

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
24-Sep-15 11:00:00	24-Sep-15 12:00:00		0.71	0.00	0.00	5.00	2.1	329.7		0.23	0.00	0.00	1.65		10.35	18.92	83.84	86.68	24-Sep-15 11:00:00		10.58	18.92	83.84	88.33
24-Sep-15 12:00:00	24-Sep-15 13:00:00		0.38	0.00	0.00	4.99	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	24-Sep-15 12:00:00		10.35	18.92	83.84	88.32
24-Sep-15 13:00:00	24-Sep-15 14:00:00		0.00	0.00	0.00	4.97	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	24-Sep-15 13:00:00		10.35	18.92	83.84	88.32
24-Sep-15 14:00:00	24-Sep-15 15:00:00		0.00	0.00	0.00	5.81	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	24-Sep-15 14:00:00		10.35	18.92	83.84	88.60
24-Sep-15 15:00:00	24-Sep-15 16:00:00		0.00	0.00	0.00	6.95	2.1	329.7		0.00	0.00	0.00	2.29		10.35	18.92	83.84	86.68	24-Sep-15 15:00:00		10.35	18.92	83.84	88.97
24-Sep-15 16:00:00	24-Sep-15 17:00:00		0.00	0.00	0.00	5.61	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	24-Sep-15 16:00:00		10.35	18.92	83.84	88.53
24-Sep-15 17:00:00	24-Sep-15 18:00:00		0.00	0.00	0.00	6.23	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	24-Sep-15 17:00:00		10.35	18.92	83.84	88.74
24-Sep-15 18:00:00	24-Sep-15 19:00:00		0.00	0.00	0.00	5.43	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	24-Sep-15 18:00:00		10.35	18.92	83.84	88.47
24-Sep-15 19:00:00	24-Sep-15 20:00:00		0.00	0.00	0.00	8.11	2.1	329.7		0.00	0.00	0.00	2.68		10.35	18.92	83.84	86.68	24-Sep-15 19:00:00		10.35	18.92	83.84	89.36
24-Sep-15 20:00:00	24-Sep-15 21:00:00		0.00	0.00	0.00	5.54	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	24-Sep-15 20:00:00		10.35	18.92	83.84	88.51
24-Sep-15 21:00:00	24-Sep-15 22:00:00		0.00	0.00	0.00	14.26	2.1	329.7		0.00	0.00	0.00	4.70		10.35	18.92	83.84	86.68	24-Sep-15 21:00:00		10.35	18.92	83.84	91.38
24-Sep-15 22:00:00	24-Sep-15 23:00:00		0.00	0.00	0.00	5.19	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	24-Sep-15 22:00:00		10.35	18.92	83.84	88.39
24-Sep-15 23:00:00	25-Sep-15 00:00:00		0.00	0.00	0.00	8.85	2.1	329.7		0.00	0.00	0.00	2.92		10.35	18.92	83.84	86.68	24-Sep-15 23:00:00		10.35	18.92	83.84	89.60
25-Sep-15 00:00:00	25-Sep-15 01:00:00		0.00	0.00	0.00	5.21	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	25-Sep-15 00:00:00		10.35	18.92	83.84	88.40
25-Sep-15 01:00:00	25-Sep-15 02:00:00		0.07	0.00	0.00	92.79	2.1	329.7		0.00	0.00	0.00	30.59		10.35	18.92	83.84	86.68	25-Sep-15 01:00:00		10.35	18.92	83.84	117.27
25-Sep-15 02:00:00	25-Sep-15 03:00:00		0.00	0.00	0.00	5.13	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	25-Sep-15 02:00:00		10.35	18.92	83.84	88.37
25-Sep-15 03:00:00	25-Sep-15 04:00:00		0.00	0.00	0.00	5.16	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	25-Sep-15 03:00:00		10.35	18.92	83.84	88.38
25-Sep-15 04:00:00	25-Sep-15 05:00:00		0.00	0.00	0.00	43.47	2.1	329.7		0.00	0.00	0.00	14.33		10.35	18.92	83.84	86.68	25-Sep-15 04:00:00		10.35	18.92	83.84	101.01
25-Sep-15 05:00:00	25-Sep-15 06:00:00		0.00	0.00	0.00	5.11	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	25-Sep-15 05:00:00		10.35	18.92	83.84	88.36
25-Sep-15 06:00:00	25-Sep-15 07:00:00		0.00	0.00	0.00	69.52	2.1	329.7		0.00	0.00	0.00	22.92		10.35	18.92	83.84	86.68	25-Sep-15 06:00:00		10.35	18.92	83.84	109.60
25-Sep-15 07:00:00	25-Sep-15 08:00:00		0.00	0.00	0.00	5.10	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	25-Sep-15 07:00:00		10.35	18.92	83.84	88.36
25-Sep-15 08:00:00	25-Sep-15 09:00:00		0.00	0.00	0.00	5.19	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	25-Sep-15 08:00:00		10.35	18.92	83.84	88.39
25-Sep-15 09:00:00	25-Sep-15 10:00:00		0.00	0.00	0.00	27.35	2.1	329.7		0.00	0.00	0.00	9.02		10.35	18.92	83.84	86.68	25-Sep-15 09:00:00		10.35	18.92	83.84	95.70
25-Sep-15 10:00:00	25-Sep-15 11:00:00		0.00	0.00	0.00	5.44	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	25-Sep-15 10:00:00		10.35	18.92	83.84	88.47
25-Sep-15 11:00:00	25-Sep-15 12:00:00		0.00	0.00	0.00	5.21	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	25-Sep-15 11:00:00		10.35	18.92	83.84	88.40
25-Sep-15 12:00:00	25-Sep-15 13:00:00		0.00	0.00	0.00	66.63	2.1	329.7		0.00	0.00	0.00	21.97		10.35	18.92	83.84	86.68	25-Sep-15 12:00:00		10.35	18.92	83.84	108.65
25-Sep-15 13:00:00	25-Sep-15 14:00:00		0.00	0.00	0.00	4.94	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	25-Sep-15 13:00:00		10.35	18.92	83.84	88.31
25-Sep-15 14:00:00	25-Sep-15 15:00:00		0.00	0.00	0.00	4.85	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	25-Sep-15 14:00:00		10.35	18.92	83.84	88.28
25-Sep-15 15:00:00	25-Sep-15 16:00:00		0.00	0.00	0.00	50.66	2.1	329.7		0.00	0.00	0.00	16.70		10.35	18.92	83.84	86.68	25-Sep-15 15:00:00		10.35	18.92	83.84	103.38
25-Sep-15 16:00:00	25-Sep-15 17:00:00		0.24	0.00	0.00	4.57	2.1	329.7		0.08	0.00	0.00	1.51		10.35	18.92	83.84	86.68	25-Sep-15 16:00:00		10.43	18.92	83.84	88.19
25-Sep-15 17:00:00	25-Sep-15 18:00:00		0.66	0.00	0.00	77.58	2.1	329.7		0.22	0.00	0.00	25.58		10.35	18.92	83.84	86.68	25-Sep-15 17:00:00		10.57	18.92	83.84	112.26
25-Sep-15 18:00:00	25-Sep-15 19:00:00		1.08	0.00	0.00	4.97	2.1	329.7		0.36	0.00	0.00	1.64		10.35	18.92	83.84	86.68	25-Sep-15 18:00:00		10.71	18.92	83.84	88.32
25-Sep-15 19:00:00	25-Sep-15 20:00:00		1.41	0.00	0.00	19.41	2.1	329.7		0.46	0.00	0.00	6.40		10.35	18.92	83.84	86.68	25-Sep-15 19:00:00		10.81	18.92	83.84	93.08
25-Sep-15 20:00:00	25-Sep-15 21:00:00		0.00	0.00	0.00	4.97	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	25-Sep-15 20:00:00		10.35	18.92	83.84	88.32
25-Sep-15 21:00:00	25-Sep-15 22:00:00		0.00	0.00	0.00	27.45	2.1	329.7		0.00	0.00	0.00	9.05		10.35	18.92	83.84	86.68	25-Sep-15 21:00:00		10.35	18.92	83.84	95.73
25-Sep-15 22:00:00	25-Sep-15 23:00:00		0.00	0.00	0.00	4.96	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	25-Sep-15 22:00:00		10.35	18.92	83.84	88.32
25-Sep-15 23:00:00	26-Sep-15 00:00:00		0.00	0.00	0.00	4.90	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	25-Sep-15 23:00:00		10.35	18.92	83.84	88.30
26-Sep-15 00:00:00	26-Sep-15 01:00:00		0.00	0.00	0.00	4.84	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	26-Sep-15 00:00:00		10.35	18.92	83.84	88.28
26-Sep-15 01:00:00	26-Sep-15 02:00:00		0.00	0.00	0.00	4.83	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	26-Sep-15 01:00:00		10.35	18.92	83.84	88.27
26-Sep-15 02:00:00	26-Sep-15 03:00:00		0.00	0.00	0.00	11.56	2.1	329.7		0.00	0.00	0.00	3.81		10.35	18.92	83.84	86.68	26-Sep-15 02:00:00		10.35	18.92	83.84	90.49
26-Sep-15 03:00:00	26-Sep-15 04:00:00		0.00	0.00	0.00	5.12	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	26-Sep-15 03:00:00		10.35	18.92	83.84	88.37
26-Sep-15 04:00:00	26-Sep-15 05:00:00		0.00	0.00	0.00	5.15	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	26-Sep-15 04:00:00		10.35	18.92	83.84	88.38
26-Sep-15 05:00:00	26-Sep-15 06:00:00		0.00	0.00	0.00	98.98	2.1	329.7		0.00	0.00	0.00	32.63		10.35	18.92	83.84	86.68	26-Sep-15 05:00:00		10.35	18.92	83.84	119.31
26-Sep-15 06:00:00	26-Sep-15 07:00:00		0.00	0.00	0.00	4.97	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	26-Sep-15 06:00:00		10.35	18.92	83.84	88.32
26-Sep-15 07:00:00	26-Sep-15 08:00:00		0.00	0.00	0.00	175.29	2.1	329.7		0.00	0.00	0.00	57.79		10.35	18.92	83.84	86.68	26-Sep-15 07:00:00		10.35	18.92	83.84	144.47
26-Sep-15 08:00:00	26-Sep-15 09:00:00		0.00	0.00	0.00	4.67	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	26-Sep-15 08:00:00		10.35	18.92	83.84	88.22
26-Sep-15 09:00:00	26-Sep-15 10:00:00		0.00	0.00	0.00	4.66	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	26-Sep-15 09:00:00		10.35	18.92	83.84	88.22
26-Sep-15 10:00:00	26-Sep-15 11:00:00		0.00	0.00	0.00	4.65	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	26-Sep-15 10:00:00		10.35	18.92	83.84	88.21
26-Sep-15 11:00:00	26-Sep-15 12:00:00		0.00	0.00	0.00	4.65	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	26-Sep-15 11:00:00		10.35	18.92	83.84	88.21
26-Sep-15 12:00:00	26-Sep-15 13:00:00		0.00	0.00	0.00	4.67	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	26-Sep-15 12:00:00		10.35	18.92	83.84	88.22
26-Sep-15 13:00:00	26-Sep-15 14:00:00		0.00	0.00	0.00	15.56	2.1	329.7		0.00	0.00	0.00	5.13		10.35	18.92	83.84	86.68	26-Sep-15 13:00:00		10.35	18.92	83.84	91.81
26-Sep-15 14:00:00	26-Sep-15 15:00:00		0.00	0.00	0.00	5.33	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	26-Sep-15 14:00:00		10.35	18.92	83.84	88.44
26-Sep-15 15:00:00	26-Sep-15 16:00:00		0.00	0.00	0.00	20.91	2.1	329.7		0.00	0.00	0.00	6.89		10.35	18.92	83.84	86.68	26-Sep-15 15:00:00		10.35	18.92	83.84	93.57
26-Sep-15 16:00:00	26-Sep-15 17:00:00		0.00	0.00	0.00	4.67	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	26-Sep-15 16:00:00		10.35	18.92	83.84	88.22
26-Sep-15 17:00:00	26-Sep-15 18:00:00		0.00	0.00	0.00	103.83	2.1	329.7		0.00	0.00	0.00	34.23		10.35	18.92	83.84	86.68	26-Sep-15 17:00:00		10.35	18.92	83.84	120.91
26-Sep-15 18:00:00	26-Sep-15 19:00:00		0.00	0.00	0.00	4.68	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	26-Sep-15 18:00:00		10.35	18.92	83.84	88.22
26-Sep-15 19:00:00	26-Sep-15 20:00:00		0.00	0.00	0.00	4.73	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	26-Sep-15 19:00:00		10.35	18.92	83.84	88.24
26-Sep-15 20:00:00	26-Sep-15 21:00:00		0.00	0.00	0.00	4.79	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	26-Sep-15 20:00:00		10.35	18.92	83.84	88.26
26-Sep-15 21:00:00	26-Sep-15 22:00:00		0.00	0.00	0.00	19.66	2.1	329.7		0.00	0.00	0.00	6.48		10.35	18.92	83.84	86.68	26-Sep-15 21:00:00		10.35	18.92	83.84	93.16
26-Sep-15 22:00:00	26-Sep-15 23:00:00		0.00	0.00	0.00	4.86	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	26-Sep-15 22:00:00		10.35	18.92	83.84	88.28
26-Sep-15 23:00:00	27-Sep-15 00:00:00		0.00	0.00	0.00	4.80	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	26-Sep-15 23:00:00		10.35	18.92	83.84	88.26
27-Sep-15 00:00:00	27-Sep-15 01:00:00		0.00	0.00	0.00	4.75	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	27-Sep-15 00:00:00		10.35	18.92	83.84	88.24
27-Sep-15 01:00:00	27-Sep-15 02:00:00		0.00	0.00	0.00	56.03	2.1	329.7		0.00	0.00	0.00	18.47		10.35	18.92	83.84	86.68	27-Sep-15 01:00:00		10.35	18.92	83.84	105.15
27-Sep-15 02:00:00	27-Sep-15 03:00:00		0.00	0.00	0.00	4.71	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	27-Sep-15 02:00:00		10.35	18.92	83.84	88.23
27-Sep-15 03:00:00	27-Sep-15 04:00:00		0.00	0.00	0.00	5.44	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	27-Sep-15 03:00:00		10.35	18.92	83.84	88.47
27-Sep-15 04:00:00	27-Sep-15 05:00:00		0.00	0.00	0.00	4.65	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	27-Sep-15 04:00:00		10.35	18.92	83.84	88.21
27-Sep-15 05:00:00	27-Sep-15 06:00:00		0.00	0.00	0.00	42.36	2.1	329.7		0.00	0.00	0.00	13.97		10.35	18.92	83.84	86.68	27-Sep-15 05:00:00		10.35	18.92	83.84	100.65
27-Sep-15 06:00:00	27-Sep-15 07:00:00		0.00	0.00	0.00	5.39	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	27-Sep-15 06:00:00		10.35	18.92	83.84	88.46
27-Sep-15 07:00:00	27-Sep-15 08:00:00		0.00	0.00	0.00	6.32	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	27-Sep-15 07:00:00		10.35	18.92	83.84	88.76
27-Sep-15 08:00:00	27-Sep-15 09:00:00		0.00	0.00	0.00	7.25	2.1	329.7		0.00	0.00	0.00	2.39		10.35	18.92	83.84	86.68	27-Sep-15 08:00:00		10.35	18.92	83.84	89.07
27-Sep-15 09:00:00	27-Sep-15 10:00:00		0.00	0.00	0.00	6.01	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	27-Sep-15 09:00:00		10.35	18.92	83.84	88.66
27-Sep-15 10:00:00	27-Sep-15 11:00:00		0.00	0.00	0.00	4.69	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	27-Sep-15 10:00:00		10.35	18.92	83.84	88.22
27-Sep-15 11:00:00	27-Sep-15 12:00:00		0.00	0.00	0.00	24.28	2.1	329.7		0.00	0.00	0.00	8.00		10.35	18.92	83.84	86.68	27-Sep-15 11:00:00		10.35	18.92	83.84	94.68
27-Sep-15 12:00:00	27-Sep-15 13:00:00		0.00	0.00	0.00	4.45	2.1	329.7		0.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	27-Sep-15 12:00:00		10.35	18.92	83.84	88.15
27-Sep-15 13:00:00	27-Sep-15 14:00:00		0.00	0.00	0.00	4.53	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	27-Sep-15 13:00:00		10.35	18.92	83.84	88.17
27-Sep-15 14:00:00	27-Sep-15 15:00:00		0.00	0.00	0.00	4.23	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	27-Sep-15 14:00:00		10.35	18.92	83.84	88.07
27-Sep-15 15:00:00	27-Sep-15 16:00:00		0.00	0.00	0.00	4.92	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	27-Sep-15 15:00:00		10.35	18.92	83.84	88.30
27-Sep-15 16:00:00	27-Sep-15 17:00:00		0.23	0.00	0.00	4.15	2.1	329.7		0.08	0.00	0.00	1.37		10.35	18.92	83.84	86.68	27-Sep-15 16:00:00		10.43	18.92	83.84	88.05
27-Sep-15 17:00:00	27-Sep-15 18:00:00		0.00	0.00	0.00	19.09	2.1	329.7		0.00	0.00	0.00	6.30		10.35	18.92	83.84	86.68	27-Sep-15 17:00:00		10.35	18.92	83.84	92.98
27-Sep-15 18:00:00	27-Sep-15 19:00:00		0.00	0.00	0.00	4.44	2.1	329.7		0.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	27-Sep-15 18:00:00		10.35	18.92	83.84	88.15
27-Sep-15 19:00:00	27-Sep-15 20:00:00		0.00	0.00	0.00	27.85	2.1	329.7		0.00	0.00	0.00	9.18		10.35	18.92	83.84	86.68	27-Sep-15 19:00:00		10.35	18.92	83.84	95.86
27-Sep-15 20:00:00	27-Sep-15 21:00:00		0.00	0.00	0.00	4.53	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	27-Sep-15 20:00:00		10.35	18.92	83.84	88.17
27-Sep-15 21:00:00	27-Sep-15 22:00:00		0.00	0.00	0.00	47.28	2.1	329.7		0.00	0.00	0.00	15.59		10.35	18.92	83.84	86.68	27-Sep-15 21:00:00		10.35	18.92	83.84	102.27
27-Sep-15 22:00:00	27-Sep-15 23:00:00		0.00	0.00	0.00	4.35	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	27-Sep-15 22:00:00		10.35	18.92	83.84	88.11
27-Sep-15 23:00:00	28-Sep-15 00:00:00		0.00	0.00	0.00	4.43	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	27-Sep-15 23:00:00		10.35	18.92	83.84	88.14
28-Sep-15 00:00:00	28-Sep-15 01:00:00		0.00	0.00	0.00	4.50	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	28-Sep-15 00:00:00		10.35	18.92	83.84	88.16
28-Sep-15 01:00:00	28-Sep-15 02:00:00		0.00	0.00	0.00	4.55	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	28-Sep-15 01:00:00		10.35	18.92	83.84	88.18
28-Sep-15 02:00:00	28-Sep-15 03:00:00		0.00	0.00	0.00	42.72	2.1	329.7		0.00	0.00	0.00	14.09		10.35	18.92	83.84	86.68	28-Sep-15 02:00:00		10.35	18.92	83.84	100.77
28-Sep-15 03:00:00	28-Sep-15 04:00:00		0.00	0.00	0.00	4.54	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	28-Sep-15 03:00:00		10.35	18.92	83.84	88.18
28-Sep-15 04:00:00	28-Sep-15 05:00:00		0.00	0.00	0.00	6.35	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	28-Sep-15 04:00:00		10.35	18.92	83.84	88.77
28-Sep-15 05:00:00	28-Sep-15 06:00:00		0.00	0.00	0.00	4.41	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	28-Sep-15 05:00:00		10.35	18.92	83.84	88.13
28-Sep-15 06:00:00	28-Sep-15 07:00:00		0.00	0.00	0.00	12.17	2.1	329.7		0.00	0.00	0.00	4.01		10.35	18.92	83.84	86.68	28-Sep-15 06:00:00		10.35	18.92	83.84	90.69
28-Sep-15 07:00:00	28-Sep-15 08:00:00		0.00	0.00	0.00	4.43	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	28-Sep-15 07:00:00		10.35	18.92	83.84	88.14
28-Sep-15 08:00:00	28-Sep-15 09:00:00		0.01	0.00	0.00	4.39

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
30-Sep-15 06:00:00	30-Sep-15 07:00:00		1.04	0.00	0.00	46.42	2.1	329.7		0.34	0.00	0.00	15.30		10.35	18.92	83.84	86.68	30-Sep-15 06:00:00		10.69	18.92	83.84	101.98
30-Sep-15 07:00:00	30-Sep-15 08:00:00		1.08	0.00	0.00	4.91	2.1	329.7		0.36	0.00	0.00	1.62		10.35	18.92	83.84	86.68	30-Sep-15 07:00:00		10.71	18.92	83.84	88.30
30-Sep-15 08:00:00	30-Sep-15 09:00:00		0.67	0.00	0.00	4.84	2.1	329.7		0.22	0.00	0.00	1.60		10.35	18.92	83.84	86.68	30-Sep-15 08:00:00		10.57	18.92	83.84	88.28
30-Sep-15 09:00:00	30-Sep-15 10:00:00		0.25	0.00	0.00	4.78	2.1	329.7		0.08	0.00	0.00	1.58		10.35	18.92	83.84	86.68	30-Sep-15 09:00:00		10.43	18.92	83.84	88.26
30-Sep-15 10:00:00	30-Sep-15 11:00:00		0.12	0.00	0.00	4.79	2.1	329.7		0.04	0.00	0.00	1.58		10.35	18.92	83.84	86.68	30-Sep-15 10:00:00		10.39	18.92	83.84	88.26
30-Sep-15 11:00:00	30-Sep-15 12:00:00		0.00	0.00	0.00	4.86	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	30-Sep-15 11:00:00		10.35	18.92	83.84	88.28
30-Sep-15 12:00:00	30-Sep-15 13:00:00		0.00	0.00	0.00	5.09	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	30-Sep-15 12:00:00		10.35	18.92	83.84	88.36
30-Sep-15 13:00:00	30-Sep-15 14:00:00		9.04	0.00	0.00	4.76	2.1	329.7		2.98	0.00	0.00	1.57		10.35	18.92	83.84	86.68	30-Sep-15 13:00:00		13.33	18.92	83.84	88.25
30-Sep-15 14:00:00	30-Sep-15 15:00:00		13.89	0.00	0.00	4.70	2.1	329.7		4.58	0.00	0.00	1.55		10.35	18.92	83.84	86.68	30-Sep-15 14:00:00		14.93	18.92	83.84	88.23
30-Sep-15 15:00:00	30-Sep-15 16:00:00		3.60	0.00	0.00	20.70	2.1	329.7		1.19	0.00	0.00	6.83		10.35	18.92	83.84	86.68	30-Sep-15 15:00:00		11.54	18.92	83.84	93.51
30-Sep-15 16:00:00	30-Sep-15 17:00:00		2.15	0.00	0.00	4.45	2.1	329.7		0.71	0.00	0.00	1.47		10.35	18.92	83.84	86.68	30-Sep-15 16:00:00		11.06	18.92	83.84	88.15
30-Sep-15 17:00:00	30-Sep-15 18:00:00		1.50	0.00	0.00	22.06	2.1	329.7		0.49	0.00	0.00	7.27		10.35	18.92	83.84	86.68	30-Sep-15 17:00:00		10.84	18.92	83.84	93.95
30-Sep-15 18:00:00	30-Sep-15 19:00:00		0.85	0.00	0.00	4.11	2.1	329.7		0.28	0.00	0.00	1.36		10.35	18.92	83.84	86.68	30-Sep-15 18:00:00		10.63	18.92	83.84	88.04
30-Sep-15 19:00:00	30-Sep-15 20:00:00		0.22	0.00	0.00	79.11	2.1	329.7		0.07	0.00	0.00	26.08		10.35	18.92	83.84	86.68	30-Sep-15 19:00:00		10.42	18.92	83.84	112.76
30-Sep-15 20:00:00	30-Sep-15 21:00:00		0.29	0.00	0.00	4.36	2.1	329.7		0.10	0.00	0.00	1.44		10.35	18.92	83.84	86.68	30-Sep-15 20:00:00		10.45	18.92	83.84	88.12
30-Sep-15 21:00:00	30-Sep-15 22:00:00		0.73	0.00	0.00	56.27	2.1	329.7		0.24	0.00	0.00	18.55		10.35	18.92	83.84	86.68	30-Sep-15 21:00:00		10.59	18.92	83.84	105.23
30-Sep-15 22:00:00	30-Sep-15 23:00:00		1.26	0.00	0.00	4.66	2.1	329.7		0.41	0.00	0.00	1.53		10.35	18.92	83.84	86.68	30-Sep-15 22:00:00		10.76	18.92	83.84	88.21
30-Sep-15 23:00:00	01-Oct-15 00:00:00		5.16	0.00	0.00	115.30	2.1	329.7		1.70	0.00	0.00	38.01		10.35	18.92	83.84	86.68	30-Sep-15 23:00:00		12.05	18.92	83.84	124.69
01-Oct-15 00:00:00	01-Oct-15 01:00:00		0.93	0.00	0.00	4.70	2.1	329.7		0.31	0.00	0.00	1.55		10.35	18.92	83.84	86.68	01-Oct-15 00:00:00		10.66	18.92	83.84	88.23
01-Oct-15 01:00:00	01-Oct-15 02:00:00		4.59	0.00	0.00	9.19	2.1	329.7		1.51	0.00	0.00	3.03		10.35	18.92	83.84	86.68	01-Oct-15 01:00:00		11.86	18.92	83.84	89.71
01-Oct-15 02:00:00	01-Oct-15 03:00:00		5.93	0.00	0.00	5.11	2.1	329.7		1.95	0.00	0.00	1.69		10.35	18.92	83.84	86.68	01-Oct-15 02:00:00		12.30	18.92	83.84	88.37
01-Oct-15 03:00:00	01-Oct-15 04:00:00		11.10	0.00	0.00	12.46	2.1	329.7		3.66	0.00	0.00	4.11		10.35	18.92	83.84	86.68	01-Oct-15 03:00:00		14.01	18.92	83.84	90.79
01-Oct-15 04:00:00	01-Oct-15 05:00:00		0.60	0.00	0.00	5.17	2.1	329.7		0.20	0.00	0.00	1.71		10.35	18.92	83.84	86.68	01-Oct-15 04:00:00		10.55	18.92	83.84	88.39
01-Oct-15 05:00:00	01-Oct-15 06:00:00		4.01	0.00	0.00	42.51	2.1	329.7		1.32	0.00	0.00	14.02		10.35	18.92	83.84	86.68	01-Oct-15 05:00:00		11.67	18.92	83.84	100.70
01-Oct-15 06:00:00	01-Oct-15 07:00:00		12.64	0.00	0.00	5.27	2.1	329.7		4.17	0.00	0.00	1.74		10.35	18.92	83.84	86.68	01-Oct-15 06:00:00		14.52	18.92	83.84	88.42
01-Oct-15 07:00:00	01-Oct-15 08:00:00		12.31	0.00	0.00	6.85	2.1	329.7		4.06	0.00	0.00	2.26		10.35	18.92	83.84	86.68	01-Oct-15 07:00:00		14.41	18.92	83.84	88.94
01-Oct-15 08:00:00	01-Oct-15 09:00:00		12.05	0.00	0.00	5.46	2.1	329.7		3.97	0.00	0.00	1.80		10.35	18.92	83.84	86.68	01-Oct-15 08:00:00		14.32	18.92	83.84	88.48
01-Oct-15 09:00:00	01-Oct-15 10:00:00		12.30	0.00	0.00	5.62	2.1	329.7		4.06	0.00	0.00	1.85		10.35	18.92	83.84	86.68	01-Oct-15 09:00:00		14.41	18.92	83.84	88.53
01-Oct-15 10:00:00	01-Oct-15 11:00:00		9.32	0.00	0.00	5.79	2.1	329.7		3.07	0.00	0.00	1.91		10.35	18.92	83.84	86.68	01-Oct-15 10:00:00		13.42	18.92	83.84	88.59
01-Oct-15 11:00:00	01-Oct-15 12:00:00		8.39	0.00	0.00	5.93	2.1	329.7		2.77	0.00	0.00	1.95		10.35	18.92	83.84	86.68	01-Oct-15 11:00:00		13.12	18.92	83.84	88.63
01-Oct-15 12:00:00	01-Oct-15 13:00:00		8.40	0.00	0.00	5.91	2.1	329.7		2.77	0.00	0.00	1.95		10.35	18.92	83.84	86.68	01-Oct-15 12:00:00		13.12	18.92	83.84	88.63
01-Oct-15 13:00:00	01-Oct-15 14:00:00		6.99	0.00	0.00	5.87	2.1	329.7		2.30	0.00	0.00	1.93		10.35	18.92	83.84	86.68	01-Oct-15 13:00:00		12.65	18.92	83.84	88.61
01-Oct-15 14:00:00	01-Oct-15 15:00:00		6.71	0.00	0.00	75.97	2.1	329.7		2.21	0.00	0.00	25.05		10.35	18.92	83.84	86.68	01-Oct-15 14:00:00		12.56	18.92	83.84	111.73
01-Oct-15 15:00:00	01-Oct-15 16:00:00		5.23	0.00	0.00	8.95	2.1	329.7		1.72	0.00	0.00	2.95		10.35	18.92	83.84	86.68	01-Oct-15 15:00:00		12.07	18.92	83.84	89.63
01-Oct-15 16:00:00	01-Oct-15 17:00:00		10.54	0.00	0.00	39.61	2.1	329.7		3.48	0.00	0.00	13.06		10.35	18.92	83.84	86.68	01-Oct-15 16:00:00		13.83	18.92	83.84	99.74
01-Oct-15 17:00:00	01-Oct-15 18:00:00		11.33	0.00	0.00	5.56	2.1	329.7		3.74	0.00	0.00	1.83		10.35	18.92	83.84	86.68	01-Oct-15 17:00:00		14.09	18.92	83.84	88.51
01-Oct-15 18:00:00	01-Oct-15 19:00:00		26.96	0.00	0.00	5.57	2.1	329.7		8.89	0.00	0.00	1.84		10.35	18.92	83.84	86.68	01-Oct-15 18:00:00		19.24	18.92	83.84	88.52
01-Oct-15 19:00:00	01-Oct-15 20:00:00		29.29	0.00	0.00	18.69	2.1	329.7		9.66	0.00	0.00	6.16		10.35	18.92	83.84	86.68	01-Oct-15 19:00:00		20.01	18.92	83.84	92.84
01-Oct-15 20:00:00	01-Oct-15 21:00:00		1.64	0.00	0.00	5.61	2.1	329.7		0.54	0.00	0.00	1.85		10.35	18.92	83.84	86.68	01-Oct-15 20:00:00		10.89	18.92	83.84	88.53
01-Oct-15 21:00:00	01-Oct-15 22:00:00		3.17	0.00	0.00	19.48	2.1	329.7		1.05	0.00	0.00	6.42		10.35	18.92	83.84	86.68	01-Oct-15 21:00:00		11.40	18.92	83.84	93.10
01-Oct-15 22:00:00	01-Oct-15 23:00:00		3.78	0.00	0.00	46.11	2.1	329.7		1.25	0.00	0.00	15.20		10.35	18.92	83.84	86.68	01-Oct-15 22:00:00		11.60	18.92	83.84	101.88
01-Oct-15 23:00:00	02-Oct-15 00:00:00		42.23	0.00	0.00	11.82	2.1	329.7		13.92	0.00	0.00	3.90		10.35	18.92	83.84	86.68	01-Oct-15 23:00:00		24.27	18.92	83.84	90.58
02-Oct-15 00:00:00	02-Oct-15 01:00:00		574.86	0.00	0.00	6.00	2.1	329.7		189.53	0.00	0.00	1.98		10.35	18.92	83.84	86.68	02-Oct-15 00:00:00		199.88	18.92	83.84	88.66
02-Oct-15 01:00:00	02-Oct-15 02:00:00		595.06	0.00	0.00	6.14	2.1	329.7		196.19	0.00	0.00	2.03		10.35	18.92	83.84	86.68	02-Oct-15 01:00:00		206.54	18.92	83.84	88.71
02-Oct-15 02:00:00	02-Oct-15 03:00:00		657.41	0.00	0.00	18.59	2.1	329.7		216.75	0.00	0.00	6.13		10.35	18.92	83.84	86.68	02-Oct-15 02:00:00		227.10	18.92	83.84	92.81
02-Oct-15 03:00:00	02-Oct-15 04:00:00		728.74	0.00	0.00	6.10	2.1	329.7		240.27	0.00	0.00	2.01		10.35	18.92	83.84	86.68	02-Oct-15 03:00:00		250.62	18.92	83.84	88.69
02-Oct-15 04:00:00	02-Oct-15 05:00:00		700.12	0.00	0.00	113.80	2.1	329.7		230.83	0.00	0.00	37.52		10.35	18.92	83.84	86.68	02-Oct-15 04:00:00		241.18	18.92	83.84	124.20
02-Oct-15 05:00:00	02-Oct-15 06:00:00		635.52	0.00	0.00	5.85	2.1	329.7		209.53	0.00	0.00	1.93		10.35	18.92	83.84	86.68	02-Oct-15 05:00:00		219.88	18.92	83.84	88.61
02-Oct-15 06:00:00	02-Oct-15 07:00:00		210.95	0.00	0.00	14.89	2.1	329.7		69.55	0.00	0.00	4.91		10.35	18.92	83.84	86.68	02-Oct-15 06:00:00		79.90	18.92	83.84	91.59
02-Oct-15 07:00:00	02-Oct-15 08:00:00		0.70	0.00	0.00	5.65	2.1	329.7		0.23	0.00	0.00	1.86		10.35	18.92	83.84	86.68	02-Oct-15 07:00:00		10.58	18.92	83.84	88.54
02-Oct-15 08:00:00	02-Oct-15 09:00:00		0.00	0.00	0.00	5.53	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	02-Oct-15 08:00:00		10.35	18.92	83.84	88.50
02-Oct-15 09:00:00	02-Oct-15 10:00:00		0.00	0.00	0.00	67.06	2.1	329.7		0.00	0.00	0.00	22.11		10.35	18.92	83.84	86.68	02-Oct-15 09:00:00		10.35	18.92	83.84	108.79
02-Oct-15 10:00:00	02-Oct-15 11:00:00		0.00	0.00	0.00	5.46	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	02-Oct-15 10:00:00		10.35	18.92	83.84	88.48
02-Oct-15 11:00:00	02-Oct-15 12:00:00		0.00	0.00	0.00	7.20	2.1	329.7		0.00	0.00	0.00	2.37		10.35	18.92	83.84	86.68	02-Oct-15 11:00:00		10.35	18.92	83.84	89.05
02-Oct-15 12:00:00	02-Oct-15 13:00:00		0.00	0.00	0.00	5.42	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	02-Oct-15 12:00:00		10.35	18.92	83.84	88.47
02-Oct-15 13:00:00	02-Oct-15 14:00:00		0.00	0.00	0.00	5.48	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	02-Oct-15 13:00:00		10.35	18.92	83.84	88.49
02-Oct-15 14:00:00	02-Oct-15 15:00:00		0.00	0.00	0.00	5.24	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	02-Oct-15 14:00:00		10.35	18.92	83.84	88.41
02-Oct-15 15:00:00	02-Oct-15 16:00:00		0.00	0.00	0.00	5.94	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	02-Oct-15 15:00:00		10.35	18.92	83.84	88.64
02-Oct-15 16:00:00	02-Oct-15 17:00:00		0.00	0.00	0.00	5.32	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	02-Oct-15 16:00:00		10.35	18.92	83.84	88.43
02-Oct-15 17:00:00	02-Oct-15 18:00:00		0.00	0.00	0.00	26.16	2.1	329.7		0.00	0.00	0.00	8.62		10.35	18.92	83.84	86.68	02-Oct-15 17:00:00		10.35	18.92	83.84	95.30
02-Oct-15 18:00:00	02-Oct-15 19:00:00		0.00	0.00	0.00	5.56	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	02-Oct-15 18:00:00		10.35	18.92	83.84	88.51
02-Oct-15 19:00:00	02-Oct-15 20:00:00		0.19	0.00	0.00	19.29	2.1	329.7		0.06	0.00	0.00	6.36		10.35	18.92	83.84	86.68	02-Oct-15 19:00:00		10.41	18.92	83.84	93.04
02-Oct-15 20:00:00	02-Oct-15 21:00:00		1.48	0.00	0.00	5.77	2.1	329.7		0.49	0.00	0.00	1.90		10.35	18.92	83.84	86.68	02-Oct-15 20:00:00		10.84	18.92	83.84	88.58
02-Oct-15 21:00:00	02-Oct-15 22:00:00		0.37	0.00	0.00	5.83	2.1	329.7		0.12	0.00	0.00	1.92		10.35	18.92	83.84	86.68	02-Oct-15 21:00:00		10.47	18.92	83.84	88.60
02-Oct-15 22:00:00	02-Oct-15 23:00:00		2.41	0.00	0.00	5.90	2.1	329.7		0.80	0.00	0.00	1.94		10.35	18.92	83.84	86.68	02-Oct-15 22:00:00		11.15	18.92	83.84	88.62
02-Oct-15 23:00:00	03-Oct-15 00:00:00		1.95	0.00	0.00	7.24	2.1	329.7		0.64	0.00	0.00	2.39		10.35	18.92	83.84	86.68	02-Oct-15 23:00:00		10.99	18.92	83.84	89.07
03-Oct-15 00:00:00	03-Oct-15 01:00:00		1.22	0.00	0.00	27.70	2.1	329.7		0.40	0.00	0.00	9.13		10.35	18.92	83.84	86.68	03-Oct-15 00:00:00		10.75	18.92	83.84	95.81
03-Oct-15 01:00:00	03-Oct-15 02:00:00		0.50	0.00	0.00	6.47	2.1	329.7		0.16	0.00	0.00	2.13		10.35	18.92	83.84	86.68	03-Oct-15 01:00:00		10.51	18.92	83.84	88.81
03-Oct-15 02:00:00	03-Oct-15 03:00:00		0.01	0.00	0.00	6.43	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	03-Oct-15 02:00:00		10.35	18.92	83.84	88.80
03-Oct-15 03:00:00	03-Oct-15 04:00:00		0.00	0.00	0.00	6.38	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	03-Oct-15 03:00:00		10.35	18.92	83.84	88.79
03-Oct-15 04:00:00	03-Oct-15 05:00:00		0.00	0.00	0.00	19.89	2.1	329.7		0.00	0.00	0.00	6.56		10.35	18.92	83.84	86.68	03-Oct-15 04:00:00		10.35	18.92	83.84	93.24
03-Oct-15 05:00:00	03-Oct-15 06:00:00		0.00	0.00	0.00	6.38	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	03-Oct-15 05:00:00		10.35	18.92	83.84	88.78
03-Oct-15 06:00:00	03-Oct-15 07:00:00		0.30	0.00	0.00	6.37	2.1	329.7		0.10	0.00	0.00	2.10		10.35	18.92	83.84	86.68	03-Oct-15 06:00:00		10.45	18.92	83.84	88.78
03-Oct-15 07:00:00	03-Oct-15 08:00:00		1.23	0.00	0.00	6.36	2.1	329.7		0.40	0.00	0.00	2.10		10.35	18.92	83.84	86.68	03-Oct-15 07:00:00		10.75	18.92	83.84	88.78
03-Oct-15 08:00:00	03-Oct-15 09:00:00		3.41	0.00	0.00	7.01	2.1	329.7		1.13	0.00	0.00	2.31		10.35	18.92	83.84	86.68	03-Oct-15 08:00:00		11.48	18.92	83.84	88.99
03-Oct-15 09:00:00	03-Oct-15 10:00:00		6.13	0.00	0.00	7.09	2.1	329.7		2.02	0.00	0.00	2.34		10.35	18.92	83.84	86.68	03-Oct-15 09:00:00		12.37	18.92	83.84	89.02
03-Oct-15 10:00:00	03-Oct-15 11:00:00		3.44	0.00	0.00	8.22	2.1	329.7		1.13	0.00	0.00	2.71		10.35	18.92	83.84	86.68	03-Oct-15 10:00:00		11.48	18.92	83.84	89.39
03-Oct-15 11:00:00	03-Oct-15 12:00:00		1.16	0.00	0.00	9.35	2.1	329.7		0.38	0.00	0.00	3.08		10.35	18.92	83.84	86.68	03-Oct-15 11:00:00		10.73	18.92	83.84	89.76
03-Oct-15 12:00:00	03-Oct-15 13:00:00		0.78	0.00	0.00	26.98	2.1	329.7		0.26	0.00	0.00	8.90		10.35	18.92	83.84	86.68	03-Oct-15 12:00:00		10.61	18.92	83.84	95.58
03-Oct-15 13:00:00	03-Oct-15 14:00:00		0.41	0.00	0.00	5.94	2.1	329.7		0.13	0.00	0.00	1.96		10.35	18.92	83.84	86.68	03-Oct-15 13:00:00		10.48	18.92	83.84	88.64
03-Oct-15 14:00:00	03-Oct-15 15:00:00		0.42	0.00	0.00	6.00	2.1	329.7		0.14	0.00	0.00	1.98		10.35	18.92	83.84	86.68	03-Oct-15 14:00:00		10.49	18.92	83.84	88.66
03-Oct-15 15:00:00	03-Oct-15 16:00:00		1.23	0.00	0.00	5.65	2.1	329.7		0.41	0.00	0.00	1.86		10.35	18.92	83.84	86.68	03-Oct-15 15:00:00		10.76	18.92	83.84	88.54
03-Oct-15 16:00:00	03-Oct-15 17:00:00		0.00	0.00	0.00	5.55	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	03-Oct-15 16:00:00		10.35	18.92	83.84	88.51
03-Oct-15 17:00:00	03-Oct-15 18:00:00		0.00	0.00	0.00	5.44	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	03-Oct-15 17:00:00		10.35	18.92	83.84	88.47
03-Oct-15 18:00:00	03-Oct-15 19:00:00		0.00	0.00	0.00	22.17	2.1	329.7		0.00	0.00	0.00	7.31		10.35	18.92	83.84	86.68	03-Oct-15 18:00:00		10.35	18.92	83.84	93.99
03-Oct-15 19:00:00	03-Oct-15 20:00:00		0.00	0.00	0.00	5.28	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	03-Oct-15 19:00:00		10.35	18.92	83.84	88.42
03-Oct-15 20:00:00	03-Oct-15 21:00:00		0.00	0.00	0.00	5.28	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	03-Oct-15 20:00:00		10.35	18.92	83.84	88.42
03-Oct-15 21:00:00	03-Oct-15 22:00:00		0.00	0.00	0.00	5.27	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	03-Oct-15 21:00:00		10.35	18.92	83.84	88.42
03-Oct-15 22:00:00	03-Oct-15 23:00:00		0.00	0.00	0.00	11.90	2.1	329.7		0.00	0.00	0.00	3.92		10.35	18.92	83.84	86.68	03-Oct-15 22:00:00		10.35	18.92	83.84	90.60
03-Oct-15 23:00:00	04-Oct-15 00:00:00		0.01	0.00	0.00	5.24	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	03-Oct-15 23:00:00		10.35	18.92	83.84	88.41
04-Oct-15 00:00:00	04-Oct-15 01:00:00		7.29	0.00	0.00	33.34	2.1	329.7		2.40	0.00	0.00	10.99		10.35	18.92	83.84	86.68	04-Oct-15 00:00:00		12.75	18.92	83.84	97.67
04-Oct-15 01:00:00	04-Oct-15 02:00:00		6.66	0.00	0.00	4.90	2.1	329.7		2.20	0.00	0.00	1.61		10.35	18.92	83.84	86.68	04-Oct-15 01:00:00		12.55	18.92	83.84	88.29
04-Oct-15 02:00:00	04-Oct-15 03:00:00		12.94	0.00	0.00	4.84	2.1	329.7		4.27	0.00	0.00	1.60		10.35	18.92	83.84	86.68	04-Oct-15 02:00:00		14.62	18.92	83.84	88.28
04-Oct-15 03:00:00	04-Oct-15 04:00:00		14.58	0.00	0.00	4.78

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
06-Oct-15 01:00:00	06-Oct-15 02:00:00		0.00	0.00	0.00	6.68	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	06-Oct-15 01:00:00		**10.35**	**18.92**	**83.84**	**88.88**
06-Oct-15 02:00:00	06-Oct-15 03:00:00		0.00	0.00	0.00	5.37	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	06-Oct-15 02:00:00		**10.35**	**18.92**	**83.84**	**88.45**
06-Oct-15 03:00:00	06-Oct-15 04:00:00		0.00	0.00	0.00	5.73	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	06-Oct-15 03:00:00		**10.35**	**18.92**	**83.84**	**88.57**
06-Oct-15 04:00:00	06-Oct-15 05:00:00		0.00	0.00	0.00	5.80	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	06-Oct-15 04:00:00		**10.35**	**18.92**	**83.84**	**88.59**
06-Oct-15 05:00:00	06-Oct-15 06:00:00		0.32	0.00	0.00	52.75	2.1	329.7		0.10	0.00	0.00	17.39		10.35	18.92	83.84	86.68	06-Oct-15 05:00:00		**10.45**	**18.92**	**83.84**	**104.07**
06-Oct-15 06:00:00	06-Oct-15 07:00:00		0.00	0.00	0.00	6.00	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	06-Oct-15 06:00:00		**10.35**	**18.92**	**83.84**	**88.66**
06-Oct-15 07:00:00	06-Oct-15 08:00:00		0.00	0.00	0.00	6.09	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	06-Oct-15 07:00:00		**10.35**	**18.92**	**83.84**	**88.69**
06-Oct-15 08:00:00	06-Oct-15 09:00:00		0.00	0.00	0.00	6.17	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	06-Oct-15 08:00:00		**10.35**	**18.92**	**83.84**	**88.72**
06-Oct-15 09:00:00	06-Oct-15 10:00:00		0.00	0.00	0.00	22.52	2.1	329.7		0.00	0.00	0.00	7.43		10.35	18.92	83.84	86.68	06-Oct-15 09:00:00		**10.35**	**18.92**	**83.84**	**94.11**
06-Oct-15 10:00:00	06-Oct-15 11:00:00		0.00	0.00	0.00	5.77	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	06-Oct-15 10:00:00		**10.35**	**18.92**	**83.84**	**88.58**
06-Oct-15 11:00:00	06-Oct-15 12:00:00		0.00	0.00	0.00	9.78	2.1	329.7		0.00	0.00	0.00	3.22		10.35	18.92	83.84	86.68	06-Oct-15 11:00:00		**10.35**	**18.92**	**83.84**	**89.90**
06-Oct-15 12:00:00	06-Oct-15 13:00:00		0.00	0.00	0.00	4.98	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	06-Oct-15 12:00:00		**10.35**	**18.92**	**83.84**	**88.32**
06-Oct-15 13:00:00	06-Oct-15 14:00:00		2.14	0.00	0.00	5.24	2.1	329.7		0.70	0.00	0.00	1.73		10.35	18.92	83.84	86.68	06-Oct-15 13:00:00		**11.05**	**18.92**	**83.84**	**88.41**
06-Oct-15 14:00:00	06-Oct-15 15:00:00		0.00	0.00	0.00	4.63	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	06-Oct-15 14:00:00		**10.35**	**18.92**	**83.84**	**88.21**
06-Oct-15 15:00:00	06-Oct-15 16:00:00		0.00	0.00	0.00	5.87	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	06-Oct-15 15:00:00		**10.35**	**18.92**	**83.84**	**88.61**
06-Oct-15 16:00:00	06-Oct-15 17:00:00		0.00	0.00	0.00	4.61	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	06-Oct-15 16:00:00		**10.35**	**18.92**	**83.84**	**88.20**
06-Oct-15 17:00:00	06-Oct-15 18:00:00		0.00	214.11	0.00	24.22	2.1	329.7		0.00	70.59	0.00	7.99		10.35	18.92	83.84	86.68	06-Oct-15 17:00:00		**10.35**	**89.51**	**83.84**	**94.67**
06-Oct-15 18:00:00	06-Oct-15 19:00:00		0.00	713.02	0.00	4.58	2.1	329.7		0.00	235.08	0.00	1.51		10.35	18.92	83.84	86.68	06-Oct-15 18:00:00		**10.35**	**254.00**	**83.84**	**88.19**
06-Oct-15 19:00:00	06-Oct-15 20:00:00		0.00	807.34	0.00	4.64	2.1	329.7		0.00	266.18	0.00	1.53		10.35	18.92	83.84	86.68	06-Oct-15 19:00:00		**10.35**	**285.10**	**83.84**	**88.21**
06-Oct-15 20:00:00	06-Oct-15 21:00:00		0.00	798.32	0.00	4.69	2.1	329.7		0.00	263.21	0.00	1.55		10.35	18.92	83.84	86.68	06-Oct-15 20:00:00		**10.35**	**282.13**	**83.84**	**88.23**
06-Oct-15 21:00:00	06-Oct-15 22:00:00		0.00	255.63	0.00	29.77	2.1	329.7		0.00	84.28	0.00	9.82		10.35	18.92	83.84	86.68	06-Oct-15 21:00:00		**10.35**	**103.20**	**83.84**	**96.50**
06-Oct-15 22:00:00	06-Oct-15 23:00:00		0.07	0.00	0.00	5.19	2.1	329.7		0.02	0.00	0.00	1.71		10.35	18.92	83.84	86.68	06-Oct-15 22:00:00		**10.37**	**18.92**	**83.84**	**88.39**
06-Oct-15 23:00:00	07-Oct-15 00:00:00		0.00	0.00	0.00	25.70	2.1	329.7		0.00	0.00	0.00	8.47		10.35	18.92	83.84	86.68	06-Oct-15 23:00:00		**10.35**	**18.92**	**83.84**	**95.15**
07-Oct-15 00:00:00	07-Oct-15 01:00:00		0.35	0.00	0.00	5.29	2.1	329.7		0.11	0.00	0.00	1.75		10.35	18.92	83.84	86.68	07-Oct-15 00:00:00		**10.46**	**18.92**	**83.84**	**88.43**
07-Oct-15 01:00:00	07-Oct-15 02:00:00		0.00	0.00	0.00	5.93	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	07-Oct-15 01:00:00		**10.35**	**18.92**	**83.84**	**88.63**
07-Oct-15 02:00:00	07-Oct-15 03:00:00		0.00	0.00	0.00	5.44	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	07-Oct-15 02:00:00		**10.35**	**18.92**	**83.84**	**88.47**
07-Oct-15 03:00:00	07-Oct-15 04:00:00		0.00	0.00	0.00	5.58	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	07-Oct-15 03:00:00		**10.35**	**18.92**	**83.84**	**88.52**
07-Oct-15 04:00:00	07-Oct-15 05:00:00		0.00	0.00	0.00	5.72	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	07-Oct-15 04:00:00		**10.35**	**18.92**	**83.84**	**88.57**
07-Oct-15 05:00:00	07-Oct-15 06:00:00		0.00	0.00	0.00	5.83	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	07-Oct-15 05:00:00		**10.35**	**18.92**	**83.84**	**88.60**
07-Oct-15 06:00:00	07-Oct-15 07:00:00		0.00	0.00	0.00	5.83	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	07-Oct-15 06:00:00		**10.35**	**18.92**	**83.84**	**88.60**
07-Oct-15 07:00:00	07-Oct-15 08:00:00		0.00	0.00	0.00	5.82	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	07-Oct-15 07:00:00		**10.35**	**18.92**	**83.84**	**88.60**
07-Oct-15 08:00:00	07-Oct-15 09:00:00		0.00	0.00	0.00	7.20	2.1	329.7		0.00	0.00	0.00	2.37		10.35	18.92	83.84	86.68	07-Oct-15 08:00:00		**10.35**	**18.92**	**83.84**	**89.05**
07-Oct-15 09:00:00	07-Oct-15 10:00:00		0.00	0.00	0.00	5.46	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	07-Oct-15 09:00:00		**10.35**	**18.92**	**83.84**	**88.48**
07-Oct-15 10:00:00	07-Oct-15 11:00:00		0.00	0.00	0.00	6.53	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	07-Oct-15 10:00:00		**10.35**	**18.92**	**83.84**	**88.83**
07-Oct-15 11:00:00	07-Oct-15 12:00:00		0.00	0.00	0.00	4.74	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	07-Oct-15 11:00:00		**10.35**	**18.92**	**83.84**	**88.24**
07-Oct-15 12:00:00	07-Oct-15 13:00:00		0.38	0.00	0.00	114.27	2.1	329.7		0.12	0.00	0.00	37.67		10.35	18.92	83.84	86.68	07-Oct-15 12:00:00		**10.47**	**18.92**	**83.84**	**124.35**
07-Oct-15 13:00:00	07-Oct-15 14:00:00		0.00	0.00	0.00	4.76	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	07-Oct-15 13:00:00		**10.35**	**18.92**	**83.84**	**88.25**
07-Oct-15 14:00:00	07-Oct-15 15:00:00		0.00	0.00	0.00	4.37	2.1	329.7		0.00	0.00	0.00	1.44		10.35	18.92	83.84	86.68	07-Oct-15 14:00:00		**10.35**	**18.92**	**83.84**	**88.12**
07-Oct-15 15:00:00	07-Oct-15 16:00:00		1.03	0.00	0.00	57.45	2.1	329.7		0.34	0.00	0.00	18.94		10.35	18.92	83.84	86.68	07-Oct-15 15:00:00		**10.69**	**18.92**	**83.84**	**105.62**
07-Oct-15 16:00:00	07-Oct-15 17:00:00		6.78	0.00	0.00	4.10	2.1	329.7		2.23	0.00	0.00	1.35		10.35	18.92	83.84	86.68	07-Oct-15 16:00:00		**12.58**	**18.92**	**83.84**	**88.03**
07-Oct-15 17:00:00	07-Oct-15 18:00:00		5.88	0.00	0.00	4.12	2.1	329.7		1.94	0.00	0.00	1.36		10.35	18.92	83.84	86.68	07-Oct-15 17:00:00		**12.29**	**18.92**	**83.84**	**88.04**
07-Oct-15 18:00:00	07-Oct-15 19:00:00		12.53	0.00	0.00	4.63	2.1	329.7		4.13	0.00	0.00	1.53		10.35	18.92	83.84	86.68	07-Oct-15 18:00:00		**14.48**	**18.92**	**83.84**	**88.21**
07-Oct-15 19:00:00	07-Oct-15 20:00:00		11.77	0.00	0.00	26.15	2.1	329.7		3.88	0.00	0.00	8.62		10.35	18.92	83.84	86.68	07-Oct-15 19:00:00		**14.23**	**18.92**	**83.84**	**95.30**
07-Oct-15 20:00:00	07-Oct-15 21:00:00		8.19	0.00	0.00	4.56	2.1	329.7		2.70	0.00	0.00	1.50		10.35	18.92	83.84	86.68	07-Oct-15 20:00:00		**13.05**	**18.92**	**83.84**	**88.18**
07-Oct-15 21:00:00	07-Oct-15 22:00:00		0.65	0.00	0.00	6.10	2.1	329.7		0.21	0.00	0.00	2.01		10.35	18.92	83.84	86.68	07-Oct-15 21:00:00		**10.56**	**18.92**	**83.84**	**88.69**
07-Oct-15 22:00:00	07-Oct-15 23:00:00		1.86	0.00	0.00	5.08	2.1	329.7		0.61	0.00	0.00	1.67		10.35	18.92	83.84	86.68	07-Oct-15 22:00:00		**10.96**	**18.92**	**83.84**	**88.35**
07-Oct-15 23:00:00	08-Oct-15 00:00:00		1.30	0.00	0.00	5.24	2.1	329.7		0.43	0.00	0.00	1.73		10.35	18.92	83.84	86.68	07-Oct-15 23:00:00		**10.78**	**18.92**	**83.84**	**88.41**
08-Oct-15 00:00:00	08-Oct-15 01:00:00		0.73	0.00	0.00	5.40	2.1	329.7		0.24	0.00	0.00	1.78		10.35	18.92	83.84	86.68	08-Oct-15 00:00:00		**10.59**	**18.92**	**83.84**	**88.46**
08-Oct-15 01:00:00	08-Oct-15 02:00:00		0.18	0.00	0.00	5.57	2.1	329.7		0.06	0.00	0.00	1.84		10.35	18.92	83.84	86.68	08-Oct-15 01:00:00		**10.41**	**18.92**	**83.84**	**88.52**
08-Oct-15 02:00:00	08-Oct-15 03:00:00		0.00	0.00	0.00	5.60	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	08-Oct-15 02:00:00		**10.35**	**18.92**	**83.84**	**88.53**
08-Oct-15 03:00:00	08-Oct-15 04:00:00		0.00	0.00	0.00	52.64	2.1	329.7		0.00	0.00	0.00	17.36		10.35	18.92	83.84	86.68	08-Oct-15 03:00:00		**10.35**	**18.92**	**83.84**	**104.04**
08-Oct-15 04:00:00	08-Oct-15 05:00:00		0.00	0.00	0.00	5.77	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	08-Oct-15 04:00:00		**10.35**	**18.92**	**83.84**	**88.58**
08-Oct-15 05:00:00	08-Oct-15 06:00:00		0.00	0.00	0.00	7.15	2.1	329.7		0.00	0.00	0.00	2.36		10.35	18.92	83.84	86.68	08-Oct-15 05:00:00		**10.35**	**18.92**	**83.84**	**89.04**
08-Oct-15 06:00:00	08-Oct-15 07:00:00		0.00	0.00	0.00	5.73	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	08-Oct-15 06:00:00		**10.35**	**18.92**	**83.84**	**88.57**
08-Oct-15 07:00:00	08-Oct-15 08:00:00		0.00	0.00	0.00	17.54	2.1	329.7		0.00	0.00	0.00	5.78		10.35	18.92	83.84	86.68	08-Oct-15 07:00:00		**10.35**	**18.92**	**83.84**	**92.46**
08-Oct-15 08:00:00	08-Oct-15 09:00:00		0.00	0.00	0.00	5.76	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	08-Oct-15 08:00:00		**10.35**	**18.92**	**83.84**	**88.58**
08-Oct-15 09:00:00	08-Oct-15 10:00:00		0.00	0.00	0.00	6.12	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	08-Oct-15 09:00:00		**10.35**	**18.92**	**83.84**	**88.70**
08-Oct-15 10:00:00	08-Oct-15 11:00:00		0.00	0.00	0.00	5.06	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	08-Oct-15 10:00:00		**10.35**	**18.92**	**83.84**	**88.35**
08-Oct-15 11:00:00	08-Oct-15 12:00:00		0.00	0.00	0.00	4.61	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	08-Oct-15 11:00:00		**10.35**	**18.92**	**83.84**	**88.20**
08-Oct-15 12:00:00	08-Oct-15 13:00:00		0.00	0.00	0.00	6.08	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	08-Oct-15 12:00:00		**10.35**	**18.92**	**83.84**	**88.68**
08-Oct-15 13:00:00	08-Oct-15 14:00:00		0.00	0.00	0.00	4.13	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	08-Oct-15 13:00:00		**10.35**	**18.92**	**83.84**	**88.04**
08-Oct-15 14:00:00	08-Oct-15 15:00:00		1.49	0.00	0.00	4.12	2.1	329.7		0.49	0.00	0.00	1.36		10.35	18.92	83.84	86.68	08-Oct-15 14:00:00		**10.84**	**18.92**	**83.84**	**88.04**
08-Oct-15 15:00:00	08-Oct-15 16:00:00		3.08	0.00	0.00	4.86	2.1	329.7		1.02	0.00	0.00	1.60		10.35	18.92	83.84	86.68	08-Oct-15 15:00:00		**11.37**	**18.92**	**83.84**	**88.28**
08-Oct-15 16:00:00	08-Oct-15 17:00:00		3.70	0.00	0.00	4.34	2.1	329.7		1.22	0.00	0.00	1.43		10.35	18.92	83.84	86.68	08-Oct-15 16:00:00		**11.57**	**18.92**	**83.84**	**88.11**
08-Oct-15 17:00:00	08-Oct-15 18:00:00		1.99	0.00	0.00	5.59	2.1	329.7		0.66	0.00	0.00	1.84		10.35	18.92	83.84	86.68	08-Oct-15 17:00:00		**11.01**	**18.92**	**83.84**	**88.52**
08-Oct-15 18:00:00	08-Oct-15 19:00:00		1.38	0.00	0.00	4.23	2.1	329.7		0.45	0.00	0.00	1.40		10.35	18.92	83.84	86.68	08-Oct-15 18:00:00		**10.80**	**18.92**	**83.84**	**88.08**
08-Oct-15 19:00:00	08-Oct-15 20:00:00		0.94	0.00	0.00	8.38	2.1	329.7		0.31	0.00	0.00	2.76		10.35	18.92	83.84	86.68	08-Oct-15 19:00:00		**10.66**	**18.92**	**83.84**	**89.44**
08-Oct-15 20:00:00	08-Oct-15 21:00:00		0.50	0.00	0.00	4.37	2.1	329.7		0.16	0.00	0.00	1.44		10.35	18.92	83.84	86.68	08-Oct-15 20:00:00		**10.51**	**18.92**	**83.84**	**88.12**
08-Oct-15 21:00:00	08-Oct-15 22:00:00		0.09	0.00	0.00	9.52	2.1	329.7		0.03	0.00	0.00	3.14		10.35	18.92	83.84	86.68	08-Oct-15 21:00:00		**10.38**	**18.92**	**83.84**	**89.82**
08-Oct-15 22:00:00	08-Oct-15 23:00:00		0.11	89.35	0.00	4.88	2.1	329.7		0.04	29.46	0.00	1.61		10.35	18.92	83.84	86.68	08-Oct-15 22:00:00		**10.39**	**48.38**	**83.84**	**88.29**
08-Oct-15 23:00:00	09-Oct-15 00:00:00		0.00	0.00	0.00	5.08	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	08-Oct-15 23:00:00		**10.35**	**18.92**	**83.84**	**88.35**
09-Oct-15 00:00:00	09-Oct-15 01:00:00		0.00	0.00	0.00	6.64	2.1	329.7		0.00	0.00	0.00	2.19		10.35	18.92	83.84	86.68	09-Oct-15 00:00:00		**10.35**	**18.92**	**83.84**	**88.87**
09-Oct-15 01:00:00	09-Oct-15 02:00:00		0.00	0.00	0.00	5.27	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	09-Oct-15 01:00:00		**10.35**	**18.92**	**83.84**	**88.42**
09-Oct-15 02:00:00	09-Oct-15 03:00:00		0.00	0.00	0.00	7.56	2.1	329.7		0.00	0.00	0.00	2.49		10.35	18.92	83.84	86.68	09-Oct-15 02:00:00		**10.35**	**18.92**	**83.84**	**89.17**
09-Oct-15 03:00:00	09-Oct-15 04:00:00		0.00	0.00	0.00	5.40	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	09-Oct-15 03:00:00		**10.35**	**18.92**	**83.84**	**88.46**
09-Oct-15 04:00:00	09-Oct-15 05:00:00		0.00	19.72	0.00	21.11	2.1	329.7		0.00	6.50	0.00	6.96		10.35	18.92	83.84	86.68	09-Oct-15 04:00:00		**10.35**	**25.42**	**83.84**	**93.64**
09-Oct-15 05:00:00	09-Oct-15 06:00:00		0.00	488.36	0.00	5.65	2.1	329.7		0.00	161.01	0.00	1.86		10.35	18.92	83.84	86.68	09-Oct-15 05:00:00		**10.35**	**179.93**	**83.84**	**88.54**
09-Oct-15 06:00:00	09-Oct-15 07:00:00		0.00	1,273.07	0.00	8.84	2.1	329.7		0.00	419.73	0.00	2.91		10.35	18.92	83.84	86.68	09-Oct-15 06:00:00		**10.35**	**438.65**	**83.84**	**89.59**
09-Oct-15 07:00:00	09-Oct-15 08:00:00		0.00	696.26	0.00	5.71	2.1	329.7		0.00	229.56	0.00	1.88		10.35	18.92	83.84	86.68	09-Oct-15 07:00:00		**10.35**	**248.48**	**83.84**	**88.56**
09-Oct-15 08:00:00	09-Oct-15 09:00:00		0.00	515.73	0.00	19.08	2.1	329.7		0.00	170.03	0.00	6.29		10.35	18.92	83.84	86.68	09-Oct-15 08:00:00		**10.35**	**188.95**	**83.84**	**92.97**
09-Oct-15 09:00:00	09-Oct-15 10:00:00		0.00	308.34	0.00	5.53	2.1	329.7		0.00	101.66	0.00	1.82		10.35	18.92	83.84	86.68	09-Oct-15 09:00:00		**10.35**	**120.58**	**83.84**	**88.50**
09-Oct-15 10:00:00	09-Oct-15 11:00:00		0.00	0.00	0.00	14.67	2.1	329.7		0.00	0.00	0.00	4.84		10.35	18.92	83.84	86.68	09-Oct-15 10:00:00		**10.35**	**18.92**	**83.84**	**91.52**
09-Oct-15 11:00:00	09-Oct-15 12:00:00		0.06	0.00	0.00	5.16	2.1	329.7		0.02	0.00	0.00	1.70		10.35	18.92	83.84	86.68	09-Oct-15 11:00:00		**10.37**	**18.92**	**83.84**	**88.38**
09-Oct-15 12:00:00	09-Oct-15 13:00:00		3.05	0.00	0.00	24.58	2.1	329.7		1.01	0.00	0.00	8.11		10.35	18.92	83.84	86.68	09-Oct-15 12:00:00		**11.36**	**18.92**	**83.84**	**94.79**
09-Oct-15 13:00:00	09-Oct-15 14:00:00		20.31	0.00	0.00	6.63	2.1	329.7		6.70	0.00	0.00	2.19		10.35	18.92	83.84	86.68	09-Oct-15 13:00:00		**17.05**	**18.92**	**83.84**	**88.87**
09-Oct-15 14:00:00	09-Oct-15 15:00:00		20.70	0.00	0.00	4.93	2.1	329.7		6.82	0.00	0.00	1.62		10.35	18.92	83.84	86.68	09-Oct-15 14:00:00		**17.17**	**18.92**	**83.84**	**88.30**
09-Oct-15 15:00:00	09-Oct-15 16:00:00		24.52	0.00	0.00	4.72	2.1	329.7		8.08	0.00	0.00	1.56		10.35	18.92	83.84	86.68	09-Oct-15 15:00:00		**18.43**	**18.92**	**83.84**	**88.24**
09-Oct-15 16:00:00	09-Oct-15 17:00:00		23.53	0.00	0.00	31.04	2.1	329.7		7.76	0.00	0.00	10.24		10.35	18.92	83.84	86.68	09-Oct-15 16:00:00		**18.11**	**18.92**	**83.84**	**96.92**
09-Oct-15 17:00:00	09-Oct-15 18:00:00		11.68	0.00	0.00	5.02	2.1	329.7		3.85	0.00	0.00	1.65		10.35	18.92	83.84	86.68	09-Oct-15 17:00:00		**14.20**	**18.92**	**83.84**	**88.33**
09-Oct-15 18:00:00	09-Oct-15 19:00:00		14.83	0.00	0.00	4.62	2.1	329.7		4.89	0.00	0.00	1.52		10.35	18.92	83.84	86.68	09-Oct-15 18:00:00		**15.24**	**18.92**	**83.84**	**88.20**
09-Oct-15 19:00:00	09-Oct-15 20:00:00		16.17	0.00	0.00	8.29	2.1	329.7		5.33	0.00	0.00	2.73		10.35	18.92	83.84	86.68	09-Oct-15 19:00:00		**15.68**	**18.92**	**83.84**	**89.41**
09-Oct-15 20:00:00	09-Oct-15 21:00:00		13.18	0.00	0.00	6.21	2.1	329.7		4.35	0.00	0.00	2.05		10.35	18.92	83.84	86.68	09-Oct-15 20:00:00		**14.70**	**18.92**	**83.84**	**88.73**
09-Oct-15 21:00:00	09-Oct-15 22:00:00		4.35	0.00	0.00	5.67	2.1	329.7		1.43	0.00	0.00	1.87		10.35	18.92	83.84	86.68	09-Oct-15 21:00:00		**11.78**	**18.92**	**83.84**	**88.55**
09-Oct-15 22:00:00	09-Oct-15 23:00:00		0.00	0.00	0.00

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
11-Oct-15 20:00:00	11-Oct-15 21:00:00		0.00	0.00	0.00	5.39	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	11-Oct-15 20:00:00		**10.35**	**18.92**	**83.84**	**88.46**
11-Oct-15 21:00:00	11-Oct-15 22:00:00		0.00	0.00	0.00	13.50	2.1	329.7		0.00	0.00	0.00	4.45		10.35	18.92	83.84	86.68	11-Oct-15 21:00:00		**10.35**	**18.92**	**83.84**	**91.13**
11-Oct-15 22:00:00	11-Oct-15 23:00:00		0.00	0.00	0.00	5.84	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	11-Oct-15 22:00:00		**10.35**	**18.92**	**83.84**	**88.60**
11-Oct-15 23:00:00	12-Oct-15 00:00:00		0.00	0.00	0.00	8.88	2.1	329.7		0.00	0.00	0.00	2.93		10.35	18.92	83.84	86.68	11-Oct-15 23:00:00		**10.35**	**18.92**	**83.84**	**89.61**
12-Oct-15 00:00:00	12-Oct-15 01:00:00		0.00	0.00	0.00	6.06	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	12-Oct-15 00:00:00		**10.35**	**18.92**	**83.84**	**88.68**
12-Oct-15 01:00:00	12-Oct-15 02:00:00		0.00	0.00	0.00	6.79	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	12-Oct-15 01:00:00		**10.35**	**18.92**	**83.84**	**88.92**
12-Oct-15 02:00:00	12-Oct-15 03:00:00		0.00	0.00	0.00	6.28	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	12-Oct-15 02:00:00		**10.35**	**18.92**	**83.84**	**88.75**
12-Oct-15 03:00:00	12-Oct-15 04:00:00		0.00	0.00	0.00	7.03	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	12-Oct-15 03:00:00		**10.35**	**18.92**	**83.84**	**89.00**
12-Oct-15 04:00:00	12-Oct-15 05:00:00		0.00	0.00	0.00	7.41	2.1	329.7		0.00	0.00	0.00	2.44		10.35	18.92	83.84	86.68	12-Oct-15 04:00:00		**10.35**	**18.92**	**83.84**	**89.12**
12-Oct-15 05:00:00	12-Oct-15 06:00:00		0.00	0.00	0.00	8.46	2.1	329.7		0.00	0.00	0.00	2.79		10.35	18.92	83.84	86.68	12-Oct-15 05:00:00		**10.35**	**18.92**	**83.84**	**89.47**
12-Oct-15 06:00:00	12-Oct-15 07:00:00		0.00	0.00	0.00	8.53	2.1	329.7		0.00	0.00	0.00	2.81		10.35	18.92	83.84	86.68	12-Oct-15 06:00:00		**10.35**	**18.92**	**83.84**	**89.49**
12-Oct-15 07:00:00	12-Oct-15 08:00:00		0.00	0.00	0.00	6.33	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	12-Oct-15 07:00:00		**10.35**	**18.92**	**83.84**	**88.77**
12-Oct-15 08:00:00	12-Oct-15 09:00:00		0.00	0.00	0.00	30.56	2.1	329.7		0.00	0.00	0.00	10.07		10.35	18.92	83.84	86.68	12-Oct-15 08:00:00		**10.35**	**18.92**	**83.84**	**96.75**
12-Oct-15 09:00:00	12-Oct-15 10:00:00		0.00	0.00	0.00	6.20	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	12-Oct-15 09:00:00		**10.35**	**18.92**	**83.84**	**88.73**
12-Oct-15 10:00:00	12-Oct-15 11:00:00		0.00	0.00	0.00	27.89	2.1	329.7		0.00	0.00	0.00	9.19		10.35	18.92	83.84	86.68	12-Oct-15 10:00:00		**10.35**	**18.92**	**83.84**	**95.87**
12-Oct-15 11:00:00	12-Oct-15 12:00:00		0.15	0.00	0.00	5.39	2.1	329.7		0.05	0.00	0.00	1.78		10.35	18.92	83.84	86.68	12-Oct-15 11:00:00		**10.40**	**18.92**	**83.84**	**88.46**
12-Oct-15 12:00:00	12-Oct-15 13:00:00		1.46	0.00	0.00	5.83	2.1	329.7		0.48	0.00	0.00	1.92		10.35	18.92	83.84	86.68	12-Oct-15 12:00:00		**10.83**	**18.92**	**83.84**	**88.60**
12-Oct-15 13:00:00	12-Oct-15 14:00:00		3.33	0.00	0.00	4.98	2.1	329.7		1.10	0.00	0.00	1.64		10.35	18.92	83.84	86.68	12-Oct-15 13:00:00		**11.45**	**18.92**	**83.84**	**88.32**
12-Oct-15 14:00:00	12-Oct-15 15:00:00		0.30	0.00	0.00	4.99	2.1	329.7		0.10	0.00	0.00	1.64		10.35	18.92	83.84	86.68	12-Oct-15 14:00:00		**10.45**	**18.92**	**83.84**	**88.32**
12-Oct-15 15:00:00	12-Oct-15 16:00:00		2.72	0.00	0.00	4.99	2.1	329.7		0.90	0.00	0.00	1.64		10.35	18.92	83.84	86.68	12-Oct-15 15:00:00		**11.25**	**18.92**	**83.84**	**88.32**
12-Oct-15 16:00:00	12-Oct-15 17:00:00		21.94	0.00	0.00	5.02	2.1	329.7		7.23	0.00	0.00	1.66		10.35	18.92	83.84	86.68	12-Oct-15 16:00:00		**17.58**	**18.92**	**83.84**	**88.34**
12-Oct-15 17:00:00	12-Oct-15 18:00:00		20.67	0.00	0.00	5.24	2.1	329.7		6.82	0.00	0.00	1.73		10.35	18.92	83.84	86.68	12-Oct-15 17:00:00		**17.17**	**18.92**	**83.84**	**88.41**
12-Oct-15 18:00:00	12-Oct-15 19:00:00		17.18	0.00	0.00	4.81	2.1	329.7		5.66	0.00	0.00	1.58		10.35	18.92	83.84	86.68	12-Oct-15 18:00:00		**16.01**	**18.92**	**83.84**	**88.26**
12-Oct-15 19:00:00	12-Oct-15 20:00:00		12.94	0.00	0.00	5.60	2.1	329.7		4.27	0.00	0.00	1.85		10.35	18.92	83.84	86.68	12-Oct-15 19:00:00		**14.62**	**18.92**	**83.84**	**88.53**
12-Oct-15 20:00:00	12-Oct-15 21:00:00		3.77	0.00	0.00	4.98	2.1	329.7		1.24	0.00	0.00	1.64		10.35	18.92	83.84	86.68	12-Oct-15 20:00:00		**11.59**	**18.92**	**83.84**	**88.32**
12-Oct-15 21:00:00	12-Oct-15 22:00:00		0.00	0.00	0.00	5.15	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	12-Oct-15 21:00:00		**10.35**	**18.92**	**83.84**	**88.38**
12-Oct-15 22:00:00	12-Oct-15 23:00:00		0.00	0.00	0.00	7.63	2.1	329.7		0.00	0.00	0.00	2.52		10.35	18.92	83.84	86.68	12-Oct-15 22:00:00		**10.35**	**18.92**	**83.84**	**89.20**
12-Oct-15 23:00:00	13-Oct-15 00:00:00		1.27	0.00	0.00	5.40	2.1	329.7		0.42	0.00	0.00	1.78		10.35	18.92	83.84	86.68	12-Oct-15 23:00:00		**10.77**	**18.92**	**83.84**	**88.46**
13-Oct-15 00:00:00	13-Oct-15 01:00:00		2.18	0.00	0.00	6.09	2.1	329.7		0.72	0.00	0.00	2.01		10.35	18.92	83.84	86.68	13-Oct-15 00:00:00		**11.07**	**18.92**	**83.84**	**88.69**
13-Oct-15 01:00:00	13-Oct-15 02:00:00		1.47	0.00	0.00	5.79	2.1	329.7		0.48	0.00	0.00	1.91		10.35	18.92	83.84	86.68	13-Oct-15 01:00:00		**10.83**	**18.92**	**83.84**	**88.59**
13-Oct-15 02:00:00	13-Oct-15 03:00:00		0.77	830.47	0.00	22.17	2.1	329.7		0.25	273.80	0.00	7.31		10.35	18.92	83.84	86.68	13-Oct-15 02:00:00		**10.60**	**292.72**	**83.84**	**93.99**
13-Oct-15 03:00:00	13-Oct-15 04:00:00		0.12	1,437.60	0.00	5.87	2.1	329.7		0.04	473.98	0.00	1.93		10.35	18.92	83.84	86.68	13-Oct-15 03:00:00		**10.39**	**492.90**	**83.84**	**88.61**
13-Oct-15 04:00:00	13-Oct-15 05:00:00		0.00	1,436.01	0.00	5.86	2.1	329.7		0.00	473.45	0.00	1.93		10.35	18.92	83.84	86.68	13-Oct-15 04:00:00		**10.35**	**492.37**	**83.84**	**88.61**
13-Oct-15 05:00:00	13-Oct-15 06:00:00		0.00	1,434.60	0.00	5.86	2.1	329.7		0.00	472.99	0.00	1.93		10.35	18.92	83.84	86.68	13-Oct-15 05:00:00		**10.35**	**491.91**	**83.84**	**88.61**
13-Oct-15 06:00:00	13-Oct-15 07:00:00		0.00	1,424.30	0.00	50.53	2.1	329.7		0.00	469.59	0.00	16.66		10.35	18.92	83.84	86.68	13-Oct-15 06:00:00		**10.35**	**488.51**	**83.84**	**103.34**
13-Oct-15 07:00:00	13-Oct-15 08:00:00		0.00	85.54	0.00	5.81	2.1	329.7		0.00	28.20	0.00	1.92		10.35	18.92	83.84	86.68	13-Oct-15 07:00:00		**10.35**	**47.12**	**83.84**	**88.60**
13-Oct-15 08:00:00	13-Oct-15 09:00:00		0.00	308.99	0.00	14.07	2.1	329.7		0.00	101.87	0.00	4.64		10.35	18.92	83.84	86.68	13-Oct-15 08:00:00		**10.35**	**120.79**	**83.84**	**91.32**
13-Oct-15 09:00:00	13-Oct-15 10:00:00		0.00	390.67	0.00	5.90	2.1	329.7		0.00	128.80	0.00	1.94		10.35	18.92	83.84	86.68	13-Oct-15 09:00:00		**10.35**	**147.72**	**83.84**	**88.62**
13-Oct-15 10:00:00	13-Oct-15 11:00:00		0.00	400.62	0.00	5.80	2.1	329.7		0.00	132.08	0.00	1.91		10.35	18.92	83.84	86.68	13-Oct-15 10:00:00		**10.35**	**151.00**	**83.84**	**88.59**
13-Oct-15 11:00:00	13-Oct-15 12:00:00		0.00	398.65	0.00	5.71	2.1	329.7		0.00	131.44	0.00	1.88		10.35	18.92	83.84	86.68	13-Oct-15 11:00:00		**10.35**	**150.36**	**83.84**	**88.56**
13-Oct-15 12:00:00	13-Oct-15 13:00:00		2.02	396.28	0.00	6.60	2.1	329.7		0.67	130.65	0.00	2.18		10.35	18.92	83.84	86.68	13-Oct-15 12:00:00		**11.02**	**149.57**	**83.84**	**88.86**
13-Oct-15 13:00:00	13-Oct-15 14:00:00		2.84	448.02	0.00	5.36	2.1	329.7		0.94	147.71	0.00	1.77		10.35	18.92	83.84	86.68	13-Oct-15 13:00:00		**11.29**	**166.63**	**83.84**	**88.45**
13-Oct-15 14:00:00	13-Oct-15 15:00:00		3.11	784.59	0.00	9.35	2.1	329.7		1.02	258.68	0.00	3.08		10.35	18.92	83.84	86.68	13-Oct-15 14:00:00		**11.37**	**277.60**	**83.84**	**89.76**
13-Oct-15 15:00:00	13-Oct-15 16:00:00		2.96	413.62	0.00	5.24	2.1	329.7		0.97	136.37	0.00	1.73		10.35	18.92	83.84	86.68	13-Oct-15 15:00:00		**11.32**	**155.29**	**83.84**	**88.41**
13-Oct-15 16:00:00	13-Oct-15 17:00:00		0.56	0.00	0.00	6.66	2.1	329.7		0.18	0.00	0.00	2.20		10.35	18.92	83.84	86.68	13-Oct-15 16:00:00		**10.53**	**18.92**	**83.84**	**88.88**
13-Oct-15 17:00:00	13-Oct-15 18:00:00		0.58	0.00	0.00	5.00	2.1	329.7		0.19	0.00	0.00	1.65		10.35	18.92	83.84	86.68	13-Oct-15 17:00:00		**10.54**	**18.92**	**83.84**	**88.33**
13-Oct-15 18:00:00	13-Oct-15 19:00:00		0.00	1.00	0.00	11.57	2.1	329.7		0.00	0.33	0.00	3.81		10.35	18.92	83.84	86.68	13-Oct-15 18:00:00		**10.35**	**19.25**	**83.84**	**90.49**
13-Oct-15 19:00:00	13-Oct-15 20:00:00		0.23	0.00	0.00	5.60	2.1	329.7		0.08	0.00	0.00	1.85		10.35	18.92	83.84	86.68	13-Oct-15 19:00:00		**10.43**	**18.92**	**83.84**	**88.53**
13-Oct-15 20:00:00	13-Oct-15 21:00:00		4.13	0.00	0.00	5.01	2.1	329.7		1.36	0.00	0.00	1.65		10.35	18.92	83.84	86.68	13-Oct-15 20:00:00		**11.71**	**18.92**	**83.84**	**88.33**
13-Oct-15 21:00:00	13-Oct-15 22:00:00		1.16	0.00	0.00	10.57	2.1	329.7		0.38	0.00	0.00	3.48		10.35	18.92	83.84	86.68	13-Oct-15 21:00:00		**10.73**	**18.92**	**83.84**	**90.16**
13-Oct-15 22:00:00	13-Oct-15 23:00:00		0.77	0.00	0.00	5.44	2.1	329.7		0.26	0.00	0.00	1.79		10.35	18.92	83.84	86.68	13-Oct-15 22:00:00		**10.61**	**18.92**	**83.84**	**88.47**
13-Oct-15 23:00:00	14-Oct-15 00:00:00		0.39	0.00	0.00	102.17	2.1	329.7		0.13	0.00	0.00	33.69		10.35	18.92	83.84	86.68	13-Oct-15 23:00:00		**10.48**	**18.92**	**83.84**	**120.37**
14-Oct-15 00:00:00	14-Oct-15 01:00:00		0.05	0.00	0.00	5.83	2.1	329.7		0.02	0.00	0.00	1.92		10.35	18.92	83.84	86.68	14-Oct-15 00:00:00		**10.37**	**18.92**	**83.84**	**88.60**
14-Oct-15 01:00:00	14-Oct-15 02:00:00		0.09	0.00	0.00	17.62	2.1	329.7		0.03	0.00	0.00	5.81		10.35	18.92	83.84	86.68	14-Oct-15 01:00:00		**10.38**	**18.92**	**83.84**	**92.49**
14-Oct-15 02:00:00	14-Oct-15 03:00:00		0.00	0.00	0.00	6.00	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	14-Oct-15 02:00:00		**10.35**	**18.92**	**83.84**	**88.66**
14-Oct-15 03:00:00	14-Oct-15 04:00:00		0.00	0.00	0.00	7.83	2.1	329.7		0.00	0.00	0.00	2.58		10.35	18.92	83.84	86.68	14-Oct-15 03:00:00		**10.35**	**18.92**	**83.84**	**89.26**
14-Oct-15 04:00:00	14-Oct-15 05:00:00		0.00	0.00	0.00	6.24	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	14-Oct-15 04:00:00		**10.35**	**18.92**	**83.84**	**88.74**
14-Oct-15 05:00:00	14-Oct-15 06:00:00		0.49	0.00	0.00	8.47	2.1	329.7		0.16	0.00	0.00	2.79		10.35	18.92	83.84	86.68	14-Oct-15 05:00:00		**10.51**	**18.92**	**83.84**	**89.47**
14-Oct-15 06:00:00	14-Oct-15 07:00:00		3.91	0.00	0.00	6.37	2.1	329.7		1.29	0.00	0.00	2.10		10.35	18.92	83.84	86.68	14-Oct-15 06:00:00		**11.64**	**18.92**	**83.84**	**88.78**
14-Oct-15 07:00:00	14-Oct-15 08:00:00		6.84	0.00	0.00	98.57	2.1	329.7		2.25	0.00	0.00	32.50		10.35	18.92	83.84	86.68	14-Oct-15 07:00:00		**12.60**	**18.92**	**83.84**	**119.18**
14-Oct-15 08:00:00	14-Oct-15 09:00:00		1.54	0.00	0.00	6.46	2.1	329.7		0.51	0.00	0.00	2.13		10.35	18.92	83.84	86.68	14-Oct-15 08:00:00		**10.86**	**18.92**	**83.84**	**88.81**
14-Oct-15 09:00:00	14-Oct-15 10:00:00		2.80	0.00	0.00	25.51	2.1	329.7		0.92	0.00	0.00	8.41		10.35	18.92	83.84	86.68	14-Oct-15 09:00:00		**11.27**	**18.92**	**83.84**	**95.09**
14-Oct-15 10:00:00	14-Oct-15 11:00:00		1.56	0.00	0.00	5.98	2.1	329.7		0.51	0.00	0.00	1.97		10.35	18.92	83.84	86.68	14-Oct-15 10:00:00		**10.86**	**18.92**	**83.84**	**88.65**
14-Oct-15 11:00:00	14-Oct-15 12:00:00		1.51	0.00	0.00	5.55	2.1	329.7		0.50	0.00	0.00	1.83		10.35	18.92	83.84	86.68	14-Oct-15 11:00:00		**10.85**	**18.92**	**83.84**	**88.51**
14-Oct-15 12:00:00	14-Oct-15 13:00:00		1.19	0.00	0.00	5.11	2.1	329.7		0.39	0.00	0.00	1.68		10.35	18.92	83.84	86.68	14-Oct-15 12:00:00		**10.74**	**18.92**	**83.84**	**88.36**
14-Oct-15 13:00:00	14-Oct-15 14:00:00		2.40	0.00	0.00	37.80	2.1	329.7		0.79	0.00	0.00	12.46		10.35	18.92	83.84	86.68	14-Oct-15 13:00:00		**11.14**	**18.92**	**83.84**	**99.14**
14-Oct-15 14:00:00	14-Oct-15 15:00:00		20.75	0.00	0.00	13.93	2.1	329.7		6.84	0.00	0.00	4.59		10.35	18.92	83.84	86.68	14-Oct-15 14:00:00		**17.19**	**18.92**	**83.84**	**91.27**
14-Oct-15 15:00:00	14-Oct-15 16:00:00		24.31	0.00	0.00	5.27	2.1	329.7		8.01	0.00	0.00	1.74		10.35	18.92	83.84	86.68	14-Oct-15 15:00:00		**18.36**	**18.92**	**83.84**	**88.42**
14-Oct-15 16:00:00	14-Oct-15 17:00:00		27.70	0.00	0.00	8.89	2.1	329.7		9.13	0.00	0.00	2.93		10.35	18.92	83.84	86.68	14-Oct-15 16:00:00		**19.48**	**18.92**	**83.84**	**89.61**
14-Oct-15 17:00:00	14-Oct-15 18:00:00		20.21	0.00	0.00	5.12	2.1	329.7		6.66	0.00	0.00	1.69		10.35	18.92	83.84	86.68	14-Oct-15 17:00:00		**17.01**	**18.92**	**83.84**	**88.37**
14-Oct-15 18:00:00	14-Oct-15 19:00:00		18.99	0.00	0.00	5.57	2.1	329.7		6.26	0.00	0.00	1.84		10.35	18.92	83.84	86.68	14-Oct-15 18:00:00		**16.61**	**18.92**	**83.84**	**88.52**
14-Oct-15 19:00:00	14-Oct-15 20:00:00		14.63	0.00	0.00	5.21	2.1	329.7		4.82	0.00	0.00	1.72		10.35	18.92	83.84	86.68	14-Oct-15 19:00:00		**15.17**	**18.92**	**83.84**	**88.40**
14-Oct-15 20:00:00	14-Oct-15 21:00:00		6.92	0.00	0.00	5.55	2.1	329.7		2.28	0.00	0.00	1.83		10.35	18.92	83.84	86.68	14-Oct-15 20:00:00		**12.63**	**18.92**	**83.84**	**88.51**
14-Oct-15 21:00:00	14-Oct-15 22:00:00		4.92	0.00	0.00	5.64	2.1	329.7		1.62	0.00	0.00	1.86		10.35	18.92	83.84	86.68	14-Oct-15 21:00:00		**11.97**	**18.92**	**83.84**	**88.54**
14-Oct-15 22:00:00	14-Oct-15 23:00:00		1.70	0.00	0.00	6.68	2.1	329.7		0.56	0.00	0.00	2.20		10.35	18.92	83.84	86.68	14-Oct-15 22:00:00		**10.91**	**18.92**	**83.84**	**88.88**
14-Oct-15 23:00:00	15-Oct-15 00:00:00		0.00	0.00	0.00	6.07	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	14-Oct-15 23:00:00		**10.35**	**18.92**	**83.84**	**88.68**
15-Oct-15 00:00:00	15-Oct-15 01:00:00		0.00	0.00	0.00	6.30	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	15-Oct-15 00:00:00		**10.35**	**18.92**	**83.84**	**88.76**
15-Oct-15 01:00:00	15-Oct-15 02:00:00		0.00	0.00	0.00	6.53	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	15-Oct-15 01:00:00		**10.35**	**18.92**	**83.84**	**88.83**
15-Oct-15 02:00:00	15-Oct-15 03:00:00		0.00	0.00	0.00	10.27	2.1	329.7		0.00	0.00	0.00	3.39		10.35	18.92	83.84	86.68	15-Oct-15 02:00:00		**10.35**	**18.92**	**83.84**	**90.07**
15-Oct-15 03:00:00	15-Oct-15 04:00:00		1.97	0.00	0.00	6.51	2.1	329.7		0.65	0.00	0.00	2.15		10.35	18.92	83.84	86.68	15-Oct-15 03:00:00		**11.00**	**18.92**	**83.84**	**88.83**
15-Oct-15 04:00:00	15-Oct-15 05:00:00		2.60	0.00	0.00	23.92	2.1	329.7		0.86	0.00	0.00	7.89		10.35	18.92	83.84	86.68	15-Oct-15 04:00:00		**11.21**	**18.92**	**83.84**	**94.57**
15-Oct-15 05:00:00	15-Oct-15 06:00:00		1.97	0.00	0.00	6.49	2.1	329.7		0.65	0.00	0.00	2.14		10.35	18.92	83.84	86.68	15-Oct-15 05:00:00		**11.00**	**18.92**	**83.84**	**88.82**
15-Oct-15 06:00:00	15-Oct-15 07:00:00		2.18	0.00	0.00	6.74	2.1	329.7		0.72	0.00	0.00	2.22		10.35	18.92	83.84	86.68	15-Oct-15 06:00:00		**11.07**	**18.92**	**83.84**	**88.90**
15-Oct-15 07:00:00	15-Oct-15 08:00:00		0.53	0.00	0.00	6.76	2.1	329.7		0.17	0.00	0.00	2.23		10.35	18.92	83.84	86.68	15-Oct-15 07:00:00		**10.52**	**18.92**	**83.84**	**88.91**
15-Oct-15 08:00:00	15-Oct-15 09:00:00		0.22	0.00	0.00	21.00	2.1	329.7		0.07	0.00	0.00	6.92		10.35	18.92	83.84	86.68	15-Oct-15 08:00:00		**10.42**	**18.92**	**83.84**	**93.60**
15-Oct-15 09:00:00	15-Oct-15 10:00:00		1.70	0.00	0.00	7.75	2.1	329.7		0.56	0.00	0.00	2.56		10.35	18.92	83.84	86.68	15-Oct-15 09:00:00		**10.91**	**18.92**	**83.84**	**89.24**
15-Oct-15 10:00:00	15-Oct-15 11:00:00		5.59	0.00	0.00	6.10	2.1	329.7		1.84	0.00	0.00	2.01		10.35	18.92	83.84	86.68	15-Oct-15 10:00:00		**12.19**	**18.92**	**83.84**	**88.69**
15-Oct-15 11:00:00	15-Oct-15 12:00:00		1.17	0.00	0.00	5.47	2.1	329.7		0.39	0.00	0.00	1.80		10.35	18.92	83.84	86.68	15-Oct-15 11:00:00		**10.74**	**18.92**	**83.84**	**88.48**
15-Oct-15 12:00:00	15-Oct-15 13:00:00		0.00	0.00	0.00	5.36	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	15-Oct-15 12:00:00		**10.35**	**18.92**	**83.84**	**88.45**
15-Oct-15 13:00:00	15-Oct-15 14:00:00		1.42	0.00	0.00	5.06	2.1	329.7		0.47	0.00	0.00	1.67		10.35	18.92	83.84	86.68	15-Oct-15 13:00:00		**10.82**	**18.92**	**83.84**	**88.35**
15-Oct-15 14:00:00	15-Oct-15 15:00:00		0.00	0.00	0.00	4.89	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	15-Oct-15 14:00:00		**10.35**	**18.92**	**83.84**	**88.29**
15-Oct-15 15:00:00	15-Oct-15 16:00:00		0.35	0.00	0.00	4.98	2.1	329.7		0.12	0.00	0.00	1.64		10.35	18.92	83.84	86.68	15-Oct-15 15:00:00		**10.47**	**18.92**	**83.84**	**88.32**
15-Oct-15 16:00:00	15-Oct-15 17:00:00		10.80	0.00	0.00	5.59	2.1	329.7		3.56	0.00	0.00	1.84		10.35	18.92	83.84	86.68	15-Oct-15 16:00:00		**13.91**	**18.92**	**83.84**	**88.52**
15-Oct-15 17:00:00	15-Oct-15 18:00:00		9.83	0.00	0.00

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
17-Oct-15 15:00:00	17-Oct-15 16:00:00		0.00	0.00	0.00	5.12	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	17-Oct-15 15:00:00		**10.35**	**18.92**	**83.84**	**88.37**
17-Oct-15 16:00:00	17-Oct-15 17:00:00		0.00	0.00	0.00	6.80	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	17-Oct-15 16:00:00		**10.35**	**18.92**	**83.84**	**88.92**
17-Oct-15 17:00:00	17-Oct-15 18:00:00		0.00	0.00	0.00	4.88	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	17-Oct-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.29**
17-Oct-15 18:00:00	17-Oct-15 19:00:00		0.42	0.00	0.00	11.45	2.1	329.7		0.14	0.00	0.00	3.77		10.35	18.92	83.84	86.68	17-Oct-15 18:00:00		**10.49**	**18.92**	**83.84**	**90.45**
17-Oct-15 19:00:00	17-Oct-15 20:00:00		1.18	0.00	0.00	5.61	2.1	329.7		0.39	0.00	0.00	1.85		10.35	18.92	83.84	86.68	17-Oct-15 19:00:00		**10.74**	**18.92**	**83.84**	**88.53**
17-Oct-15 20:00:00	17-Oct-15 21:00:00		1.94	0.00	0.00	52.68	2.1	329.7		0.64	0.00	0.00	17.37		10.35	18.92	83.84	86.68	17-Oct-15 20:00:00		**10.99**	**18.92**	**83.84**	**104.05**
17-Oct-15 21:00:00	17-Oct-15 22:00:00		0.52	0.00	0.00	6.69	2.1	329.7		0.17	0.00	0.00	2.21		10.35	18.92	83.84	86.68	17-Oct-15 21:00:00		**10.52**	**18.92**	**83.84**	**88.89**
17-Oct-15 22:00:00	17-Oct-15 23:00:00		0.00	0.00	0.00	81.66	2.1	329.7		0.00	0.00	0.00	26.92		10.35	18.92	83.84	86.68	17-Oct-15 22:00:00		**10.35**	**18.92**	**83.84**	**113.60**
17-Oct-15 23:00:00	18-Oct-15 00:00:00		0.00	0.00	0.00	7.15	2.1	329.7		0.00	0.00	0.00	2.36		10.35	18.92	83.84	86.68	17-Oct-15 23:00:00		**10.35**	**18.92**	**83.84**	**89.04**
18-Oct-15 00:00:00	18-Oct-15 01:00:00		3.25	0.00	0.00	8.66	2.1	329.7		1.07	0.00	0.00	2.85		10.35	18.92	83.84	86.68	18-Oct-15 00:00:00		**11.42**	**18.92**	**83.84**	**89.53**
18-Oct-15 01:00:00	18-Oct-15 02:00:00		0.40	0.00	0.00	7.17	2.1	329.7		0.13	0.00	0.00	2.36		10.35	18.92	83.84	86.68	18-Oct-15 01:00:00		**10.48**	**18.92**	**83.84**	**89.04**
18-Oct-15 02:00:00	18-Oct-15 03:00:00		4.27	0.00	0.00	7.23	2.1	329.7		1.41	0.00	0.00	2.38		10.35	18.92	83.84	86.68	18-Oct-15 02:00:00		**11.76**	**18.92**	**83.84**	**89.06**
18-Oct-15 03:00:00	18-Oct-15 04:00:00		1.61	0.00	0.00	7.28	2.1	329.7		0.53	0.00	0.00	2.40		10.35	18.92	83.84	86.68	18-Oct-15 03:00:00		**10.88**	**18.92**	**83.84**	**89.08**
18-Oct-15 04:00:00	18-Oct-15 05:00:00		1.05	0.00	0.00	7.44	2.1	329.7		0.34	0.00	0.00	2.45		10.35	18.92	83.84	86.68	18-Oct-15 04:00:00		**10.69**	**18.92**	**83.84**	**89.13**
18-Oct-15 05:00:00	18-Oct-15 06:00:00		18.13	0.00	0.00	7.52	2.1	329.7		5.98	0.00	0.00	2.48		10.35	18.92	83.84	86.68	18-Oct-15 05:00:00		**16.33**	**18.92**	**83.84**	**89.16**
18-Oct-15 06:00:00	18-Oct-15 07:00:00		5.33	0.00	0.00	14.84	2.1	329.7		1.76	0.00	0.00	4.89		10.35	18.92	83.84	86.68	18-Oct-15 06:00:00		**12.11**	**18.92**	**83.84**	**91.57**
18-Oct-15 07:00:00	18-Oct-15 08:00:00		7.26	0.00	0.00	7.65	2.1	329.7		2.39	0.00	0.00	2.52		10.35	18.92	83.84	86.68	18-Oct-15 07:00:00		**12.74**	**18.92**	**83.84**	**89.20**
18-Oct-15 08:00:00	18-Oct-15 09:00:00		0.96	0.00	0.00	32.57	2.1	329.7		0.32	0.00	0.00	10.74		10.35	18.92	83.84	86.68	18-Oct-15 08:00:00		**10.67**	**18.92**	**83.84**	**97.42**
18-Oct-15 09:00:00	18-Oct-15 10:00:00		0.05	0.00	0.00	7.23	2.1	329.7		0.02	0.00	0.00	2.38		10.35	18.92	83.84	86.68	18-Oct-15 09:00:00		**10.37**	**18.92**	**83.84**	**89.06**
18-Oct-15 10:00:00	18-Oct-15 11:00:00		0.81	0.00	0.00	6.91	2.1	329.7		0.27	0.00	0.00	2.28		10.35	18.92	83.84	86.68	18-Oct-15 10:00:00		**10.62**	**18.92**	**83.84**	**88.96**
18-Oct-15 11:00:00	18-Oct-15 12:00:00		1.96	0.00	0.00	6.59	2.1	329.7		0.65	0.00	0.00	2.17		10.35	18.92	83.84	86.68	18-Oct-15 11:00:00		**11.00**	**18.92**	**83.84**	**88.85**
18-Oct-15 12:00:00	18-Oct-15 13:00:00		1.23	0.00	0.00	27.77	2.1	329.7		0.40	0.00	0.00	9.16		10.35	18.92	83.84	86.68	18-Oct-15 12:00:00		**10.75**	**18.92**	**83.84**	**95.84**
18-Oct-15 13:00:00	18-Oct-15 14:00:00		0.60	0.00	0.00	6.66	2.1	329.7		0.20	0.00	0.00	2.20		10.35	18.92	83.84	86.68	18-Oct-15 13:00:00		**10.55**	**18.92**	**83.84**	**88.88**
18-Oct-15 14:00:00	18-Oct-15 15:00:00		2.44	0.00	0.00	18.12	2.1	329.7		0.80	0.00	0.00	5.97		10.35	18.92	83.84	86.68	18-Oct-15 14:00:00		**11.15**	**18.92**	**83.84**	**92.65**
18-Oct-15 15:00:00	18-Oct-15 16:00:00		1.06	0.00	0.00	6.16	2.1	329.7		0.35	0.00	0.00	2.03		10.35	18.92	83.84	86.68	18-Oct-15 15:00:00		**10.70**	**18.92**	**83.84**	**88.71**
18-Oct-15 16:00:00	18-Oct-15 17:00:00		0.00	0.00	0.00	6.20	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	18-Oct-15 16:00:00		**10.35**	**18.92**	**83.84**	**88.72**
18-Oct-15 17:00:00	18-Oct-15 18:00:00		0.00	0.00	0.00	6.24	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	18-Oct-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.74**
18-Oct-15 18:00:00	18-Oct-15 19:00:00		0.00	0.00	0.00	34.48	2.1	329.7		0.00	0.00	0.00	11.37		10.35	18.92	83.84	86.68	18-Oct-15 18:00:00		**10.35**	**18.92**	**83.84**	**98.05**
18-Oct-15 19:00:00	18-Oct-15 20:00:00		0.00	0.00	0.00	7.10	2.1	329.7		0.00	0.00	0.00	2.34		10.35	18.92	83.84	86.68	18-Oct-15 19:00:00		**10.35**	**18.92**	**83.84**	**89.02**
18-Oct-15 20:00:00	18-Oct-15 21:00:00		0.69	0.00	0.00	7.03	2.1	329.7		0.23	0.00	0.00	2.32		10.35	18.92	83.84	86.68	18-Oct-15 20:00:00		**10.58**	**18.92**	**83.84**	**89.00**
18-Oct-15 21:00:00	18-Oct-15 22:00:00		1.12	0.00	0.00	6.97	2.1	329.7		0.37	0.00	0.00	2.30		10.35	18.92	83.84	86.68	18-Oct-15 21:00:00		**10.72**	**18.92**	**83.84**	**88.98**
18-Oct-15 22:00:00	18-Oct-15 23:00:00		4.04	0.00	0.00	7.04	2.1	329.7		1.33	0.00	0.00	2.32		10.35	18.92	83.84	86.68	18-Oct-15 22:00:00		**11.68**	**18.92**	**83.84**	**89.00**
18-Oct-15 23:00:00	19-Oct-15 00:00:00		4.71	0.00	0.00	7.27	2.1	329.7		1.55	0.00	0.00	2.40		10.35	18.92	83.84	86.68	18-Oct-15 23:00:00		**11.90**	**18.92**	**83.84**	**89.08**
19-Oct-15 00:00:00	19-Oct-15 01:00:00		4.55	0.00	0.00	7.45	2.1	329.7		1.50	0.00	0.00	2.46		10.35	18.92	83.84	86.68	19-Oct-15 00:00:00		**11.85**	**18.92**	**83.84**	**89.14**
19-Oct-15 01:00:00	19-Oct-15 02:00:00		0.95	0.00	0.00	7.63	2.1	329.7		0.31	0.00	0.00	2.52		10.35	18.92	83.84	86.68	19-Oct-15 01:00:00		**10.66**	**18.92**	**83.84**	**89.20**
19-Oct-15 02:00:00	19-Oct-15 03:00:00		0.63	0.00	0.00	7.73	2.1	329.7		0.21	0.00	0.00	2.55		10.35	18.92	83.84	86.68	19-Oct-15 02:00:00		**10.56**	**18.92**	**83.84**	**89.23**
19-Oct-15 03:00:00	19-Oct-15 04:00:00		2.04	0.00	0.00	7.73	2.1	329.7		0.67	0.00	0.00	2.55		10.35	18.92	83.84	86.68	19-Oct-15 03:00:00		**11.02**	**18.92**	**83.84**	**89.23**
19-Oct-15 04:00:00	19-Oct-15 05:00:00		0.00	0.00	0.00	7.76	2.1	329.7		0.00	0.00	0.00	2.56		10.35	18.92	83.84	86.68	19-Oct-15 04:00:00		**10.35**	**18.92**	**83.84**	**89.24**
19-Oct-15 05:00:00	19-Oct-15 06:00:00		9.90	0.00	0.00	7.79	2.1	329.7		3.27	0.00	0.00	2.57		10.35	18.92	83.84	86.68	19-Oct-15 05:00:00		**13.62**	**18.92**	**83.84**	**89.25**
19-Oct-15 06:00:00	19-Oct-15 07:00:00		5.97	0.00	0.00	7.83	2.1	329.7		1.97	0.00	0.00	2.58		10.35	18.92	83.84	86.68	19-Oct-15 06:00:00		**12.32**	**18.92**	**83.84**	**89.26**
19-Oct-15 07:00:00	19-Oct-15 08:00:00		3.54	0.00	0.00	7.90	2.1	329.7		1.17	0.00	0.00	2.60		10.35	18.92	83.84	86.68	19-Oct-15 07:00:00		**11.52**	**18.92**	**83.84**	**89.28**
19-Oct-15 08:00:00	19-Oct-15 09:00:00		6.22	0.00	0.00	7.97	2.1	329.7		2.05	0.00	0.00	2.63		10.35	18.92	83.84	86.68	19-Oct-15 08:00:00		**12.40**	**18.92**	**83.84**	**89.31**
19-Oct-15 09:00:00	19-Oct-15 10:00:00		5.94	0.00	0.00	14.14	2.1	329.7		1.96	0.00	0.00	4.66		10.35	18.92	83.84	86.68	19-Oct-15 09:00:00		**12.31**	**18.92**	**83.84**	**91.34**
19-Oct-15 10:00:00	19-Oct-15 11:00:00		4.17	0.00	0.00	200.56	2.1	329.7		1.38	0.00	0.00	66.13		10.35	18.92	83.84	86.68	19-Oct-15 10:00:00		**11.73**	**18.92**	**83.84**	**152.81**
19-Oct-15 11:00:00	19-Oct-15 12:00:00		3.26	0.00	0.00	7.74	2.1	329.7		1.07	0.00	0.00	2.55		10.35	18.92	83.84	86.68	19-Oct-15 11:00:00		**11.42**	**18.92**	**83.84**	**89.23**
19-Oct-15 12:00:00	19-Oct-15 13:00:00		8.63	0.00	0.00	7.36	2.1	329.7		2.85	0.00	0.00	2.43		10.35	18.92	83.84	86.68	19-Oct-15 12:00:00		**13.20**	**18.92**	**83.84**	**89.11**
19-Oct-15 13:00:00	19-Oct-15 14:00:00		2.69	0.00	0.00	6.97	2.1	329.7		0.89	0.00	0.00	2.30		10.35	18.92	83.84	86.68	19-Oct-15 13:00:00		**11.24**	**18.92**	**83.84**	**88.98**
19-Oct-15 14:00:00	19-Oct-15 15:00:00		0.00	0.00	0.00	6.61	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	19-Oct-15 14:00:00		**10.35**	**18.92**	**83.84**	**88.86**
19-Oct-15 15:00:00	19-Oct-15 16:00:00		0.38	0.00	0.00	6.42	2.1	329.7		0.13	0.00	0.00	2.12		10.35	18.92	83.84	86.68	19-Oct-15 15:00:00		**10.48**	**18.92**	**83.84**	**88.80**
19-Oct-15 16:00:00	19-Oct-15 17:00:00		0.00	0.00	0.00	6.26	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	19-Oct-15 16:00:00		**10.35**	**18.92**	**83.84**	**88.74**
19-Oct-15 17:00:00	19-Oct-15 18:00:00		0.00	0.00	0.00	6.11	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	19-Oct-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.69**
19-Oct-15 18:00:00	19-Oct-15 19:00:00		0.00	0.00	0.00	5.96	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	19-Oct-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.65**
19-Oct-15 19:00:00	19-Oct-15 20:00:00		0.00	0.00	0.00	6.11	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	19-Oct-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.69**
19-Oct-15 20:00:00	19-Oct-15 21:00:00		0.00	0.00	0.00	6.39	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	19-Oct-15 20:00:00		**10.35**	**18.92**	**83.84**	**88.79**
19-Oct-15 21:00:00	19-Oct-15 22:00:00		2.24	0.00	0.00	6.67	2.1	329.7		0.74	0.00	0.00	2.20		10.35	18.92	83.84	86.68	19-Oct-15 21:00:00		**11.09**	**18.92**	**83.84**	**88.88**
19-Oct-15 22:00:00	19-Oct-15 23:00:00		2.53	0.00	0.00	6.94	2.1	329.7		0.83	0.00	0.00	2.29		10.35	18.92	83.84	86.68	19-Oct-15 22:00:00		**11.18**	**18.92**	**83.84**	**88.97**
19-Oct-15 23:00:00	20-Oct-15 00:00:00		6.49	1.40	101.22	7.08	2.1	329.7		2.14	0.46	33.37	2.34		10.35	18.92	83.84	86.68	19-Oct-15 23:00:00		**12.49**	**19.38**	**117.21**	**89.02**
20-Oct-15 00:00:00	20-Oct-15 01:00:00		6.58	0.00	244.32	7.21	2.1	329.7		2.17	0.00	80.55	2.38		10.35	18.92	83.84	86.68	20-Oct-15 00:00:00		**12.52**	**18.92**	**164.39**	**89.06**
20-Oct-15 01:00:00	20-Oct-15 02:00:00		5.54	0.00	512.83	7.34	2.1	329.7		1.83	0.00	169.08	2.42		10.35	18.92	83.84	86.68	20-Oct-15 01:00:00		**12.18**	**18.92**	**252.92**	**89.10**
20-Oct-15 02:00:00	20-Oct-15 03:00:00		7.26	0.00	481.68	7.47	2.1	329.7		2.39	0.00	158.81	2.46		10.35	18.92	83.84	86.68	20-Oct-15 02:00:00		**12.74**	**18.92**	**242.45**	**89.14**
20-Oct-15 03:00:00	20-Oct-15 04:00:00		7.76	0.00	572.08	7.54	2.1	329.7		2.56	0.00	188.62	2.49		10.35	18.92	83.84	86.68	20-Oct-15 03:00:00		**12.91**	**18.92**	**272.46**	**89.17**
20-Oct-15 04:00:00	20-Oct-15 05:00:00		6.37	0.00	391.32	7.55	2.1	329.7		2.10	0.00	129.02	2.49		10.35	18.92	83.84	86.68	20-Oct-15 04:00:00		**12.45**	**18.92**	**212.86**	**89.17**
20-Oct-15 05:00:00	20-Oct-15 06:00:00		4.61	0.00	610.66	7.57	2.1	329.7		1.52	0.00	201.33	2.49		10.35	18.92	83.84	86.68	20-Oct-15 05:00:00		**11.87**	**18.92**	**285.17**	**89.17**
20-Oct-15 06:00:00	20-Oct-15 07:00:00		18.70	0.00	548.26	7.53	2.1	329.7		6.17	0.00	180.76	2.48		10.35	18.92	83.84	86.68	20-Oct-15 06:00:00		**16.52**	**18.92**	**264.60**	**89.16**
20-Oct-15 07:00:00	20-Oct-15 08:00:00		3.23	0.00	544.56	7.10	2.1	329.7		1.07	0.00	179.54	2.34		10.35	18.92	83.84	86.68	20-Oct-15 07:00:00		**11.42**	**18.92**	**263.38**	**89.02**
20-Oct-15 08:00:00	20-Oct-15 09:00:00		0.00	0.00	491.76	6.71	2.1	329.7		0.00	0.00	162.13	2.21		10.35	18.92	83.84	86.68	20-Oct-15 08:00:00		**10.35**	**18.92**	**245.97**	**88.89**
20-Oct-15 09:00:00	20-Oct-15 10:00:00		0.00	0.00	318.50	6.33	2.1	329.7		0.00	0.00	105.01	2.09		10.35	18.92	83.84	86.68	20-Oct-15 09:00:00		**10.35**	**18.92**	**188.85**	**88.77**
20-Oct-15 10:00:00	20-Oct-15 11:00:00		0.31	0.00	346.99	5.95	2.1	329.7		0.10	0.00	114.40	1.96		10.35	18.92	83.84	86.68	20-Oct-15 10:00:00		**10.45**	**18.92**	**198.24**	**88.64**
20-Oct-15 11:00:00	20-Oct-15 12:00:00		127.13	0.00	172.83	5.72	2.1	329.7		41.92	0.00	56.98	1.89		10.35	18.92	83.84	86.68	20-Oct-15 11:00:00		**52.27**	**18.92**	**140.82**	**88.57**
20-Oct-15 12:00:00	20-Oct-15 13:00:00		360.92	0.00	158.98	5.54	2.1	329.7		118.99	0.00	52.42	1.83		10.35	18.92	83.84	86.68	20-Oct-15 12:00:00		**129.34**	**18.92**	**136.26**	**88.51**
20-Oct-15 13:00:00	20-Oct-15 14:00:00		320.44	0.00	198.67	5.35	2.1	329.7		105.65	0.00	65.50	1.77		10.35	18.92	83.84	86.68	20-Oct-15 13:00:00		**116.00**	**18.92**	**149.34**	**88.45**
20-Oct-15 14:00:00	20-Oct-15 15:00:00		321.87	0.00	244.88	5.17	2.1	329.7		106.12	0.00	80.74	1.71		10.35	18.92	83.84	86.68	20-Oct-15 14:00:00		**116.47**	**18.92**	**164.58**	**88.39**
20-Oct-15 15:00:00	20-Oct-15 16:00:00		323.48	0.00	173.14	5.14	2.1	329.7		106.65	0.00	57.08	1.69		10.35	18.92	83.84	86.68	20-Oct-15 15:00:00		**117.00**	**18.92**	**140.92**	**88.37**
20-Oct-15 16:00:00	20-Oct-15 17:00:00		269.00	0.00	450.54	5.16	2.1	329.7		88.69	0.00	148.54	1.70		10.35	18.92	83.84	86.68	20-Oct-15 16:00:00		**99.04**	**18.92**	**232.38**	**88.38**
20-Oct-15 17:00:00	20-Oct-15 18:00:00		527.81	0.00	287.42	5.18	2.1	329.7		174.02	0.00	94.76	1.71		10.35	18.92	83.84	86.68	20-Oct-15 17:00:00		**184.37**	**18.92**	**178.60**	**88.39**
20-Oct-15 18:00:00	20-Oct-15 19:00:00		704.25	0.00	284.28	5.21	2.1	329.7		232.19	0.00	93.73	1.72		10.35	18.92	83.84	86.68	20-Oct-15 18:00:00		**242.54**	**18.92**	**177.57**	**88.40**
20-Oct-15 19:00:00	20-Oct-15 20:00:00		835.51	0.00	587.15	5.43	2.1	329.7		275.47	0.00	193.58	1.79		10.35	18.92	83.84	86.68	20-Oct-15 19:00:00		**285.82**	**18.92**	**277.42**	**88.47**
20-Oct-15 20:00:00	20-Oct-15 21:00:00		913.86	0.00	732.93	5.75	2.1	329.7		301.30	0.00	241.65	1.90		10.35	18.92	83.84	86.68	20-Oct-15 20:00:00		**311.65**	**18.92**	**325.49**	**88.58**
20-Oct-15 21:00:00	20-Oct-15 22:00:00		1,230.77	0.00	732.54	6.08	2.1	329.7		405.78	0.00	241.52	2.00		10.35	18.92	83.84	86.68	20-Oct-15 21:00:00		**416.13**	**18.92**	**325.36**	**88.68**
20-Oct-15 22:00:00	20-Oct-15 23:00:00		1,434.14	0.00	738.04	6.40	2.1	329.7		472.84	0.00	243.33	2.11		10.35	18.92	83.84	86.68	20-Oct-15 22:00:00		**483.19**	**18.92**	**327.17**	**88.79**
20-Oct-15 23:00:00	21-Oct-15 00:00:00		1,495.77	0.00	736.34	6.67	2.1	329.7		493.15	0.00	242.77	2.20		10.35	18.92	83.84	86.68	20-Oct-15 23:00:00		**503.50**	**18.92**	**326.61**	**88.88**
21-Oct-15 00:00:00	21-Oct-15 01:00:00		1,324.72	0.00	688.80	6.85	2.1	329.7		436.76	0.00	227.10	2.26		10.35	18.92	83.84	86.68	21-Oct-15 00:00:00		**447.11**	**18.92**	**310.94**	**88.94**
21-Oct-15 01:00:00	21-Oct-15 02:00:00		457.35	0.00	592.08	7.04	2.1	329.7		150.79	0.00	195.21	2.32		10.35	18.92	83.84	86.68	21-Oct-15 01:00:00		**161.14**	**18.92**	**279.05**	**89.00**
21-Oct-15 02:00:00	21-Oct-15 03:00:00		145.06	0.00	365.01	7.22	2.1	329.7		47.83	0.00	120.34	2.38		10.35	18.92	83.84	86.68	21-Oct-15 02:00:00		**58.18**	**18.92**	**204.18**	**89.06**
21-Oct-15 03:00:00	21-Oct-15 04:00:00		100.36	0.00	103.17	7.45	2.1	329.7		33.09	0.00	34.02	2.46		10.35	18.92	83.84	86.68	21-Oct-15 03:00:00		**43.44**	**18.92**	**117.86**	**89.14**
21-Oct-15 04:00:00	21-Oct-15 05:00:00		20.54	0.00	0.00	7.38	2.1	329.7		6.77	0.00	0.00	2.43		10.35	18.92	83.84	86.68	21-Oct-15 04:00:00		**17.12**	**18.92**	**83.84**	**89.11**
21-Oct-15 05:00:00	21-Oct-15 06:00:00		16.66	0.00	0.00	7.46	2.1	329.7		5.49	0.00	0.00	2.46		10.35	18.92	83.84	86.68	21-Oct-15 05:00:00		**15.84**	**18.92**	**83.84**	**89.14**
21-Oct-15 06:00:00	21-Oct-15 07:00:00		33.80	0.00	0.00	7.54	2.1	329.7		11.14	0.00	0.00	2.49		10.35	18.92	83.84	86.68	21-Oct-15 06:00:00		**21.49**	**18.92**	**83.84**	**89.17**
21-Oct-15 07:00:00	21-Oct-15 08:00:00		20.22	0.00	0.00	21.90	2.1	329.7		6.67	0.00	0.00	7.22		10.35	18.92	83.84	86.68	21-Oct-15 07:00:00		**17.02**	**18.92**	**83.84**	**93.90**
21-Oct-15 08:00:00	21-Oct-15 09:00:00		1.07	0.00	0.00	7.97	2.1	329.7		0.35	0.00	0.00	2.63		10.35	18.92	83.84	86.68	21-Oct-15 08:00:00		**10.70**	**18.92**	**83.84**	**89.31**
21-Oct-15 09:00:00	21-Oct-15 10:00:00		0.26	0.00	0.00	7.22	2.1	329.7		0.09	0.00	0.00	2.38		10.35	18.92	83.84	86.68	21-Oct-15 09:00:00		**10.44**	**18.92**	**83.84**	**89.06**
21-Oct-15 10:00:00	21-Oct-15 11:00:00		16.00	0.00	0.00	6.47	2.1	329.7		5.28	0.00	0.00	2.13		10.35	18.92	83.84	86.68	21-Oct-15 10:00:00		**15.63**	**18.92**	**83.84**	**88.81**
21-Oct-15 11:00:00	21-Oct-15 12:00:00		9.81	0.00	0.00	5.91	2.1	329.7		3.23	0.00	0.00	1.95		10.35	18.92	83.84	86.68	21-Oct-15 11:00:00		**13.58**	**18.92**	**83.84**	**88.63**
21-Oct-15 12:00:00	21-Oct-15 13:00:00		6.42	0.00	0.00

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
23-Oct-15 10:00:00	23-Oct-15 11:00:00		14.53	0.00	0.00	5.53	2.1	329.7		4.79	0.00	0.00	1.82		10.35	18.92	83.84	86.68	23-Oct-15 10:00:00		15.14	18.92	83.84	88.50
23-Oct-15 11:00:00	23-Oct-15 12:00:00		0.88	0.00	0.00	5.29	2.1	329.7		0.23	0.00	0.00	1.74		10.35	18.92	83.84	86.68	23-Oct-15 11:00:00		10.58	18.92	83.84	88.42
23-Oct-15 12:00:00	23-Oct-15 13:00:00		12.22	0.00	0.00	5.07	2.1	329.7		4.03	0.00	0.00	1.67		10.35	18.92	83.84	86.68	23-Oct-15 12:00:00		14.38	18.92	83.84	88.35
23-Oct-15 13:00:00	23-Oct-15 14:00:00		11.08	0.00	0.00	4.84	2.1	329.7		3.65	0.00	0.00	1.60		10.35	18.92	83.84	86.68	23-Oct-15 13:00:00		14.00	18.92	83.84	88.28
23-Oct-15 14:00:00	23-Oct-15 15:00:00		40.45	0.00	0.00	4.62	2.1	329.7		13.34	0.00	0.00	1.52		10.35	18.92	83.84	86.68	23-Oct-15 14:00:00		23.69	18.92	83.84	88.20
23-Oct-15 15:00:00	23-Oct-15 16:00:00		9.84	0.00	0.00	4.52	2.1	329.7		3.25	0.00	0.00	1.49		10.35	18.92	83.84	86.68	23-Oct-15 15:00:00		13.60	18.92	83.84	88.17
23-Oct-15 16:00:00	23-Oct-15 17:00:00		7.44	0.00	0.00	4.48	2.1	329.7		2.45	0.00	0.00	1.48		10.35	18.92	83.84	86.68	23-Oct-15 16:00:00		12.80	18.92	83.84	88.16
23-Oct-15 17:00:00	23-Oct-15 18:00:00		13.44	0.00	0.00	4.43	2.1	329.7		4.43	0.00	0.00	1.46		10.35	18.92	83.84	86.68	23-Oct-15 17:00:00		14.78	18.92	83.84	88.14
23-Oct-15 18:00:00	23-Oct-15 19:00:00		7.25	0.00	0.00	4.45	2.1	329.7		2.39	0.00	0.00	1.47		10.35	18.92	83.84	86.68	23-Oct-15 18:00:00		12.74	18.92	83.84	88.15
23-Oct-15 19:00:00	23-Oct-15 20:00:00		1.87	0.00	0.00	4.77	2.1	329.7		0.62	0.00	0.00	1.57		10.35	18.92	83.84	86.68	23-Oct-15 19:00:00		10.97	18.92	83.84	88.25
23-Oct-15 20:00:00	23-Oct-15 21:00:00		19.62	0.00	0.00	5.12	2.1	329.7		6.47	0.00	0.00	1.69		10.35	18.92	83.84	86.68	23-Oct-15 20:00:00		16.82	18.92	83.84	88.37
23-Oct-15 21:00:00	23-Oct-15 22:00:00		6.81	0.00	0.00	5.48	2.1	329.7		2.24	0.00	0.00	1.81		10.35	18.92	83.84	86.68	23-Oct-15 21:00:00		12.59	18.92	83.84	88.49
23-Oct-15 22:00:00	23-Oct-15 23:00:00		0.00	0.00	0.00	5.83	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	23-Oct-15 22:00:00		10.35	18.92	83.84	88.60
23-Oct-15 23:00:00	24-Oct-15 00:00:00		7.00	0.00	0.00	5.90	2.1	329.7		2.31	0.00	0.00	1.94		10.35	18.92	83.84	86.68	23-Oct-15 23:00:00		12.66	18.92	83.84	88.62
24-Oct-15 00:00:00	24-Oct-15 01:00:00		4.40	0.00	0.00	5.86	2.1	329.7		1.45	0.00	0.00	1.93		10.35	18.92	83.84	86.68	24-Oct-15 00:00:00		11.80	18.92	83.84	88.61
24-Oct-15 01:00:00	24-Oct-15 02:00:00		3.80	0.00	0.00	5.82	2.1	329.7		1.25	0.00	0.00	1.92		10.35	18.92	83.84	86.68	24-Oct-15 01:00:00		11.60	18.92	83.84	88.60
24-Oct-15 02:00:00	24-Oct-15 03:00:00		8.32	0.00	0.00	5.80	2.1	329.7		2.74	0.00	0.00	1.91		10.35	18.92	83.84	86.68	24-Oct-15 02:00:00		13.09	18.92	83.84	88.59
24-Oct-15 03:00:00	24-Oct-15 04:00:00		8.62	0.00	0.00	5.94	2.1	329.7		2.84	0.00	0.00	1.96		10.35	18.92	83.84	86.68	24-Oct-15 03:00:00		13.19	18.92	83.84	88.64
24-Oct-15 04:00:00	24-Oct-15 05:00:00		9.24	0.00	0.00	6.09	2.1	329.7		3.05	0.00	0.00	2.01		10.35	18.92	83.84	86.68	24-Oct-15 04:00:00		13.40	18.92	83.84	88.69
24-Oct-15 05:00:00	24-Oct-15 06:00:00		17.32	0.00	0.00	6.25	2.1	329.7		5.71	0.00	0.00	2.06		10.35	18.92	83.84	86.68	24-Oct-15 05:00:00		16.06	18.92	83.84	88.74
24-Oct-15 06:00:00	24-Oct-15 07:00:00		0.00	0.00	0.00	6.37	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	24-Oct-15 06:00:00		10.35	18.92	83.84	88.78
24-Oct-15 07:00:00	24-Oct-15 08:00:00		0.00	0.00	0.00	6.35	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	24-Oct-15 07:00:00		10.35	18.92	83.84	88.77
24-Oct-15 08:00:00	24-Oct-15 09:00:00		0.09	0.00	0.00	6.35	2.1	329.7		0.03	0.00	0.00	2.09		10.35	18.92	83.84	86.68	24-Oct-15 08:00:00		10.38	18.92	83.84	88.77
24-Oct-15 09:00:00	24-Oct-15 10:00:00		0.00	0.00	0.00	6.35	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	24-Oct-15 09:00:00		10.35	18.92	83.84	88.77
24-Oct-15 10:00:00	24-Oct-15 11:00:00		0.00	0.00	0.00	6.29	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	24-Oct-15 10:00:00		10.35	18.92	83.84	88.76
24-Oct-15 11:00:00	24-Oct-15 12:00:00		0.00	0.00	0.00	6.07	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	24-Oct-15 11:00:00		10.35	18.92	83.84	88.68
24-Oct-15 12:00:00	24-Oct-15 13:00:00		0.00	0.00	0.00	5.85	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	24-Oct-15 12:00:00		10.35	18.92	83.84	88.61
24-Oct-15 13:00:00	24-Oct-15 14:00:00		0.00	0.00	0.00	5.63	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	24-Oct-15 13:00:00		10.35	18.92	83.84	88.54
24-Oct-15 14:00:00	24-Oct-15 15:00:00		0.26	0.00	0.00	5.39	2.1	329.7		0.09	0.00	0.00	1.78		10.35	18.92	83.84	86.68	24-Oct-15 14:00:00		10.44	18.92	83.84	88.46
24-Oct-15 15:00:00	24-Oct-15 16:00:00		10.46	0.00	0.00	5.17	2.1	329.7		3.45	0.00	0.00	1.71		10.35	18.92	83.84	86.68	24-Oct-15 15:00:00		13.80	18.92	83.84	88.39
24-Oct-15 16:00:00	24-Oct-15 17:00:00		7.56	0.00	0.00	5.01	2.1	329.7		2.49	0.00	0.00	1.65		10.35	18.92	83.84	86.68	24-Oct-15 16:00:00		12.84	18.92	83.84	88.33
24-Oct-15 17:00:00	24-Oct-15 18:00:00		12.33	0.00	0.00	4.84	2.1	329.7		4.06	0.00	0.00	1.60		10.35	18.92	83.84	86.68	24-Oct-15 17:00:00		14.41	18.92	83.84	88.28
24-Oct-15 18:00:00	24-Oct-15 19:00:00		4.57	0.00	0.00	4.72	2.1	329.7		1.51	0.00	0.00	1.55		10.35	18.92	83.84	86.68	24-Oct-15 18:00:00		11.86	18.92	83.84	88.23
24-Oct-15 19:00:00	24-Oct-15 20:00:00		12.42	0.00	0.00	4.88	2.1	329.7		4.09	0.00	0.00	1.61		10.35	18.92	83.84	86.68	24-Oct-15 19:00:00		14.44	18.92	83.84	88.29
24-Oct-15 20:00:00	24-Oct-15 21:00:00		13.00	0.00	0.00	5.08	2.1	329.7		4.28	0.00	0.00	1.67		10.35	18.92	83.84	86.68	24-Oct-15 20:00:00		14.63	18.92	83.84	88.35
24-Oct-15 21:00:00	24-Oct-15 22:00:00		5.11	0.00	0.00	5.28	2.1	329.7		1.69	0.00	0.00	1.74		10.35	18.92	83.84	86.68	24-Oct-15 21:00:00		12.04	18.92	83.84	88.42
24-Oct-15 22:00:00	24-Oct-15 23:00:00		3.73	0.00	0.00	5.47	2.1	329.7		1.23	0.00	0.00	1.80		10.35	18.92	83.84	86.68	24-Oct-15 22:00:00		11.58	18.92	83.84	88.48
24-Oct-15 23:00:00	25-Oct-15 00:00:00		4.34	0.00	0.00	5.64	2.1	329.7		1.43	0.00	0.00	1.86		10.35	18.92	83.84	86.68	24-Oct-15 23:00:00		11.78	18.92	83.84	88.54
25-Oct-15 00:00:00	25-Oct-15 01:00:00		7.72	0.00	0.00	5.83	2.1	329.7		2.55	0.00	0.00	1.92		10.35	18.92	83.84	86.68	25-Oct-15 00:00:00		12.90	18.92	83.84	88.60
25-Oct-15 01:00:00	25-Oct-15 02:00:00		2.07	0.00	0.00	6.02	2.1	329.7		0.68	0.00	0.00	1.98		10.35	18.92	83.84	86.68	25-Oct-15 01:00:00		11.03	18.92	83.84	88.66
25-Oct-15 02:00:00	25-Oct-15 03:00:00		7.04	0.00	0.00	6.14	2.1	329.7		2.32	0.00	0.00	2.02		10.35	18.92	83.84	86.68	25-Oct-15 02:00:00		12.67	18.92	83.84	88.70
25-Oct-15 03:00:00	25-Oct-15 04:00:00		6.49	0.00	0.00	6.07	2.1	329.7		2.14	0.00	0.00	2.00		10.35	18.92	83.84	86.68	25-Oct-15 03:00:00		12.49	18.92	83.84	88.68
25-Oct-15 04:00:00	25-Oct-15 05:00:00		2.34	0.00	0.00	6.02	2.1	329.7		0.77	0.00	0.00	1.99		10.35	18.92	83.84	86.68	25-Oct-15 04:00:00		11.12	18.92	83.84	88.67
25-Oct-15 05:00:00	25-Oct-15 06:00:00		3.57	0.00	0.00	5.98	2.1	329.7		1.18	0.00	0.00	1.97		10.35	18.92	83.84	86.68	25-Oct-15 05:00:00		11.53	18.92	83.84	88.65
25-Oct-15 06:00:00	25-Oct-15 07:00:00		0.00	0.00	0.00	5.99	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	25-Oct-15 06:00:00		10.35	18.92	83.84	88.66
25-Oct-15 07:00:00	25-Oct-15 08:00:00		0.00	0.00	0.00	5.94	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	25-Oct-15 07:00:00		10.35	18.92	83.84	88.64
25-Oct-15 08:00:00	25-Oct-15 09:00:00		0.00	0.00	0.00	5.74	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	25-Oct-15 08:00:00		10.35	18.92	83.84	88.57
25-Oct-15 09:00:00	25-Oct-15 10:00:00		0.00	0.00	0.00	5.54	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	25-Oct-15 09:00:00		10.35	18.92	83.84	88.51
25-Oct-15 10:00:00	25-Oct-15 11:00:00		0.00	0.00	0.00	5.31	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	25-Oct-15 10:00:00		10.35	18.92	83.84	88.43
25-Oct-15 11:00:00	25-Oct-15 12:00:00		18.94	0.00	0.00	5.11	2.1	329.7		6.25	0.00	0.00	1.68		10.35	18.92	83.84	86.68	25-Oct-15 11:00:00		16.60	18.92	83.84	88.36
25-Oct-15 12:00:00	25-Oct-15 13:00:00		7.16	0.00	0.00	4.99	2.1	329.7		2.36	0.00	0.00	1.65		10.35	18.92	83.84	86.68	25-Oct-15 12:00:00		12.71	18.92	83.84	88.33
25-Oct-15 13:00:00	25-Oct-15 14:00:00		6.49	0.00	0.00	4.88	2.1	329.7		2.14	0.00	0.00	1.61		10.35	18.92	83.84	86.68	25-Oct-15 13:00:00		12.49	18.92	83.84	88.29
25-Oct-15 14:00:00	25-Oct-15 15:00:00		15.50	0.00	0.00	4.80	2.1	329.7		5.11	0.00	0.00	1.58		10.35	18.92	83.84	86.68	25-Oct-15 14:00:00		15.46	18.92	83.84	88.26
25-Oct-15 15:00:00	25-Oct-15 16:00:00		15.52	0.00	0.00	4.78	2.1	329.7		5.12	0.00	0.00	1.58		10.35	18.92	83.84	86.68	25-Oct-15 15:00:00		15.47	18.92	83.84	88.26
25-Oct-15 16:00:00	25-Oct-15 17:00:00		15.71	0.00	0.00	4.74	2.1	329.7		5.18	0.00	0.00	1.56		10.35	18.92	83.84	86.68	25-Oct-15 16:00:00		15.53	18.92	83.84	88.24
25-Oct-15 17:00:00	25-Oct-15 18:00:00		15.90	0.00	0.00	4.69	2.1	329.7		5.24	0.00	0.00	1.55		10.35	18.92	83.84	86.68	25-Oct-15 17:00:00		15.59	18.92	83.84	88.23
25-Oct-15 18:00:00	25-Oct-15 19:00:00		16.09	0.00	0.00	4.69	2.1	329.7		5.30	0.00	0.00	1.54		10.35	18.92	83.84	86.68	25-Oct-15 18:00:00		15.65	18.92	83.84	88.22
25-Oct-15 19:00:00	25-Oct-15 20:00:00		16.15	0.00	0.00	4.89	2.1	329.7		5.32	0.00	0.00	1.61		10.35	18.92	83.84	86.68	25-Oct-15 19:00:00		15.67	18.92	83.84	88.29
25-Oct-15 20:00:00	25-Oct-15 21:00:00		16.25	0.00	0.00	5.10	2.1	329.7		5.36	0.00	0.00	1.68		10.35	18.92	83.84	86.68	25-Oct-15 20:00:00		15.71	18.92	83.84	88.36
25-Oct-15 21:00:00	25-Oct-15 22:00:00		13.01	0.00	0.00	5.31	2.1	329.7		4.29	0.00	0.00	1.75		10.35	18.92	83.84	86.68	25-Oct-15 21:00:00		14.64	18.92	83.84	88.43
25-Oct-15 22:00:00	25-Oct-15 23:00:00		7.00	0.00	0.00	5.47	2.1	329.7		2.31	0.00	0.00	1.80		10.35	18.92	83.84	86.68	25-Oct-15 22:00:00		12.66	18.92	83.84	88.48
25-Oct-15 23:00:00	26-Oct-15 00:00:00		3.35	0.00	0.00	5.50	2.1	329.7		1.11	0.00	0.00	1.81		10.35	18.92	83.84	86.68	25-Oct-15 23:00:00		11.46	18.92	83.84	88.49
26-Oct-15 00:00:00	26-Oct-15 01:00:00		3.57	0.00	0.00	5.59	2.1	329.7		1.18	0.00	0.00	1.84		10.35	18.92	83.84	86.68	26-Oct-15 00:00:00		11.53	18.92	83.84	88.52
26-Oct-15 01:00:00	26-Oct-15 02:00:00		4.25	0.00	0.00	5.67	2.1	329.7		1.40	0.00	0.00	1.87		10.35	18.92	83.84	86.68	26-Oct-15 01:00:00		11.75	18.92	83.84	88.55
26-Oct-15 02:00:00	26-Oct-15 03:00:00		4.93	0.00	0.00	5.77	2.1	329.7		1.63	0.00	0.00	1.90		10.35	18.92	83.84	86.68	26-Oct-15 02:00:00		11.98	18.92	83.84	88.58
26-Oct-15 03:00:00	26-Oct-15 04:00:00		5.27	0.00	0.00	5.82	2.1	329.7		1.74	0.00	0.00	1.92		10.35	18.92	83.84	86.68	26-Oct-15 03:00:00		12.09	18.92	83.84	88.60
26-Oct-15 04:00:00	26-Oct-15 05:00:00		4.35	0.00	0.00	5.82	2.1	329.7		1.43	0.00	0.00	1.92		10.35	18.92	83.84	86.68	26-Oct-15 04:00:00		11.78	18.92	83.84	88.60
26-Oct-15 05:00:00	26-Oct-15 06:00:00		4.18	0.00	0.00	5.83	2.1	329.7		1.38	0.00	0.00	1.92		10.35	18.92	83.84	86.68	26-Oct-15 05:00:00		11.73	18.92	83.84	88.60
26-Oct-15 06:00:00	26-Oct-15 07:00:00		4.11	0.00	0.00	5.89	2.1	329.7		1.36	0.00	0.00	1.94		10.35	18.92	83.84	86.68	26-Oct-15 06:00:00		11.71	18.92	83.84	88.62
26-Oct-15 07:00:00	26-Oct-15 08:00:00		2.51	0.00	0.00	6.14	2.1	329.7		0.83	0.00	0.00	2.02		10.35	18.92	83.84	86.68	26-Oct-15 07:00:00		11.18	18.92	83.84	88.70
26-Oct-15 08:00:00	26-Oct-15 09:00:00		14.88	0.00	0.00	6.34	2.1	329.7		4.91	0.00	0.00	2.09		10.35	18.92	83.84	86.68	26-Oct-15 08:00:00		15.26	18.92	83.84	88.77
26-Oct-15 09:00:00	26-Oct-15 10:00:00		0.00	0.00	0.00	6.54	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	26-Oct-15 09:00:00		10.35	18.92	83.84	88.84
26-Oct-15 10:00:00	26-Oct-15 11:00:00		5.17	0.00	0.00	6.71	2.1	329.7		1.70	0.00	0.00	2.21		10.35	18.92	83.84	86.68	26-Oct-15 10:00:00		12.05	18.92	83.84	88.89
26-Oct-15 11:00:00	26-Oct-15 12:00:00		12.27	0.00	0.00	6.64	2.1	329.7		4.05	0.00	0.00	2.19		10.35	18.92	83.84	86.68	26-Oct-15 11:00:00		14.40	18.92	83.84	88.87
26-Oct-15 12:00:00	26-Oct-15 13:00:00		0.27	0.00	0.00	6.53	2.1	329.7		0.09	0.00	0.00	2.15		10.35	18.92	83.84	86.68	26-Oct-15 12:00:00		10.44	18.92	83.84	88.83
26-Oct-15 13:00:00	26-Oct-15 14:00:00		3.79	0.00	0.00	6.42	2.1	329.7		1.25	0.00	0.00	2.12		10.35	18.92	83.84	86.68	26-Oct-15 13:00:00		11.60	18.92	83.84	88.80
26-Oct-15 14:00:00	26-Oct-15 15:00:00		0.89	0.00	0.00	6.33	2.1	329.7		0.29	0.00	0.00	2.09		10.35	18.92	83.84	86.68	26-Oct-15 14:00:00		10.64	18.92	83.84	88.77
26-Oct-15 15:00:00	26-Oct-15 16:00:00		0.53	0.00	0.00	6.38	2.1	329.7		0.18	0.00	0.00	2.10		10.35	18.92	83.84	86.68	26-Oct-15 15:00:00		10.53	18.92	83.84	88.78
26-Oct-15 16:00:00	26-Oct-15 17:00:00		2.65	0.00	0.00	6.42	2.1	329.7		0.87	0.00	0.00	2.12		10.35	18.92	83.84	86.68	26-Oct-15 16:00:00		11.22	18.92	83.84	88.80
26-Oct-15 17:00:00	26-Oct-15 18:00:00		0.00	0.00	0.00	6.45	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	26-Oct-15 17:00:00		10.35	18.92	83.84	88.81
26-Oct-15 18:00:00	26-Oct-15 19:00:00		0.00	0.00	0.00	6.47	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	26-Oct-15 18:00:00		10.35	18.92	83.84	88.81
26-Oct-15 19:00:00	26-Oct-15 20:00:00		0.35	0.00	0.00	6.51	2.1	329.7		0.11	0.00	0.00	2.15		10.35	18.92	83.84	86.68	26-Oct-15 19:00:00		10.46	18.92	83.84	88.83
26-Oct-15 20:00:00	26-Oct-15 21:00:00		0.00	0.00	0.00	6.59	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	26-Oct-15 20:00:00		10.35	18.92	83.84	88.85
26-Oct-15 21:00:00	26-Oct-15 22:00:00		2.01	0.00	0.00	6.67	2.1	329.7		0.66	0.00	0.00	2.20		10.35	18.92	83.84	86.68	26-Oct-15 21:00:00		11.01	18.92	83.84	88.88
26-Oct-15 22:00:00	26-Oct-15 23:00:00		9.57	0.00	0.00	6.71	2.1	329.7		3.15	0.00	0.00	2.21		10.35	18.92	83.84	86.68	26-Oct-15 22:00:00		13.50	18.92	83.84	88.89
26-Oct-15 23:00:00	27-Oct-15 00:00:00		2.14	0.00	0.00	6.68	2.1	329.7		0.71	0.00	0.00	2.20		10.35	18.92	83.84	86.68	26-Oct-15 23:00:00		11.06	18.92	83.84	88.88
27-Oct-15 00:00:00	27-Oct-15 01:00:00		1.04	0.00	0.00	6.76	2.1	329.7		0.34	0.00	0.00	2.23		10.35	18.92	83.84	86.68	27-Oct-15 00:00:00		10.69	18.92	83.84	88.91
27-Oct-15 01:00:00	27-Oct-15 02:00:00		9.58	0.00	0.00	6.84	2.1	329.7		3.16	0.00	0.00	2.25		10.35	18.92	83.84	86.68	27-Oct-15 01:00:00		13.51	18.92	83.84	88.93
27-Oct-15 02:00:00	27-Oct-15 03:00:00		4.05	0.00	0.00	6.87	2.1	329.7		1.33	0.00	0.00	2.26		10.35	18.92	83.84	86.68	27-Oct-15 02:00:00		11.68	18.92	83.84	88.94
27-Oct-15 03:00:00	27-Oct-15 04:00:00		12.31	0.00	0.00	6.75	2.1	329.7		4.06	0.00	0.00	2.23		10.35	18.92	83.84	86.68	27-Oct-15 03:00:00		14.41	18.92	83.84	88.91
27-Oct-15 04:00:00	27-Oct-15 05:00:00		12.80	0.00	0.00	6.72	2.1	329.7		4.22	0.00	0.00	2.22		10.35	18.92	83.84	86.68	27-Oct-15 04:00:00		14.57	18.92	83.84	88.90
27-Oct-15 05:00:00	27-Oct-15 06:00:00		7.74	0.00	0.00	6.69	2.1	329.7		2.55	0.00	0.00	2.21		10.35	18.92	83.84	86.68	27-Oct-15 05:00:00		12.90	18.92	83.84	88.89
27-Oct-15 06:00:00	27-Oct-15 07:00:00		3.60	0.00	0.00	6.62	2.1	329.7		1.19	0.00	0.00	2.18		10.35	18.92	83.84	86.68	27-Oct-15 06:00:00		11.54	18.92	83.84	88.86
27-Oct-15 07:00:00	27-Oct-15 08:00:00		3.36	0.00	0.00	6.59

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
29-Oct-15 05:00:00	29-Oct-15 06:00:00		37.00	0.00	0.00	5.62	2.1	329.7		12.20	0.00	0.00	1.85		10.35	18.92	83.84	86.68	29-Oct-15 05:00:00		22.55	18.92	83.84	88.53
29-Oct-15 06:00:00	29-Oct-15 07:00:00		14.86	0.00	0.00	5.76	2.1	329.7		4.90	0.00	0.00	1.90		10.35	18.92	83.84	86.68	29-Oct-15 06:00:00		15.25	18.92	83.84	88.58
29-Oct-15 07:00:00	29-Oct-15 08:00:00		3.56	0.00	0.00	5.73	2.1	329.7		1.17	0.00	0.00	1.89		10.35	18.92	83.84	86.68	29-Oct-15 07:00:00		11.52	18.92	83.84	88.57
29-Oct-15 08:00:00	29-Oct-15 09:00:00		0.14	0.00	0.00	5.66	2.1	329.7		0.05	0.00	0.00	1.87		10.35	18.92	83.84	86.68	29-Oct-15 08:00:00		10.40	18.92	83.84	88.55
29-Oct-15 09:00:00	29-Oct-15 10:00:00		0.00	0.00	0.00	5.59	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	29-Oct-15 09:00:00		10.35	18.92	83.84	88.52
29-Oct-15 10:00:00	29-Oct-15 11:00:00		0.00	0.00	0.00	5.52	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	29-Oct-15 10:00:00		10.35	18.92	83.84	88.50
29-Oct-15 11:00:00	29-Oct-15 12:00:00		0.00	0.00	0.00	5.43	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	29-Oct-15 11:00:00		10.35	18.92	83.84	88.47
29-Oct-15 12:00:00	29-Oct-15 13:00:00		4.94	0.00	0.00	5.31	2.1	329.7		1.63	0.00	0.00	1.75		10.35	18.92	83.84	86.68	29-Oct-15 12:00:00		11.98	18.92	83.84	88.43
29-Oct-15 13:00:00	29-Oct-15 14:00:00		2.20	0.00	0.00	5.19	2.1	329.7		0.72	0.00	0.00	1.71		10.35	18.92	83.84	86.68	29-Oct-15 13:00:00		11.07	18.92	83.84	88.39
29-Oct-15 14:00:00	29-Oct-15 15:00:00		14.03	0.00	0.00	5.08	2.1	329.7		4.63	0.00	0.00	1.67		10.35	18.92	83.84	86.68	29-Oct-15 14:00:00		14.98	18.92	83.84	88.35
29-Oct-15 15:00:00	29-Oct-15 16:00:00		16.34	0.00	0.00	5.03	2.1	329.7		5.39	0.00	0.00	1.66		10.35	18.92	83.84	86.68	29-Oct-15 15:00:00		15.74	18.92	83.84	88.34
29-Oct-15 16:00:00	29-Oct-15 17:00:00		17.31	0.00	0.00	5.00	2.1	329.7		5.71	0.00	0.00	1.65		10.35	18.92	83.84	86.68	29-Oct-15 16:00:00		16.06	18.92	83.84	88.33
29-Oct-15 17:00:00	29-Oct-15 18:00:00		15.57	0.00	0.00	4.96	2.1	329.7		5.13	0.00	0.00	1.64		10.35	18.92	83.84	86.68	29-Oct-15 17:00:00		15.48	18.92	83.84	88.32
29-Oct-15 18:00:00	29-Oct-15 19:00:00		14.31	0.00	0.00	4.95	2.1	329.7		4.72	0.00	0.00	1.63		10.35	18.92	83.84	86.68	29-Oct-15 18:00:00		15.07	18.92	83.84	88.31
29-Oct-15 19:00:00	29-Oct-15 20:00:00		12.01	0.00	0.00	5.13	2.1	329.7		3.96	0.00	0.00	1.69		10.35	18.92	83.84	86.68	29-Oct-15 19:00:00		14.31	18.92	83.84	88.37
29-Oct-15 20:00:00	29-Oct-15 21:00:00		12.98	0.00	0.00	5.25	2.1	329.7		4.28	0.00	0.00	1.73		10.35	18.92	83.84	86.68	29-Oct-15 20:00:00		14.63	18.92	83.84	88.41
29-Oct-15 21:00:00	29-Oct-15 22:00:00		7.17	0.00	0.00	5.37	2.1	329.7		2.36	0.00	0.00	1.77		10.35	18.92	83.84	86.68	29-Oct-15 21:00:00		12.71	18.92	83.84	88.45
29-Oct-15 22:00:00	29-Oct-15 23:00:00		1.39	0.00	0.00	5.45	2.1	329.7		0.46	0.00	0.00	1.80		10.35	18.92	83.84	86.68	29-Oct-15 22:00:00		10.81	18.92	83.84	88.48
29-Oct-15 23:00:00	30-Oct-15 00:00:00		1.00	0.00	0.00	5.44	2.1	329.7		0.33	0.00	0.00	1.79		10.35	18.92	83.84	86.68	29-Oct-15 23:00:00		10.68	18.92	83.84	88.47
30-Oct-15 00:00:00	30-Oct-15 01:00:00		3.16	0.00	0.00	5.73	2.1	329.7		1.04	0.00	0.00	1.89		10.35	18.92	83.84	86.68	30-Oct-15 00:00:00		11.39	18.92	83.84	88.57
30-Oct-15 01:00:00	30-Oct-15 02:00:00		6.78	0.00	0.00	6.03	2.1	329.7		2.24	0.00	0.00	1.99		10.35	18.92	83.84	86.68	30-Oct-15 01:00:00		12.59	18.92	83.84	88.67
30-Oct-15 02:00:00	30-Oct-15 03:00:00		0.27	0.00	0.00	6.32	2.1	329.7		0.09	0.00	0.00	2.08		10.35	18.92	83.84	86.68	30-Oct-15 02:00:00		10.44	18.92	83.84	88.76
30-Oct-15 03:00:00	30-Oct-15 04:00:00		0.09	0.00	0.00	6.45	2.1	329.7		0.03	0.00	0.00	2.13		10.35	18.92	83.84	86.68	30-Oct-15 03:00:00		10.38	18.92	83.84	88.81
30-Oct-15 04:00:00	30-Oct-15 05:00:00		0.03	0.00	0.00	6.54	2.1	329.7		0.01	0.00	0.00	2.16		10.35	18.92	83.84	86.68	30-Oct-15 04:00:00		10.36	18.92	83.84	88.84
30-Oct-15 05:00:00	30-Oct-15 06:00:00		6.82	0.00	0.00	6.62	2.1	329.7		2.25	0.00	0.00	2.18		10.35	18.92	83.84	86.68	30-Oct-15 05:00:00		12.60	18.92	83.84	88.86
30-Oct-15 06:00:00	30-Oct-15 07:00:00		6.65	0.00	0.00	6.70	2.1	329.7		2.19	0.00	0.00	2.21		10.35	18.92	83.84	86.68	30-Oct-15 06:00:00		12.54	18.92	83.84	88.89
30-Oct-15 07:00:00	30-Oct-15 08:00:00		6.52	0.00	0.00	6.53	2.1	329.7		2.15	0.00	0.00	2.15		10.35	18.92	83.84	86.68	30-Oct-15 07:00:00		12.50	18.92	83.84	88.83
30-Oct-15 08:00:00	30-Oct-15 09:00:00		2.76	0.00	0.00	6.34	2.1	329.7		0.91	0.00	0.00	2.09		10.35	18.92	83.84	86.68	30-Oct-15 08:00:00		11.26	18.92	83.84	88.77
30-Oct-15 09:00:00	30-Oct-15 10:00:00		2.44	0.00	0.00	6.15	2.1	329.7		0.80	0.00	0.00	2.03		10.35	18.92	83.84	86.68	30-Oct-15 09:00:00		11.15	18.92	83.84	88.71
30-Oct-15 10:00:00	30-Oct-15 11:00:00		2.67	0.00	0.00	5.98	2.1	329.7		0.88	0.00	0.00	1.97		10.35	18.92	83.84	86.68	30-Oct-15 10:00:00		11.23	18.92	83.84	88.65
30-Oct-15 11:00:00	30-Oct-15 12:00:00		1.23	0.00	0.00	5.94	2.1	329.7		0.40	0.00	0.00	1.96		10.35	18.92	83.84	86.68	30-Oct-15 11:00:00		10.75	18.92	83.84	88.64
30-Oct-15 12:00:00	30-Oct-15 13:00:00		0.00	0.00	0.00	5.73	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	30-Oct-15 12:00:00		10.35	18.92	83.84	88.57
30-Oct-15 13:00:00	30-Oct-15 14:00:00		0.00	0.00	0.00	5.52	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	30-Oct-15 13:00:00		10.35	18.92	83.84	88.50
30-Oct-15 14:00:00	30-Oct-15 15:00:00		1.64	0.00	0.00	5.32	2.1	329.7		0.54	0.00	0.00	1.75		10.35	18.92	83.84	86.68	30-Oct-15 14:00:00		10.89	18.92	83.84	88.43
30-Oct-15 15:00:00	30-Oct-15 16:00:00		0.94	0.00	0.00	5.28	2.1	329.7		0.31	0.00	0.00	1.74		10.35	18.92	83.84	86.68	30-Oct-15 15:00:00		10.66	18.92	83.84	88.42
30-Oct-15 16:00:00	30-Oct-15 17:00:00		11.39	0.00	0.00	5.30	2.1	329.7		3.76	0.00	0.00	1.75		10.35	18.92	83.84	86.68	30-Oct-15 16:00:00		14.11	18.92	83.84	88.43
30-Oct-15 17:00:00	30-Oct-15 18:00:00		18.74	0.00	0.00	5.32	2.1	329.7		6.18	0.00	0.00	1.75		10.35	18.92	83.84	86.68	30-Oct-15 17:00:00		16.53	18.92	83.84	88.43
30-Oct-15 18:00:00	30-Oct-15 19:00:00		2.30	0.00	0.00	5.31	2.1	329.7		0.76	0.00	0.00	1.75		10.35	18.92	83.84	86.68	30-Oct-15 18:00:00		11.11	18.92	83.84	88.43
30-Oct-15 19:00:00	30-Oct-15 20:00:00		1.49	0.00	0.00	5.30	2.1	329.7		0.49	0.00	0.00	1.75		10.35	18.92	83.84	86.68	30-Oct-15 19:00:00		10.84	18.92	83.84	88.43
30-Oct-15 20:00:00	30-Oct-15 21:00:00		0.64	0.00	0.00	5.60	2.1	329.7		0.21	0.00	0.00	1.85		10.35	18.92	83.84	86.68	30-Oct-15 20:00:00		10.56	18.92	83.84	88.53
30-Oct-15 21:00:00	30-Oct-15 22:00:00		0.00	0.00	0.00	5.90	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	30-Oct-15 21:00:00		10.35	18.92	83.84	88.62
30-Oct-15 22:00:00	30-Oct-15 23:00:00		0.00	0.00	0.00	6.20	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	30-Oct-15 22:00:00		10.35	18.92	83.84	88.72
30-Oct-15 23:00:00	31-Oct-15 00:00:00		0.00	0.00	0.00	6.42	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	30-Oct-15 23:00:00		10.35	18.92	83.84	88.80
31-Oct-15 00:00:00	31-Oct-15 01:00:00		0.59	0.00	0.00	6.54	2.1	329.7		0.19	0.00	0.00	2.16		10.35	18.92	83.84	86.68	31-Oct-15 00:00:00		10.54	18.92	83.84	88.84
31-Oct-15 01:00:00	31-Oct-15 02:00:00		1.43	0.00	0.00	6.66	2.1	329.7		0.47	0.00	0.00	2.20		10.35	18.92	83.84	86.68	31-Oct-15 01:00:00		10.82	18.92	83.84	88.88
31-Oct-15 02:00:00	31-Oct-15 03:00:00		1.64	0.00	0.00	6.77	2.1	329.7		0.54	0.00	0.00	2.23		10.35	18.92	83.84	86.68	31-Oct-15 02:00:00		10.89	18.92	83.84	88.91
31-Oct-15 03:00:00	31-Oct-15 04:00:00		4.24	0.00	0.00	6.81	2.1	329.7		1.40	0.00	0.00	2.25		10.35	18.92	83.84	86.68	31-Oct-15 03:00:00		11.75	18.92	83.84	88.93
31-Oct-15 04:00:00	31-Oct-15 05:00:00		5.85	0.00	0.00	6.83	2.1	329.7		1.93	0.00	0.00	2.25		10.35	18.92	83.84	86.68	31-Oct-15 04:00:00		12.28	18.92	83.84	88.93
31-Oct-15 05:00:00	31-Oct-15 06:00:00		6.91	0.00	0.00	6.85	2.1	329.7		2.28	0.00	0.00	2.26		10.35	18.92	83.84	86.68	31-Oct-15 05:00:00		12.63	18.92	83.84	88.94
31-Oct-15 06:00:00	31-Oct-15 07:00:00		9.54	0.00	0.00	6.88	2.1	329.7		3.15	0.00	0.00	2.27		10.35	18.92	83.84	86.68	31-Oct-15 06:00:00		13.50	18.92	83.84	88.95
31-Oct-15 07:00:00	31-Oct-15 08:00:00		9.42	0.00	0.00	6.84	2.1	329.7		3.10	0.00	0.00	2.26		10.35	18.92	83.84	86.68	31-Oct-15 07:00:00		13.45	18.92	83.84	88.94
31-Oct-15 08:00:00	31-Oct-15 09:00:00		16.65	0.00	0.00	6.70	2.1	329.7		5.49	0.00	0.00	2.21		10.35	18.92	83.84	86.68	31-Oct-15 08:00:00		15.84	18.92	83.84	88.89
31-Oct-15 09:00:00	31-Oct-15 10:00:00		7.66	0.00	0.00	6.56	2.1	329.7		2.52	0.00	0.00	2.16		10.35	18.92	83.84	86.68	31-Oct-15 09:00:00		12.87	18.92	83.84	88.84
31-Oct-15 10:00:00	31-Oct-15 11:00:00		5.46	0.00	0.00	6.42	2.1	329.7		1.80	0.00	0.00	2.12		10.35	18.92	83.84	86.68	31-Oct-15 10:00:00		12.15	18.92	83.84	88.80
31-Oct-15 11:00:00	31-Oct-15 12:00:00		4.94	0.00	0.00	6.28	2.1	329.7		1.63	0.00	0.00	2.07		10.35	18.92	83.84	86.68	31-Oct-15 11:00:00		11.98	18.92	83.84	88.75
31-Oct-15 12:00:00	31-Oct-15 13:00:00		6.56	0.00	0.00	6.12	2.1	329.7		2.16	0.00	0.00	2.02		10.35	18.92	83.84	86.68	31-Oct-15 12:00:00		12.51	18.92	83.84	88.70
31-Oct-15 13:00:00	31-Oct-15 14:00:00		4.43	0.00	0.00	5.97	2.1	329.7		1.46	0.00	0.00	1.97		10.35	18.92	83.84	86.68	31-Oct-15 13:00:00		11.81	18.92	83.84	88.65
31-Oct-15 14:00:00	31-Oct-15 15:00:00		0.24	0.00	0.00	5.83	2.1	329.7		0.08	0.00	0.00	1.92		10.35	18.92	83.84	86.68	31-Oct-15 14:00:00		10.43	18.92	83.84	88.60
31-Oct-15 15:00:00	31-Oct-15 16:00:00		6.40	0.00	0.00	5.84	2.1	329.7		2.11	0.00	0.00	1.92		10.35	18.92	83.84	86.68	31-Oct-15 15:00:00		12.46	18.92	83.84	88.60
31-Oct-15 16:00:00	31-Oct-15 17:00:00		2.08	0.00	0.00	5.72	2.1	329.7		0.69	0.00	0.00	1.89		10.35	18.92	83.84	86.68	31-Oct-15 16:00:00		11.04	18.92	83.84	88.57
31-Oct-15 17:00:00	31-Oct-15 18:00:00		0.29	0.00	0.00	5.60	2.1	329.7		0.10	0.00	0.00	1.85		10.35	18.92	83.84	86.68	31-Oct-15 17:00:00		10.45	18.92	83.84	88.53
31-Oct-15 18:00:00	31-Oct-15 19:00:00		0.18	0.00	0.00	5.51	2.1	329.7		0.06	0.00	0.00	1.82		10.35	18.92	83.84	86.68	31-Oct-15 18:00:00		10.41	18.92	83.84	88.50
31-Oct-15 19:00:00	31-Oct-15 20:00:00		0.06	0.00	0.00	5.73	2.1	329.7		0.02	0.00	0.00	1.89		10.35	18.92	83.84	86.68	31-Oct-15 19:00:00		10.37	18.92	83.84	88.57
31-Oct-15 20:00:00	31-Oct-15 21:00:00		0.00	0.00	0.00	5.77	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	31-Oct-15 20:00:00		10.35	18.92	83.84	88.58
31-Oct-15 21:00:00	31-Oct-15 22:00:00		0.00	0.00	0.00	5.81	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	31-Oct-15 21:00:00		10.35	18.92	83.84	88.60
31-Oct-15 22:00:00	31-Oct-15 23:00:00		0.00	0.00	0.00	5.86	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	31-Oct-15 22:00:00		10.35	18.92	83.84	88.61
31-Oct-15 23:00:00	01-Nov-15 00:00:00		0.00	0.00	0.00	6.01	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	31-Oct-15 23:00:00		10.35	18.92	83.84	88.66
01-Nov-15 00:00:00	01-Nov-15 01:00:00		0.00	0.00	0.00	5.97	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	01-Nov-15 00:00:00		10.35	18.92	83.84	88.65
01-Nov-15 01:00:00	01-Nov-15 02:00:00		0.00	0.00	0.00	5.94	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	01-Nov-15 01:00:00		10.35	18.92	83.84	88.64
01-Nov-15 02:00:00	01-Nov-15 03:00:00		0.00	0.00	0.00	5.90	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	01-Nov-15 02:00:00		10.35	18.92	83.84	88.63
01-Nov-15 03:00:00	01-Nov-15 04:00:00		0.00	0.00	0.00	5.86	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	01-Nov-15 03:00:00		10.35	18.92	83.84	88.61
01-Nov-15 04:00:00	01-Nov-15 05:00:00		0.00	0.00	0.00	5.78	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	01-Nov-15 04:00:00		10.35	18.92	83.84	88.59
01-Nov-15 05:00:00	01-Nov-15 06:00:00		0.00	0.00	0.00	5.73	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	01-Nov-15 05:00:00		10.35	18.92	83.84	88.57
01-Nov-15 06:00:00	01-Nov-15 07:00:00		0.00	0.00	0.00	5.68	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	01-Nov-15 06:00:00		10.35	18.92	83.84	88.55
01-Nov-15 07:00:00	01-Nov-15 08:00:00		0.00	0.00	0.00	5.62	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	01-Nov-15 07:00:00		10.35	18.92	83.84	88.53
01-Nov-15 08:00:00	01-Nov-15 09:00:00		0.00	0.00	0.00	5.50	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	01-Nov-15 08:00:00		10.35	18.92	83.84	88.49
01-Nov-15 09:00:00	01-Nov-15 10:00:00		0.00	0.00	0.00	5.49	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	01-Nov-15 09:00:00		10.35	18.92	83.84	88.49
01-Nov-15 10:00:00	01-Nov-15 11:00:00		0.10	0.00	0.00	5.49	2.1	329.7		0.03	0.00	0.00	1.81		10.35	18.92	83.84	86.68	01-Nov-15 10:00:00		10.38	18.92	83.84	88.49
01-Nov-15 11:00:00	01-Nov-15 12:00:00		0.00	0.00	0.00	5.48	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	01-Nov-15 11:00:00		10.35	18.92	83.84	88.49
01-Nov-15 12:00:00	01-Nov-15 13:00:00		0.00	0.00	0.00	5.43	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	01-Nov-15 12:00:00		10.35	18.92	83.84	88.47
01-Nov-15 13:00:00	01-Nov-15 14:00:00		0.00	0.00	0.00	5.37	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	01-Nov-15 13:00:00		10.35	18.92	83.84	88.45
01-Nov-15 14:00:00	01-Nov-15 15:00:00		0.00	0.00	0.00	5.33	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	01-Nov-15 14:00:00		10.35	18.92	83.84	88.44
01-Nov-15 15:00:00	01-Nov-15 16:00:00		0.00	0.00	0.00	5.61	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	01-Nov-15 15:00:00		10.35	18.92	83.84	88.53
01-Nov-15 16:00:00	01-Nov-15 17:00:00		0.00	0.00	0.00	5.62	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	01-Nov-15 16:00:00		10.35	18.92	83.84	88.53
01-Nov-15 17:00:00	01-Nov-15 18:00:00		0.12	0.00	0.00	5.62	2.1	329.7		0.04	0.00	0.00	1.85		10.35	18.92	83.84	86.68	01-Nov-15 17:00:00		10.39	18.92	83.84	88.53
01-Nov-15 18:00:00	01-Nov-15 19:00:00		0.00	0.00	0.00	5.63	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	01-Nov-15 18:00:00		10.35	18.92	83.84	88.54
01-Nov-15 19:00:00	01-Nov-15 20:00:00		0.00	0.00	0.00	5.58	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	01-Nov-15 19:00:00		10.35	18.92	83.84	88.52
01-Nov-15 20:00:00	01-Nov-15 21:00:00		0.00	0.00	0.00	5.64	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	01-Nov-15 20:00:00		10.35	18.92	83.84	88.54
01-Nov-15 21:00:00	01-Nov-15 22:00:00		0.00	0.00	0.00	5.69	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	01-Nov-15 21:00:00		10.35	18.92	83.84	88.56
01-Nov-15 22:00:00	01-Nov-15 23:00:00		0.00	0.00	0.00	5.75	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	01-Nov-15 22:00:00		10.35	18.92	83.84	88.58
01-Nov-15 23:00:00	02-Nov-15 00:00:00		0.00	0.00	0.00	5.80	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	01-Nov-15 23:00:00		10.35	18.92	83.84	88.59
02-Nov-15 00:00:00	02-Nov-15 01:00:00		0.00	0.00	0.00	5.81	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	02-Nov-15 00:00:00		10.35	18.92	83.84	88.59
02-Nov-15 01:00:00	02-Nov-15 02:00:00		0.00	0.00	0.00	5.81	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	02-Nov-15 01:00:00		10.35	18.92	83.84	88.60
02-Nov-15 02:00:00	02-Nov-15 03:00:00		0.00	0.00	0.00	5.

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
03-Nov-15 23:00:00	04-Nov-15 00:00:00		0.00	0.00	0.00	5.53	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	03-Nov-15 23:00:00		10.35	18.92	83.84	88.50
04-Nov-15 00:00:00	04-Nov-15 01:00:00		0.00	0.00	0.00	5.55	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	04-Nov-15 00:00:00		10.35	18.92	83.84	88.51
04-Nov-15 01:00:00	04-Nov-15 02:00:00		0.00	0.00	0.00	5.51	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	04-Nov-15 01:00:00		10.35	18.92	83.84	88.50
04-Nov-15 02:00:00	04-Nov-15 03:00:00		0.00	0.00	0.00	5.47	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	04-Nov-15 02:00:00		10.35	18.92	83.84	88.48
04-Nov-15 03:00:00	04-Nov-15 04:00:00		0.00	0.00	0.00	5.47	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	04-Nov-15 03:00:00		10.35	18.92	83.84	88.48
04-Nov-15 04:00:00	04-Nov-15 05:00:00		0.00	0.00	0.00	5.61	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	04-Nov-15 04:00:00		10.35	18.92	83.84	88.53
04-Nov-15 05:00:00	04-Nov-15 06:00:00		0.00	0.00	0.00	5.67	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	04-Nov-15 05:00:00		10.35	18.92	83.84	88.55
04-Nov-15 06:00:00	04-Nov-15 07:00:00		0.00	0.00	0.00	5.73	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	04-Nov-15 06:00:00		10.35	18.92	83.84	88.57
04-Nov-15 07:00:00	04-Nov-15 08:00:00		0.00	0.00	0.00	5.77	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	04-Nov-15 07:00:00		10.35	18.92	83.84	88.58
04-Nov-15 08:00:00	04-Nov-15 09:00:00		0.00	0.00	0.00	5.74	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	04-Nov-15 08:00:00		10.35	18.92	83.84	88.57
04-Nov-15 09:00:00	04-Nov-15 10:00:00		0.00	0.00	0.00	5.77	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	04-Nov-15 09:00:00		10.35	18.92	83.84	88.58
04-Nov-15 10:00:00	04-Nov-15 11:00:00		0.00	0.00	0.00	5.80	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	04-Nov-15 10:00:00		10.35	18.92	83.84	88.59
04-Nov-15 11:00:00	04-Nov-15 12:00:00		0.00	0.00	0.00	5.84	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	04-Nov-15 11:00:00		10.35	18.92	83.84	88.61
04-Nov-15 12:00:00	04-Nov-15 13:00:00		0.00	0.00	0.00	5.86	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	04-Nov-15 12:00:00		10.35	18.92	83.84	88.61
04-Nov-15 13:00:00	04-Nov-15 14:00:00		0.00	0.00	0.00	5.79	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	04-Nov-15 13:00:00		10.35	18.92	83.84	88.59
04-Nov-15 14:00:00	04-Nov-15 15:00:00		0.00	0.00	0.00	5.71	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	04-Nov-15 14:00:00		10.35	18.92	83.84	88.56
04-Nov-15 15:00:00	04-Nov-15 16:00:00		0.00	0.00	0.00	5.65	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	04-Nov-15 15:00:00		10.35	18.92	83.84	88.54
04-Nov-15 16:00:00	04-Nov-15 17:00:00		0.00	0.00	0.00	5.70	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	04-Nov-15 16:00:00		10.35	18.92	83.84	88.56
04-Nov-15 17:00:00	04-Nov-15 18:00:00		0.00	0.00	0.00	5.75	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	04-Nov-15 17:00:00		10.35	18.92	83.84	88.58
04-Nov-15 18:00:00	04-Nov-15 19:00:00		0.00	0.00	0.00	5.80	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	04-Nov-15 18:00:00		10.35	18.92	83.84	88.59
04-Nov-15 19:00:00	04-Nov-15 20:00:00		0.00	0.00	0.00	5.80	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	04-Nov-15 19:00:00		10.35	18.92	83.84	88.59
04-Nov-15 20:00:00	04-Nov-15 21:00:00		0.00	0.00	0.00	5.66	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	04-Nov-15 20:00:00		10.35	18.92	83.84	88.55
04-Nov-15 21:00:00	04-Nov-15 22:00:00		0.00	0.00	0.00	5.70	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	04-Nov-15 21:00:00		10.35	18.92	83.84	88.56
04-Nov-15 22:00:00	04-Nov-15 23:00:00		0.00	0.00	0.00	5.74	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	04-Nov-15 22:00:00		10.35	18.92	83.84	88.57
04-Nov-15 23:00:00	05-Nov-15 00:00:00		0.00	0.00	0.00	5.77	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	04-Nov-15 23:00:00		10.35	18.92	83.84	88.58
05-Nov-15 00:00:00	05-Nov-15 01:00:00		0.00	0.00	0.00	5.76	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	05-Nov-15 00:00:00		10.35	18.92	83.84	88.58
05-Nov-15 01:00:00	05-Nov-15 02:00:00		0.00	0.00	0.00	5.72	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	05-Nov-15 01:00:00		10.35	18.92	83.84	88.56
05-Nov-15 02:00:00	05-Nov-15 03:00:00		0.00	0.00	0.00	5.67	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	05-Nov-15 02:00:00		10.35	18.92	83.84	88.55
05-Nov-15 03:00:00	05-Nov-15 04:00:00		0.00	0.00	0.00	5.65	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	05-Nov-15 03:00:00		10.35	18.92	83.84	88.54
05-Nov-15 04:00:00	05-Nov-15 05:00:00		0.00	0.00	0.00	5.79	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	05-Nov-15 04:00:00		10.35	18.92	83.84	88.59
05-Nov-15 05:00:00	05-Nov-15 06:00:00		0.00	0.00	0.00	5.96	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	05-Nov-15 05:00:00		10.35	18.92	83.84	88.65
05-Nov-15 06:00:00	05-Nov-15 07:00:00		0.00	0.00	0.00	6.13	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	05-Nov-15 06:00:00		10.35	18.92	83.84	88.70
05-Nov-15 07:00:00	05-Nov-15 08:00:00		0.00	0.00	0.00	6.27	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	05-Nov-15 07:00:00		10.35	18.92	83.84	88.75
05-Nov-15 08:00:00	05-Nov-15 09:00:00		0.00	0.00	0.00	6.06	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	05-Nov-15 08:00:00		10.35	18.92	83.84	88.68
05-Nov-15 09:00:00	05-Nov-15 10:00:00		0.02	0.00	0.00	5.81	2.1	329.7		0.01	0.00	0.00	1.91		10.35	18.92	83.84	86.68	05-Nov-15 09:00:00		10.36	18.92	83.84	88.59
05-Nov-15 10:00:00	05-Nov-15 11:00:00		0.83	0.00	0.00	5.56	2.1	329.7		0.27	0.00	0.00	1.83		10.35	18.92	83.84	86.68	05-Nov-15 10:00:00		10.62	18.92	83.84	88.51
05-Nov-15 11:00:00	05-Nov-15 12:00:00		3.50	0.00	0.00	5.33	2.1	329.7		1.15	0.00	0.00	1.76		10.35	18.92	83.84	86.68	05-Nov-15 11:00:00		11.50	18.92	83.84	88.44
05-Nov-15 12:00:00	05-Nov-15 13:00:00		24.60	0.00	0.00	5.25	2.1	329.7		8.11	0.00	0.00	1.73		10.35	18.92	83.84	86.68	05-Nov-15 12:00:00		18.46	18.92	83.84	88.41
05-Nov-15 13:00:00	05-Nov-15 14:00:00		6.49	0.00	0.00	5.21	2.1	329.7		2.14	0.00	0.00	1.72		10.35	18.92	83.84	86.68	05-Nov-15 13:00:00		12.49	18.92	83.84	88.40
05-Nov-15 14:00:00	05-Nov-15 15:00:00		6.36	0.00	0.00	5.18	2.1	329.7		2.10	0.00	0.00	1.71		10.35	18.92	83.84	86.68	05-Nov-15 14:00:00		12.45	18.92	83.84	88.39
05-Nov-15 15:00:00	05-Nov-15 16:00:00		2.68	0.00	0.00	5.17	2.1	329.7		0.88	0.00	0.00	1.70		10.35	18.92	83.84	86.68	05-Nov-15 15:00:00		11.23	18.92	83.84	88.38
05-Nov-15 16:00:00	05-Nov-15 17:00:00		36.35	0.00	0.00	5.29	2.1	329.7		11.99	0.00	0.00	1.74		10.35	18.92	83.84	86.68	05-Nov-15 16:00:00		22.34	18.92	83.84	88.42
05-Nov-15 17:00:00	05-Nov-15 18:00:00		58.09	0.00	0.00	5.25	2.1	329.7		19.15	0.00	0.00	1.73		10.35	18.92	83.84	86.68	05-Nov-15 17:00:00		29.50	18.92	83.84	88.41
05-Nov-15 18:00:00	05-Nov-15 19:00:00		53.17	0.00	0.00	5.22	2.1	329.7		17.53	0.00	0.00	1.72		10.35	18.92	83.84	86.68	05-Nov-15 18:00:00		27.88	18.92	83.84	88.40
05-Nov-15 19:00:00	05-Nov-15 20:00:00		52.62	0.00	0.00	5.18	2.1	329.7		17.35	0.00	0.00	1.71		10.35	18.92	83.84	86.68	05-Nov-15 19:00:00		27.70	18.92	83.84	88.39
05-Nov-15 20:00:00	05-Nov-15 21:00:00		51.95	0.00	0.00	5.18	2.1	329.7		17.13	0.00	0.00	1.71		10.35	18.92	83.84	86.68	05-Nov-15 20:00:00		27.48	18.92	83.84	88.39
05-Nov-15 21:00:00	05-Nov-15 22:00:00		45.80	0.00	0.00	5.19	2.1	329.7		15.10	0.00	0.00	1.71		10.35	18.92	83.84	86.68	05-Nov-15 21:00:00		25.45	18.92	83.84	88.39
05-Nov-15 22:00:00	05-Nov-15 23:00:00		43.49	0.00	0.00	5.20	2.1	329.7		14.34	0.00	0.00	1.71		10.35	18.92	83.84	86.68	05-Nov-15 22:00:00		24.69	18.92	83.84	88.39
05-Nov-15 23:00:00	06-Nov-15 00:00:00		40.65	0.00	0.00	5.22	2.1	329.7		13.40	0.00	0.00	1.72		10.35	18.92	83.84	86.68	05-Nov-15 23:00:00		23.75	18.92	83.84	88.40
06-Nov-15 00:00:00	06-Nov-15 01:00:00		33.24	0.00	0.00	5.25	2.1	329.7		10.96	0.00	0.00	1.73		10.35	18.92	83.84	86.68	06-Nov-15 00:00:00		21.31	18.92	83.84	88.41
06-Nov-15 01:00:00	06-Nov-15 02:00:00		30.30	0.00	0.00	5.24	2.1	329.7		9.99	0.00	0.00	1.73		10.35	18.92	83.84	86.68	06-Nov-15 01:00:00		20.34	18.92	83.84	88.41
06-Nov-15 02:00:00	06-Nov-15 03:00:00		5.18	0.00	0.13	5.23	2.1	329.7		1.71	0.00	0.04	1.73		10.35	18.92	83.84	86.68	06-Nov-15 02:00:00		12.06	18.92	83.88	88.41
06-Nov-15 03:00:00	06-Nov-15 04:00:00		0.57	0.00	0.00	5.25	2.1	329.7		0.19	0.00	0.00	1.73		10.35	18.92	83.84	86.68	06-Nov-15 03:00:00		10.54	18.92	83.84	88.41
06-Nov-15 04:00:00	06-Nov-15 05:00:00		5.55	0.00	0.00	5.41	2.1	329.7		1.83	0.00	0.00	1.78		10.35	18.92	83.84	86.68	06-Nov-15 04:00:00		12.18	18.92	83.84	88.46
06-Nov-15 05:00:00	06-Nov-15 06:00:00		35.03	0.00	0.00	5.43	2.1	329.7		11.55	0.00	0.00	1.79		10.35	18.92	83.84	86.68	06-Nov-15 05:00:00		21.90	18.92	83.84	88.47
06-Nov-15 06:00:00	06-Nov-15 07:00:00		35.86	0.00	0.00	5.44	2.1	329.7		11.82	0.00	0.00	1.79		10.35	18.92	83.84	86.68	06-Nov-15 06:00:00		22.17	18.92	83.84	88.47
06-Nov-15 07:00:00	06-Nov-15 08:00:00		39.62	0.00	0.00	5.46	2.1	329.7		13.06	0.00	0.00	1.80		10.35	18.92	83.84	86.68	06-Nov-15 07:00:00		23.41	18.92	83.84	88.48
06-Nov-15 08:00:00	06-Nov-15 09:00:00		46.19	0.00	0.00	5.47	2.1	329.7		15.23	0.00	0.00	1.80		10.35	18.92	83.84	86.68	06-Nov-15 08:00:00		25.58	18.92	83.84	88.48
06-Nov-15 09:00:00	06-Nov-15 10:00:00		47.21	0.00	0.00	5.40	2.1	329.7		15.56	0.00	0.00	1.78		10.35	18.92	83.84	86.68	06-Nov-15 09:00:00		25.91	18.92	83.84	88.46
06-Nov-15 10:00:00	06-Nov-15 11:00:00		46.39	0.00	0.00	5.34	2.1	329.7		15.29	0.00	0.00	1.76		10.35	18.92	83.84	86.68	06-Nov-15 10:00:00		25.64	18.92	83.84	88.44
06-Nov-15 11:00:00	06-Nov-15 12:00:00		45.75	0.00	0.00	5.29	2.1	329.7		15.09	0.00	0.00	1.74		10.35	18.92	83.84	86.68	06-Nov-15 11:00:00		25.44	18.92	83.84	88.42
06-Nov-15 12:00:00	06-Nov-15 13:00:00		45.12	0.00	0.00	5.24	2.1	329.7		14.88	0.00	0.00	1.73		10.35	18.92	83.84	86.68	06-Nov-15 12:00:00		25.23	18.92	83.84	88.41
06-Nov-15 13:00:00	06-Nov-15 14:00:00		45.05	0.00	0.00	5.10	2.1	329.7		14.85	0.00	0.00	1.68		10.35	18.92	83.84	86.68	06-Nov-15 13:00:00		25.20	18.92	83.84	88.36
06-Nov-15 14:00:00	06-Nov-15 15:00:00		43.71	0.00	0.00	4.96	2.1	329.7		14.41	0.00	0.00	1.63		10.35	18.92	83.84	86.68	06-Nov-15 14:00:00		24.76	18.92	83.84	88.31
06-Nov-15 15:00:00	06-Nov-15 16:00:00		34.79	0.00	0.00	4.80	2.1	329.7		11.47	0.00	0.00	1.58		10.35	18.92	83.84	86.68	06-Nov-15 15:00:00		21.82	18.92	83.84	88.26
06-Nov-15 16:00:00	06-Nov-15 17:00:00		22.81	0.00	0.00	4.68	2.1	329.7		7.52	0.00	0.00	1.54		10.35	18.92	83.84	86.68	06-Nov-15 16:00:00		17.87	18.92	83.84	88.22
06-Nov-15 17:00:00	06-Nov-15 18:00:00		23.72	0.00	0.00	4.69	2.1	329.7		7.82	0.00	0.00	1.55		10.35	18.92	83.84	86.68	06-Nov-15 17:00:00		18.17	18.92	83.84	88.23
06-Nov-15 18:00:00	06-Nov-15 19:00:00		27.92	0.00	0.00	4.71	2.1	329.7		9.21	0.00	0.00	1.55		10.35	18.92	83.84	86.68	06-Nov-15 18:00:00		19.56	18.92	83.84	88.23
06-Nov-15 19:00:00	06-Nov-15 20:00:00		32.44	0.00	0.00	4.73	2.1	329.7		10.69	0.00	0.00	1.56		10.35	18.92	83.84	86.68	06-Nov-15 19:00:00		21.04	18.92	83.84	88.24
06-Nov-15 20:00:00	06-Nov-15 21:00:00		38.59	0.00	0.00	4.76	2.1	329.7		12.72	0.00	0.00	1.57		10.35	18.92	83.84	86.68	06-Nov-15 20:00:00		23.07	18.92	83.84	88.25
06-Nov-15 21:00:00	06-Nov-15 22:00:00		39.24	0.00	0.00	4.80	2.1	329.7		12.94	0.00	0.00	1.58		10.35	18.92	83.84	86.68	06-Nov-15 21:00:00		23.29	18.92	83.84	88.26
06-Nov-15 22:00:00	06-Nov-15 23:00:00		39.55	0.00	0.00	4.85	2.1	329.7		13.04	0.00	0.00	1.60		10.35	18.92	83.84	86.68	06-Nov-15 22:00:00		23.39	18.92	83.84	88.28
06-Nov-15 23:00:00	07-Nov-15 00:00:00		38.53	0.00	0.00	4.89	2.1	329.7		12.70	0.00	0.00	1.61		10.35	18.92	83.84	86.68	06-Nov-15 23:00:00		23.05	18.92	83.84	88.29
07-Nov-15 00:00:00	07-Nov-15 01:00:00		39.32	0.00	0.00	4.95	2.1	329.7		12.96	0.00	0.00	1.63		10.35	18.92	83.84	86.68	07-Nov-15 00:00:00		23.31	18.92	83.84	88.31
07-Nov-15 01:00:00	07-Nov-15 02:00:00		39.36	0.00	0.00	5.02	2.1	329.7		12.98	0.00	0.00	1.65		10.35	18.92	83.84	86.68	07-Nov-15 01:00:00		23.33	18.92	83.84	88.33
07-Nov-15 02:00:00	07-Nov-15 03:00:00		38.86	0.00	0.00	5.08	2.1	329.7		12.81	0.00	0.00	1.67		10.35	18.92	83.84	86.68	07-Nov-15 02:00:00		23.16	18.92	83.84	88.35
07-Nov-15 03:00:00	07-Nov-15 04:00:00		39.68	0.00	0.00	5.13	2.1	329.7		13.08	0.00	0.00	1.69		10.35	18.92	83.84	86.68	07-Nov-15 03:00:00		23.43	18.92	83.84	88.37
07-Nov-15 04:00:00	07-Nov-15 05:00:00		39.82	0.00	0.00	5.07	2.1	329.7		13.13	0.00	0.00	1.67		10.35	18.92	83.84	86.68	07-Nov-15 04:00:00		23.48	18.92	83.84	88.35
07-Nov-15 05:00:00	07-Nov-15 06:00:00		39.96	0.00	0.00	5.14	2.1	329.7		13.17	0.00	0.00	1.70		10.35	18.92	83.84	86.68	07-Nov-15 05:00:00		23.52	18.92	83.84	88.38
07-Nov-15 06:00:00	07-Nov-15 07:00:00		40.43	0.00	0.00	5.22	2.1	329.7		13.33	0.00	0.00	1.72		10.35	18.92	83.84	86.68	07-Nov-15 06:00:00		23.68	18.92	83.84	88.40
07-Nov-15 07:00:00	07-Nov-15 08:00:00		37.31	0.00	0.00	5.29	2.1	329.7		12.30	0.00	0.00	1.74		10.35	18.92	83.84	86.68	07-Nov-15 07:00:00		22.65	18.92	83.84	88.42
07-Nov-15 08:00:00	07-Nov-15 09:00:00		15.07	0.00	0.00	5.23	2.1	329.7		4.97	0.00	0.00	1.73		10.35	18.92	83.84	86.68	07-Nov-15 08:00:00		15.32	18.92	83.84	88.41
07-Nov-15 09:00:00	07-Nov-15 10:00:00		10.67	0.00	0.00	5.29	2.1	329.7		3.52	0.00	0.00	1.74		10.35	18.92	83.84	86.68	07-Nov-15 09:00:00		13.87	18.92	83.84	88.42
07-Nov-15 10:00:00	07-Nov-15 11:00:00		10.50	0.00	0.00	5.35	2.1	329.7		3.46	0.00	0.00	1.76		10.35	18.92	83.84	86.68	07-Nov-15 10:00:00		13.81	18.92	83.84	88.44
07-Nov-15 11:00:00	07-Nov-15 12:00:00		10.58	0.00	0.00	5.41	2.1	329.7		3.49	0.00	0.00	1.78		10.35	18.92	83.84	86.68	07-Nov-15 11:00:00		13.84	18.92	83.84	88.46
07-Nov-15 12:00:00	07-Nov-15 13:00:00		10.65	0.00	0.00	5.53	2.1	329.7		3.51	0.00	0.00	1.82		10.35	18.92	83.84	86.68	07-Nov-15 12:00:00		13.86	18.92	83.84	88.50
07-Nov-15 13:00:00	07-Nov-15 14:00:00		10.19	0.00	0.00	5.46	2.1	329.7		3.36	0.00	0.00	1.80		10.35	18.92	83.84	86.68	07-Nov-15 13:00:00		13.71	18.92	83.84	88.48
07-Nov-15 14:00:00	07-Nov-15 15:00:00		10.30	0.00	0.00	5.36	2.1	329.7		3.40	0.00	0.00	1.77		10.35	18.92	83.84	86.68	07-Nov-15 14:00:00		13.75	18.92	83.84	88.45
07-Nov-15 15:00:00	07-Nov-15 16:00:00		12.48	0.00	0.00	5.26	2.1	329.7		4.11	0.00	0.00	1.73		10.35	18.92	83.84	86.68	07-Nov-15 15:00:00		14.46	18.92	83.84	88.41
07-Nov-15 16:00:00	07-Nov-15 17:00:00		37.72	0.00	0.00	5.20	2.1	329.7		12.44	0.00	0.00	1.71		10.35	18.92	83.84	86.68	07-Nov-15 16:00:00		22.79	18.92	83.84	88.39
07-Nov-15 17:00:00	07-Nov-15 18:00:00		30.86	0.00	0.00	5.19	2.1	329.7		10.18	0.00	0.00	1.71		10.35	18.92	83.84	86.68	07-Nov-15 17:00:00		20.53	18.92	83.84	88.39
07-Nov-15 18:00:00	07-Nov-15 19:00:00		30.37	0.00	0.00	5.17	2.1	329.7		10.01	0.00	0.00	1.71		10.35	18.92	83.84	86.68	07-Nov-15 18:00:00		20.36	18.92	83.84	88.39
07-Nov-15 19:00:00	07-Nov-15 20:00:00		30.38	0.00	0.00	5.16	2.1	329.7		10.01	0.00	0.00	1.70		10.35	18.92	83.84	86.68	07-Nov-15 19:00:00		20.36	18.92	83.84	88.38
07-Nov-15 20:00:00	07-Nov-15 21:00:00		27.05	0.00	0.00	5.22

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
09-Nov-15 18:00:00	09-Nov-15 19:00:00		0.00	0.00	0.00	6.68	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	09-Nov-15 18:00:00		10.35	18.92	83.84	88.88
09-Nov-15 19:00:00	09-Nov-15 20:00:00		0.00	0.00	0.00	6.72	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	09-Nov-15 19:00:00		10.35	18.92	83.84	88.90
09-Nov-15 20:00:00	09-Nov-15 21:00:00		0.00	0.00	0.00	6.79	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	09-Nov-15 20:00:00		10.35	18.92	83.84	88.92
09-Nov-15 21:00:00	09-Nov-15 22:00:00		0.00	0.00	0.00	6.85	2.1	329.7		0.00	0.00	0.00	2.26		10.35	18.92	83.84	86.68	09-Nov-15 21:00:00		10.35	18.92	83.84	88.94
09-Nov-15 22:00:00	09-Nov-15 23:00:00		0.00	0.00	0.00	6.80	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	09-Nov-15 22:00:00		10.35	18.92	83.84	88.92
09-Nov-15 23:00:00	10-Nov-15 00:00:00		0.00	0.00	0.00	6.69	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	09-Nov-15 23:00:00		10.35	18.92	83.84	88.89
10-Nov-15 00:00:00	10-Nov-15 01:00:00		0.00	0.00	0.00	6.59	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	10-Nov-15 00:00:00		10.35	18.92	83.84	88.85
10-Nov-15 01:00:00	10-Nov-15 02:00:00		0.00	0.00	0.00	6.49	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	10-Nov-15 01:00:00		10.35	18.92	83.84	88.82
10-Nov-15 02:00:00	10-Nov-15 03:00:00		0.00	0.00	0.00	6.42	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	10-Nov-15 02:00:00		10.35	18.92	83.84	88.80
10-Nov-15 03:00:00	10-Nov-15 04:00:00		0.00	0.00	0.00	6.27	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	10-Nov-15 03:00:00		10.35	18.92	83.84	88.75
10-Nov-15 04:00:00	10-Nov-15 05:00:00		0.00	0.00	0.00	6.10	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	10-Nov-15 04:00:00		10.35	18.92	83.84	88.69
10-Nov-15 05:00:00	10-Nov-15 06:00:00		0.00	0.00	0.00	5.93	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	10-Nov-15 05:00:00		10.35	18.92	83.84	88.64
10-Nov-15 06:00:00	10-Nov-15 07:00:00		0.00	0.00	0.00	5.84	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	10-Nov-15 06:00:00		10.35	18.92	83.84	88.61
10-Nov-15 07:00:00	10-Nov-15 08:00:00		0.00	0.00	0.00	5.83	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	10-Nov-15 07:00:00		10.35	18.92	83.84	88.60
10-Nov-15 08:00:00	10-Nov-15 09:00:00		0.00	0.00	0.00	5.81	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	10-Nov-15 08:00:00		10.35	18.92	83.84	88.60
10-Nov-15 09:00:00	10-Nov-15 10:00:00		0.96	0.00	0.00	5.79	2.1	329.7		0.32	0.00	0.00	1.91		10.35	18.92	83.84	86.68	10-Nov-15 09:00:00		10.67	18.92	83.84	88.59
10-Nov-15 10:00:00	10-Nov-15 11:00:00		1.60	0.00	0.00	5.66	2.1	329.7		0.53	0.00	0.00	1.87		10.35	18.92	83.84	86.68	10-Nov-15 10:00:00		10.88	18.92	83.84	88.55
10-Nov-15 11:00:00	10-Nov-15 12:00:00		2.17	0.00	0.00	5.53	2.1	329.7		0.72	0.00	0.00	1.82		10.35	18.92	83.84	86.68	10-Nov-15 11:00:00		11.07	18.92	83.84	88.50
10-Nov-15 12:00:00	10-Nov-15 13:00:00		0.16	0.00	0.00	5.41	2.1	329.7		0.05	0.00	0.00	1.78		10.35	18.92	83.84	86.68	10-Nov-15 12:00:00		10.40	18.92	83.84	88.46
10-Nov-15 13:00:00	10-Nov-15 14:00:00		0.35	0.00	0.00	5.29	2.1	329.7		0.11	0.00	0.00	1.74		10.35	18.92	83.84	86.68	10-Nov-15 13:00:00		10.46	18.92	83.84	88.42
10-Nov-15 14:00:00	10-Nov-15 15:00:00		4.22	0.00	0.00	5.18	2.1	329.7		1.39	0.00	0.00	1.71		10.35	18.92	83.84	86.68	10-Nov-15 14:00:00		11.74	18.92	83.84	88.39
10-Nov-15 15:00:00	10-Nov-15 16:00:00		26.73	0.00	0.00	5.11	2.1	329.7		8.81	0.00	0.00	1.69		10.35	18.92	83.84	86.68	10-Nov-15 15:00:00		19.16	18.92	83.84	88.37
10-Nov-15 16:00:00	10-Nov-15 17:00:00		6.07	0.00	0.00	5.05	2.1	329.7		2.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	10-Nov-15 16:00:00		12.35	18.92	83.84	88.35
10-Nov-15 17:00:00	10-Nov-15 18:00:00		7.96	0.00	0.00	5.00	2.1	329.7		2.63	0.00	0.00	1.65		10.35	18.92	83.84	86.68	10-Nov-15 17:00:00		12.98	18.92	83.84	88.33
10-Nov-15 18:00:00	10-Nov-15 19:00:00		7.50	0.00	0.00	5.03	2.1	329.7		2.47	0.00	0.00	1.66		10.35	18.92	83.84	86.68	10-Nov-15 18:00:00		12.82	18.92	83.84	88.34
10-Nov-15 19:00:00	10-Nov-15 20:00:00		4.50	0.00	0.00	5.24	2.1	329.7		1.48	0.00	0.00	1.73		10.35	18.92	83.84	86.68	10-Nov-15 19:00:00		11.83	18.92	83.84	88.41
10-Nov-15 20:00:00	10-Nov-15 21:00:00		0.00	0.00	0.00	5.44	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	10-Nov-15 20:00:00		10.35	18.92	83.84	88.47
10-Nov-15 21:00:00	10-Nov-15 22:00:00		0.00	0.00	0.00	5.64	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	10-Nov-15 21:00:00		10.35	18.92	83.84	88.54
10-Nov-15 22:00:00	10-Nov-15 23:00:00		1.17	0.00	0.00	5.82	2.1	329.7		0.39	0.00	0.00	1.92		10.35	18.92	83.84	86.68	10-Nov-15 22:00:00		10.74	18.92	83.84	88.60
10-Nov-15 23:00:00	11-Nov-15 00:00:00		0.62	0.00	0.00	5.97	2.1	329.7		0.20	0.00	0.00	1.97		10.35	18.92	83.84	86.68	10-Nov-15 23:00:00		10.55	18.92	83.84	88.65
11-Nov-15 00:00:00	11-Nov-15 01:00:00		1.52	0.00	0.00	6.12	2.1	329.7		0.50	0.00	0.00	2.02		10.35	18.92	83.84	86.68	11-Nov-15 00:00:00		10.85	18.92	83.84	88.70
11-Nov-15 01:00:00	11-Nov-15 02:00:00		3.39	0.00	0.00	6.27	2.1	329.7		1.12	0.00	0.00	2.07		10.35	18.92	83.84	86.68	11-Nov-15 01:00:00		11.47	18.92	83.84	88.75
11-Nov-15 02:00:00	11-Nov-15 03:00:00		17.19	0.00	0.00	6.32	2.1	329.7		5.67	0.00	0.00	2.08		10.35	18.92	83.84	86.68	11-Nov-15 02:00:00		16.02	18.92	83.84	88.76
11-Nov-15 03:00:00	11-Nov-15 04:00:00		6.75	0.00	0.00	6.43	2.1	329.7		2.23	0.00	0.00	2.12		10.35	18.92	83.84	86.68	11-Nov-15 03:00:00		12.58	18.92	83.84	88.80
11-Nov-15 04:00:00	11-Nov-15 05:00:00		3.73	0.00	0.00	6.59	2.1	329.7		1.23	0.00	0.00	2.17		10.35	18.92	83.84	86.68	11-Nov-15 04:00:00		11.58	18.92	83.84	88.85
11-Nov-15 05:00:00	11-Nov-15 06:00:00		9.18	0.00	0.00	6.74	2.1	329.7		3.03	0.00	0.00	2.22		10.35	18.92	83.84	86.68	11-Nov-15 05:00:00		13.38	18.92	83.84	88.90
11-Nov-15 06:00:00	11-Nov-15 07:00:00		8.15	0.00	0.00	6.83	2.1	329.7		2.69	0.00	0.00	2.25		10.35	18.92	83.84	86.68	11-Nov-15 06:00:00		13.04	18.92	83.84	88.93
11-Nov-15 07:00:00	11-Nov-15 08:00:00		6.97	0.00	0.00	6.65	2.1	329.7		2.30	0.00	0.00	2.19		10.35	18.92	83.84	86.68	11-Nov-15 07:00:00		12.65	18.92	83.84	88.87
11-Nov-15 08:00:00	11-Nov-15 09:00:00		0.10	0.00	0.00	6.43	2.1	329.7		0.03	0.00	0.00	2.12		10.35	18.92	83.84	86.68	11-Nov-15 08:00:00		10.38	18.92	83.84	88.80
11-Nov-15 09:00:00	11-Nov-15 10:00:00		0.30	0.00	0.00	6.22	2.1	329.7		0.10	0.00	0.00	2.05		10.35	18.92	83.84	86.68	11-Nov-15 09:00:00		10.45	18.92	83.84	88.73
11-Nov-15 10:00:00	11-Nov-15 11:00:00		1.60	0.00	0.00	5.93	2.1	329.7		0.53	0.00	0.00	1.96		10.35	18.92	83.84	86.68	11-Nov-15 10:00:00		10.88	18.92	83.84	88.64
11-Nov-15 11:00:00	11-Nov-15 12:00:00		3.63	0.00	0.00	5.65	2.1	329.7		1.20	0.00	0.00	1.86		10.35	18.92	83.84	86.68	11-Nov-15 11:00:00		11.55	18.92	83.84	88.54
11-Nov-15 12:00:00	11-Nov-15 13:00:00		2.59	0.00	0.00	5.39	2.1	329.7		0.85	0.00	0.00	1.78		10.35	18.92	83.84	86.68	11-Nov-15 12:00:00		11.20	18.92	83.84	88.46
11-Nov-15 13:00:00	11-Nov-15 14:00:00		1.68	0.00	0.00	5.13	2.1	329.7		0.55	0.00	0.00	1.69		10.35	18.92	83.84	86.68	11-Nov-15 13:00:00		10.90	18.92	83.84	88.37
11-Nov-15 14:00:00	11-Nov-15 15:00:00		2.49	0.00	0.00	4.99	2.1	329.7		0.82	0.00	0.00	1.65		10.35	18.92	83.84	86.68	11-Nov-15 14:00:00		11.17	18.92	83.84	88.33
11-Nov-15 15:00:00	11-Nov-15 16:00:00		3.54	0.00	0.00	5.06	2.1	329.7		1.17	0.00	0.00	1.67		10.35	18.92	83.84	86.68	11-Nov-15 15:00:00		11.52	18.92	83.84	88.35
11-Nov-15 16:00:00	11-Nov-15 17:00:00		2.33	0.00	0.00	5.13	2.1	329.7		0.77	0.00	0.00	1.69		10.35	18.92	83.84	86.68	11-Nov-15 16:00:00		11.12	18.92	83.84	88.37
11-Nov-15 17:00:00	11-Nov-15 18:00:00		0.00	0.00	0.00	5.20	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	11-Nov-15 17:00:00		10.35	18.92	83.84	88.40
11-Nov-15 18:00:00	11-Nov-15 19:00:00		0.00	0.00	0.00	5.17	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	11-Nov-15 18:00:00		10.35	18.92	83.84	88.39
11-Nov-15 19:00:00	11-Nov-15 20:00:00		0.00	0.00	0.00	5.42	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	11-Nov-15 19:00:00		10.35	18.92	83.84	88.47
11-Nov-15 20:00:00	11-Nov-15 21:00:00		0.85	0.00	0.00	5.73	2.1	329.7		0.28	0.00	0.00	1.89		10.35	18.92	83.84	86.68	11-Nov-15 20:00:00		10.63	18.92	83.84	88.57
11-Nov-15 21:00:00	11-Nov-15 22:00:00		4.61	0.00	0.00	6.05	2.1	329.7		1.52	0.00	0.00	2.00		10.35	18.92	83.84	86.68	11-Nov-15 21:00:00		11.87	18.92	83.84	88.68
11-Nov-15 22:00:00	11-Nov-15 23:00:00		1.43	0.00	0.00	6.34	2.1	329.7		0.47	0.00	0.00	2.09		10.35	18.92	83.84	86.68	11-Nov-15 22:00:00		10.82	18.92	83.84	88.77
11-Nov-15 23:00:00	12-Nov-15 00:00:00		4.94	0.00	0.00	6.45	2.1	329.7		1.63	0.00	0.00	2.13		10.35	18.92	83.84	86.68	11-Nov-15 23:00:00		11.98	18.92	83.84	88.81
12-Nov-15 00:00:00	12-Nov-15 01:00:00		4.68	0.00	0.00	6.54	2.1	329.7		1.54	0.00	0.00	2.15		10.35	18.92	83.84	86.68	12-Nov-15 00:00:00		11.89	18.92	83.84	88.83
12-Nov-15 01:00:00	12-Nov-15 02:00:00		9.83	0.00	0.00	6.62	2.1	329.7		3.24	0.00	0.00	2.18		10.35	18.92	83.84	86.68	12-Nov-15 01:00:00		13.59	18.92	83.84	88.86
12-Nov-15 02:00:00	12-Nov-15 03:00:00		7.52	0.00	0.00	6.58	2.1	329.7		2.48	0.00	0.00	2.17		10.35	18.92	83.84	86.68	12-Nov-15 02:00:00		12.83	18.92	83.84	88.85
12-Nov-15 03:00:00	12-Nov-15 04:00:00		21.26	0.00	0.00	6.42	2.1	329.7		7.01	0.00	0.00	2.12		10.35	18.92	83.84	86.68	12-Nov-15 03:00:00		17.36	18.92	83.84	88.80
12-Nov-15 04:00:00	12-Nov-15 05:00:00		19.28	0.00	0.00	6.29	2.1	329.7		6.36	0.00	0.00	2.07		10.35	18.92	83.84	86.68	12-Nov-15 04:00:00		16.71	18.92	83.84	88.75
12-Nov-15 05:00:00	12-Nov-15 06:00:00		10.26	0.00	0.00	6.16	2.1	329.7		3.38	0.00	0.00	2.03		10.35	18.92	83.84	86.68	12-Nov-15 05:00:00		13.73	18.92	83.84	88.71
12-Nov-15 06:00:00	12-Nov-15 07:00:00		10.37	0.00	0.00	6.13	2.1	329.7		3.42	0.00	0.00	2.02		10.35	18.92	83.84	86.68	12-Nov-15 06:00:00		13.77	18.92	83.84	88.70
12-Nov-15 07:00:00	12-Nov-15 08:00:00		11.31	0.00	0.00	6.05	2.1	329.7		3.73	0.00	0.00	1.99		10.35	18.92	83.84	86.68	12-Nov-15 07:00:00		14.08	18.92	83.84	88.67
12-Nov-15 08:00:00	12-Nov-15 09:00:00		21.17	0.00	0.00	5.91	2.1	329.7		6.98	0.00	0.00	1.95		10.35	18.92	83.84	86.68	12-Nov-15 08:00:00		17.33	18.92	83.84	88.63
12-Nov-15 09:00:00	12-Nov-15 10:00:00		15.75	0.00	0.00	5.78	2.1	329.7		5.19	0.00	0.00	1.91		10.35	18.92	83.84	86.68	12-Nov-15 09:00:00		15.54	18.92	83.84	88.59
12-Nov-15 10:00:00	12-Nov-15 11:00:00		1.30	0.00	0.00	5.67	2.1	329.7		0.43	0.00	0.00	1.87		10.35	18.92	83.84	86.68	12-Nov-15 10:00:00		10.78	18.92	83.84	88.55
12-Nov-15 11:00:00	12-Nov-15 12:00:00		0.07	0.00	0.00	5.54	2.1	329.7		0.02	0.00	0.00	1.83		10.35	18.92	83.84	86.68	12-Nov-15 11:00:00		10.37	18.92	83.84	88.51
12-Nov-15 12:00:00	12-Nov-15 13:00:00		0.12	0.00	0.00	5.40	2.1	329.7		0.04	0.00	0.00	1.78		10.35	18.92	83.84	86.68	12-Nov-15 12:00:00		10.39	18.92	83.84	88.46
12-Nov-15 13:00:00	12-Nov-15 14:00:00		12.22	0.00	0.00	5.26	2.1	329.7		4.03	0.00	0.00	1.73		10.35	18.92	83.84	86.68	12-Nov-15 13:00:00		14.38	18.92	83.84	88.41
12-Nov-15 14:00:00	12-Nov-15 15:00:00		6.05	0.00	0.00	5.21	2.1	329.7		1.99	0.00	0.00	1.72		10.35	18.92	83.84	86.68	12-Nov-15 14:00:00		12.34	18.92	83.84	88.40
12-Nov-15 15:00:00	12-Nov-15 16:00:00		27.57	0.00	0.00	5.23	2.1	329.7		9.09	0.00	0.00	1.72		10.35	18.92	83.84	86.68	12-Nov-15 15:00:00		19.44	18.92	83.84	88.40
12-Nov-15 16:00:00	12-Nov-15 17:00:00		423.42	0.00	0.00	5.22	2.1	329.7		139.60	0.00	0.00	1.72		10.35	18.92	83.84	86.68	12-Nov-15 16:00:00		149.95	18.92	83.84	88.40
12-Nov-15 17:00:00	12-Nov-15 18:00:00		676.76	0.00	0.00	5.21	2.1	329.7		223.13	0.00	0.00	1.72		10.35	18.92	83.84	86.68	12-Nov-15 17:00:00		233.48	18.92	83.84	88.40
12-Nov-15 18:00:00	12-Nov-15 19:00:00		685.90	0.00	0.00	5.27	2.1	329.7		226.14	0.00	0.00	1.74		10.35	18.92	83.84	86.68	12-Nov-15 18:00:00		236.49	18.92	83.84	88.42
12-Nov-15 19:00:00	12-Nov-15 20:00:00		684.57	0.00	0.00	5.38	2.1	329.7		225.70	0.00	0.00	1.77		10.35	18.92	83.84	86.68	12-Nov-15 19:00:00		236.05	18.92	83.84	88.45
12-Nov-15 20:00:00	12-Nov-15 21:00:00		687.20	0.00	0.00	5.48	2.1	329.7		226.57	0.00	0.00	1.81		10.35	18.92	83.84	86.68	12-Nov-15 20:00:00		236.92	18.92	83.84	88.49
12-Nov-15 21:00:00	12-Nov-15 22:00:00		678.49	0.00	0.00	5.58	2.1	329.7		223.70	0.00	0.00	1.84		10.35	18.92	83.84	86.68	12-Nov-15 21:00:00		234.05	18.92	83.84	88.52
12-Nov-15 22:00:00	12-Nov-15 23:00:00		657.57	0.00	0.00	5.76	2.1	329.7		216.80	0.00	0.00	1.90		10.35	18.92	83.84	86.68	12-Nov-15 22:00:00		227.15	18.92	83.84	88.58
12-Nov-15 23:00:00	13-Nov-15 00:00:00		423.96	0.00	0.00	5.89	2.1	329.7		139.78	0.00	0.00	1.94		10.35	18.92	83.84	86.68	12-Nov-15 23:00:00		150.13	18.92	83.84	88.62
13-Nov-15 00:00:00	13-Nov-15 01:00:00		131.52	0.00	0.00	5.98	2.1	329.7		43.36	0.00	0.00	1.97		10.35	18.92	83.84	86.68	13-Nov-15 00:00:00		53.71	18.92	83.84	88.65
13-Nov-15 01:00:00	13-Nov-15 02:00:00		150.37	0.00	0.00	6.08	2.1	329.7		49.58	0.00	0.00	2.00		10.35	18.92	83.84	86.68	13-Nov-15 01:00:00		59.93	18.92	83.84	88.68
13-Nov-15 02:00:00	13-Nov-15 03:00:00		172.38	0.00	0.00	6.11	2.1	329.7		56.83	0.00	0.00	2.01		10.35	18.92	83.84	86.68	13-Nov-15 02:00:00		67.18	18.92	83.84	88.69
13-Nov-15 03:00:00	13-Nov-15 04:00:00		162.96	0.00	0.00	6.10	2.1	329.7		53.73	0.00	0.00	2.01		10.35	18.92	83.84	86.68	13-Nov-15 03:00:00		64.08	18.92	83.84	88.69
13-Nov-15 04:00:00	13-Nov-15 05:00:00		260.62	0.00	0.00	6.10	2.1	329.7		85.93	0.00	0.00	2.01		10.35	18.92	83.84	86.68	13-Nov-15 04:00:00		96.28	18.92	83.84	88.69
13-Nov-15 05:00:00	13-Nov-15 06:00:00		149.11	0.00	0.00	6.10	2.1	329.7		49.16	0.00	0.00	2.01		10.35	18.92	83.84	86.68	13-Nov-15 05:00:00		59.51	18.92	83.84	88.69
13-Nov-15 06:00:00	13-Nov-15 07:00:00		17.22	0.00	0.00	6.07	2.1	329.7		5.68	0.00	0.00	2.00		10.35	18.92	83.84	86.68	13-Nov-15 06:00:00		16.03	18.92	83.84	88.68
13-Nov-15 07:00:00	13-Nov-15 08:00:00		6.58	0.00	0.00	5.99	2.1	329.7		2.17	0.00	0.00	1.98		10.35	18.92	83.84	86.68	13-Nov-15 07:00:00		12.52	18.92	83.84	88.66
13-Nov-15 08:00:00	13-Nov-15 09:00:00		7.56	0.00	0.00	5.92	2.1	329.7		2.49	0.00	0.00	1.95		10.35	18.92	83.84	86.68	13-Nov-15 08:00:00		12.84	18.92	83.84	88.63
13-Nov-15 09:00:00	13-Nov-15 10:00:00		7.30	0.00	0.00	5.84	2.1	329.7		2.41	0.00	0.00	1.93		10.35	18.92	83.84	86.68	13-Nov-15 09:00:00		12.76	18.92	83.84	88.61
13-Nov-15 10:00:00	13-Nov-15 11:00:00		4.40	0.00	0.00	5.75	2.1	329.7		1.45	0.00	0.00	1.90		10.35	18.92	83.84	86.68	13-Nov-15 10:00:00		11.80	18.92	83.84	88.58
13-Nov-15 11:00:00	13-Nov-15 12:00:00		1.16	0.00	0.00	5.64	2.1	329.7		0.38	0.00	0.00	1.86		10.35	18.92	83.84	86.68	13-Nov-15 11:00:00		10.73	18.92	83.84	88.54
13-Nov-15 12:00:00	13-Nov-15 13:00:00		1.04	0.00	0.00	5.53	2.1	329.7		0.34	0.00	0.00	1.82		10.35	18.92	83.84	86.68	13-Nov-15 12:00:00		10.69	18.92	83.84	88.50
13-Nov-15 13:00:00	13-Nov-15 14:00:00		0.00	0.00	0.00	5.42	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	13-Nov-15 13:00:00		10.35	18.92	83.84	88.47
13-Nov-15 14:00:00	13-Nov-15 15:00:00		0.00	0.00	0.00	5.33	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	13-Nov-15 14:00:00		10.35	18.92	83.84	88.44
13-Nov-15 15:00:00	13-Nov-15 16:00:00		0.00	0.00	0.00	5.

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
15-Nov-15 13:00:00	15-Nov-15 14:00:00		5.07	0.00	0.00	6.32	2.1	329.7		1.67	0.00	0.00	2.08		10.35	18.92	83.84	86.68	15-Nov-15 13:00:00		**12.02**	**18.92**	**83.84**	**88.76**
15-Nov-15 14:00:00	15-Nov-15 15:00:00		26.72	0.00	0.00	6.00	2.1	329.7		8.81	0.00	0.00	1.98		10.35	18.92	83.84	86.68	15-Nov-15 14:00:00		**19.16**	**18.92**	**83.84**	**88.66**
15-Nov-15 15:00:00	15-Nov-15 16:00:00		6.37	0.00	0.00	5.87	2.1	329.7		2.10	0.00	0.00	1.94		10.35	18.92	83.84	86.68	15-Nov-15 15:00:00		**12.45**	**18.92**	**83.84**	**88.62**
15-Nov-15 16:00:00	15-Nov-15 17:00:00		2.66	0.00	0.00	5.86	2.1	329.7		0.88	0.00	0.00	1.93		10.35	18.92	83.84	86.68	15-Nov-15 16:00:00		**11.23**	**18.92**	**83.84**	**88.61**
15-Nov-15 17:00:00	15-Nov-15 18:00:00		2.63	0.00	0.00	5.86	2.1	329.7		0.87	0.00	0.00	1.93		10.35	18.92	83.84	86.68	15-Nov-15 17:00:00		**11.22**	**18.92**	**83.84**	**88.61**
15-Nov-15 18:00:00	15-Nov-15 19:00:00		2.55	0.00	0.00	5.85	2.1	329.7		0.84	0.00	0.00	1.93		10.35	18.92	83.84	86.68	15-Nov-15 18:00:00		**11.19**	**18.92**	**83.84**	**88.61**
15-Nov-15 19:00:00	15-Nov-15 20:00:00		8.52	0.00	0.00	6.02	2.1	329.7		2.81	0.00	0.00	1.98		10.35	18.92	83.84	86.68	15-Nov-15 19:00:00		**13.16**	**18.92**	**83.84**	**88.66**
15-Nov-15 20:00:00	15-Nov-15 21:00:00		9.34	0.00	0.00	6.23	2.1	329.7		3.08	0.00	0.00	2.05		10.35	18.92	83.84	86.68	15-Nov-15 20:00:00		**13.43**	**18.92**	**83.84**	**88.73**
15-Nov-15 21:00:00	15-Nov-15 22:00:00		18.09	0.00	0.00	6.44	2.1	329.7		5.97	0.00	0.00	2.12		10.35	18.92	83.84	86.68	15-Nov-15 21:00:00		**16.32**	**18.92**	**83.84**	**88.80**
15-Nov-15 22:00:00	15-Nov-15 23:00:00		9.00	0.00	0.00	6.67	2.1	329.7		2.97	0.00	0.00	2.20		10.35	18.92	83.84	86.68	15-Nov-15 22:00:00		**13.32**	**18.92**	**83.84**	**88.88**
15-Nov-15 23:00:00	16-Nov-15 00:00:00		13.34	0.00	0.00	6.80	2.1	329.7		4.40	0.00	0.00	2.24		10.35	18.92	83.84	86.68	15-Nov-15 23:00:00		**14.75**	**18.92**	**83.84**	**88.92**
16-Nov-15 00:00:00	16-Nov-15 01:00:00		13.92	0.00	0.00	6.87	2.1	329.7		4.59	0.00	0.00	2.27		10.35	18.92	83.84	86.68	16-Nov-15 00:00:00		**14.94**	**18.92**	**83.84**	**88.95**
16-Nov-15 01:00:00	16-Nov-15 02:00:00		24.66	0.00	0.00	6.94	2.1	329.7		8.13	0.00	0.00	2.29		10.35	18.92	83.84	86.68	16-Nov-15 01:00:00		**18.48**	**18.92**	**83.84**	**88.97**
16-Nov-15 02:00:00	16-Nov-15 03:00:00		15.71	0.00	0.00	7.01	2.1	329.7		5.18	0.00	0.00	2.31		10.35	18.92	83.84	86.68	16-Nov-15 02:00:00		**15.53**	**18.92**	**83.84**	**88.99**
16-Nov-15 03:00:00	16-Nov-15 04:00:00		24.22	0.00	0.00	7.12	2.1	329.7		7.98	0.00	0.00	2.35		10.35	18.92	83.84	86.68	16-Nov-15 03:00:00		**18.33**	**18.92**	**83.84**	**89.03**
16-Nov-15 04:00:00	16-Nov-15 05:00:00		12.56	0.00	0.00	7.27	2.1	329.7		4.14	0.00	0.00	2.40		10.35	18.92	83.84	86.68	16-Nov-15 04:00:00		**14.49**	**18.92**	**83.84**	**89.08**
16-Nov-15 05:00:00	16-Nov-15 06:00:00		14.77	0.00	0.00	7.42	2.1	329.7		4.87	0.00	0.00	2.44		10.35	18.92	83.84	86.68	16-Nov-15 05:00:00		**15.22**	**18.92**	**83.84**	**89.12**
16-Nov-15 06:00:00	16-Nov-15 07:00:00		42.15	0.00	0.00	7.40	2.1	329.7		13.90	0.00	0.00	2.44		10.35	18.92	83.84	86.68	16-Nov-15 06:00:00		**24.25**	**18.92**	**83.84**	**89.12**
16-Nov-15 07:00:00	16-Nov-15 08:00:00		96.55	0.00	0.00	7.29	2.1	329.7		31.83	0.00	0.00	2.40		10.35	18.92	83.84	86.68	16-Nov-15 07:00:00		**42.18**	**18.92**	**83.84**	**89.08**
16-Nov-15 08:00:00	16-Nov-15 09:00:00		229.58	0.00	0.00	7.29	2.1	329.7		75.69	0.00	0.00	2.40		10.35	18.92	83.84	86.68	16-Nov-15 08:00:00		**86.04**	**18.92**	**83.84**	**89.08**
16-Nov-15 09:00:00	16-Nov-15 10:00:00		0.00	0.00	0.00	0.00	2.1	329.7		0.00	0.00	0.00	0.00		10.35	18.92	83.84	86.68	16-Nov-15 09:00:00		**10.35**	**18.92**	**83.84**	**86.68**
16-Nov-15 10:00:00	16-Nov-15 11:00:00		12.86	0.00	0.00	6.39	2.1	329.7		4.24	0.00	0.00	2.11		10.35	18.92	83.84	86.68	16-Nov-15 10:00:00		**14.59**	**18.92**	**83.84**	**88.79**
16-Nov-15 11:00:00	16-Nov-15 12:00:00		10.00	0.00	0.00	6.10	2.1	329.7		3.30	0.00	0.00	2.01		10.35	18.92	83.84	86.68	16-Nov-15 11:00:00		**13.65**	**18.92**	**83.84**	**88.69**
16-Nov-15 12:00:00	16-Nov-15 13:00:00		9.65	0.00	0.00	5.71	2.1	329.7		3.18	0.00	0.00	1.88		10.35	18.92	83.84	86.68	16-Nov-15 12:00:00		**13.53**	**18.92**	**83.84**	**88.56**
16-Nov-15 13:00:00	16-Nov-15 14:00:00		5.08	0.00	0.00	5.33	2.1	329.7		1.68	0.00	0.00	1.76		10.35	18.92	83.84	86.68	16-Nov-15 13:00:00		**12.03**	**18.92**	**83.84**	**88.44**
16-Nov-15 14:00:00	16-Nov-15 15:00:00		0.12	0.00	0.00	5.07	2.1	329.7		0.04	0.00	0.00	1.67		10.35	18.92	83.84	86.68	16-Nov-15 14:00:00		**10.39**	**18.92**	**83.84**	**88.35**
16-Nov-15 15:00:00	16-Nov-15 16:00:00		0.00	0.00	0.00	5.14	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	16-Nov-15 15:00:00		**10.35**	**18.92**	**83.84**	**88.38**
16-Nov-15 16:00:00	16-Nov-15 17:00:00		0.00	0.00	0.00	5.19	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	16-Nov-15 16:00:00		**10.35**	**18.92**	**83.84**	**88.39**
16-Nov-15 17:00:00	16-Nov-15 18:00:00		0.00	0.00	0.00	5.24	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	16-Nov-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.41**
16-Nov-15 18:00:00	16-Nov-15 19:00:00		0.00	0.00	0.00	5.31	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	16-Nov-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.43**
16-Nov-15 19:00:00	16-Nov-15 20:00:00		0.00	0.00	0.00	5.53	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	16-Nov-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.50**
16-Nov-15 20:00:00	16-Nov-15 21:00:00		9.75	0.00	0.00	5.81	2.1	329.7		3.21	0.00	0.00	1.91		10.35	18.92	83.84	86.68	16-Nov-15 20:00:00		**13.56**	**18.92**	**83.84**	**88.59**
16-Nov-15 21:00:00	16-Nov-15 22:00:00		11.33	0.00	0.00	6.08	2.1	329.7		3.74	0.00	0.00	2.00		10.35	18.92	83.84	86.68	16-Nov-15 21:00:00		**14.09**	**18.92**	**83.84**	**88.68**
16-Nov-15 22:00:00	16-Nov-15 23:00:00		1.77	0.00	0.00	6.35	2.1	329.7		0.58	0.00	0.00	2.09		10.35	18.92	83.84	86.68	16-Nov-15 22:00:00		**10.93**	**18.92**	**83.84**	**88.77**
16-Nov-15 23:00:00	17-Nov-15 00:00:00		3.00	0.00	0.00	6.43	2.1	329.7		0.99	0.00	0.00	2.12		10.35	18.92	83.84	86.68	16-Nov-15 23:00:00		**11.34**	**18.92**	**83.84**	**88.80**
17-Nov-15 00:00:00	17-Nov-15 01:00:00		0.00	0.00	0.00	6.45	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	17-Nov-15 00:00:00		**10.35**	**18.92**	**83.84**	**88.81**
17-Nov-15 01:00:00	17-Nov-15 02:00:00		0.00	0.00	0.00	6.47	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	17-Nov-15 01:00:00		**10.35**	**18.92**	**83.84**	**88.81**
17-Nov-15 02:00:00	17-Nov-15 03:00:00		0.00	331.61	0.00	6.42	2.1	329.7		0.00	109.33	0.00	2.12		10.35	18.92	83.84	86.68	17-Nov-15 02:00:00		**10.35**	**128.25**	**83.84**	**88.80**
17-Nov-15 03:00:00	17-Nov-15 04:00:00		0.00	1,545.07	0.00	6.35	2.1	329.7		0.00	509.41	0.00	2.09		10.35	18.92	83.84	86.68	17-Nov-15 03:00:00		**10.35**	**528.33**	**83.84**	**88.77**
17-Nov-15 04:00:00	17-Nov-15 05:00:00		0.00	2,568.66	0.00	6.34	2.1	329.7		0.00	846.89	0.00	2.09		10.35	18.92	83.84	86.68	17-Nov-15 04:00:00		**10.35**	**865.81**	**83.84**	**88.77**
17-Nov-15 05:00:00	17-Nov-15 06:00:00		0.00	2,506.62	0.00	6.34	2.1	329.7		0.00	826.43	0.00	2.09		10.35	18.92	83.84	86.68	17-Nov-15 05:00:00		**10.35**	**845.35**	**83.84**	**88.77**
17-Nov-15 06:00:00	17-Nov-15 07:00:00		0.00	2,233.92	0.00	6.37	2.1	329.7		0.00	736.52	0.00	2.10		10.35	18.92	83.84	86.68	17-Nov-15 06:00:00		**10.35**	**755.44**	**83.84**	**88.78**
17-Nov-15 07:00:00	17-Nov-15 08:00:00		0.00	2,242.83	0.00	6.30	2.1	329.7		0.00	739.46	0.00	2.08		10.35	18.92	83.84	86.68	17-Nov-15 07:00:00		**10.35**	**758.38**	**83.84**	**88.76**
17-Nov-15 08:00:00	17-Nov-15 09:00:00		0.00	2,248.60	0.00	6.15	2.1	329.7		0.00	741.36	0.00	2.03		10.35	18.92	83.84	86.68	17-Nov-15 08:00:00		**10.35**	**760.28**	**83.84**	**88.71**
17-Nov-15 09:00:00	17-Nov-15 10:00:00		0.00	2,235.53	0.00	6.00	2.1	329.7		0.00	737.06	0.00	1.98		10.35	18.92	83.84	86.68	17-Nov-15 09:00:00		**10.35**	**755.98**	**83.84**	**88.66**
17-Nov-15 10:00:00	17-Nov-15 11:00:00		2.29	128.13	0.00	5.78	2.1	329.7		0.76	42.24	0.00	1.91		10.35	18.92	83.84	86.68	17-Nov-15 10:00:00		**11.11**	**61.16**	**83.84**	**88.59**
17-Nov-15 11:00:00	17-Nov-15 12:00:00		9.56	0.00	0.00	5.58	2.1	329.7		3.15	0.00	0.00	1.84		10.35	18.92	83.84	86.68	17-Nov-15 11:00:00		**13.50**	**18.92**	**83.84**	**88.52**
17-Nov-15 12:00:00	17-Nov-15 13:00:00		0.05	0.00	0.00	5.47	2.1	329.7		0.02	0.00	0.00	1.80		10.35	18.92	83.84	86.68	17-Nov-15 12:00:00		**10.37**	**18.92**	**83.84**	**88.48**
17-Nov-15 13:00:00	17-Nov-15 14:00:00		0.04	0.00	0.00	5.36	2.1	329.7		0.01	0.00	0.00	1.77		10.35	18.92	83.84	86.68	17-Nov-15 13:00:00		**10.36**	**18.92**	**83.84**	**88.45**
17-Nov-15 14:00:00	17-Nov-15 15:00:00		0.02	0.00	0.00	5.30	2.1	329.7		0.01	0.00	0.00	1.75		10.35	18.92	83.84	86.68	17-Nov-15 14:00:00		**10.36**	**18.92**	**83.84**	**88.43**
17-Nov-15 15:00:00	17-Nov-15 16:00:00		0.01	0.00	0.00	5.39	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	17-Nov-15 15:00:00		**10.35**	**18.92**	**83.84**	**88.46**
17-Nov-15 16:00:00	17-Nov-15 17:00:00		0.00	0.00	0.00	5.48	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	17-Nov-15 16:00:00		**10.35**	**18.92**	**83.84**	**88.49**
17-Nov-15 17:00:00	17-Nov-15 18:00:00		0.00	0.00	0.00	5.57	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	17-Nov-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.52**
17-Nov-15 18:00:00	17-Nov-15 19:00:00		0.00	0.00	0.00	5.53	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	17-Nov-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.50**
17-Nov-15 19:00:00	17-Nov-15 20:00:00		0.00	0.00	0.00	5.50	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	17-Nov-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.49**
17-Nov-15 20:00:00	17-Nov-15 21:00:00		0.00	0.00	0.00	5.64	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	17-Nov-15 20:00:00		**10.35**	**18.92**	**83.84**	**88.54**
17-Nov-15 21:00:00	17-Nov-15 22:00:00		0.00	0.00	0.00	5.77	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	17-Nov-15 21:00:00		**10.35**	**18.92**	**83.84**	**88.58**
17-Nov-15 22:00:00	17-Nov-15 23:00:00		0.00	0.00	0.00	5.97	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	17-Nov-15 22:00:00		**10.35**	**18.92**	**83.84**	**88.65**
17-Nov-15 23:00:00	18-Nov-15 00:00:00		0.00	0.00	77.90	6.09	2.1	329.7		0.00	0.00	25.68	2.01		10.35	18.92	83.84	86.68	17-Nov-15 23:00:00		**10.35**	**18.92**	**109.52**	**88.69**
18-Nov-15 00:00:00	18-Nov-15 01:00:00		0.00	0.00	440.53	6.10	2.1	329.7		0.00	0.00	145.24	2.01		10.35	18.92	83.84	86.68	18-Nov-15 00:00:00		**10.35**	**18.92**	**229.08**	**88.69**
18-Nov-15 01:00:00	18-Nov-15 02:00:00		0.00	0.00	110.55	6.10	2.1	329.7		0.00	0.00	36.45	2.01		10.35	18.92	83.84	86.68	18-Nov-15 01:00:00		**10.35**	**18.92**	**120.29**	**88.69**
18-Nov-15 02:00:00	18-Nov-15 03:00:00		0.00	0.00	0.00	6.06	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	18-Nov-15 02:00:00		**10.35**	**18.92**	**83.84**	**88.68**
18-Nov-15 03:00:00	18-Nov-15 04:00:00		0.00	0.00	0.00	5.99	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	18-Nov-15 03:00:00		**10.35**	**18.92**	**83.84**	**88.65**
18-Nov-15 04:00:00	18-Nov-15 05:00:00		0.00	0.00	0.00	5.98	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	18-Nov-15 04:00:00		**10.35**	**18.92**	**83.84**	**88.65**
18-Nov-15 05:00:00	18-Nov-15 06:00:00		0.00	0.00	0.00	5.96	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	18-Nov-15 05:00:00		**10.35**	**18.92**	**83.84**	**88.65**
18-Nov-15 06:00:00	18-Nov-15 07:00:00		0.00	0.00	0.00	6.01	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	18-Nov-15 06:00:00		**10.35**	**18.92**	**83.84**	**88.66**
18-Nov-15 07:00:00	18-Nov-15 08:00:00		0.00	0.00	0.00	6.17	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	18-Nov-15 07:00:00		**10.35**	**18.92**	**83.84**	**88.71**
18-Nov-15 08:00:00	18-Nov-15 09:00:00		0.00	0.00	0.00	6.27	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	18-Nov-15 08:00:00		**10.35**	**18.92**	**83.84**	**88.75**
18-Nov-15 09:00:00	18-Nov-15 10:00:00		18.76	0.00	0.00	6.38	2.1	329.7		6.19	0.00	0.00	2.10		10.35	18.92	83.84	86.68	18-Nov-15 09:00:00		**16.54**	**18.92**	**83.84**	**88.78**
18-Nov-15 10:00:00	18-Nov-15 11:00:00		450.87	0.00	0.00	6.42	2.1	329.7		148.65	0.00	0.00	2.12		10.35	18.92	83.84	86.68	18-Nov-15 10:00:00		**159.00**	**18.92**	**83.84**	**88.80**
18-Nov-15 11:00:00	18-Nov-15 12:00:00		508.50	0.00	0.00	6.15	2.1	329.7		167.65	0.00	0.00	2.03		10.35	18.92	83.84	86.68	18-Nov-15 11:00:00		**178.00**	**18.92**	**83.84**	**88.71**
18-Nov-15 12:00:00	18-Nov-15 13:00:00		332.30	0.00	0.00	5.84	2.1	329.7		109.56	0.00	0.00	1.92		10.35	18.92	83.84	86.68	18-Nov-15 12:00:00		**119.91**	**18.92**	**83.84**	**88.60**
18-Nov-15 13:00:00	18-Nov-15 14:00:00		0.00	0.00	0.00	5.53	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	18-Nov-15 13:00:00		**10.35**	**18.92**	**83.84**	**88.50**
18-Nov-15 14:00:00	18-Nov-15 15:00:00		0.00	0.00	0.00	5.22	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	18-Nov-15 14:00:00		**10.35**	**18.92**	**83.84**	**88.40**
18-Nov-15 15:00:00	18-Nov-15 16:00:00		0.00	0.00	0.00	5.16	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	18-Nov-15 15:00:00		**10.35**	**18.92**	**83.84**	**88.38**
18-Nov-15 16:00:00	18-Nov-15 17:00:00		0.00	0.00	0.00	5.21	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	18-Nov-15 16:00:00		**10.35**	**18.92**	**83.84**	**88.40**
18-Nov-15 17:00:00	18-Nov-15 18:00:00		0.00	0.00	0.00	5.26	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	18-Nov-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.41**
18-Nov-15 18:00:00	18-Nov-15 19:00:00		0.00	0.00	0.00	5.31	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	18-Nov-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.43**
18-Nov-15 19:00:00	18-Nov-15 20:00:00		0.00	0.00	0.00	5.34	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	18-Nov-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.44**
18-Nov-15 20:00:00	18-Nov-15 21:00:00		0.00	0.00	0.00	0.00	2.1	329.7		0.00	0.00	0.00	0.00		10.35	18.92	83.84	86.68	18-Nov-15 20:00:00		**10.35**	**18.92**	**83.84**	**86.68**
18-Nov-15 21:00:00	18-Nov-15 22:00:00		0.00	0.00	0.00	0.00	2.1	329.7		0.00	0.00	0.00	0.00		10.35	18.92	83.84	86.68	18-Nov-15 21:00:00		**10.35**	**18.92**	**83.84**	**86.68**
18-Nov-15 22:00:00	18-Nov-15 23:00:00		0.00	0.00	0.00	5.63	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	18-Nov-15 22:00:00		**10.35**	**18.92**	**83.84**	**88.54**
18-Nov-15 23:00:00	19-Nov-15 00:00:00		0.00	0.00	0.00	5.68	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	18-Nov-15 23:00:00		**10.35**	**18.92**	**83.84**	**88.55**
19-Nov-15 00:00:00	19-Nov-15 01:00:00		0.00	48.24	196.14	5.74	2.1	329.7		0.00	15.90	64.67	1.89		10.35	18.92	83.84	86.68	19-Nov-15 00:00:00		**10.35**	**34.82**	**148.51**	**88.57**
19-Nov-15 01:00:00	19-Nov-15 02:00:00		0.00	0.00	357.11	5.80	2.1	329.7		0.00	0.00	117.74	1.91		10.35	18.92	83.84	86.68	19-Nov-15 01:00:00		**10.35**	**18.92**	**201.58**	**88.59**
19-Nov-15 02:00:00	19-Nov-15 03:00:00		0.00	0.00	112.77	5.85	2.1	329.7		0.00	0.00	37.18	1.93		10.35	18.92	83.84	86.68	19-Nov-15 02:00:00		**10.35**	**18.92**	**121.02**	**88.61**
19-Nov-15 03:00:00	19-Nov-15 04:00:00		0.00	0.00	68.52	5.75	2.1	329.7		0.00	0.00	22.59	1.90		10.35	18.92	83.84	86.68	19-Nov-15 03:00:00		**10.35**	**18.92**	**106.43**	**88.58**
19-Nov-15 04:00:00	19-Nov-15 05:00:00		0.00	0.00	122.80	5.63	2.1	329.7		0.00	0.00	40.49	1.86		10.35	18.92	83.84	86.68	19-Nov-15 04:00:00		**10.35**	**18.92**	**124.33**	**88.54**
19-Nov-15 05:00:00	19-Nov-15 06:00:00		0.00	0.00	0.00	5.52	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	19-Nov-15 05:00:00		**10.35**	**18.92**	**83.84**	**88.50**
19-Nov-15 06:00:00	19-Nov-15 07:00:00		0.00	0.00	0.00	5.38	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	19-Nov-15 06:00:00		**10.35**	**18.92**	**83.84**	**88.45**
19-Nov-15 07:00:00	19-Nov-15 08:00:00		0.00	394.50	0.00	5.26	2.1	329.7		0.00	130.07	0.00	1.74		10.35	18.92	83.84	86.68	19-Nov-15 07:00:00		**10.35**	**148.99**	**83.84**	**88.42**
19-Nov-15 08:00:00	19-Nov-15 09:00:00		0.00	682.95	0.00	5.18	2.1	329.7		0.00	225.17	0.00	1.71		10.35	18.92	83.84	86.68	19-Nov-15 08:00:00		**10.35**	**244.09**	**83.84**	**88.39**
19-Nov-15 09:00:00	19-Nov-15 10:00:00		0.00	845.18	0.00	5.10	2.1	329.7		0.00	278.66	0.00	1.68		10.35	18.92	83.84	86.68	19-Nov-15 09:00:00		**10.35**	**297.58**	**83.84**	**88.36**
19-Nov-15 10:00:00	19-Nov-15 11:00:00		0.00	1,012

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
21-Nov-15 08:00:00	21-Nov-15 09:00:00		5.30	0.00	0.00	6.89	2.1	329.7		1.75	0.00	0.00	2.27		10.35	18.92	83.84	86.68	21-Nov-15 08:00:00		12.10	18.92	83.84	88.95
21-Nov-15 09:00:00	21-Nov-15 10:00:00		3.86	0.00	0.00	6.74	2.1	329.7		1.27	0.00	0.00	2.22		10.35	18.92	83.84	86.68	21-Nov-15 09:00:00		11.62	18.92	83.84	88.90
21-Nov-15 10:00:00	21-Nov-15 11:00:00		2.45	0.00	0.00	6.56	2.1	329.7		0.81	0.00	0.00	2.16		10.35	18.92	83.84	86.68	21-Nov-15 10:00:00		11.16	18.92	83.84	88.84
21-Nov-15 11:00:00	21-Nov-15 12:00:00		16.16	0.00	0.00	6.33	2.1	329.7		5.33	0.00	0.00	2.09		10.35	18.92	83.84	86.68	21-Nov-15 11:00:00		15.68	18.92	83.84	88.77
21-Nov-15 12:00:00	21-Nov-15 13:00:00		12.42	0.00	0.00	6.17	2.1	329.7		4.10	0.00	0.00	2.03		10.35	18.92	83.84	86.68	21-Nov-15 12:00:00		14.45	18.92	83.84	88.71
21-Nov-15 13:00:00	21-Nov-15 14:00:00		16.15	0.00	0.00	6.02	2.1	329.7		5.33	0.00	0.00	1.98		10.35	18.92	83.84	86.68	21-Nov-15 13:00:00		15.68	18.92	83.84	88.66
21-Nov-15 14:00:00	21-Nov-15 15:00:00		18.52	0.00	0.00	5.89	2.1	329.7		6.11	0.00	0.00	1.94		10.35	18.92	83.84	86.68	21-Nov-15 14:00:00		16.46	18.92	83.84	88.62
21-Nov-15 15:00:00	21-Nov-15 16:00:00		30.29	0.00	0.00	5.91	2.1	329.7		9.99	0.00	0.00	1.95		10.35	18.92	83.84	86.68	21-Nov-15 15:00:00		20.34	18.92	83.84	88.63
21-Nov-15 16:00:00	21-Nov-15 17:00:00		22.95	0.00	0.00	5.90	2.1	329.7		7.57	0.00	0.00	1.95		10.35	18.92	83.84	86.68	21-Nov-15 16:00:00		17.92	18.92	83.84	88.63
21-Nov-15 17:00:00	21-Nov-15 18:00:00		20.44	0.00	0.00	5.90	2.1	329.7		6.74	0.00	0.00	1.95		10.35	18.92	83.84	86.68	21-Nov-15 17:00:00		17.09	18.92	83.84	88.63
21-Nov-15 18:00:00	21-Nov-15 19:00:00		21.35	0.00	0.00	5.88	2.1	329.7		7.04	0.00	0.00	1.94		10.35	18.92	83.84	86.68	21-Nov-15 18:00:00		17.39	18.92	83.84	88.62
21-Nov-15 19:00:00	21-Nov-15 20:00:00		21.22	0.00	0.00	5.85	2.1	329.7		7.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	21-Nov-15 19:00:00		17.35	18.92	83.84	88.61
21-Nov-15 20:00:00	21-Nov-15 21:00:00		20.77	0.00	0.00	5.91	2.1	329.7		6.85	0.00	0.00	1.95		10.35	18.92	83.84	86.68	21-Nov-15 20:00:00		17.20	18.92	83.84	88.63
21-Nov-15 21:00:00	21-Nov-15 22:00:00		20.45	0.00	0.11	5.96	2.1	329.7		6.74	0.00	0.04	1.97		10.35	18.92	83.84	86.68	21-Nov-15 21:00:00		17.09	18.92	83.88	88.65
21-Nov-15 22:00:00	21-Nov-15 23:00:00		21.84	0.00	0.00	6.01	2.1	329.7		7.20	0.00	0.00	1.98		10.35	18.92	83.84	86.68	21-Nov-15 22:00:00		17.55	18.92	83.84	88.66
21-Nov-15 23:00:00	22-Nov-15 00:00:00		22.75	0.00	0.00	6.16	2.1	329.7		7.50	0.00	0.00	2.03		10.35	18.92	83.84	86.68	21-Nov-15 23:00:00		17.85	18.92	83.84	88.71
22-Nov-15 00:00:00	22-Nov-15 01:00:00		20.05	0.00	0.00	6.39	2.1	329.7		6.61	0.00	0.00	2.11		10.35	18.92	83.84	86.68	22-Nov-15 00:00:00		16.96	18.92	83.84	88.79
22-Nov-15 01:00:00	22-Nov-15 02:00:00		13.82	0.00	0.00	6.62	2.1	329.7		4.56	0.00	0.00	2.18		10.35	18.92	83.84	86.68	22-Nov-15 01:00:00		14.91	18.92	83.84	88.86
22-Nov-15 02:00:00	22-Nov-15 03:00:00		15.49	0.00	0.00	6.84	2.1	329.7		5.11	0.00	0.00	2.25		10.35	18.92	83.84	86.68	22-Nov-15 02:00:00		15.46	18.92	83.84	88.93
22-Nov-15 03:00:00	22-Nov-15 04:00:00		15.86	0.00	0.00	6.91	2.1	329.7		5.23	0.00	0.00	2.28		10.35	18.92	83.84	86.68	22-Nov-15 03:00:00		15.58	18.92	83.84	88.96
22-Nov-15 04:00:00	22-Nov-15 05:00:00		15.32	0.00	0.00	6.93	2.1	329.7		5.05	0.00	0.00	2.28		10.35	18.92	83.84	86.68	22-Nov-15 04:00:00		15.40	18.92	83.84	88.96
22-Nov-15 05:00:00	22-Nov-15 06:00:00		12.64	0.00	0.00	6.95	2.1	329.7		4.17	0.00	0.00	2.29		10.35	18.92	83.84	86.68	22-Nov-15 05:00:00		14.52	18.92	83.84	88.97
22-Nov-15 06:00:00	22-Nov-15 07:00:00		23.66	0.00	0.00	7.00	2.1	329.7		7.80	0.00	0.00	2.31		10.35	18.92	83.84	86.68	22-Nov-15 06:00:00		18.15	18.92	83.84	88.99
22-Nov-15 07:00:00	22-Nov-15 08:00:00		20.84	0.00	0.00	7.05	2.1	329.7		6.87	0.00	0.00	2.32		10.35	18.92	83.84	86.68	22-Nov-15 07:00:00		17.22	18.92	83.84	89.00
22-Nov-15 08:00:00	22-Nov-15 09:00:00		20.67	0.00	0.00	6.99	2.1	329.7		6.81	0.00	0.00	2.31		10.35	18.92	83.84	86.68	22-Nov-15 08:00:00		17.16	18.92	83.84	88.99
22-Nov-15 09:00:00	22-Nov-15 10:00:00		23.27	0.00	0.00	6.94	2.1	329.7		7.67	0.00	0.00	2.29		10.35	18.92	83.84	86.68	22-Nov-15 09:00:00		18.02	18.92	83.84	88.97
22-Nov-15 10:00:00	22-Nov-15 11:00:00		24.87	0.00	0.00	6.88	2.1	329.7		8.20	0.00	0.00	2.27		10.35	18.92	83.84	86.68	22-Nov-15 10:00:00		18.55	18.92	83.84	88.95
22-Nov-15 11:00:00	22-Nov-15 12:00:00		23.60	0.00	0.00	6.75	2.1	329.7		7.78	0.00	0.00	2.23		10.35	18.92	83.84	86.68	22-Nov-15 11:00:00		18.13	18.92	83.84	88.91
22-Nov-15 12:00:00	22-Nov-15 13:00:00		5.28	0.00	0.00	6.63	2.1	329.7		1.74	0.00	0.00	2.19		10.35	18.92	83.84	86.68	22-Nov-15 12:00:00		12.09	18.92	83.84	88.87
22-Nov-15 13:00:00	22-Nov-15 14:00:00		20.74	0.00	0.00	6.52	2.1	329.7		6.84	0.00	0.00	2.15		10.35	18.92	83.84	86.68	22-Nov-15 13:00:00		17.19	18.92	83.84	88.83
22-Nov-15 14:00:00	22-Nov-15 15:00:00		17.43	0.00	0.00	6.39	2.1	329.7		5.75	0.00	0.00	2.11		10.35	18.92	83.84	86.68	22-Nov-15 14:00:00		16.10	18.92	83.84	88.79
22-Nov-15 15:00:00	22-Nov-15 16:00:00		17.50	0.00	0.00	6.36	2.1	329.7		5.77	0.00	0.00	2.10		10.35	18.92	83.84	86.68	22-Nov-15 15:00:00		16.12	18.92	83.84	88.78
22-Nov-15 16:00:00	22-Nov-15 17:00:00		17.21	0.00	0.00	6.41	2.1	329.7		5.67	0.00	0.00	2.11		10.35	18.92	83.84	86.68	22-Nov-15 16:00:00		16.02	18.92	83.84	88.79
22-Nov-15 17:00:00	22-Nov-15 18:00:00		17.30	0.00	0.00	6.45	2.1	329.7		5.70	0.00	0.00	2.13		10.35	18.92	83.84	86.68	22-Nov-15 17:00:00		16.05	18.92	83.84	88.81
22-Nov-15 18:00:00	22-Nov-15 19:00:00		17.08	0.00	0.00	6.47	2.1	329.7		5.63	0.00	0.00	2.13		10.35	18.92	83.84	86.68	22-Nov-15 18:00:00		15.98	18.92	83.84	88.81
22-Nov-15 19:00:00	22-Nov-15 20:00:00		16.86	0.00	0.00	6.49	2.1	329.7		5.56	0.00	0.00	2.14		10.35	18.92	83.84	86.68	22-Nov-15 19:00:00		15.91	18.92	83.84	88.82
22-Nov-15 20:00:00	22-Nov-15 21:00:00		15.08	0.00	0.00	6.63	2.1	329.7		4.97	0.00	0.00	2.19		10.35	18.92	83.84	86.68	22-Nov-15 20:00:00		15.32	18.92	83.84	88.87
22-Nov-15 21:00:00	22-Nov-15 22:00:00		20.95	0.00	0.00	6.77	2.1	329.7		6.91	0.00	0.00	2.23		10.35	18.92	83.84	86.68	22-Nov-15 21:00:00		17.26	18.92	83.84	88.91
22-Nov-15 22:00:00	22-Nov-15 23:00:00		10.51	0.00	0.00	6.92	2.1	329.7		3.47	0.00	0.00	2.28		10.35	18.92	83.84	86.68	22-Nov-15 22:00:00		13.82	18.92	83.84	88.96
22-Nov-15 23:00:00	23-Nov-15 00:00:00		12.74	0.00	0.00	7.05	2.1	329.7		4.20	0.00	0.00	2.33		10.35	18.92	83.84	86.68	22-Nov-15 23:00:00		14.55	18.92	83.84	89.01
23-Nov-15 00:00:00	23-Nov-15 01:00:00		11.71	0.00	0.00	7.11	2.1	329.7		3.86	0.00	0.00	2.34		10.35	18.92	83.84	86.68	23-Nov-15 00:00:00		14.21	18.92	83.84	89.02
23-Nov-15 01:00:00	23-Nov-15 02:00:00		24.31	0.00	7.69	7.16	2.1	329.7		8.02	0.00	2.54	2.36		10.35	18.92	83.84	86.68	23-Nov-15 01:00:00		18.37	18.92	86.38	89.04
23-Nov-15 02:00:00	23-Nov-15 03:00:00		33.67	0.00	0.00	7.22	2.1	329.7		11.10	0.00	0.00	2.38		10.35	18.92	83.84	86.68	23-Nov-15 02:00:00		21.45	18.92	83.84	89.06
23-Nov-15 03:00:00	23-Nov-15 04:00:00		17.49	0.00	0.00	7.41	2.1	329.7		5.76	0.00	0.00	2.44		10.35	18.92	83.84	86.68	23-Nov-15 03:00:00		16.11	18.92	83.84	89.12
23-Nov-15 04:00:00	23-Nov-15 05:00:00		20.59	0.00	0.00	7.64	2.1	329.7		6.79	0.00	0.00	2.52		10.35	18.92	83.84	86.68	23-Nov-15 04:00:00		17.14	18.92	83.84	89.20
23-Nov-15 05:00:00	23-Nov-15 06:00:00		12.20	0.00	0.00	7.87	2.1	329.7		4.02	0.00	0.00	2.59		10.35	18.92	83.84	86.68	23-Nov-15 05:00:00		14.37	18.92	83.84	89.27
23-Nov-15 06:00:00	23-Nov-15 07:00:00		9.33	0.00	0.00	8.09	2.1	329.7		3.08	0.00	0.00	2.67		10.35	18.92	83.84	86.68	23-Nov-15 06:00:00		13.43	18.92	83.84	89.35
23-Nov-15 07:00:00	23-Nov-15 08:00:00		9.22	0.00	0.00	8.06	2.1	329.7		3.04	0.00	0.00	2.66		10.35	18.92	83.84	86.68	23-Nov-15 07:00:00		13.39	18.92	83.84	89.34
23-Nov-15 08:00:00	23-Nov-15 09:00:00		8.61	0.00	0.00	7.90	2.1	329.7		2.84	0.00	0.00	2.60		10.35	18.92	83.84	86.68	23-Nov-15 08:00:00		13.19	18.92	83.84	89.28
23-Nov-15 09:00:00	23-Nov-15 10:00:00		7.60	0.00	0.00	7.74	2.1	329.7		2.51	0.00	0.00	2.55		10.35	18.92	83.84	86.68	23-Nov-15 09:00:00		12.86	18.92	83.84	89.23
23-Nov-15 10:00:00	23-Nov-15 11:00:00		5.47	0.00	0.00	7.57	2.1	329.7		1.80	0.00	0.00	2.49		10.35	18.92	83.84	86.68	23-Nov-15 10:00:00		12.15	18.92	83.84	89.17
23-Nov-15 11:00:00	23-Nov-15 12:00:00		8.49	0.00	0.00	7.28	2.1	329.7		2.80	0.00	0.00	2.40		10.35	18.92	83.84	86.68	23-Nov-15 11:00:00		13.15	18.92	83.84	89.08
23-Nov-15 12:00:00	23-Nov-15 13:00:00		3.02	0.00	0.00	7.06	2.1	329.7		1.00	0.00	0.00	2.33		10.35	18.92	83.84	86.68	23-Nov-15 12:00:00		11.35	18.92	83.84	89.01
23-Nov-15 13:00:00	23-Nov-15 14:00:00		6.64	0.00	0.00	6.85	2.1	329.7		2.19	0.00	0.00	2.26		10.35	18.92	83.84	86.68	23-Nov-15 13:00:00		12.54	18.92	83.84	88.94
23-Nov-15 14:00:00	23-Nov-15 15:00:00		6.24	0.70	8.88	6.63	2.1	329.7		2.06	0.23	2.93	2.19		10.35	18.92	83.84	86.68	23-Nov-15 14:00:00		12.41	19.15	86.77	88.87
23-Nov-15 15:00:00	23-Nov-15 16:00:00		2.62	0.00	3.85	6.46	2.1	329.7		0.86	0.00	1.27	2.13		10.35	18.92	83.84	86.68	23-Nov-15 15:00:00		11.21	18.92	85.11	88.81
23-Nov-15 16:00:00	23-Nov-15 17:00:00		0.71	0.00	0.00	12.24	2.1	329.7		0.23	0.00	0.00	4.03		10.35	18.92	83.84	86.68	23-Nov-15 16:00:00		10.58	18.92	83.84	90.71
23-Nov-15 17:00:00	23-Nov-15 18:00:00		1.03	0.00	49.39	93.90	2.1	329.7		0.34	0.00	16.28	30.96		10.35	18.92	83.84	86.68	23-Nov-15 17:00:00		10.69	18.92	100.12	117.64
23-Nov-15 18:00:00	23-Nov-15 19:00:00		0.25	0.00	0.00	6.31	2.1	329.7		0.08	0.00	0.00	2.08		10.35	18.92	83.84	86.68	23-Nov-15 18:00:00		10.43	18.92	83.84	88.76
23-Nov-15 19:00:00	23-Nov-15 20:00:00		4.38	0.00	197.22	125.74	2.1	329.7		1.44	0.00	65.02	41.46		10.35	18.92	83.84	86.68	23-Nov-15 19:00:00		11.79	18.92	148.86	128.14
23-Nov-15 20:00:00	23-Nov-15 21:00:00		3.58	0.00	341.71	273.27	2.1	329.7		1.18	0.00	112.66	90.10		10.35	18.92	83.84	86.68	23-Nov-15 20:00:00		11.53	18.92	196.50	176.78
23-Nov-15 21:00:00	23-Nov-15 22:00:00		13.78	52.44	277.69	201.15	2.1	329.7		4.54	17.29	91.56	66.32		10.35	18.92	83.84	86.68	23-Nov-15 21:00:00		14.89	36.21	175.40	153.00
23-Nov-15 22:00:00	23-Nov-15 23:00:00		27.18	72.68	174.77	316.23	2.1	329.7		8.96	23.96	57.62	104.26		10.35	18.92	83.84	86.68	23-Nov-15 22:00:00		19.31	42.88	141.46	190.94
23-Nov-15 23:00:00	24-Nov-15 00:00:00		17.58	0.00	257.03	379.22	2.1	329.7		5.80	0.00	84.74	125.03		10.35	18.92	83.84	86.68	23-Nov-15 23:00:00		16.15	18.92	168.58	211.71
24-Nov-15 00:00:00	24-Nov-15 01:00:00		8.85	0.00	285.86	454.13	2.1	329.7		2.92	0.00	94.25	149.73		10.35	18.92	83.84	86.68	24-Nov-15 00:00:00		13.27	18.92	178.09	236.41
24-Nov-15 01:00:00	24-Nov-15 02:00:00		1.72	136.50	361.63	507.95	2.1	329.7		0.57	45.00	119.23	167.47		10.35	18.92	83.84	86.68	24-Nov-15 01:00:00		10.92	63.92	203.07	254.15
24-Nov-15 02:00:00	24-Nov-15 03:00:00		1.25	81.79	433.49	551.71	2.1	329.7		0.41	26.97	142.92	181.90		10.35	18.92	83.84	86.68	24-Nov-15 02:00:00		10.76	45.89	226.76	268.58
24-Nov-15 03:00:00	24-Nov-15 04:00:00		2.15	121.60	275.74	495.92	2.1	329.7		0.71	40.09	90.91	163.50		10.35	18.92	83.84	86.68	24-Nov-15 03:00:00		11.06	59.01	174.75	250.18
24-Nov-15 04:00:00	24-Nov-15 05:00:00		16.34	316.36	168.98	422.91	2.1	329.7		5.39	104.30	55.71	139.43		10.35	18.92	83.84	86.68	24-Nov-15 04:00:00		15.74	123.22	139.55	226.11
24-Nov-15 05:00:00	24-Nov-15 06:00:00		2.94	283.88	163.30	469.21	2.1	329.7		0.97	93.59	53.84	154.70		10.35	18.92	83.84	86.68	24-Nov-15 05:00:00		11.32	112.51	137.68	241.38
24-Nov-15 06:00:00	24-Nov-15 07:00:00		8.17	226.75	110.64	496.13	2.1	329.7		2.69	74.76	36.48	163.57		10.35	18.92	83.84	86.68	24-Nov-15 06:00:00		13.04	93.68	120.32	250.25
24-Nov-15 07:00:00	24-Nov-15 08:00:00		4.57	227.70	19.11	365.40	2.1	329.7		1.51	75.07	6.30	120.47		10.35	18.92	83.84	86.68	24-Nov-15 07:00:00		11.86	93.99	90.14	207.15
24-Nov-15 08:00:00	24-Nov-15 09:00:00		3.48	195.26	0.00	189.68	2.1	329.7		1.15	64.38	0.00	62.54		10.35	18.92	83.84	86.68	24-Nov-15 08:00:00		11.50	83.30	83.84	149.22
24-Nov-15 09:00:00	24-Nov-15 10:00:00		3.18	0.00	0.00	6.76	2.1	329.7		1.05	0.00	0.00	2.23		10.35	18.92	83.84	86.68	24-Nov-15 09:00:00		11.40	18.92	83.84	88.91
24-Nov-15 10:00:00	24-Nov-15 11:00:00		3.76	0.00	69.50	163.49	2.1	329.7		1.24	0.00	22.91	53.90		10.35	18.92	83.84	86.68	24-Nov-15 10:00:00		11.59	18.92	106.75	140.58
24-Nov-15 11:00:00	24-Nov-15 12:00:00		5.69	0.00	0.00	334.25	2.1	329.7		1.88	0.00	0.00	110.20		10.35	18.92	83.84	86.68	24-Nov-15 11:00:00		12.23	18.92	83.84	196.88
24-Nov-15 12:00:00	24-Nov-15 13:00:00		8.91	0.00	0.00	337.15	2.1	329.7		2.94	0.00	0.00	111.16		10.35	18.92	83.84	86.68	24-Nov-15 12:00:00		13.29	18.92	83.84	197.84
24-Nov-15 13:00:00	24-Nov-15 14:00:00		6.30	0.00	0.00	246.96	2.1	329.7		2.08	0.00	0.00	81.42		10.35	18.92	83.84	86.68	24-Nov-15 13:00:00		12.43	18.92	83.84	168.10
24-Nov-15 14:00:00	24-Nov-15 15:00:00		1.38	0.00	0.00	214.04	2.1	329.7		0.45	0.00	0.00	70.57		10.35	18.92	83.84	86.68	24-Nov-15 14:00:00		10.80	18.92	83.84	157.25
24-Nov-15 15:00:00	24-Nov-15 16:00:00		1.87	0.00	0.00	207.43	2.1	329.7		0.62	0.00	0.00	68.39		10.35	18.92	83.84	86.68	24-Nov-15 15:00:00		10.97	18.92	83.84	155.07
24-Nov-15 16:00:00	24-Nov-15 17:00:00		0.00	13.07	0.00	208.93	2.1	329.7		0.00	4.31	0.00	68.88		10.35	18.92	83.84	86.68	24-Nov-15 16:00:00		10.35	23.23	83.84	155.56
24-Nov-15 17:00:00	24-Nov-15 18:00:00		0.00	0.00	0.00	205.49	2.1	329.7		0.00	0.00	0.00	67.75		10.35	18.92	83.84	86.68	24-Nov-15 17:00:00		10.35	18.92	83.84	154.43
24-Nov-15 18:00:00	24-Nov-15 19:00:00		0.00	0.00	0.00	209.61	2.1	329.7		0.00	0.00	0.00	69.11		10.35	18.92	83.84	86.68	24-Nov-15 18:00:00		10.35	18.92	83.84	155.79
24-Nov-15 19:00:00	24-Nov-15 20:00:00		0.89	0.00	0.00	240.83	2.1	329.7		0.29	0.00	0.00	79.40		10.35	18.92	83.84	86.68	24-Nov-15 19:00:00		10.64	18.92	83.84	166.08
24-Nov-15 20:00:00	24-Nov-15 21:00:00		3.55	0.00	0.00	331.20	2.1	329.7		1.17	0.00	0.00	109.20		10.35	18.92	83.84	86.68	24-Nov-15 20:00:00		11.52	18.92	83.84	195.88
24-Nov-15 21:00:00	24-Nov-15 22:00:00		7.34	0.00	0.00	331.17	2.1	329.7		2.42	0.00	0.00	109.19		10.35	18.92	83.84	86.68	24-Nov-15 21:00:00		12.77	18.92	83.84	195.87
24-Nov-15 22:00:00	24-Nov-15 23:00:00		6.78	0.00	0.00	322.33	2.1	329.7		2.23	0.00	0.00	106.27		10.35	18.92	83.84	86.68	24-Nov-15 22:00:00		12.58	18.92	83.84	192.95
24-Nov-15 23:00:00	25-Nov-15 00:00:00		0.71	0.00	86.90	305.25	2.1	329.7		0.23	0.00	28.65	100.64		10.35	18.92	83.84	86.68	24-Nov-15 23:00:00		10.58	18.92	112.49	187.32
25-Nov-15 00:00:00	25-Nov-15 01:00:00		1.41	0.00	212.20	380.29	2.1	329.7		0.47	0.00	69.96	125.38		10.35	18.92	83.84	86.68	25-Nov-15 00:00:00		10.82	18.92	153.80	212.06
25-Nov-15 01:00:00	25-Nov-15 02:00:00		0.00	0.00	262.74	515.27	2.1	329.7		0.00	0.00	86.63	169.89		10.35	18.92	83.84	86.68	25-Nov-15 01:00:00		10.35	18.92	170.47	256.57
25-Nov-15 02:00:00	25-Nov-15 03:00:00		10.69	0.00	89.92	634.83	2.1	329.7		3.52	0.00	29.65	209.30		10.35	18.92	83.84	86.68	25-Nov-15 02:00:00		13.87	18.92	113.49	295.98
25-Nov-15 03:00:00	25-Nov-15 04:00:00		4.61	0.00	81.88	349.01	2.1	329.7		1.52	0.00	27.00	115.07		10.35	18.92	83.84	86.68	25-Nov-15 03:00:00		11.87	18.92	110.84	201.75
25-Nov-15 04:00:00	25-Nov-15 05:00:00		25.33	0.00	85.03	652.56	2.1	329.7		8.35	0.00	28.04	215.15		10.35	18.92	83.84	86.68	25-Nov-15 04:00:00		18.70	18.92	111.88	301.83
25-Nov-15 05:00:00	25-Nov-15 06:00:00		29.69	0.00	144.17	710.

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
27-Nov-15 03:00:00	27-Nov-15 04:00:00		4.33	0.00	0.00	6.16	2.1	329.7		1.43	0.00	0.00	2.03		10.35	18.92	83.84	86.68	27-Nov-15 03:00:00		11.78	18.92	83.84	88.71
27-Nov-15 04:00:00	27-Nov-15 05:00:00		1.15	0.00	0.00	6.22	2.1	329.7		0.38	0.00	0.00	2.05		10.35	18.92	83.84	86.68	27-Nov-15 04:00:00		10.73	18.92	83.84	88.73
27-Nov-15 05:00:00	27-Nov-15 06:00:00		5.37	0.00	0.00	6.38	2.1	329.7		1.77	0.00	0.00	2.10		10.35	18.92	83.84	86.68	27-Nov-15 05:00:00		12.12	18.92	83.84	88.78
27-Nov-15 06:00:00	27-Nov-15 07:00:00		10.17	0.00	0.00	6.42	2.1	329.7		3.35	0.00	0.00	2.12		10.35	18.92	83.84	86.68	27-Nov-15 06:00:00		13.70	18.92	83.84	88.80
27-Nov-15 07:00:00	27-Nov-15 08:00:00		7.44	0.00	0.00	6.43	2.1	329.7		2.45	0.00	0.00	2.12		10.35	18.92	83.84	86.68	27-Nov-15 07:00:00		12.80	18.92	83.84	88.80
27-Nov-15 08:00:00	27-Nov-15 09:00:00		0.00	0.00	0.00	6.44	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	27-Nov-15 08:00:00		10.35	18.92	83.84	88.80
27-Nov-15 09:00:00	27-Nov-15 10:00:00		0.00	0.00	0.00	6.36	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	27-Nov-15 09:00:00		10.35	18.92	83.84	88.78
27-Nov-15 10:00:00	27-Nov-15 11:00:00		0.00	0.00	0.00	5.97	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	27-Nov-15 10:00:00		10.35	18.92	83.84	88.65
27-Nov-15 11:00:00	27-Nov-15 12:00:00		2.44	0.00	0.00	5.56	2.1	329.7		0.80	0.00	0.00	1.83		10.35	18.92	83.84	86.68	27-Nov-15 11:00:00		11.15	18.92	83.84	88.51
27-Nov-15 12:00:00	27-Nov-15 13:00:00		0.47	0.00	0.00	5.14	2.1	329.7		0.16	0.00	0.00	1.70		10.35	18.92	83.84	86.68	27-Nov-15 12:00:00		10.51	18.92	83.84	88.38
27-Nov-15 13:00:00	27-Nov-15 14:00:00		0.00	0.00	0.00	5.01	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	27-Nov-15 13:00:00		10.35	18.92	83.84	88.33
27-Nov-15 14:00:00	27-Nov-15 15:00:00		0.00	0.00	0.00	5.01	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	27-Nov-15 14:00:00		10.35	18.92	83.84	88.33
27-Nov-15 15:00:00	27-Nov-15 16:00:00		0.00	0.00	0.00	4.98	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	27-Nov-15 15:00:00		10.35	18.92	83.84	88.32
27-Nov-15 16:00:00	27-Nov-15 17:00:00		0.08	0.00	0.00	4.94	2.1	329.7		0.03	0.00	0.00	1.63		10.35	18.92	83.84	86.68	27-Nov-15 16:00:00		10.38	18.92	83.84	88.31
27-Nov-15 17:00:00	27-Nov-15 18:00:00		0.67	0.00	0.00	4.79	2.1	329.7		0.22	0.00	0.00	1.58		10.35	18.92	83.84	86.68	27-Nov-15 17:00:00		10.57	18.92	83.84	88.26
27-Nov-15 18:00:00	27-Nov-15 19:00:00		1.33	0.00	0.00	4.95	2.1	329.7		0.44	0.00	0.00	1.63		10.35	18.92	83.84	86.68	27-Nov-15 18:00:00		10.79	18.92	83.84	88.31
27-Nov-15 19:00:00	27-Nov-15 20:00:00		2.00	0.00	0.00	5.17	2.1	329.7		0.66	0.00	0.00	1.70		10.35	18.92	83.84	86.68	27-Nov-15 19:00:00		11.01	18.92	83.84	88.38
27-Nov-15 20:00:00	27-Nov-15 21:00:00		1.22	0.00	0.00	5.39	2.1	329.7		0.40	0.00	0.00	1.78		10.35	18.92	83.84	86.68	27-Nov-15 20:00:00		10.75	18.92	83.84	88.46
27-Nov-15 21:00:00	27-Nov-15 22:00:00		1.01	0.00	0.00	5.58	2.1	329.7		0.33	0.00	0.00	1.84		10.35	18.92	83.84	86.68	27-Nov-15 21:00:00		10.68	18.92	83.84	88.52
27-Nov-15 22:00:00	27-Nov-15 23:00:00		2.06	0.00	0.00	5.70	2.1	329.7		0.68	0.00	0.00	1.88		10.35	18.92	83.84	86.68	27-Nov-15 22:00:00		11.03	18.92	83.84	88.56
27-Nov-15 23:00:00	28-Nov-15 00:00:00		1.21	0.00	0.00	5.83	2.1	329.7		0.40	0.00	0.00	1.92		10.35	18.92	83.84	86.68	27-Nov-15 23:00:00		10.75	18.92	83.84	88.60
28-Nov-15 00:00:00	28-Nov-15 01:00:00		0.00	0.00	0.00	5.95	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	28-Nov-15 00:00:00		10.35	18.92	83.84	88.64
28-Nov-15 01:00:00	28-Nov-15 02:00:00		502.14	0.00	0.00	6.16	2.1	329.7		165.56	0.00	0.00	2.03		10.35	18.92	83.84	86.68	28-Nov-15 01:00:00		175.91	18.92	83.84	88.71
28-Nov-15 02:00:00	28-Nov-15 03:00:00		208.57	0.00	0.00	6.18	2.1	329.7		68.77	0.00	0.00	2.04		10.35	18.92	83.84	86.68	28-Nov-15 02:00:00		79.12	18.92	83.84	88.72
28-Nov-15 03:00:00	28-Nov-15 04:00:00		2.12	0.00	0.00	6.18	2.1	329.7		0.70	0.00	0.00	2.04		10.35	18.92	83.84	86.68	28-Nov-15 03:00:00		11.05	18.92	83.84	88.72
28-Nov-15 04:00:00	28-Nov-15 05:00:00		0.22	0.00	0.00	6.17	2.1	329.7		0.07	0.00	0.00	2.03		10.35	18.92	83.84	86.68	28-Nov-15 04:00:00		10.42	18.92	83.84	88.71
28-Nov-15 05:00:00	28-Nov-15 06:00:00		3.15	0.00	0.00	6.27	2.1	329.7		1.04	0.00	0.00	2.07		10.35	18.92	83.84	86.68	28-Nov-15 05:00:00		11.39	18.92	83.84	88.75
28-Nov-15 06:00:00	28-Nov-15 07:00:00		0.00	0.00	0.00	6.32	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	28-Nov-15 06:00:00		10.35	18.92	83.84	88.76
28-Nov-15 07:00:00	28-Nov-15 08:00:00		0.00	265.75	0.00	6.35	2.1	329.7		0.00	87.62	0.00	2.09		10.35	18.92	83.84	86.68	28-Nov-15 07:00:00		10.35	106.54	83.84	88.77
28-Nov-15 08:00:00	28-Nov-15 09:00:00		0.00	739.59	0.00	6.37	2.1	329.7		0.00	243.84	0.00	2.10		10.35	18.92	83.84	86.68	28-Nov-15 08:00:00		10.35	262.76	83.84	88.78
28-Nov-15 09:00:00	28-Nov-15 10:00:00		0.00	893.74	0.00	6.29	2.1	329.7		0.00	294.66	0.00	2.07		10.35	18.92	83.84	86.68	28-Nov-15 09:00:00		10.35	313.58	83.84	88.75
28-Nov-15 10:00:00	28-Nov-15 11:00:00		1.72	1,130.49	0.00	5.92	2.1	329.7		0.57	372.72	0.00	1.95		10.35	18.92	83.84	86.68	28-Nov-15 10:00:00		10.92	391.64	83.84	88.63
28-Nov-15 11:00:00	28-Nov-15 12:00:00		0.00	1,116.67	0.00	5.53	2.1	329.7		0.00	368.17	0.00	1.82		10.35	18.92	83.84	86.68	28-Nov-15 11:00:00		10.35	387.09	83.84	88.50
28-Nov-15 12:00:00	28-Nov-15 13:00:00		0.00	1,213.79	0.00	5.15	2.1	329.7		0.00	400.19	0.00	1.70		10.35	18.92	83.84	86.68	28-Nov-15 12:00:00		10.35	419.11	83.84	88.38
28-Nov-15 13:00:00	28-Nov-15 14:00:00		0.00	1,215.23	0.00	4.73	2.1	329.7		0.00	400.66	0.00	1.56		10.35	18.92	83.84	86.68	28-Nov-15 13:00:00		10.35	419.58	83.84	88.24
28-Nov-15 14:00:00	28-Nov-15 15:00:00		0.00	1,220.19	0.00	4.67	2.1	329.7		0.00	402.30	0.00	1.54		10.35	18.92	83.84	86.68	28-Nov-15 14:00:00		10.35	421.22	83.84	88.22
28-Nov-15 15:00:00	28-Nov-15 16:00:00		0.00	1,220.73	0.00	4.66	2.1	329.7		0.00	402.48	0.00	1.54		10.35	18.92	83.84	86.68	28-Nov-15 15:00:00		10.35	421.40	83.84	88.22
28-Nov-15 16:00:00	28-Nov-15 17:00:00		0.00	1,222.36	0.00	4.65	2.1	329.7		0.00	403.01	0.00	1.53		10.35	18.92	83.84	86.68	28-Nov-15 16:00:00		10.35	421.93	83.84	88.21
28-Nov-15 17:00:00	28-Nov-15 18:00:00		0.00	1,225.25	0.00	4.68	2.1	329.7		0.00	403.96	0.00	1.54		10.35	18.92	83.84	86.68	28-Nov-15 17:00:00		10.35	422.88	83.84	88.22
28-Nov-15 18:00:00	28-Nov-15 19:00:00		0.00	1,224.20	0.00	4.81	2.1	329.7		0.00	403.62	0.00	1.59		10.35	18.92	83.84	86.68	28-Nov-15 18:00:00		10.35	422.54	83.84	88.27
28-Nov-15 19:00:00	28-Nov-15 20:00:00		0.00	1,129.84	0.00	4.94	2.1	329.7		0.00	372.51	0.00	1.63		10.35	18.92	83.84	86.68	28-Nov-15 19:00:00		10.35	391.43	83.84	88.31
28-Nov-15 20:00:00	28-Nov-15 21:00:00		141.61	1,204.17	0.00	5.07	2.1	329.7		46.69	397.01	0.00	1.67		10.35	18.92	83.84	86.68	28-Nov-15 20:00:00		57.04	415.93	83.84	88.35
28-Nov-15 21:00:00	28-Nov-15 22:00:00		79.01	1,106.76	0.00	5.18	2.1	329.7		26.05	364.90	0.00	1.71		10.35	18.92	83.84	86.68	28-Nov-15 21:00:00		36.40	383.82	83.84	88.39
28-Nov-15 22:00:00	28-Nov-15 23:00:00		0.00	1,017.76	0.00	5.22	2.1	329.7		0.00	335.56	0.00	1.72		10.35	18.92	83.84	86.68	28-Nov-15 22:00:00		10.35	354.48	83.84	88.40
28-Nov-15 23:00:00	29-Nov-15 00:00:00		0.00	1,169.62	0.00	5.25	2.1	329.7		0.00	385.62	0.00	1.73		10.35	18.92	83.84	86.68	28-Nov-15 23:00:00		10.35	404.54	83.84	88.41
29-Nov-15 00:00:00	29-Nov-15 01:00:00		0.00	1,127.52	0.00	5.28	2.1	329.7		0.00	371.74	0.00	1.74		10.35	18.92	83.84	86.68	29-Nov-15 00:00:00		10.35	390.66	83.84	88.42
29-Nov-15 01:00:00	29-Nov-15 02:00:00		0.00	1,222.94	0.00	5.28	2.1	329.7		0.00	403.20	0.00	1.74		10.35	18.92	83.84	86.68	29-Nov-15 01:00:00		10.35	422.12	83.84	88.42
29-Nov-15 02:00:00	29-Nov-15 03:00:00		0.00	1,158.61	0.00	5.36	2.1	329.7		0.00	381.99	0.00	1.77		10.35	18.92	83.84	86.68	29-Nov-15 02:00:00		10.35	400.91	83.84	88.45
29-Nov-15 03:00:00	29-Nov-15 04:00:00		0.00	1,224.10	0.00	5.46	2.1	329.7		0.00	403.58	0.00	1.80		10.35	18.92	83.84	86.68	29-Nov-15 03:00:00		10.35	422.50	83.84	88.48
29-Nov-15 04:00:00	29-Nov-15 05:00:00		0.00	939.61	0.00	5.56	2.1	329.7		0.00	309.79	0.00	1.83		10.35	18.92	83.84	86.68	29-Nov-15 04:00:00		10.35	328.71	83.84	88.51
29-Nov-15 05:00:00	29-Nov-15 06:00:00		0.00	789.81	0.00	5.66	2.1	329.7		0.00	260.40	0.00	1.86		10.35	18.92	83.84	86.68	29-Nov-15 05:00:00		10.35	279.32	83.84	88.54
29-Nov-15 06:00:00	29-Nov-15 07:00:00		0.00	1,021.64	0.00	5.70	2.1	329.7		0.00	336.83	0.00	1.88		10.35	18.92	83.84	86.68	29-Nov-15 06:00:00		10.35	355.75	83.84	88.56
29-Nov-15 07:00:00	29-Nov-15 08:00:00		0.00	1,187.71	0.00	5.73	2.1	329.7		0.00	391.59	0.00	1.89		10.35	18.92	83.84	86.68	29-Nov-15 07:00:00		10.35	410.51	83.84	88.57
29-Nov-15 08:00:00	29-Nov-15 09:00:00		0.00	1,219.31	0.00	5.77	2.1	329.7		0.00	402.00	0.00	1.90		10.35	18.92	83.84	86.68	29-Nov-15 08:00:00		10.35	420.92	83.84	88.58
29-Nov-15 09:00:00	29-Nov-15 10:00:00		0.00	989.06	0.00	5.78	2.1	329.7		0.00	326.09	0.00	1.91		10.35	18.92	83.84	86.68	29-Nov-15 09:00:00		10.35	345.01	83.84	88.59
29-Nov-15 10:00:00	29-Nov-15 11:00:00		0.00	244.02	0.00	5.57	2.1	329.7		0.00	80.45	0.00	1.84		10.35	18.92	83.84	86.68	29-Nov-15 10:00:00		10.35	99.37	83.84	88.52
29-Nov-15 11:00:00	29-Nov-15 12:00:00		0.00	0.00	0.00	5.32	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	29-Nov-15 11:00:00		10.35	18.92	83.84	88.43
29-Nov-15 12:00:00	29-Nov-15 13:00:00		0.00	0.00	0.00	5.07	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	29-Nov-15 12:00:00		10.35	18.92	83.84	88.35
29-Nov-15 13:00:00	29-Nov-15 14:00:00		0.00	0.00	0.00	4.76	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	29-Nov-15 13:00:00		10.35	18.92	83.84	88.25
29-Nov-15 14:00:00	29-Nov-15 15:00:00		0.00	0.00	0.00	4.77	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	29-Nov-15 14:00:00		10.35	18.92	83.84	88.25
29-Nov-15 15:00:00	29-Nov-15 16:00:00		0.00	0.00	0.00	4.85	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	29-Nov-15 15:00:00		10.35	18.92	83.84	88.28
29-Nov-15 16:00:00	29-Nov-15 17:00:00		0.00	0.00	0.00	4.93	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	29-Nov-15 16:00:00		10.35	18.92	83.84	88.30
29-Nov-15 17:00:00	29-Nov-15 18:00:00		0.00	0.00	0.00	4.96	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	29-Nov-15 17:00:00		10.35	18.92	83.84	88.32
29-Nov-15 18:00:00	29-Nov-15 19:00:00		0.00	0.00	0.00	5.14	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	29-Nov-15 18:00:00		10.35	18.92	83.84	88.38
29-Nov-15 19:00:00	29-Nov-15 20:00:00		0.00	0.00	0.00	5.36	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	29-Nov-15 19:00:00		10.35	18.92	83.84	88.45
29-Nov-15 20:00:00	29-Nov-15 21:00:00		0.00	0.00	0.00	5.58	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	29-Nov-15 20:00:00		10.35	18.92	83.84	88.52
29-Nov-15 21:00:00	29-Nov-15 22:00:00		0.00	0.00	0.00	5.68	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	29-Nov-15 21:00:00		10.35	18.92	83.84	88.55
29-Nov-15 22:00:00	29-Nov-15 23:00:00		0.00	0.00	0.00	5.75	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	29-Nov-15 22:00:00		10.35	18.92	83.84	88.57
29-Nov-15 23:00:00	30-Nov-15 00:00:00		0.00	0.00	0.00	5.84	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	29-Nov-15 23:00:00		10.35	18.92	83.84	88.61
30-Nov-15 00:00:00	30-Nov-15 01:00:00		0.00	0.00	0.00	5.94	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	30-Nov-15 00:00:00		10.35	18.92	83.84	88.64
30-Nov-15 01:00:00	30-Nov-15 02:00:00		0.00	0.00	0.00	6.14	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	30-Nov-15 01:00:00		10.35	18.92	83.84	88.71
30-Nov-15 02:00:00	30-Nov-15 03:00:00		0.00	0.00	0.00	6.24	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	30-Nov-15 02:00:00		10.35	18.92	83.84	88.74
30-Nov-15 03:00:00	30-Nov-15 04:00:00		0.00	0.00	0.00	6.28	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	30-Nov-15 03:00:00		10.35	18.92	83.84	88.75
30-Nov-15 04:00:00	30-Nov-15 05:00:00		0.00	0.00	0.00	6.33	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	30-Nov-15 04:00:00		10.35	18.92	83.84	88.77
30-Nov-15 05:00:00	30-Nov-15 06:00:00		0.00	0.00	0.00	6.45	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	30-Nov-15 05:00:00		10.35	18.92	83.84	88.81
30-Nov-15 06:00:00	30-Nov-15 07:00:00		0.00	0.00	0.00	6.50	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	30-Nov-15 06:00:00		10.35	18.92	83.84	88.82
30-Nov-15 07:00:00	30-Nov-15 08:00:00		0.00	0.00	0.00	6.49	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	30-Nov-15 07:00:00		10.35	18.92	83.84	88.82
30-Nov-15 08:00:00	30-Nov-15 09:00:00		0.00	0.00	0.00	6.48	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	30-Nov-15 08:00:00		10.35	18.92	83.84	88.82
30-Nov-15 09:00:00	30-Nov-15 10:00:00		0.00	0.00	0.00	6.50	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	30-Nov-15 09:00:00		10.35	18.92	83.84	88.82
30-Nov-15 10:00:00	30-Nov-15 11:00:00		0.00	0.00	0.00	6.50	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	30-Nov-15 10:00:00		10.35	18.92	83.84	88.82
30-Nov-15 11:00:00	30-Nov-15 12:00:00		0.08	0.00	0.00	6.49	2.1	329.7		0.03	0.00	0.00	2.14		10.35	18.92	83.84	86.68	30-Nov-15 11:00:00		10.38	18.92	83.84	88.82
30-Nov-15 12:00:00	30-Nov-15 13:00:00		0.00	0.00	0.00	6.49	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	30-Nov-15 12:00:00		10.35	18.92	83.84	88.82
30-Nov-15 13:00:00	30-Nov-15 14:00:00		0.00	0.00	0.00	6.41	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	30-Nov-15 13:00:00		10.35	18.92	83.84	88.79
30-Nov-15 14:00:00	30-Nov-15 15:00:00		0.00	0.00	0.00	6.38	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	30-Nov-15 14:00:00		10.35	18.92	83.84	88.78
30-Nov-15 15:00:00	30-Nov-15 16:00:00		0.00	589.83	0.00	6.39	2.1	329.7		0.00	194.47	0.00	2.11		10.35	18.92	83.84	86.68	30-Nov-15 15:00:00		10.35	213.39	83.84	88.79
30-Nov-15 16:00:00	30-Nov-15 17:00:00		0.00	564.12	0.00	6.39	2.1	329.7		0.00	185.99	0.00	2.11		10.35	18.92	83.84	86.68	30-Nov-15 16:00:00		10.35	204.91	83.84	88.79
30-Nov-15 17:00:00	30-Nov-15 18:00:00		0.00	494.20	0.00	6.56	2.1	329.7		0.00	162.94	0.00	2.16		10.35	18.92	83.84	86.68	30-Nov-15 17:00:00		10.35	181.86	83.84	88.84
30-Nov-15 18:00:00	30-Nov-15 19:00:00		0.00	446.58	0.00	6.71	2.1	329.7		0.00	147.24	0.00	2.21		10.35	18.92	83.84	86.68	30-Nov-15 18:00:00		10.35	166.16	83.84	88.89
30-Nov-15 19:00:00	30-Nov-15 20:00:00		0.00	445.11	0.00	6.78	2.1	329.7		0.00	146.75	0.00	2.23		10.35	18.92	83.84	86.68	30-Nov-15 19:00:00		10.35	165.67	83.84	88.91
30-Nov-15 20:00:00	30-Nov-15 21:00:00		0.00	446.00	0.00	6.84	2.1	329.7		0.00	147.05	0.00	2.26		10.35	18.92	83.84	86.68	30-Nov-15 20:00:00		10.35	165.97	83.84	88.94
30-Nov-15 21:00:00	30-Nov-15 22:00:00		0.00	449.62	0.00	6.97	2.1	329.7		0.00	148.24	0.00	2.30		10.35	18.92	83.84	86.68	30-Nov-15 21:00:00		10.35	167.16	83.84	88.98
30-Nov-15 22:00:00	30-Nov-15 23:00:00		0.00	450.74	0.00	7.10	2.1	329.7		0.00	148.61	0.00	2.34		10.35	18.92	83.84	86.68	30-Nov-15 22:00:00		10.35	167.53	83.84	89.02
30-Nov-15 23:00:00	01-Dec-15 00:00:00		0.00	464.74	0.00	7.20	2.1	329.7		0.00	153.23	0.00	2.38		10.35	18.92	83.84	86.68	30-Nov-15 23:00:00		10.35	172.15	83.84	89.06
01-Dec-15 00:00:00

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
02-Dec-15 22:00:00	02-Dec-15 23:00:00		0.00	0.00	0.00	6.69	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	02-Dec-15 22:00:00		**10.35**	**18.92**	**83.84**	**88.88**
02-Dec-15 23:00:00	03-Dec-15 00:00:00		0.00	0.00	0.00	6.78	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	02-Dec-15 23:00:00		**10.35**	**18.92**	**83.84**	**88.92**
03-Dec-15 00:00:00	03-Dec-15 01:00:00		0.00	0.00	0.00	6.87	2.1	329.7		0.00	0.00	0.00	2.27		10.35	18.92	83.84	86.68	03-Dec-15 00:00:00		**10.35**	**18.92**	**83.84**	**88.95**
03-Dec-15 01:00:00	03-Dec-15 02:00:00		0.00	0.00	0.00	6.91	2.1	329.7		0.00	0.00	0.00	2.28		10.35	18.92	83.84	86.68	03-Dec-15 01:00:00		**10.35**	**18.92**	**83.84**	**88.96**
03-Dec-15 02:00:00	03-Dec-15 03:00:00		0.00	0.00	0.00	6.79	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	03-Dec-15 02:00:00		**10.35**	**18.92**	**83.84**	**88.92**
03-Dec-15 03:00:00	03-Dec-15 04:00:00		0.00	0.00	0.00	6.66	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	03-Dec-15 03:00:00		**10.35**	**18.92**	**83.84**	**88.88**
03-Dec-15 04:00:00	03-Dec-15 05:00:00		0.18	0.00	0.00	6.53	2.1	329.7		0.06	0.00	0.00	2.15		10.35	18.92	83.84	86.68	03-Dec-15 04:00:00		**10.41**	**18.92**	**83.84**	**88.83**
03-Dec-15 05:00:00	03-Dec-15 06:00:00		0.00	0.00	0.00	6.50	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	03-Dec-15 05:00:00		**10.35**	**18.92**	**83.84**	**88.82**
03-Dec-15 06:00:00	03-Dec-15 07:00:00		0.00	0.00	0.00	6.65	2.1	329.7		0.00	0.00	0.00	2.19		10.35	18.92	83.84	86.68	03-Dec-15 06:00:00		**10.35**	**18.92**	**83.84**	**88.87**
03-Dec-15 07:00:00	03-Dec-15 08:00:00		0.00	0.00	0.00	6.77	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	03-Dec-15 07:00:00		**10.35**	**18.92**	**83.84**	**88.91**
03-Dec-15 08:00:00	03-Dec-15 09:00:00		0.04	0.00	0.00	6.89	2.1	329.7		0.01	0.00	0.00	2.27		10.35	18.92	83.84	86.68	03-Dec-15 08:00:00		**10.36**	**18.92**	**83.84**	**88.95**
03-Dec-15 09:00:00	03-Dec-15 10:00:00		0.26	0.00	0.00	6.96	2.1	329.7		0.09	0.00	0.00	2.29		10.35	18.92	83.84	86.68	03-Dec-15 09:00:00		**10.44**	**18.92**	**83.84**	**88.97**
03-Dec-15 10:00:00	03-Dec-15 11:00:00		0.52	0.00	0.00	6.95	2.1	329.7		0.17	0.00	0.00	2.29		10.35	18.92	83.84	86.68	03-Dec-15 10:00:00		**10.52**	**18.92**	**83.84**	**88.97**
03-Dec-15 11:00:00	03-Dec-15 12:00:00		0.78	0.00	0.00	6.97	2.1	329.7		0.26	0.00	0.00	2.30		10.35	18.92	83.84	86.68	03-Dec-15 11:00:00		**10.61**	**18.92**	**83.84**	**88.98**
03-Dec-15 12:00:00	03-Dec-15 13:00:00		3.66	0.00	0.00	6.99	2.1	329.7		1.21	0.00	0.00	2.30		10.35	18.92	83.84	86.68	03-Dec-15 12:00:00		**11.56**	**18.92**	**83.84**	**88.98**
03-Dec-15 13:00:00	03-Dec-15 14:00:00		0.89	0.00	0.00	6.97	2.1	329.7		0.29	0.00	0.00	2.30		10.35	18.92	83.84	86.68	03-Dec-15 13:00:00		**10.64**	**18.92**	**83.84**	**88.98**
03-Dec-15 14:00:00	03-Dec-15 15:00:00		0.70	0.00	0.00	6.97	2.1	329.7		0.23	0.00	0.00	2.30		10.35	18.92	83.84	86.68	03-Dec-15 14:00:00		**10.58**	**18.92**	**83.84**	**88.98**
03-Dec-15 15:00:00	03-Dec-15 16:00:00		0.52	0.00	0.00	7.00	2.1	329.7		0.17	0.00	0.00	2.31		10.35	18.92	83.84	86.68	03-Dec-15 15:00:00		**10.52**	**18.92**	**83.84**	**88.99**
03-Dec-15 16:00:00	03-Dec-15 17:00:00		0.34	0.00	0.00	7.03	2.1	329.7		0.11	0.00	0.00	2.32		10.35	18.92	83.84	86.68	03-Dec-15 16:00:00		**10.46**	**18.92**	**83.84**	**89.00**
03-Dec-15 17:00:00	03-Dec-15 18:00:00		8.59	0.00	0.00	6.99	2.1	329.7		2.83	0.00	0.00	2.31		10.35	18.92	83.84	86.68	03-Dec-15 17:00:00		**13.18**	**18.92**	**83.84**	**88.99**
03-Dec-15 18:00:00	03-Dec-15 19:00:00		11.93	0.00	0.00	6.99	2.1	329.7		3.93	0.00	0.00	2.31		10.35	18.92	83.84	86.68	03-Dec-15 18:00:00		**14.28**	**18.92**	**83.84**	**88.99**
03-Dec-15 19:00:00	03-Dec-15 20:00:00		2.95	0.00	0.00	7.05	2.1	329.7		0.97	0.00	0.00	2.32		10.35	18.92	83.84	86.68	03-Dec-15 19:00:00		**11.32**	**18.92**	**83.84**	**89.00**
03-Dec-15 20:00:00	03-Dec-15 21:00:00		2.36	0.00	0.00	7.10	2.1	329.7		0.78	0.00	0.00	2.34		10.35	18.92	83.84	86.68	03-Dec-15 20:00:00		**11.13**	**18.92**	**83.84**	**89.02**
03-Dec-15 21:00:00	03-Dec-15 22:00:00		5.84	0.00	0.00	7.20	2.1	329.7		1.92	0.00	0.00	2.37		10.35	18.92	83.84	86.68	03-Dec-15 21:00:00		**12.27**	**18.92**	**83.84**	**89.05**
03-Dec-15 22:00:00	03-Dec-15 23:00:00		3.33	0.00	0.00	7.28	2.1	329.7		1.10	0.00	0.00	2.40		10.35	18.92	83.84	86.68	03-Dec-15 22:00:00		**11.45**	**18.92**	**83.84**	**89.08**
03-Dec-15 23:00:00	04-Dec-15 00:00:00		7.29	0.00	0.00	7.31	2.1	329.7		2.40	0.00	0.00	2.41		10.35	18.92	83.84	86.68	03-Dec-15 23:00:00		**12.75**	**18.92**	**83.84**	**89.09**
04-Dec-15 00:00:00	04-Dec-15 01:00:00		11.71	0.00	0.00	7.34	2.1	329.7		3.86	0.00	0.00	2.42		10.35	18.92	83.84	86.68	04-Dec-15 00:00:00		**14.21**	**18.92**	**83.84**	**89.10**
04-Dec-15 01:00:00	04-Dec-15 02:00:00		3.29	0.00	0.00	7.49	2.1	329.7		1.09	0.00	0.00	2.47		10.35	18.92	83.84	86.68	04-Dec-15 01:00:00		**11.44**	**18.92**	**83.84**	**89.15**
04-Dec-15 02:00:00	04-Dec-15 03:00:00		1.60	0.00	0.00	7.66	2.1	329.7		0.53	0.00	0.00	2.53		10.35	18.92	83.84	86.68	04-Dec-15 02:00:00		**10.88**	**18.92**	**83.84**	**89.21**
04-Dec-15 03:00:00	04-Dec-15 04:00:00		3.11	0.00	0.00	7.74	2.1	329.7		1.03	0.00	0.00	2.55		10.35	18.92	83.84	86.68	04-Dec-15 03:00:00		**11.38**	**18.92**	**83.84**	**89.23**
04-Dec-15 04:00:00	04-Dec-15 05:00:00		4.18	0.00	0.00	7.82	2.1	329.7		1.38	0.00	0.00	2.58		10.35	18.92	83.84	86.68	04-Dec-15 04:00:00		**11.73**	**18.92**	**83.84**	**89.26**
04-Dec-15 05:00:00	04-Dec-15 06:00:00		8.89	0.00	0.00	7.82	2.1	329.7		2.93	0.00	0.00	2.58		10.35	18.92	83.84	86.68	04-Dec-15 05:00:00		**13.28**	**18.92**	**83.84**	**89.26**
04-Dec-15 06:00:00	04-Dec-15 07:00:00		5.18	0.00	0.00	7.75	2.1	329.7		1.71	0.00	0.00	2.55		10.35	18.92	83.84	86.68	04-Dec-15 06:00:00		**12.06**	**18.92**	**83.84**	**89.23**
04-Dec-15 07:00:00	04-Dec-15 08:00:00		0.00	0.00	0.00	7.71	2.1	329.7		0.00	0.00	0.00	2.54		10.35	18.92	83.84	86.68	04-Dec-15 07:00:00		**10.35**	**18.92**	**83.84**	**89.22**
04-Dec-15 08:00:00	04-Dec-15 09:00:00		1.43	0.00	0.00	7.67	2.1	329.7		0.47	0.00	0.00	2.53		10.35	18.92	83.84	86.68	04-Dec-15 08:00:00		**10.82**	**18.92**	**83.84**	**89.21**
04-Dec-15 09:00:00	04-Dec-15 10:00:00		1.16	0.00	0.00	7.70	2.1	329.7		0.38	0.00	0.00	2.54		10.35	18.92	83.84	86.68	04-Dec-15 09:00:00		**10.73**	**18.92**	**83.84**	**89.22**
04-Dec-15 10:00:00	04-Dec-15 11:00:00		0.74	0.00	0.00	7.54	2.1	329.7		0.25	0.00	0.00	2.49		10.35	18.92	83.84	86.68	04-Dec-15 10:00:00		**10.60**	**18.92**	**83.84**	**89.17**
04-Dec-15 11:00:00	04-Dec-15 12:00:00		0.33	0.00	0.00	7.25	2.1	329.7		0.11	0.00	0.00	2.39		10.35	18.92	83.84	86.68	04-Dec-15 11:00:00		**10.46**	**18.92**	**83.84**	**89.07**
04-Dec-15 12:00:00	04-Dec-15 13:00:00		0.02	0.00	0.00	6.96	2.1	329.7		0.01	0.00	0.00	2.29		10.35	18.92	83.84	86.68	04-Dec-15 12:00:00		**10.36**	**18.92**	**83.84**	**88.97**
04-Dec-15 13:00:00	04-Dec-15 14:00:00		0.00	0.00	0.00	6.70	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	04-Dec-15 13:00:00		**10.35**	**18.92**	**83.84**	**88.89**
04-Dec-15 14:00:00	04-Dec-15 15:00:00		1.34	0.00	0.00	6.56	2.1	329.7		0.44	0.00	0.00	2.16		10.35	18.92	83.84	86.68	04-Dec-15 14:00:00		**10.79**	**18.92**	**83.84**	**88.84**
04-Dec-15 15:00:00	04-Dec-15 16:00:00		0.85	0.00	0.00	6.44	2.1	329.7		0.28	0.00	0.00	2.12		10.35	18.92	83.84	86.68	04-Dec-15 15:00:00		**10.63**	**18.92**	**83.84**	**88.80**
04-Dec-15 16:00:00	04-Dec-15 17:00:00		0.57	0.00	0.00	6.32	2.1	329.7		0.19	0.00	0.00	2.08		10.35	18.92	83.84	86.68	04-Dec-15 16:00:00		**10.54**	**18.92**	**83.84**	**88.76**
04-Dec-15 17:00:00	04-Dec-15 18:00:00		0.28	0.00	0.00	6.24	2.1	329.7		0.09	0.00	0.00	2.06		10.35	18.92	83.84	86.68	04-Dec-15 17:00:00		**10.44**	**18.92**	**83.84**	**88.74**
04-Dec-15 18:00:00	04-Dec-15 19:00:00		0.03	0.00	0.00	6.37	2.1	329.7		0.01	0.00	0.00	2.10		10.35	18.92	83.84	86.68	04-Dec-15 18:00:00		**10.36**	**18.92**	**83.84**	**88.78**
04-Dec-15 19:00:00	04-Dec-15 20:00:00		0.27	0.00	0.00	6.54	2.1	329.7		0.09	0.00	0.00	2.15		10.35	18.92	83.84	86.68	04-Dec-15 19:00:00		**10.44**	**18.92**	**83.84**	**88.83**
04-Dec-15 20:00:00	04-Dec-15 21:00:00		4.89	0.00	0.00	6.70	2.1	329.7		1.61	0.00	0.00	2.21		10.35	18.92	83.84	86.68	04-Dec-15 20:00:00		**11.96**	**18.92**	**83.84**	**88.89**
04-Dec-15 21:00:00	04-Dec-15 22:00:00		18.43	0.00	0.00	6.90	2.1	329.7		6.08	0.00	0.00	2.27		10.35	18.92	83.84	86.68	04-Dec-15 21:00:00		**16.43**	**18.92**	**83.84**	**88.95**
04-Dec-15 22:00:00	04-Dec-15 23:00:00		3.78	0.00	0.00	7.05	2.1	329.7		1.24	0.00	0.00	2.32		10.35	18.92	83.84	86.68	04-Dec-15 22:00:00		**11.59**	**18.92**	**83.84**	**89.00**
04-Dec-15 23:00:00	05-Dec-15 00:00:00		1.83	0.00	0.00	7.14	2.1	329.7		0.60	0.00	0.00	2.36		10.35	18.92	83.84	86.68	04-Dec-15 23:00:00		**10.95**	**18.92**	**83.84**	**89.04**
05-Dec-15 00:00:00	05-Dec-15 01:00:00		1.37	0.00	0.00	7.24	2.1	329.7		0.45	0.00	0.00	2.39		10.35	18.92	83.84	86.68	05-Dec-15 00:00:00		**10.80**	**18.92**	**83.84**	**89.07**
05-Dec-15 01:00:00	05-Dec-15 02:00:00		0.00	0.00	0.00	7.34	2.1	329.7		0.00	0.00	0.00	2.42		10.35	18.92	83.84	86.68	05-Dec-15 01:00:00		**10.35**	**18.92**	**83.84**	**89.10**
05-Dec-15 02:00:00	05-Dec-15 03:00:00		0.00	0.00	0.00	7.38	2.1	329.7		0.00	0.00	0.00	2.43		10.35	18.92	83.84	86.68	05-Dec-15 02:00:00		**10.35**	**18.92**	**83.84**	**89.11**
05-Dec-15 03:00:00	05-Dec-15 04:00:00		0.00	0.00	0.00	7.37	2.1	329.7		0.00	0.00	0.00	2.43		10.35	18.92	83.84	86.68	05-Dec-15 03:00:00		**10.35**	**18.92**	**83.84**	**89.11**
05-Dec-15 04:00:00	05-Dec-15 05:00:00		0.00	0.00	0.00	7.37	2.1	329.7		0.00	0.00	0.00	2.43		10.35	18.92	83.84	86.68	05-Dec-15 04:00:00		**10.35**	**18.92**	**83.84**	**89.11**
05-Dec-15 05:00:00	05-Dec-15 06:00:00		0.00	0.00	0.00	7.44	2.1	329.7		0.00	0.00	0.00	2.45		10.35	18.92	83.84	86.68	05-Dec-15 05:00:00		**10.35**	**18.92**	**83.84**	**89.13**
05-Dec-15 06:00:00	05-Dec-15 07:00:00		0.00	0.00	0.00	7.53	2.1	329.7		0.00	0.00	0.00	2.48		10.35	18.92	83.84	86.68	05-Dec-15 06:00:00		**10.35**	**18.92**	**83.84**	**89.16**
05-Dec-15 07:00:00	05-Dec-15 08:00:00		0.00	0.00	0.00	7.54	2.1	329.7		0.00	0.00	0.00	2.49		10.35	18.92	83.84	86.68	05-Dec-15 07:00:00		**10.35**	**18.92**	**83.84**	**89.17**
05-Dec-15 08:00:00	05-Dec-15 09:00:00		0.00	0.00	0.00	7.55	2.1	329.7		0.00	0.00	0.00	2.49		10.35	18.92	83.84	86.68	05-Dec-15 08:00:00		**10.35**	**18.92**	**83.84**	**89.17**
05-Dec-15 09:00:00	05-Dec-15 10:00:00		0.00	0.00	7.32	37.60	2.1	329.7		0.00	0.00	2.41	12.40		10.35	18.92	83.84	86.68	05-Dec-15 09:00:00		**10.35**	**18.92**	**86.25**	**99.08**
05-Dec-15 10:00:00	05-Dec-15 11:00:00		0.19	0.00	0.00	202.24	2.1	329.7		0.06	0.00	0.00	66.68		10.35	18.92	83.84	86.68	05-Dec-15 10:00:00		**10.41**	**18.92**	**83.84**	**153.36**
05-Dec-15 11:00:00	05-Dec-15 12:00:00		1.48	0.00	0.00	370.19	2.1	329.7		0.49	0.00	0.00	122.05		10.35	18.92	83.84	86.68	05-Dec-15 11:00:00		**10.84**	**18.92**	**83.84**	**208.73**
05-Dec-15 12:00:00	05-Dec-15 13:00:00		0.98	0.00	0.00	167.60	2.1	329.7		0.32	0.00	0.00	55.26		10.35	18.92	83.84	86.68	05-Dec-15 12:00:00		**10.67**	**18.92**	**83.84**	**141.94**
05-Dec-15 13:00:00	05-Dec-15 14:00:00		0.00	0.00	0.00	5.86	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	05-Dec-15 13:00:00		**10.35**	**18.92**	**83.84**	**88.61**
05-Dec-15 14:00:00	05-Dec-15 15:00:00		5.20	36.82	0.00	5.82	2.1	329.7		1.71	12.14	0.00	1.92		10.35	18.92	83.84	86.68	05-Dec-15 14:00:00		**12.06**	**31.06**	**83.84**	**88.60**
05-Dec-15 15:00:00	05-Dec-15 16:00:00		154.54	641.95	0.00	5.78	2.1	329.7		50.95	211.65	0.00	1.91		10.35	18.92	83.84	86.68	05-Dec-15 15:00:00		**61.30**	**230.57**	**83.84**	**88.59**
05-Dec-15 16:00:00	05-Dec-15 17:00:00		263.72	645.59	0.00	5.88	2.1	329.7		86.95	212.85	0.00	1.94		10.35	18.92	83.84	86.68	05-Dec-15 16:00:00		**97.30**	**231.77**	**83.84**	**88.62**
05-Dec-15 17:00:00	05-Dec-15 18:00:00		693.33	543.12	0.00	6.05	2.1	329.7		228.59	179.07	0.00	1.99		10.35	18.92	83.84	86.68	05-Dec-15 17:00:00		**238.94**	**197.99**	**83.84**	**88.67**
05-Dec-15 18:00:00	05-Dec-15 19:00:00		661.26	330.16	0.00	6.19	2.1	329.7		218.02	108.85	0.00	2.04		10.35	18.92	83.84	86.68	05-Dec-15 18:00:00		**228.37**	**127.77**	**83.84**	**88.72**
05-Dec-15 19:00:00	05-Dec-15 20:00:00		682.25	376.10	0.00	6.34	2.1	329.7		224.94	124.00	0.00	2.09		10.35	18.92	83.84	86.68	05-Dec-15 19:00:00		**235.29**	**142.92**	**83.84**	**88.77**
05-Dec-15 20:00:00	05-Dec-15 21:00:00		682.58	725.99	0.00	6.37	2.1	329.7		225.05	239.36	0.00	2.10		10.35	18.92	83.84	86.68	05-Dec-15 20:00:00		**235.40**	**258.28**	**83.84**	**88.78**
05-Dec-15 21:00:00	05-Dec-15 22:00:00		819.03	257.71	0.00	6.53	2.1	329.7		270.03	84.97	0.00	2.15		10.35	18.92	83.84	86.68	05-Dec-15 21:00:00		**280.38**	**103.89**	**83.84**	**88.83**
05-Dec-15 22:00:00	05-Dec-15 23:00:00		1,128.65	0.00	0.00	6.74	2.1	329.7		372.12	0.00	0.00	2.22		10.35	18.92	83.84	86.68	05-Dec-15 22:00:00		**382.47**	**18.92**	**83.84**	**88.90**
05-Dec-15 23:00:00	06-Dec-15 00:00:00		1,112.96	0.00	0.00	6.94	2.1	329.7		366.94	0.00	0.00	2.29		10.35	18.92	83.84	86.68	05-Dec-15 23:00:00		**377.29**	**18.92**	**83.84**	**88.97**
06-Dec-15 00:00:00	06-Dec-15 01:00:00		1,074.97	0.00	0.00	7.10	2.1	329.7		354.42	0.00	0.00	2.34		10.35	18.92	83.84	86.68	06-Dec-15 00:00:00		**364.77**	**18.92**	**83.84**	**89.02**
06-Dec-15 01:00:00	06-Dec-15 02:00:00		1,011.76	0.00	0.00	7.18	2.1	329.7		333.58	0.00	0.00	2.37		10.35	18.92	83.84	86.68	06-Dec-15 01:00:00		**343.93**	**18.92**	**83.84**	**89.05**
06-Dec-15 02:00:00	06-Dec-15 03:00:00		1,111.09	0.00	0.00	7.27	2.1	329.7		366.33	0.00	0.00	2.40		10.35	18.92	83.84	86.68	06-Dec-15 02:00:00		**376.68**	**18.92**	**83.84**	**89.08**
06-Dec-15 03:00:00	06-Dec-15 04:00:00		1,110.98	0.00	0.00	7.36	2.1	329.7		366.29	0.00	0.00	2.43		10.35	18.92	83.84	86.68	06-Dec-15 03:00:00		**376.64**	**18.92**	**83.84**	**89.11**
06-Dec-15 04:00:00	06-Dec-15 05:00:00		410.27	0.00	0.00	7.36	2.1	329.7		135.27	0.00	0.00	2.43		10.35	18.92	83.84	86.68	06-Dec-15 04:00:00		**145.62**	**18.92**	**83.84**	**89.11**
06-Dec-15 05:00:00	06-Dec-15 06:00:00		100.75	0.00	0.00	7.40	2.1	329.7		33.22	0.00	0.00	2.44		10.35	18.92	83.84	86.68	06-Dec-15 05:00:00		**43.57**	**18.92**	**83.84**	**89.12**
06-Dec-15 06:00:00	06-Dec-15 07:00:00		0.00	0.00	0.00	7.46	2.1	329.7		0.00	0.00	0.00	2.46		10.35	18.92	83.84	86.68	06-Dec-15 06:00:00		**10.35**	**18.92**	**83.84**	**89.14**
06-Dec-15 07:00:00	06-Dec-15 08:00:00		0.00	0.00	0.00	7.52	2.1	329.7		0.00	0.00	0.00	2.48		10.35	18.92	83.84	86.68	06-Dec-15 07:00:00		**10.35**	**18.92**	**83.84**	**89.16**
06-Dec-15 08:00:00	06-Dec-15 09:00:00		0.00	0.00	0.00	7.59	2.1	329.7		0.00	0.00	0.00	2.50		10.35	18.92	83.84	86.68	06-Dec-15 08:00:00		**10.35**	**18.92**	**83.84**	**89.18**
06-Dec-15 09:00:00	06-Dec-15 10:00:00		0.00	0.00	0.00	7.28	2.1	329.7		0.00	0.00	0.00	2.40		10.35	18.92	83.84	86.68	06-Dec-15 09:00:00		**10.35**	**18.92**	**83.84**	**89.08**
06-Dec-15 10:00:00	06-Dec-15 11:00:00		0.00	0.00	0.00	6.92	2.1	329.7		0.00	0.00	0.00	2.28		10.35	18.92	83.84	86.68	06-Dec-15 10:00:00		**10.35**	**18.92**	**83.84**	**88.96**
06-Dec-15 11:00:00	06-Dec-15 12:00:00		0.73	0.00	0.00	6.55	2.1	329.7		0.24	0.00	0.00	2.16		10.35	18.92	83.84	86.68	06-Dec-15 11:00:00		**10.59**	**18.92**	**83.84**	**88.84**
06-Dec-15 12:00:00	06-Dec-15 13:00:00		0.60	0.00	0.00	6.23	2.1	329.7		0.20	0.00	0.00	2.05		10.35	18.92	83.84	86.68	06-Dec-15 12:00:00		**10.55**	**18.92**	**83.84**	**88.73**
06-Dec-15 13:00:00	06-Dec-15 14:00:00		1.44	0.00	0.00	6.07	2.1	329.7		0.48	0.00	0.00	2.00		10.35	18.92	83.84	86.68	06-Dec-15 13:00:00		**10.83**	**18.92**	**83.84**	**88.68**
06-Dec-15 14:00:00	06-Dec-15 15:00:00		2.82	0.00	0.00	5.92	2.1	329.7		0.93	0.00	0.00	1.95		10.35	18.92	83.84	86.68	06-Dec-15 14:00:00		**11.28**	**18.92**	**83.84**	**88.63**
06-Dec-15 15:00:00	06-Dec-15 16:00:00		0.52	0.00	0.00	5.77	2.1	329.7		0.17	0.00	0.00	1.90		10.35	18.92	83.84	86.68	06-Dec-15 15:00:00		**10.52**	**18.92**	**83.84**	**88.58**
06-Dec-15 16:00:00	06-Dec-15 17:00:00		0.00	0.00	0.00	5.87	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	06-Dec-15 16:00:00		**10.35**	**18.92**	**83.84**	**88.61**
06-Dec-15 17:00:00	06-Dec-15 18:00:00		0.00	0.00	0.00	5.94	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	06-Dec-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.64**
06-Dec-15 18:00:00	06-Dec-15 19:00:00		0.00	0.00	0.00	5.94	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	06-Dec-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.64**
06-Dec-15 19:00:00	06-Dec-15 20:00:00		0.92	0.

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
08-Dec-15 17:00:00	08-Dec-15 18:00:00		0.00	0.00	0.00	6.00	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	08-Dec-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.66**
08-Dec-15 18:00:00	08-Dec-15 19:00:00		0.00	0.00	0.00	6.33	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	08-Dec-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.77**
08-Dec-15 19:00:00	08-Dec-15 20:00:00		0.00	0.00	0.00	6.66	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	08-Dec-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.88**
08-Dec-15 20:00:00	08-Dec-15 21:00:00		0.00	0.00	0.00	6.92	2.1	329.7		0.00	0.00	0.00	2.28		10.35	18.92	83.84	86.68	08-Dec-15 20:00:00		**10.35**	**18.92**	**83.84**	**88.96**
08-Dec-15 21:00:00	08-Dec-15 22:00:00		0.00	0.00	0.00	7.00	2.1	329.7		0.00	0.00	0.00	2.31		10.35	18.92	83.84	86.68	08-Dec-15 21:00:00		**10.35**	**18.92**	**83.84**	**88.99**
08-Dec-15 22:00:00	08-Dec-15 23:00:00		0.00	0.00	0.00	7.07	2.1	329.7		0.00	0.00	0.00	2.33		10.35	18.92	83.84	86.68	08-Dec-15 22:00:00		**10.35**	**18.92**	**83.84**	**89.01**
08-Dec-15 23:00:00	09-Dec-15 00:00:00		0.00	0.00	0.00	7.14	2.1	329.7		0.00	0.00	0.00	2.35		10.35	18.92	83.84	86.68	08-Dec-15 23:00:00		**10.35**	**18.92**	**83.84**	**89.03**
09-Dec-15 00:00:00	09-Dec-15 01:00:00		0.00	0.00	0.00	7.01	2.1	329.7		0.00	0.00	0.00	2.31		10.35	18.92	83.84	86.68	09-Dec-15 00:00:00		**10.35**	**18.92**	**83.84**	**88.99**
09-Dec-15 01:00:00	09-Dec-15 02:00:00		0.00	0.00	0.00	7.01	2.1	329.7		0.00	0.00	0.00	2.31		10.35	18.92	83.84	86.68	09-Dec-15 01:00:00		**10.35**	**18.92**	**83.84**	**88.99**
09-Dec-15 02:00:00	09-Dec-15 03:00:00		0.00	0.00	0.00	7.11	2.1	329.7		0.00	0.00	0.00	2.35		10.35	18.92	83.84	86.68	09-Dec-15 02:00:00		**10.35**	**18.92**	**83.84**	**89.03**
09-Dec-15 03:00:00	09-Dec-15 04:00:00		0.00	0.00	0.00	7.22	2.1	329.7		0.00	0.00	0.00	2.38		10.35	18.92	83.84	86.68	09-Dec-15 03:00:00		**10.35**	**18.92**	**83.84**	**89.06**
09-Dec-15 04:00:00	09-Dec-15 05:00:00		0.00	0.00	0.00	7.20	2.1	329.7		0.00	0.00	0.00	2.37		10.35	18.92	83.84	86.68	09-Dec-15 04:00:00		**10.35**	**18.92**	**83.84**	**89.05**
09-Dec-15 05:00:00	09-Dec-15 06:00:00		0.00	0.00	0.00	7.15	2.1	329.7		0.00	0.00	0.00	2.36		10.35	18.92	83.84	86.68	09-Dec-15 05:00:00		**10.35**	**18.92**	**83.84**	**89.04**
09-Dec-15 06:00:00	09-Dec-15 07:00:00		0.00	0.00	0.00	7.14	2.1	329.7		0.00	0.00	0.00	2.35		10.35	18.92	83.84	86.68	09-Dec-15 06:00:00		**10.35**	**18.92**	**83.84**	**89.03**
09-Dec-15 07:00:00	09-Dec-15 08:00:00		0.00	0.00	0.00	7.14	2.1	329.7		0.00	0.00	0.00	2.35		10.35	18.92	83.84	86.68	09-Dec-15 07:00:00		**10.35**	**18.92**	**83.84**	**89.03**
09-Dec-15 08:00:00	09-Dec-15 09:00:00		0.00	0.00	0.00	7.13	2.1	329.7		0.00	0.00	0.00	2.35		10.35	18.92	83.84	86.68	09-Dec-15 08:00:00		**10.35**	**18.92**	**83.84**	**89.03**
09-Dec-15 09:00:00	09-Dec-15 10:00:00		0.00	0.00	0.00	6.96	2.1	329.7		0.00	0.00	0.00	2.29		10.35	18.92	83.84	86.68	09-Dec-15 09:00:00		**10.35**	**18.92**	**83.84**	**88.97**
09-Dec-15 10:00:00	09-Dec-15 11:00:00		0.00	0.00	0.00	6.75	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	09-Dec-15 10:00:00		**10.35**	**18.92**	**83.84**	**88.90**
09-Dec-15 11:00:00	09-Dec-15 12:00:00		0.00	0.00	0.00	6.53	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	09-Dec-15 11:00:00		**10.35**	**18.92**	**83.84**	**88.83**
09-Dec-15 12:00:00	09-Dec-15 13:00:00		0.00	0.00	0.00	6.28	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	09-Dec-15 12:00:00		**10.35**	**18.92**	**83.84**	**88.75**
09-Dec-15 13:00:00	09-Dec-15 14:00:00		0.00	0.00	0.00	6.13	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	09-Dec-15 13:00:00		**10.35**	**18.92**	**83.84**	**88.70**
09-Dec-15 14:00:00	09-Dec-15 15:00:00		53.19	0.00	0.00	6.03	2.1	329.7		17.54	0.00	0.00	1.99		10.35	18.92	83.84	86.68	09-Dec-15 14:00:00		**27.89**	**18.92**	**83.84**	**88.67**
09-Dec-15 15:00:00	09-Dec-15 16:00:00		346.73	56.11	0.00	5.94	2.1	329.7		114.32	18.50	0.00	1.96		10.35	18.92	83.84	86.68	09-Dec-15 15:00:00		**124.67**	**37.42**	**83.84**	**88.64**
09-Dec-15 16:00:00	09-Dec-15 17:00:00		434.05	253.47	0.00	5.88	2.1	329.7		143.11	83.57	0.00	1.94		10.35	18.92	83.84	86.68	09-Dec-15 16:00:00		**153.46**	**102.49**	**83.84**	**88.62**
09-Dec-15 17:00:00	09-Dec-15 18:00:00		951.31	553.29	0.00	6.03	2.1	329.7		313.65	182.42	0.00	1.99		10.35	18.92	83.84	86.68	09-Dec-15 17:00:00		**324.00**	**201.34**	**83.84**	**88.67**
09-Dec-15 18:00:00	09-Dec-15 19:00:00		1,107.82	1,327.32	0.00	6.21	2.1	329.7		365.25	437.62	0.00	2.05		10.35	18.92	83.84	86.68	09-Dec-15 18:00:00		**375.60**	**456.54**	**83.84**	**88.73**
09-Dec-15 19:00:00	09-Dec-15 20:00:00		1,104.10	1,337.27	0.00	6.39	2.1	329.7		364.02	440.90	0.00	2.11		10.35	18.92	83.84	86.68	09-Dec-15 19:00:00		**374.37**	**459.82**	**83.84**	**88.79**
09-Dec-15 20:00:00	09-Dec-15 21:00:00		1,117.83	1,346.13	0.00	6.52	2.1	329.7		368.55	443.82	0.00	2.15		10.35	18.92	83.84	86.68	09-Dec-15 20:00:00		**378.90**	**462.74**	**83.84**	**88.83**
09-Dec-15 21:00:00	09-Dec-15 22:00:00		1,121.82	1,360.81	0.00	6.71	2.1	329.7		369.86	448.66	0.00	2.21		10.35	18.92	83.84	86.68	09-Dec-15 21:00:00		**380.21**	**467.58**	**83.84**	**88.89**
09-Dec-15 22:00:00	09-Dec-15 23:00:00		1,135.86	1,348.48	0.00	6.94	2.1	329.7		374.49	444.59	0.00	2.29		10.35	18.92	83.84	86.68	09-Dec-15 22:00:00		**384.84**	**463.51**	**83.84**	**88.97**
09-Dec-15 23:00:00	10-Dec-15 00:00:00		1,113.40	1,346.58	0.00	7.18	2.1	329.7		367.09	443.97	0.00	2.37		10.35	18.92	83.84	86.68	09-Dec-15 23:00:00		**377.44**	**462.89**	**83.84**	**89.05**
10-Dec-15 00:00:00	10-Dec-15 01:00:00		1,104.80	1,345.46	0.00	7.18	2.1	329.7		364.25	443.60	0.00	2.37		10.35	18.92	83.84	86.68	10-Dec-15 00:00:00		**374.60**	**462.52**	**83.84**	**89.05**
10-Dec-15 01:00:00	10-Dec-15 02:00:00		1,100.65	1,343.49	0.00	7.14	2.1	329.7		362.88	442.95	0.00	2.35		10.35	18.92	83.84	86.68	10-Dec-15 01:00:00		**373.23**	**461.87**	**83.84**	**89.03**
10-Dec-15 02:00:00	10-Dec-15 03:00:00		1,096.05	1,342.86	0.00	7.21	2.1	329.7		361.37	442.74	0.00	2.38		10.35	18.92	83.84	86.68	10-Dec-15 02:00:00		**371.72**	**461.66**	**83.84**	**89.06**
10-Dec-15 03:00:00	10-Dec-15 04:00:00		1,115.66	1,344.11	0.00	7.28	2.1	329.7		367.83	443.15	0.00	2.40		10.35	18.92	83.84	86.68	10-Dec-15 03:00:00		**378.18**	**462.07**	**83.84**	**89.08**
10-Dec-15 04:00:00	10-Dec-15 05:00:00		1,105.89	1,340.06	0.00	7.33	2.1	329.7		364.61	441.82	0.00	2.42		10.35	18.92	83.84	86.68	10-Dec-15 04:00:00		**374.96**	**460.74**	**83.84**	**89.10**
10-Dec-15 05:00:00	10-Dec-15 06:00:00		1,061.00	1,256.20	0.00	7.25	2.1	329.7		349.81	414.17	0.00	2.39		10.35	18.92	83.84	86.68	10-Dec-15 05:00:00		**360.16**	**433.09**	**83.84**	**89.07**
10-Dec-15 06:00:00	10-Dec-15 07:00:00		1,112.24	1,298.15	0.00	7.17	2.1	329.7		366.71	428.00	0.00	2.36		10.35	18.92	83.84	86.68	10-Dec-15 06:00:00		**377.06**	**446.92**	**83.84**	**89.04**
10-Dec-15 07:00:00	10-Dec-15 08:00:00		1,135.71	1,318.18	0.00	7.08	2.1	329.7		374.44	434.60	0.00	2.33		10.35	18.92	83.84	86.68	10-Dec-15 07:00:00		**384.79**	**453.52**	**83.84**	**89.01**
10-Dec-15 08:00:00	10-Dec-15 09:00:00		1,133.66	1,318.33	0.00	7.06	2.1	329.7		373.77	434.65	0.00	2.33		10.35	18.92	83.84	86.68	10-Dec-15 08:00:00		**384.12**	**453.57**	**83.84**	**89.01**
10-Dec-15 09:00:00	10-Dec-15 10:00:00		1,132.32	1,319.99	0.00	6.75	2.1	329.7		373.33	435.20	0.00	2.23		10.35	18.92	83.84	86.68	10-Dec-15 09:00:00		**383.68**	**454.12**	**83.84**	**88.91**
10-Dec-15 10:00:00	10-Dec-15 11:00:00		1,119.57	1,320.63	0.00	6.33	2.1	329.7		369.12	435.41	0.00	2.09		10.35	18.92	83.84	86.68	10-Dec-15 10:00:00		**379.47**	**454.33**	**83.84**	**88.77**
10-Dec-15 11:00:00	10-Dec-15 12:00:00		1,126.58	1,321.65	0.00	5.92	2.1	329.7		371.43	435.75	0.00	1.95		10.35	18.92	83.84	86.68	10-Dec-15 11:00:00		**381.78**	**454.67**	**83.84**	**88.63**
10-Dec-15 12:00:00	10-Dec-15 13:00:00		1,116.84	1,321.84	0.00	5.52	2.1	329.7		368.22	435.81	0.00	1.82		10.35	18.92	83.84	86.68	10-Dec-15 12:00:00		**378.57**	**454.73**	**83.84**	**88.50**
10-Dec-15 13:00:00	10-Dec-15 14:00:00		1,144.26	1,358.99	0.00	5.44	2.1	329.7		377.26	448.06	0.00	1.79		10.35	18.92	83.84	86.68	10-Dec-15 13:00:00		**387.61**	**466.98**	**83.84**	**88.47**
10-Dec-15 14:00:00	10-Dec-15 15:00:00		1,162.76	1,359.09	0.00	5.43	2.1	329.7		383.36	448.09	0.00	1.79		10.35	18.92	83.84	86.68	10-Dec-15 14:00:00		**393.71**	**467.01**	**83.84**	**88.47**
10-Dec-15 15:00:00	10-Dec-15 16:00:00		946.97	1,357.66	0.00	5.41	2.1	329.7		312.21	447.62	0.00	1.78		10.35	18.92	83.84	86.68	10-Dec-15 15:00:00		**322.56**	**466.54**	**83.84**	**88.46**
10-Dec-15 16:00:00	10-Dec-15 17:00:00		614.85	607.68	0.00	5.35	2.1	329.7		202.72	200.35	0.00	1.76		10.35	18.92	83.84	86.68	10-Dec-15 16:00:00		**213.07**	**219.27**	**83.84**	**88.44**
10-Dec-15 17:00:00	10-Dec-15 18:00:00		91.51	0.00	0.00	5.39	2.1	329.7		30.17	0.00	0.00	1.78		10.35	18.92	83.84	86.68	10-Dec-15 17:00:00		**40.52**	**18.92**	**83.84**	**88.46**
10-Dec-15 18:00:00	10-Dec-15 19:00:00		0.00	0.00	0.00	5.49	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	10-Dec-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.49**
10-Dec-15 19:00:00	10-Dec-15 20:00:00		0.00	0.00	0.00	5.59	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	10-Dec-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.52**
10-Dec-15 20:00:00	10-Dec-15 21:00:00		0.00	0.00	0.00	5.76	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	10-Dec-15 20:00:00		**10.35**	**18.92**	**83.84**	**88.58**
10-Dec-15 21:00:00	10-Dec-15 22:00:00		0.00	0.00	0.00	5.91	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	10-Dec-15 21:00:00		**10.35**	**18.92**	**83.84**	**88.63**
10-Dec-15 22:00:00	10-Dec-15 23:00:00		0.00	0.00	0.00	6.01	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	10-Dec-15 22:00:00		**10.35**	**18.92**	**83.84**	**88.66**
10-Dec-15 23:00:00	11-Dec-15 00:00:00		0.00	0.00	0.00	6.10	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	10-Dec-15 23:00:00		**10.35**	**18.92**	**83.84**	**88.69**
11-Dec-15 00:00:00	11-Dec-15 01:00:00		0.19	0.00	0.00	6.18	2.1	329.7		0.06	0.00	0.00	2.04		10.35	18.92	83.84	86.68	11-Dec-15 00:00:00		**10.41**	**18.92**	**83.84**	**88.72**
11-Dec-15 01:00:00	11-Dec-15 02:00:00		0.00	0.00	0.00	6.20	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	11-Dec-15 01:00:00		**10.35**	**18.92**	**83.84**	**88.72**
11-Dec-15 02:00:00	11-Dec-15 03:00:00		0.00	0.00	0.00	6.22	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	11-Dec-15 02:00:00		**10.35**	**18.92**	**83.84**	**88.73**
11-Dec-15 03:00:00	11-Dec-15 04:00:00		0.00	0.00	0.00	6.24	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	11-Dec-15 03:00:00		**10.35**	**18.92**	**83.84**	**88.74**
11-Dec-15 04:00:00	11-Dec-15 05:00:00		0.00	0.00	0.00	6.29	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	11-Dec-15 04:00:00		**10.35**	**18.92**	**83.84**	**88.75**
11-Dec-15 05:00:00	11-Dec-15 06:00:00		0.07	0.00	0.00	6.33	2.1	329.7		0.02	0.00	0.00	2.09		10.35	18.92	83.84	86.68	11-Dec-15 05:00:00		**10.37**	**18.92**	**83.84**	**88.77**
11-Dec-15 06:00:00	11-Dec-15 07:00:00		0.33	0.00	0.00	6.34	2.1	329.7		0.11	0.00	0.00	2.09		10.35	18.92	83.84	86.68	11-Dec-15 06:00:00		**10.46**	**18.92**	**83.84**	**88.77**
11-Dec-15 07:00:00	11-Dec-15 08:00:00		0.05	0.00	0.00	6.35	2.1	329.7		0.02	0.00	0.00	2.09		10.35	18.92	83.84	86.68	11-Dec-15 07:00:00		**10.37**	**18.92**	**83.84**	**88.77**
11-Dec-15 08:00:00	11-Dec-15 09:00:00		0.00	0.00	0.00	6.52	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	11-Dec-15 08:00:00		**10.35**	**18.92**	**83.84**	**88.83**
11-Dec-15 09:00:00	11-Dec-15 10:00:00		0.00	0.00	0.00	6.52	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	11-Dec-15 09:00:00		**10.35**	**18.92**	**83.84**	**88.83**
11-Dec-15 10:00:00	11-Dec-15 11:00:00		0.32	0.00	0.00	6.34	2.1	329.7		0.10	0.00	0.00	2.09		10.35	18.92	83.84	86.68	11-Dec-15 10:00:00		**10.45**	**18.92**	**83.84**	**88.77**
11-Dec-15 11:00:00	11-Dec-15 12:00:00		0.00	0.00	0.00	6.17	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	11-Dec-15 11:00:00		**10.35**	**18.92**	**83.84**	**88.71**
11-Dec-15 12:00:00	11-Dec-15 13:00:00		0.00	0.00	0.00	5.88	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	11-Dec-15 12:00:00		**10.35**	**18.92**	**83.84**	**88.62**
11-Dec-15 13:00:00	11-Dec-15 14:00:00		0.00	0.00	0.00	5.64	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	11-Dec-15 13:00:00		**10.35**	**18.92**	**83.84**	**88.54**
11-Dec-15 14:00:00	11-Dec-15 15:00:00		0.00	0.00	0.00	5.50	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	11-Dec-15 14:00:00		**10.35**	**18.92**	**83.84**	**88.49**
11-Dec-15 15:00:00	11-Dec-15 16:00:00		0.00	0.00	0.00	5.36	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	11-Dec-15 15:00:00		**10.35**	**18.92**	**83.84**	**88.45**
11-Dec-15 16:00:00	11-Dec-15 17:00:00		0.16	0.00	0.00	5.39	2.1	329.7		0.05	0.00	0.00	1.78		10.35	18.92	83.84	86.68	11-Dec-15 16:00:00		**10.40**	**18.92**	**83.84**	**88.46**
11-Dec-15 17:00:00	11-Dec-15 18:00:00		43.11	0.00	0.00	5.56	2.1	329.7		14.21	0.00	0.00	1.83		10.35	18.92	83.84	86.68	11-Dec-15 17:00:00		**24.56**	**18.92**	**83.84**	**88.51**
11-Dec-15 18:00:00	11-Dec-15 19:00:00		273.05	0.00	0.00	5.64	2.1	329.7		90.02	0.00	0.00	1.86		10.35	18.92	83.84	86.68	11-Dec-15 18:00:00		**100.37**	**18.92**	**83.84**	**88.54**
11-Dec-15 19:00:00	11-Dec-15 20:00:00		159.53	0.00	0.00	5.71	2.1	329.7		52.60	0.00	0.00	1.88		10.35	18.92	83.84	86.68	11-Dec-15 19:00:00		**62.95**	**18.92**	**83.84**	**88.56**
11-Dec-15 20:00:00	11-Dec-15 21:00:00		0.00	0.00	0.00	5.81	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	11-Dec-15 20:00:00		**10.35**	**18.92**	**83.84**	**88.59**
11-Dec-15 21:00:00	11-Dec-15 22:00:00		0.00	0.00	0.00	5.85	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	11-Dec-15 21:00:00		**10.35**	**18.92**	**83.84**	**88.61**
11-Dec-15 22:00:00	11-Dec-15 23:00:00		0.00	0.00	0.00	5.84	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	11-Dec-15 22:00:00		**10.35**	**18.92**	**83.84**	**88.60**
11-Dec-15 23:00:00	12-Dec-15 00:00:00		0.00	0.00	0.00	5.83	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	11-Dec-15 23:00:00		**10.35**	**18.92**	**83.84**	**88.60**
12-Dec-15 00:00:00	12-Dec-15 01:00:00		0.00	0.00	0.00	5.86	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	12-Dec-15 00:00:00		**10.35**	**18.92**	**83.84**	**88.61**
12-Dec-15 01:00:00	12-Dec-15 02:00:00		0.00	0.00	0.00	5.93	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	12-Dec-15 01:00:00		**10.35**	**18.92**	**83.84**	**88.64**
12-Dec-15 02:00:00	12-Dec-15 03:00:00		0.00	0.00	0.00	5.99	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	12-Dec-15 02:00:00		**10.35**	**18.92**	**83.84**	**88.65**
12-Dec-15 03:00:00	12-Dec-15 04:00:00		0.00	0.00	0.00	6.04	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	12-Dec-15 03:00:00		**10.35**	**18.92**	**83.84**	**88.67**
12-Dec-15 04:00:00	12-Dec-15 05:00:00		0.00	0.00	0.00	6.02	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	12-Dec-15 04:00:00		**10.35**	**18.92**	**83.84**	**88.66**
12-Dec-15 05:00:00	12-Dec-15 06:00:00		0.00	0.00	0.00	6.07	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	12-Dec-15 05:00:00		**10.35**	**18.92**	**83.84**	**88.68**
12-Dec-15 06:00:00	12-Dec-15 07:00:00		0.00	0.00	0.00	6.22	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	12-Dec-15 06:00:00		**10.35**	**18.92**	**83.84**	**88.73**
12-Dec-15 07:00:00	12-Dec-15 08:00:00		0.00	0.00	0.00	6.37	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	12-Dec-15 07:00:00		**10.35**	**18.92**	**83.84**	**88.78**
12-Dec-15 08:00:00	12-Dec-15 09:00:00		0.00	0.00	0.00	6.40	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	12-Dec-15 08:00:00		**10.35**	**18.92**	**83.84**	**88.79**
12-Dec-15 09:00:00	12-Dec-15 10:00:00		0.00	0.00	0.00	6.13	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	12-Dec-15 09:00:00		**10.35**	**18.92**	**83.84**	**88.70**
12-Dec-15 10:00:00	12-Dec-15 11:00:00		0.00	0.00	0.00	5.87	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	12-Dec-15 10:00:00		**10.35**	**18.92**	**83.84**	**88.62**
12-Dec-15 11:00:00	12-Dec-15 12:00:00		0.04	0.00	0.00	5.62	2.1	329.7		0.01	0.00	0.00	1.85		10.35	18.92	83.84	86.68	12-Dec-15 11:00:00		**10.36**	**18.92**	**83.84**	**88.53**
12-Dec-15 12:00:00	12-Dec-15 13:00:00		0.30	0.00	0.00	5.34	2.1	329.7		0.10	0.00	0.00	1.76		10.35	18.92	83.84	86.68	12-Dec-15 12:00:00		**10.45**	**18.92**	**83.84**	**88.44**
12-Dec-15 13:00:00	12-Dec-15 14:00:00		2.74	0.00	0.00	5.22	2.1	329.7		0.90	0.00	0.00	1.72		10.35	18.92	83.84	86.68	12-Dec-15 13:00:00

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
14-Dec-15 12:00:00	14-Dec-15 13:00:00		724.87	0.00	0.00	6.04	2.1	329.7		238.99	0.00	0.00	1.99		10.35	18.92	83.84	86.68	14-Dec-15 12:00:00		**249.34**	**18.92**	**83.84**	**88.67**
14-Dec-15 13:00:00	14-Dec-15 14:00:00		646.42	0.00	0.00	5.94	2.1	329.7		213.12	0.00	0.00	1.96		10.35	18.92	83.84	86.68	14-Dec-15 13:00:00		**223.47**	**18.92**	**83.84**	**88.64**
14-Dec-15 14:00:00	14-Dec-15 15:00:00		319.39	0.00	0.00	5.89	2.1	329.7		105.30	0.00	0.00	1.94		10.35	18.92	83.84	86.68	14-Dec-15 14:00:00		**115.65**	**18.92**	**83.84**	**88.62**
14-Dec-15 15:00:00	14-Dec-15 16:00:00		0.00	0.00	0.00	5.84	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	14-Dec-15 15:00:00		**10.35**	**18.92**	**83.84**	**88.61**
14-Dec-15 16:00:00	14-Dec-15 17:00:00		0.80	0.00	0.00	5.83	2.1	329.7		0.26	0.00	0.00	1.92		10.35	18.92	83.84	86.68	14-Dec-15 16:00:00		**10.61**	**18.92**	**83.84**	**88.60**
14-Dec-15 17:00:00	14-Dec-15 18:00:00		0.00	0.00	0.00	5.89	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	14-Dec-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.62**
14-Dec-15 18:00:00	14-Dec-15 19:00:00		0.00	0.00	0.00	5.92	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	14-Dec-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.63**
14-Dec-15 19:00:00	14-Dec-15 20:00:00		0.00	0.00	0.00	5.95	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	14-Dec-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.64**
14-Dec-15 20:00:00	14-Dec-15 21:00:00		0.00	0.00	0.00	5.98	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	14-Dec-15 20:00:00		**10.35**	**18.92**	**83.84**	**88.65**
14-Dec-15 21:00:00	14-Dec-15 22:00:00		0.00	0.00	0.00	6.12	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	14-Dec-15 21:00:00		**10.35**	**18.92**	**83.84**	**88.70**
14-Dec-15 22:00:00	14-Dec-15 23:00:00		0.00	0.00	0.00	6.28	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	14-Dec-15 22:00:00		**10.35**	**18.92**	**83.84**	**88.75**
14-Dec-15 23:00:00	15-Dec-15 00:00:00		0.00	0.00	0.00	6.45	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	14-Dec-15 23:00:00		**10.35**	**18.92**	**83.84**	**88.81**
15-Dec-15 00:00:00	15-Dec-15 01:00:00		0.00	0.00	0.00	6.55	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	15-Dec-15 00:00:00		**10.35**	**18.92**	**83.84**	**88.84**
15-Dec-15 01:00:00	15-Dec-15 02:00:00		0.00	0.00	0.00	6.56	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	15-Dec-15 01:00:00		**10.35**	**18.92**	**83.84**	**88.84**
15-Dec-15 02:00:00	15-Dec-15 03:00:00		0.00	0.00	0.00	6.65	2.1	329.7		0.00	0.00	0.00	2.19		10.35	18.92	83.84	86.68	15-Dec-15 02:00:00		**10.35**	**18.92**	**83.84**	**88.87**
15-Dec-15 03:00:00	15-Dec-15 04:00:00		0.00	0.00	0.00	6.74	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	15-Dec-15 03:00:00		**10.35**	**18.92**	**83.84**	**88.90**
15-Dec-15 04:00:00	15-Dec-15 05:00:00		0.21	0.00	0.00	6.89	2.1	329.7		0.07	0.00	0.00	2.27		10.35	18.92	83.84	86.68	15-Dec-15 04:00:00		**10.42**	**18.92**	**83.84**	**88.95**
15-Dec-15 05:00:00	15-Dec-15 06:00:00		0.43	0.00	0.00	7.07	2.1	329.7		0.14	0.00	0.00	2.33		10.35	18.92	83.84	86.68	15-Dec-15 05:00:00		**10.49**	**18.92**	**83.84**	**89.01**
15-Dec-15 06:00:00	15-Dec-15 07:00:00		0.29	0.00	0.00	7.18	2.1	329.7		0.10	0.00	0.00	2.37		10.35	18.92	83.84	86.68	15-Dec-15 06:00:00		**10.45**	**18.92**	**83.84**	**89.05**
15-Dec-15 07:00:00	15-Dec-15 08:00:00		0.15	0.00	0.00	7.29	2.1	329.7		0.05	0.00	0.00	2.40		10.35	18.92	83.84	86.68	15-Dec-15 07:00:00		**10.40**	**18.92**	**83.84**	**89.08**
15-Dec-15 08:00:00	15-Dec-15 09:00:00		0.02	0.00	0.00	7.36	2.1	329.7		0.01	0.00	0.00	2.43		10.35	18.92	83.84	86.68	15-Dec-15 08:00:00		**10.36**	**18.92**	**83.84**	**89.11**
15-Dec-15 09:00:00	15-Dec-15 10:00:00		0.00	0.00	0.00	7.25	2.1	329.7		0.00	0.00	0.00	2.39		10.35	18.92	83.84	86.68	15-Dec-15 09:00:00		**10.35**	**18.92**	**83.84**	**89.07**
15-Dec-15 10:00:00	15-Dec-15 11:00:00		0.00	0.00	0.00	7.13	2.1	329.7		0.00	0.00	0.00	2.35		10.35	18.92	83.84	86.68	15-Dec-15 10:00:00		**10.35**	**18.92**	**83.84**	**89.03**
15-Dec-15 11:00:00	15-Dec-15 12:00:00		0.00	0.00	0.00	7.01	2.1	329.7		0.00	0.00	0.00	2.31		10.35	18.92	83.84	86.68	15-Dec-15 11:00:00		**10.35**	**18.92**	**83.84**	**88.99**
15-Dec-15 12:00:00	15-Dec-15 13:00:00		0.00	0.00	0.00	6.83	2.1	329.7		0.00	0.00	0.00	2.25		10.35	18.92	83.84	86.68	15-Dec-15 12:00:00		**10.35**	**18.92**	**83.84**	**88.93**
15-Dec-15 13:00:00	15-Dec-15 14:00:00		0.00	0.00	0.00	6.55	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	15-Dec-15 13:00:00		**10.35**	**18.92**	**83.84**	**88.84**
15-Dec-15 14:00:00	15-Dec-15 15:00:00		0.29	0.00	0.00	6.38	2.1	329.7		0.09	0.00	0.00	2.10		10.35	18.92	83.84	86.68	15-Dec-15 14:00:00		**10.44**	**18.92**	**83.84**	**88.78**
15-Dec-15 15:00:00	15-Dec-15 16:00:00		0.00	0.00	0.00	6.20	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	15-Dec-15 15:00:00		**10.35**	**18.92**	**83.84**	**88.72**
15-Dec-15 16:00:00	15-Dec-15 17:00:00		0.00	0.00	0.00	6.08	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	15-Dec-15 16:00:00		**10.35**	**18.92**	**83.84**	**88.68**
15-Dec-15 17:00:00	15-Dec-15 18:00:00		0.00	0.00	0.00	6.18	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	15-Dec-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.72**
15-Dec-15 18:00:00	15-Dec-15 19:00:00		0.00	0.00	0.00	6.24	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	15-Dec-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.74**
15-Dec-15 19:00:00	15-Dec-15 20:00:00		0.47	0.00	0.00	6.31	2.1	329.7		0.15	0.00	0.00	2.08		10.35	18.92	83.84	86.68	15-Dec-15 19:00:00		**10.50**	**18.92**	**83.84**	**88.76**
15-Dec-15 20:00:00	15-Dec-15 21:00:00		0.00	0.00	0.00	6.39	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	15-Dec-15 20:00:00		**10.35**	**18.92**	**83.84**	**88.79**
15-Dec-15 21:00:00	15-Dec-15 22:00:00		0.08	0.00	0.00	6.55	2.1	329.7		0.03	0.00	0.00	2.16		10.35	18.92	83.84	86.68	15-Dec-15 21:00:00		**10.38**	**18.92**	**83.84**	**88.84**
15-Dec-15 22:00:00	15-Dec-15 23:00:00		0.00	0.00	0.00	6.72	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	15-Dec-15 22:00:00		**10.35**	**18.92**	**83.84**	**88.89**
15-Dec-15 23:00:00	16-Dec-15 00:00:00		0.00	0.00	0.00	6.88	2.1	329.7		0.00	0.00	0.00	2.27		10.35	18.92	83.84	86.68	15-Dec-15 23:00:00		**10.35**	**18.92**	**83.84**	**88.95**
16-Dec-15 00:00:00	16-Dec-15 01:00:00		0.00	0.00	0.00	7.08	2.1	329.7		0.00	0.00	0.00	2.33		10.35	18.92	83.84	86.68	16-Dec-15 00:00:00		**10.35**	**18.92**	**83.84**	**89.01**
16-Dec-15 01:00:00	16-Dec-15 02:00:00		0.17	0.00	0.00	7.26	2.1	329.7		0.05	0.00	0.00	2.39		10.35	18.92	83.84	86.68	16-Dec-15 01:00:00		**10.40**	**18.92**	**83.84**	**89.07**
16-Dec-15 02:00:00	16-Dec-15 03:00:00		1.06	0.00	0.00	7.35	2.1	329.7		0.35	0.00	0.00	2.42		10.35	18.92	83.84	86.68	16-Dec-15 02:00:00		**10.70**	**18.92**	**83.84**	**89.10**
16-Dec-15 03:00:00	16-Dec-15 04:00:00		2.09	0.00	0.00	7.44	2.1	329.7		0.69	0.00	0.00	2.45		10.35	18.92	83.84	86.68	16-Dec-15 03:00:00		**11.04**	**18.92**	**83.84**	**89.13**
16-Dec-15 04:00:00	16-Dec-15 05:00:00		13.26	0.00	0.00	7.50	2.1	329.7		4.37	0.00	0.00	2.47		10.35	18.92	83.84	86.68	16-Dec-15 04:00:00		**14.72**	**18.92**	**83.84**	**89.15**
16-Dec-15 05:00:00	16-Dec-15 06:00:00		3.28	0.00	0.00	7.39	2.1	329.7		1.08	0.00	0.00	2.44		10.35	18.92	83.84	86.68	16-Dec-15 05:00:00		**11.43**	**18.92**	**83.84**	**89.12**
16-Dec-15 06:00:00	16-Dec-15 07:00:00		3.22	0.00	0.00	7.29	2.1	329.7		1.06	0.00	0.00	2.40		10.35	18.92	83.84	86.68	16-Dec-15 06:00:00		**11.41**	**18.92**	**83.84**	**89.08**
16-Dec-15 07:00:00	16-Dec-15 08:00:00		2.48	0.00	0.00	7.18	2.1	329.7		0.82	0.00	0.00	2.37		10.35	18.92	83.84	86.68	16-Dec-15 07:00:00		**11.17**	**18.92**	**83.84**	**89.05**
16-Dec-15 08:00:00	16-Dec-15 09:00:00		1.83	0.00	0.00	7.10	2.1	329.7		0.60	0.00	0.00	2.34		10.35	18.92	83.84	86.68	16-Dec-15 08:00:00		**10.95**	**18.92**	**83.84**	**89.02**
16-Dec-15 09:00:00	16-Dec-15 10:00:00		1.10	0.00	0.00	6.97	2.1	329.7		0.36	0.00	0.00	2.30		10.35	18.92	83.84	86.68	16-Dec-15 09:00:00		**10.71**	**18.92**	**83.84**	**88.98**
16-Dec-15 10:00:00	16-Dec-15 11:00:00		0.43	0.00	0.00	6.75	2.1	329.7		0.14	0.00	0.00	2.22		10.35	18.92	83.84	86.68	16-Dec-15 10:00:00		**10.49**	**18.92**	**83.84**	**88.90**
16-Dec-15 11:00:00	16-Dec-15 12:00:00		0.00	0.00	0.00	6.52	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	16-Dec-15 11:00:00		**10.35**	**18.92**	**83.84**	**88.83**
16-Dec-15 12:00:00	16-Dec-15 13:00:00		0.00	0.00	0.00	6.30	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	16-Dec-15 12:00:00		**10.35**	**18.92**	**83.84**	**88.76**
16-Dec-15 13:00:00	16-Dec-15 14:00:00		0.00	0.00	0.00	6.14	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	16-Dec-15 13:00:00		**10.35**	**18.92**	**83.84**	**88.71**
16-Dec-15 14:00:00	16-Dec-15 15:00:00		1.26	0.00	0.00	6.01	2.1	329.7		0.42	0.00	0.00	1.98		10.35	18.92	83.84	86.68	16-Dec-15 14:00:00		**10.77**	**18.92**	**83.84**	**88.66**
16-Dec-15 15:00:00	16-Dec-15 16:00:00		287.17	0.00	0.00	5.87	2.1	329.7		94.68	0.00	0.00	1.94		10.35	18.92	83.84	86.68	16-Dec-15 15:00:00		**105.03**	**18.92**	**83.84**	**88.62**
16-Dec-15 16:00:00	16-Dec-15 17:00:00		849.18	21.35	0.00	5.79	2.1	329.7		279.98	7.04	0.00	1.91		10.35	18.92	83.84	86.68	16-Dec-15 16:00:00		**290.33**	**25.96**	**83.84**	**88.59**
16-Dec-15 17:00:00	16-Dec-15 18:00:00		882.79	359.22	0.00	6.00	2.1	329.7		291.06	118.43	0.00	1.98		10.35	18.92	83.84	86.68	16-Dec-15 17:00:00		**301.41**	**137.35**	**83.84**	**88.66**
16-Dec-15 18:00:00	16-Dec-15 19:00:00		1,053.93	321.69	0.00	6.21	2.1	329.7		347.48	106.06	0.00	2.05		10.35	18.92	83.84	86.68	16-Dec-15 18:00:00		**357.83**	**124.98**	**83.84**	**88.73**
16-Dec-15 19:00:00	16-Dec-15 20:00:00		1,166.53	303.76	0.00	6.41	2.1	329.7		384.61	100.15	0.00	2.11		10.35	18.92	83.84	86.68	16-Dec-15 19:00:00		**394.96**	**119.07**	**83.84**	**88.79**
16-Dec-15 20:00:00	16-Dec-15 21:00:00		1,202.09	382.82	0.00	6.59	2.1	329.7		396.33	126.22	0.00	2.17		10.35	18.92	83.84	86.68	16-Dec-15 20:00:00		**406.68**	**145.14**	**83.84**	**88.85**
16-Dec-15 21:00:00	16-Dec-15 22:00:00		922.83	571.43	0.00	6.76	2.1	329.7		304.26	188.40	0.00	2.23		10.35	18.92	83.84	86.68	16-Dec-15 21:00:00		**314.61**	**207.32**	**83.84**	**88.91**
16-Dec-15 22:00:00	16-Dec-15 23:00:00		677.72	535.28	0.00	6.99	2.1	329.7		223.45	176.48	0.00	2.30		10.35	18.92	83.84	86.68	16-Dec-15 22:00:00		**233.80**	**195.40**	**83.84**	**88.98**
16-Dec-15 23:00:00	17-Dec-15 00:00:00		424.54	365.53	0.00	7.22	2.1	329.7		139.97	120.52	0.00	2.38		10.35	18.92	83.84	86.68	16-Dec-15 23:00:00		**150.32**	**139.44**	**83.84**	**89.06**
17-Dec-15 00:00:00	17-Dec-15 01:00:00		355.38	407.62	0.00	7.45	2.1	329.7		117.17	134.39	0.00	2.46		10.35	18.92	83.84	86.68	17-Dec-15 00:00:00		**127.52**	**153.31**	**83.84**	**89.14**
17-Dec-15 01:00:00	17-Dec-15 02:00:00		351.76	399.65	0.00	7.42	2.1	329.7		115.97	131.77	0.00	2.45		10.35	18.92	83.84	86.68	17-Dec-15 01:00:00		**126.32**	**150.69**	**83.84**	**89.13**
17-Dec-15 02:00:00	17-Dec-15 03:00:00		349.52	289.05	0.00	7.26	2.1	329.7		115.24	95.30	0.00	2.39		10.35	18.92	83.84	86.68	17-Dec-15 02:00:00		**125.59**	**114.22**	**83.84**	**89.07**
17-Dec-15 03:00:00	17-Dec-15 04:00:00		368.67	0.00	0.00	7.10	2.1	329.7		121.55	0.00	0.00	2.34		10.35	18.92	83.84	86.68	17-Dec-15 03:00:00		**131.90**	**18.92**	**83.84**	**89.02**
17-Dec-15 04:00:00	17-Dec-15 05:00:00		311.76	0.00	0.00	6.94	2.1	329.7		102.79	0.00	0.00	2.29		10.35	18.92	83.84	86.68	17-Dec-15 04:00:00		**113.14**	**18.92**	**83.84**	**88.97**
17-Dec-15 05:00:00	17-Dec-15 06:00:00		0.00	0.00	0.00	6.97	2.1	329.7		0.00	0.00	0.00	2.30		10.35	18.92	83.84	86.68	17-Dec-15 05:00:00		**10.35**	**18.92**	**83.84**	**88.98**
17-Dec-15 06:00:00	17-Dec-15 07:00:00		0.00	0.00	0.00	7.13	2.1	329.7		0.00	0.00	0.00	2.35		10.35	18.92	83.84	86.68	17-Dec-15 06:00:00		**10.35**	**18.92**	**83.84**	**89.03**
17-Dec-15 07:00:00	17-Dec-15 08:00:00		0.00	0.00	0.00	7.30	2.1	329.7		0.00	0.00	0.00	2.41		10.35	18.92	83.84	86.68	17-Dec-15 07:00:00		**10.35**	**18.92**	**83.84**	**89.09**
17-Dec-15 08:00:00	17-Dec-15 09:00:00		0.00	0.00	0.00	7.45	2.1	329.7		0.00	0.00	0.00	2.46		10.35	18.92	83.84	86.68	17-Dec-15 08:00:00		**10.35**	**18.92**	**83.84**	**89.14**
17-Dec-15 09:00:00	17-Dec-15 10:00:00		0.00	0.00	0.00	7.38	2.1	329.7		0.00	0.00	0.00	2.43		10.35	18.92	83.84	86.68	17-Dec-15 09:00:00		**10.35**	**18.92**	**83.84**	**89.11**
17-Dec-15 10:00:00	17-Dec-15 11:00:00		0.00	3.34	0.00	7.21	2.1	329.7		0.00	1.10	0.00	2.38		10.35	18.92	83.84	86.68	17-Dec-15 10:00:00		**10.35**	**20.02**	**83.84**	**89.06**
17-Dec-15 11:00:00	17-Dec-15 12:00:00		0.00	0.00	0.00	7.05	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	17-Dec-15 11:00:00		**10.35**	**18.92**	**83.84**	**89.00**
17-Dec-15 12:00:00	17-Dec-15 13:00:00		0.00	0.00	0.00	6.90	2.1	329.7		0.00	0.00	0.00	2.28		10.35	18.92	83.84	86.68	17-Dec-15 12:00:00		**10.35**	**18.92**	**83.84**	**88.96**
17-Dec-15 13:00:00	17-Dec-15 14:00:00		0.00	0.00	0.00	6.83	2.1	329.7		0.00	0.00	0.00	2.25		10.35	18.92	83.84	86.68	17-Dec-15 13:00:00		**10.35**	**18.92**	**83.84**	**88.93**
17-Dec-15 14:00:00	17-Dec-15 15:00:00		0.00	0.00	0.00	6.69	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	17-Dec-15 14:00:00		**10.35**	**18.92**	**83.84**	**88.89**
17-Dec-15 15:00:00	17-Dec-15 16:00:00		0.00	0.00	0.00	6.55	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	17-Dec-15 15:00:00		**10.35**	**18.92**	**83.84**	**88.84**
17-Dec-15 16:00:00	17-Dec-15 17:00:00		0.00	0.00	0.00	6.42	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	17-Dec-15 16:00:00		**10.35**	**18.92**	**83.84**	**88.80**
17-Dec-15 17:00:00	17-Dec-15 18:00:00		0.00	0.00	0.00	6.41	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	17-Dec-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.79**
17-Dec-15 18:00:00	17-Dec-15 19:00:00		0.00	0.00	0.00	6.47	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	17-Dec-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.81**
17-Dec-15 19:00:00	17-Dec-15 20:00:00		0.00	0.00	0.00	6.53	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	17-Dec-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.83**
17-Dec-15 20:00:00	17-Dec-15 21:00:00		0.00	0.00	0.00	6.59	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	17-Dec-15 20:00:00		**10.35**	**18.92**	**83.84**	**88.85**
17-Dec-15 21:00:00	17-Dec-15 22:00:00		0.00	0.00	0.00	6.59	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	17-Dec-15 21:00:00		**10.35**	**18.92**	**83.84**	**88.85**
17-Dec-15 22:00:00	17-Dec-15 23:00:00		0.00	0.00	0.00	6.53	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	17-Dec-15 22:00:00		**10.35**	**18.92**	**83.84**	**88.83**
17-Dec-15 23:00:00	18-Dec-15 00:00:00		0.00	0.00	0.00	6.47	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	17-Dec-15 23:00:00		**10.35**	**18.92**	**83.84**	**88.81**
18-Dec-15 00:00:00	18-Dec-15 01:00:00		0.00	0.00	0.00	6.40	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	18-Dec-15 00:00:00		**10.35**	**18.92**	**83.84**	**88.79**
18-Dec-15 01:00:00	18-Dec-15 02:00:00		0.00	0.00	0.00	6.38	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	18-Dec-15 01:00:00		**10.35**	**18.92**	**83.84**	**88.78**
18-Dec-15 02:00:00	18-Dec-15 03:00:00		0.00	0.00	0.00	6.43	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	18-Dec-15 02:00:00		**10.35**	**18.92**	**83.84**	**88.80**
18-Dec-15 03:00:00	18-Dec-15 04:00:00		0.00	0.00	0.00	6.48	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	18-Dec-15 03:00:00		**10.35**	**18.92**	**83.84**	**88.82**
18-Dec-15 04:00:00	18-Dec-15 05:00:00		0.00	0.00	0.00	6.51	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	18-Dec-15 04:00:00		**10.35**	**18.92**	**83.84**	**88.83**
18-Dec-15 05:00:00	18-Dec-15 06:00:00		0.00	0.00	0.00	6.61	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	18-Dec-15 05:00:00		**10.35**	**18.92**	**83.84**	**88.86**
18-Dec-15 06:00:00	18-Dec-15 07:00:00		0.00	0.00	0.00	6.82	2.1	329.7		0.00	0.00	0.00	2.25		10.35	18.92	83.84	86.68	18-Dec-15 06:00:00		**10.35**	**18.92**	**83.84**	**88.93**
18-Dec-15 07:00:00	18-Dec-15 08:00:00		0.00	0.00	0.00	7.03	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	18-Dec-15 07:00:00		**10.35**	**18.92**	**83.84**	**89.00**
18-Dec-15 08:00:00	18-Dec-15 09:00:00		0.00	0.00	0.00	7.26	2.1	329.7		0.00	0.00	0.00	2.39		10.35	18.92	83.84	86.68	18-Dec-15 08:00:00		**10.35**	**18.92**	**83.84**	**89.07**
18-Dec-15 09:00:00	18-Dec-15 10:00:00		0.00	0.00	0.

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
20-Dec-15 07:00:00	20-Dec-15 08:00:00		4.71	0.00	0.00	8.18	2.1	329.7		1.55	0.00	0.00	2.70		10.35	18.92	83.84	86.68	20-Dec-15 07:00:00		11.90	18.92	83.84	89.38
20-Dec-15 08:00:00	20-Dec-15 09:00:00		2.14	0.00	0.00	8.24	2.1	329.7		0.71	0.00	0.00	2.72		10.35	18.92	83.84	86.68	20-Dec-15 08:00:00		11.06	18.92	83.84	89.40
20-Dec-15 09:00:00	20-Dec-15 10:00:00		3.65	0.00	0.00	8.19	2.1	329.7		1.20	0.00	0.00	2.70		10.35	18.92	83.84	86.68	20-Dec-15 09:00:00		11.55	18.92	83.84	89.38
20-Dec-15 10:00:00	20-Dec-15 11:00:00		8.70	0.00	0.00	7.97	2.1	329.7		2.87	0.00	0.00	2.63		10.35	18.92	83.84	86.68	20-Dec-15 10:00:00		13.22	18.92	83.84	89.31
20-Dec-15 11:00:00	20-Dec-15 12:00:00		3.41	0.00	0.00	7.74	2.1	329.7		1.12	0.00	0.00	2.55		10.35	18.92	83.84	86.68	20-Dec-15 11:00:00		11.47	18.92	83.84	89.23
20-Dec-15 12:00:00	20-Dec-15 13:00:00		1.71	0.00	0.00	7.52	2.1	329.7		0.56	0.00	0.00	2.48		10.35	18.92	83.84	86.68	20-Dec-15 12:00:00		10.91	18.92	83.84	89.16
20-Dec-15 13:00:00	20-Dec-15 14:00:00		1.70	0.00	0.00	7.31	2.1	329.7		0.56	0.00	0.00	2.41		10.35	18.92	83.84	86.68	20-Dec-15 13:00:00		10.91	18.92	83.84	89.09
20-Dec-15 14:00:00	20-Dec-15 15:00:00		1.14	0.00	0.00	7.10	2.1	329.7		0.38	0.00	0.00	2.34		10.35	18.92	83.84	86.68	20-Dec-15 14:00:00		10.73	18.92	83.84	89.02
20-Dec-15 15:00:00	20-Dec-15 16:00:00		0.59	0.00	0.00	6.90	2.1	329.7		0.19	0.00	0.00	2.28		10.35	18.92	83.84	86.68	20-Dec-15 15:00:00		10.54	18.92	83.84	88.96
20-Dec-15 16:00:00	20-Dec-15 17:00:00		0.24	0.00	0.00	6.70	2.1	329.7		0.08	0.00	0.00	2.21		10.35	18.92	83.84	86.68	20-Dec-15 16:00:00		10.43	18.92	83.84	88.89
20-Dec-15 17:00:00	20-Dec-15 18:00:00		0.00	0.00	0.00	6.78	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	20-Dec-15 17:00:00		10.35	18.92	83.84	88.91
20-Dec-15 18:00:00	20-Dec-15 19:00:00		1.45	0.00	0.00	6.97	2.1	329.7		0.48	0.00	0.00	2.30		10.35	18.92	83.84	86.68	20-Dec-15 18:00:00		10.83	18.92	83.84	88.98
20-Dec-15 19:00:00	20-Dec-15 20:00:00		0.87	0.00	0.00	7.16	2.1	329.7		0.29	0.00	0.00	2.36		10.35	18.92	83.84	86.68	20-Dec-15 19:00:00		10.64	18.92	83.84	89.04
20-Dec-15 20:00:00	20-Dec-15 21:00:00		0.89	0.00	0.00	7.36	2.1	329.7		0.29	0.00	0.00	2.43		10.35	18.92	83.84	86.68	20-Dec-15 20:00:00		10.64	18.92	83.84	89.11
20-Dec-15 21:00:00	20-Dec-15 22:00:00		0.00	0.00	0.00	7.58	2.1	329.7		0.00	0.00	0.00	2.50		10.35	18.92	83.84	86.68	20-Dec-15 21:00:00		10.35	18.92	83.84	89.18
20-Dec-15 22:00:00	20-Dec-15 23:00:00		0.29	0.00	0.00	7.59	2.1	329.7		0.09	0.00	0.00	2.50		10.35	18.92	83.84	86.68	20-Dec-15 22:00:00		10.44	18.92	83.84	89.18
20-Dec-15 23:00:00	21-Dec-15 00:00:00		0.00	0.00	0.00	7.60	2.1	329.7		0.00	0.00	0.00	2.50		10.35	18.92	83.84	86.68	20-Dec-15 23:00:00		10.35	18.92	83.84	89.18
21-Dec-15 00:00:00	21-Dec-15 01:00:00		0.00	0.00	0.00	7.60	2.1	329.7		0.00	0.00	0.00	2.50		10.35	18.92	83.84	86.68	21-Dec-15 00:00:00		10.35	18.92	83.84	89.18
21-Dec-15 01:00:00	21-Dec-15 02:00:00		0.00	0.00	0.00	7.54	2.1	329.7		0.00	0.00	0.00	2.49		10.35	18.92	83.84	86.68	21-Dec-15 01:00:00		10.35	18.92	83.84	89.17
21-Dec-15 02:00:00	21-Dec-15 03:00:00		0.00	0.00	0.00	7.52	2.1	329.7		0.00	0.00	0.00	2.48		10.35	18.92	83.84	86.68	21-Dec-15 02:00:00		10.35	18.92	83.84	89.16
21-Dec-15 03:00:00	21-Dec-15 04:00:00		0.00	0.00	0.00	7.51	2.1	329.7		0.00	0.00	0.00	2.48		10.35	18.92	83.84	86.68	21-Dec-15 03:00:00		10.35	18.92	83.84	89.16
21-Dec-15 04:00:00	21-Dec-15 05:00:00		0.00	0.00	0.00	7.49	2.1	329.7		0.00	0.00	0.00	2.47		10.35	18.92	83.84	86.68	21-Dec-15 04:00:00		10.35	18.92	83.84	89.15
21-Dec-15 05:00:00	21-Dec-15 06:00:00		0.00	0.00	0.00	7.46	2.1	329.7		0.00	0.00	0.00	2.46		10.35	18.92	83.84	86.68	21-Dec-15 05:00:00		10.35	18.92	83.84	89.14
21-Dec-15 06:00:00	21-Dec-15 07:00:00		0.00	0.00	0.00	7.34	2.1	329.7		0.00	0.00	0.00	2.42		10.35	18.92	83.84	86.68	21-Dec-15 06:00:00		10.35	18.92	83.84	89.10
21-Dec-15 07:00:00	21-Dec-15 08:00:00		0.00	0.00	0.00	7.23	2.1	329.7		0.00	0.00	0.00	2.38		10.35	18.92	83.84	86.68	21-Dec-15 07:00:00		10.35	18.92	83.84	89.06
21-Dec-15 08:00:00	21-Dec-15 09:00:00		0.00	0.00	0.00	7.11	2.1	329.7		0.00	0.00	0.00	2.34		10.35	18.92	83.84	86.68	21-Dec-15 08:00:00		10.35	18.92	83.84	89.02
21-Dec-15 09:00:00	21-Dec-15 10:00:00		0.25	0.00	0.00	6.99	2.1	329.7		0.08	0.00	0.00	2.30		10.35	18.92	83.84	86.68	21-Dec-15 09:00:00		10.43	18.92	83.84	88.98
21-Dec-15 10:00:00	21-Dec-15 11:00:00		0.38	0.00	0.00	6.86	2.1	329.7		0.13	0.00	0.00	2.26		10.35	18.92	83.84	86.68	21-Dec-15 10:00:00		10.48	18.92	83.84	88.94
21-Dec-15 11:00:00	21-Dec-15 12:00:00		0.00	0.00	0.00	6.73	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	21-Dec-15 11:00:00		10.35	18.92	83.84	88.90
21-Dec-15 12:00:00	21-Dec-15 13:00:00		4.05	0.00	0.00	6.59	2.1	329.7		1.33	0.00	0.00	2.17		10.35	18.92	83.84	86.68	21-Dec-15 12:00:00		11.68	18.92	83.84	88.85
21-Dec-15 13:00:00	21-Dec-15 14:00:00		0.81	0.00	0.00	6.36	2.1	329.7		0.27	0.00	0.00	2.10		10.35	18.92	83.84	86.68	21-Dec-15 13:00:00		10.62	18.92	83.84	88.78
21-Dec-15 14:00:00	21-Dec-15 15:00:00		1.67	0.00	0.00	6.34	2.1	329.7		0.55	0.00	0.00	2.09		10.35	18.92	83.84	86.68	21-Dec-15 14:00:00		10.90	18.92	83.84	88.77
21-Dec-15 15:00:00	21-Dec-15 16:00:00		2.12	0.00	0.00	6.31	2.1	329.7		0.70	0.00	0.00	2.08		10.35	18.92	83.84	86.68	21-Dec-15 15:00:00		11.05	18.92	83.84	88.76
21-Dec-15 16:00:00	21-Dec-15 17:00:00		0.96	0.00	0.00	6.29	2.1	329.7		0.32	0.00	0.00	2.07		10.35	18.92	83.84	86.68	21-Dec-15 16:00:00		10.67	18.92	83.84	88.75
21-Dec-15 17:00:00	21-Dec-15 18:00:00		0.00	0.00	0.00	6.32	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	21-Dec-15 17:00:00		10.35	18.92	83.84	88.77
21-Dec-15 18:00:00	21-Dec-15 19:00:00		0.00	0.00	0.00	6.50	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	21-Dec-15 18:00:00		10.35	18.92	83.84	88.82
21-Dec-15 19:00:00	21-Dec-15 20:00:00		0.00	0.00	0.00	6.68	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	21-Dec-15 19:00:00		10.35	18.92	83.84	88.88
21-Dec-15 20:00:00	21-Dec-15 21:00:00		0.00	0.00	0.00	6.85	2.1	329.7		0.00	0.00	0.00	2.26		10.35	18.92	83.84	86.68	21-Dec-15 20:00:00		10.35	18.92	83.84	88.94
21-Dec-15 21:00:00	21-Dec-15 22:00:00		0.00	0.00	0.00	6.73	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	21-Dec-15 21:00:00		10.35	18.92	83.84	88.90
21-Dec-15 22:00:00	21-Dec-15 23:00:00		0.00	0.00	0.00	6.67	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	21-Dec-15 22:00:00		10.35	18.92	83.84	88.88
21-Dec-15 23:00:00	22-Dec-15 00:00:00		0.00	0.00	0.00	6.60	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	21-Dec-15 23:00:00		10.35	18.92	83.84	88.86
22-Dec-15 00:00:00	22-Dec-15 01:00:00		0.00	0.00	0.00	6.54	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	22-Dec-15 00:00:00		10.35	18.92	83.84	88.84
22-Dec-15 01:00:00	22-Dec-15 02:00:00		320.12	0.00	0.00	6.68	2.1	329.7		105.54	0.00	0.00	2.20		10.35	18.92	83.84	86.68	22-Dec-15 01:00:00		115.89	18.92	83.84	88.88
22-Dec-15 02:00:00	22-Dec-15 03:00:00		326.06	0.00	0.00	6.79	2.1	329.7		107.50	0.00	0.00	2.24		10.35	18.92	83.84	86.68	22-Dec-15 02:00:00		117.85	18.92	83.84	88.92
22-Dec-15 03:00:00	22-Dec-15 04:00:00		0.00	0.00	0.00	6.90	2.1	329.7		0.00	0.00	0.00	2.28		10.35	18.92	83.84	86.68	22-Dec-15 03:00:00		10.35	18.92	83.84	88.96
22-Dec-15 04:00:00	22-Dec-15 05:00:00		0.00	0.00	0.00	7.01	2.1	329.7		0.00	0.00	0.00	2.31		10.35	18.92	83.84	86.68	22-Dec-15 04:00:00		10.35	18.92	83.84	88.99
22-Dec-15 05:00:00	22-Dec-15 06:00:00		0.82	0.00	0.00	6.94	2.1	329.7		0.27	0.00	0.00	2.29		10.35	18.92	83.84	86.68	22-Dec-15 05:00:00		10.62	18.92	83.84	88.97
22-Dec-15 06:00:00	22-Dec-15 07:00:00		0.00	0.00	0.00	6.80	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	22-Dec-15 06:00:00		10.35	18.92	83.84	88.92
22-Dec-15 07:00:00	22-Dec-15 08:00:00		2.03	0.00	0.00	6.67	2.1	329.7		0.67	0.00	0.00	2.20		10.35	18.92	83.84	86.68	22-Dec-15 07:00:00		11.02	18.92	83.84	88.88
22-Dec-15 08:00:00	22-Dec-15 09:00:00		1.85	0.00	0.00	6.54	2.1	329.7		0.61	0.00	0.00	2.15		10.35	18.92	83.84	86.68	22-Dec-15 08:00:00		10.96	18.92	83.84	88.83
22-Dec-15 09:00:00	22-Dec-15 10:00:00		1.26	0.00	0.00	6.39	2.1	329.7		0.42	0.00	0.00	2.11		10.35	18.92	83.84	86.68	22-Dec-15 09:00:00		10.77	18.92	83.84	88.79
22-Dec-15 10:00:00	22-Dec-15 11:00:00		0.68	0.00	0.00	6.24	2.1	329.7		0.22	0.00	0.00	2.06		10.35	18.92	83.84	86.68	22-Dec-15 10:00:00		10.57	18.92	83.84	88.74
22-Dec-15 11:00:00	22-Dec-15 12:00:00		0.12	0.00	0.00	6.09	2.1	329.7		0.04	0.00	0.00	2.01		10.35	18.92	83.84	86.68	22-Dec-15 11:00:00		10.39	18.92	83.84	88.69
22-Dec-15 12:00:00	22-Dec-15 13:00:00		0.34	0.00	0.00	5.94	2.1	329.7		0.11	0.00	0.00	1.96		10.35	18.92	83.84	86.68	22-Dec-15 12:00:00		10.46	18.92	83.84	88.64
22-Dec-15 13:00:00	22-Dec-15 14:00:00		0.00	0.00	0.00	5.92	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	22-Dec-15 13:00:00		10.35	18.92	83.84	88.63
22-Dec-15 14:00:00	22-Dec-15 15:00:00		0.00	0.00	0.00	6.03	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	22-Dec-15 14:00:00		10.35	18.92	83.84	88.67
22-Dec-15 15:00:00	22-Dec-15 16:00:00		0.06	0.00	0.00	6.13	2.1	329.7		0.02	0.00	0.00	2.02		10.35	18.92	83.84	86.68	22-Dec-15 15:00:00		10.37	18.92	83.84	88.70
22-Dec-15 16:00:00	22-Dec-15 17:00:00		0.16	0.00	0.00	6.24	2.1	329.7		0.05	0.00	0.00	2.06		10.35	18.92	83.84	86.68	22-Dec-15 16:00:00		10.40	18.92	83.84	88.74
22-Dec-15 17:00:00	22-Dec-15 18:00:00		0.00	0.00	0.00	6.31	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	22-Dec-15 17:00:00		10.35	18.92	83.84	88.76
22-Dec-15 18:00:00	22-Dec-15 19:00:00		0.00	0.00	0.00	6.35	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	22-Dec-15 18:00:00		10.35	18.92	83.84	88.77
22-Dec-15 19:00:00	22-Dec-15 20:00:00		0.00	0.00	0.00	6.39	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	22-Dec-15 19:00:00		10.35	18.92	83.84	88.79
22-Dec-15 20:00:00	22-Dec-15 21:00:00		0.00	0.00	0.00	6.43	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	22-Dec-15 20:00:00		10.35	18.92	83.84	88.80
22-Dec-15 21:00:00	22-Dec-15 22:00:00		0.00	0.00	0.00	6.56	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	22-Dec-15 21:00:00		10.35	18.92	83.84	88.84
22-Dec-15 22:00:00	22-Dec-15 23:00:00		0.00	0.00	0.00	6.52	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	22-Dec-15 22:00:00		10.35	18.92	83.84	88.83
22-Dec-15 23:00:00	23-Dec-15 00:00:00		0.00	0.00	0.00	6.49	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	22-Dec-15 23:00:00		10.35	18.92	83.84	88.82
23-Dec-15 00:00:00	23-Dec-15 01:00:00		0.00	0.00	0.00	6.45	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	23-Dec-15 00:00:00		10.35	18.92	83.84	88.81
23-Dec-15 01:00:00	23-Dec-15 02:00:00		0.09	0.00	0.00	6.41	2.1	329.7		0.09	0.00	0.00	2.11		10.35	18.92	83.84	86.68	23-Dec-15 01:00:00		10.35	18.92	83.84	88.79
23-Dec-15 02:00:00	23-Dec-15 03:00:00		0.06	0.00	0.00	6.42	2.1	329.7		0.02	0.00	0.00	2.12		10.35	18.92	83.84	86.68	23-Dec-15 02:00:00		10.37	18.92	83.84	88.80
23-Dec-15 03:00:00	23-Dec-15 04:00:00		0.00	0.00	0.00	6.42	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	23-Dec-15 03:00:00		10.35	18.92	83.84	88.80
23-Dec-15 04:00:00	23-Dec-15 05:00:00		0.00	0.00	0.00	6.43	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	23-Dec-15 04:00:00		10.35	18.92	83.84	88.80
23-Dec-15 05:00:00	23-Dec-15 06:00:00		0.00	0.00	0.00	6.40	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	23-Dec-15 05:00:00		10.35	18.92	83.84	88.79
23-Dec-15 06:00:00	23-Dec-15 07:00:00		0.00	0.00	0.00	6.41	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	23-Dec-15 06:00:00		10.35	18.92	83.84	88.79
23-Dec-15 07:00:00	23-Dec-15 08:00:00		0.00	0.00	0.00	6.43	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	23-Dec-15 07:00:00		10.35	18.92	83.84	88.80
23-Dec-15 08:00:00	23-Dec-15 09:00:00		0.00	0.00	0.00	6.45	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	23-Dec-15 08:00:00		10.35	18.92	83.84	88.81
23-Dec-15 09:00:00	23-Dec-15 10:00:00		0.00	0.00	0.00	6.33	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	23-Dec-15 09:00:00		10.35	18.92	83.84	88.77
23-Dec-15 10:00:00	23-Dec-15 11:00:00		0.00	0.00	0.00	6.32	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	23-Dec-15 10:00:00		10.35	18.92	83.84	88.76
23-Dec-15 11:00:00	23-Dec-15 12:00:00		0.00	0.00	0.00	0.00	2.1	329.7		0.00	0.00	0.00	0.00		10.35	18.92	83.84	86.68	23-Dec-15 11:00:00		10.35	18.92	83.84	86.68
23-Dec-15 12:00:00	23-Dec-15 13:00:00		0.05	0.00	0.00	0.00	2.1	329.7		0.02	0.00	0.00	0.00		10.35	18.92	83.84	86.68	23-Dec-15 12:00:00		10.37	18.92	83.84	86.68
23-Dec-15 13:00:00	23-Dec-15 14:00:00		0.47	0.00	0.00	6.08	2.1	329.7		0.16	0.00	0.00	2.00		10.35	18.92	83.84	86.68	23-Dec-15 13:00:00		10.51	18.92	83.84	88.68
23-Dec-15 14:00:00	23-Dec-15 15:00:00		1.58	0.00	0.00	54.01	2.1	329.7		0.52	0.00	0.00	17.81		10.35	18.92	83.84	86.68	23-Dec-15 14:00:00		10.87	18.92	83.84	104.49
23-Dec-15 15:00:00	23-Dec-15 16:00:00		0.00	0.00	0.00	5.90	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	23-Dec-15 15:00:00		10.35	18.92	83.84	88.63
23-Dec-15 16:00:00	23-Dec-15 17:00:00		0.00	0.00	0.00	5.97	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	23-Dec-15 16:00:00		10.35	18.92	83.84	88.65
23-Dec-15 17:00:00	23-Dec-15 18:00:00		0.00	0.00	0.00	6.05	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	23-Dec-15 17:00:00		10.35	18.92	83.84	88.67
23-Dec-15 18:00:00	23-Dec-15 19:00:00		1.51	0.00	0.00	6.12	2.1	329.7		0.50	0.00	0.00	2.02		10.35	18.92	83.84	86.68	23-Dec-15 18:00:00		10.85	18.92	83.84	88.70
23-Dec-15 19:00:00	23-Dec-15 20:00:00		2.32	0.00	0.00	5.98	2.1	329.7		0.77	0.00	0.00	1.97		10.35	18.92	83.84	86.68	23-Dec-15 19:00:00		11.12	18.92	83.84	88.65
23-Dec-15 20:00:00	23-Dec-15 21:00:00		1.63	0.00	0.00	6.02	2.1	329.7		0.54	0.00	0.00	1.99		10.35	18.92	83.84	86.68	23-Dec-15 20:00:00		10.89	18.92	83.84	88.67
23-Dec-15 21:00:00	23-Dec-15 22:00:00		0.99	0.00	0.00	6.07	2.1	329.7		0.33	0.00	0.00	2.00		10.35	18.92	83.84	86.68	23-Dec-15 21:00:00		10.68	18.92	83.84	88.68
23-Dec-15 22:00:00	23-Dec-15 23:00:00		0.35	0.00	0.00	6.11	2.1	329.7		0.12	0.00	0.00	2.01		10.35	18.92	83.84	86.68	23-Dec-15 22:00:00		10.47	18.92	83.84	88.69
23-Dec-15 23:00:00	24-Dec-15 00:00:00		0.29	0.00	0.00	6.13	2.1	329.7		0.09	0.00	0.00	2.02		10.35	18.92	83.84	86.68	23-Dec-15 23:00:00		10.44	18.92	83.84	88.70
24-Dec-15 00:00:00	24-Dec-15 01:00:00		1.88	0.00	0.00	6.22	2.1	329.7		0.62	0.00	0.00	2.05		10.35	18.92	83.84	86.68	24-Dec-15 00:00:00		10.97	18.92	83.84	88.73
24-Dec-15 01:00:00	24-Dec-15 02:00:00		2.58	0.00	0.00	6.30	2.1	329.7		0.85	0.00	0.00	2.08		10.35	18.92	83.84	86.68	24-Dec-15 01:00:00		11.20	18.92	83.84	88.76
24-Dec-15 02:00:00	24-Dec-15 03:00:00		3.37	0.00	0.00	6.39	2.1	329.7		1.11	0.00	0.00	2.11		10.35	18.92	83.84	86.68	24-Dec-15 02:00:00		11.46	18.92	83.84	88.79
24-Dec-15 03:00:00	24-Dec-15 04:00:00		3.46	0.00	0.00	6.35	2.1	329.7		1.14	0.00	0.00	2.09		10.35	18.92	83.84	86.68	24-Dec-15 03:00:00		11.49	18.92	83.84	88.77
24-Dec-15 04:00:00	24-Dec-15 05:00:00		1.74	0.00	0.00	6.

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
26-Dec-15 02:00:00	26-Dec-15 03:00:00		177.84	0.00	0.00	6.40	2.1	329.7		58.64	0.00	0.00	2.11		10.35	18.92	83.84	86.68	26-Dec-15 02:00:00		**68.99**	**18.92**	**83.84**	**88.79**
26-Dec-15 03:00:00	26-Dec-15 04:00:00		105.80	0.00	0.00	6.46	2.1	329.7		34.88	0.00	0.00	2.13		10.35	18.92	83.84	86.68	26-Dec-15 03:00:00		**45.23**	**18.92**	**83.84**	**88.81**
26-Dec-15 04:00:00	26-Dec-15 05:00:00		0.64	0.00	0.00	6.59	2.1	329.7		0.21	0.00	0.00	2.17		10.35	18.92	83.84	86.68	26-Dec-15 04:00:00		**10.56**	**18.92**	**83.84**	**88.85**
26-Dec-15 05:00:00	26-Dec-15 06:00:00		1.36	0.00	0.00	6.72	2.1	329.7		0.45	0.00	0.00	2.21		10.35	18.92	83.84	86.68	26-Dec-15 05:00:00		**10.80**	**18.92**	**83.84**	**88.89**
26-Dec-15 06:00:00	26-Dec-15 07:00:00		2.08	0.00	0.00	6.84	2.1	329.7		0.69	0.00	0.00	2.26		10.35	18.92	83.84	86.68	26-Dec-15 06:00:00		**11.04**	**18.92**	**83.84**	**88.94**
26-Dec-15 07:00:00	26-Dec-15 08:00:00		4.27	0.00	0.00	6.89	2.1	329.7		1.41	0.00	0.00	2.27		10.35	18.92	83.84	86.68	26-Dec-15 07:00:00		**11.76**	**18.92**	**83.84**	**88.95**
26-Dec-15 08:00:00	26-Dec-15 09:00:00		6.73	0.00	0.00	6.77	2.1	329.7		2.22	0.00	0.00	2.23		10.35	18.92	83.84	86.68	26-Dec-15 08:00:00		**12.57**	**18.92**	**83.84**	**88.91**
26-Dec-15 09:00:00	26-Dec-15 10:00:00		2.47	0.00	0.00	6.64	2.1	329.7		0.81	0.00	0.00	2.19		10.35	18.92	83.84	86.68	26-Dec-15 09:00:00		**11.16**	**18.92**	**83.84**	**88.87**
26-Dec-15 10:00:00	26-Dec-15 11:00:00		0.00	0.00	0.00	6.51	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	26-Dec-15 10:00:00		**10.35**	**18.92**	**83.84**	**88.83**
26-Dec-15 11:00:00	26-Dec-15 12:00:00		0.00	0.00	0.00	6.40	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	26-Dec-15 11:00:00		**10.35**	**18.92**	**83.84**	**88.79**
26-Dec-15 12:00:00	26-Dec-15 13:00:00		0.35	0.00	0.00	6.34	2.1	329.7		0.12	0.00	0.00	2.09		10.35	18.92	83.84	86.68	26-Dec-15 12:00:00		**10.47**	**18.92**	**83.84**	**88.77**
26-Dec-15 13:00:00	26-Dec-15 14:00:00		0.24	0.00	0.00	6.28	2.1	329.7		0.08	0.00	0.00	2.07		10.35	18.92	83.84	86.68	26-Dec-15 13:00:00		**10.43**	**18.92**	**83.84**	**88.75**
26-Dec-15 14:00:00	26-Dec-15 15:00:00		0.10	0.00	0.00	6.22	2.1	329.7		0.03	0.00	0.00	2.05		10.35	18.92	83.84	86.68	26-Dec-15 14:00:00		**10.38**	**18.92**	**83.84**	**88.73**
26-Dec-15 15:00:00	26-Dec-15 16:00:00		0.19	0.00	0.00	6.29	2.1	329.7		0.06	0.00	0.00	2.07		10.35	18.92	83.84	86.68	26-Dec-15 15:00:00		**10.41**	**18.92**	**83.84**	**88.75**
26-Dec-15 16:00:00	26-Dec-15 17:00:00		0.00	0.00	0.00	6.40	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	26-Dec-15 16:00:00		**10.35**	**18.92**	**83.84**	**88.79**
26-Dec-15 17:00:00	26-Dec-15 18:00:00		0.00	0.00	0.00	6.50	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	26-Dec-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.82**
26-Dec-15 18:00:00	26-Dec-15 19:00:00		0.00	0.00	0.00	6.59	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	26-Dec-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.85**
26-Dec-15 19:00:00	26-Dec-15 20:00:00		0.00	0.00	0.00	6.77	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	26-Dec-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.91**
26-Dec-15 20:00:00	26-Dec-15 21:00:00		0.00	0.00	0.00	6.86	2.1	329.7		0.00	0.00	0.00	2.26		10.35	18.92	83.84	86.68	26-Dec-15 20:00:00		**10.35**	**18.92**	**83.84**	**88.94**
26-Dec-15 21:00:00	26-Dec-15 22:00:00		0.00	0.00	0.00	6.94	2.1	329.7		0.00	0.00	0.00	2.29		10.35	18.92	83.84	86.68	26-Dec-15 21:00:00		**10.35**	**18.92**	**83.84**	**88.97**
26-Dec-15 22:00:00	26-Dec-15 23:00:00		0.00	0.00	0.00	7.02	2.1	329.7		0.00	0.00	0.00	2.31		10.35	18.92	83.84	86.68	26-Dec-15 22:00:00		**10.35**	**18.92**	**83.84**	**88.99**
26-Dec-15 23:00:00	27-Dec-15 00:00:00		0.00	0.00	0.00	7.05	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	26-Dec-15 23:00:00		**10.35**	**18.92**	**83.84**	**89.00**
27-Dec-15 00:00:00	27-Dec-15 01:00:00		0.00	0.00	0.00	6.88	2.1	329.7		0.00	0.00	0.00	2.27		10.35	18.92	83.84	86.68	27-Dec-15 00:00:00		**10.35**	**18.92**	**83.84**	**88.95**
27-Dec-15 01:00:00	27-Dec-15 02:00:00		0.00	0.00	0.00	6.71	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	27-Dec-15 01:00:00		**10.35**	**18.92**	**83.84**	**88.89**
27-Dec-15 02:00:00	27-Dec-15 03:00:00		0.00	0.00	0.00	6.54	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	27-Dec-15 02:00:00		**10.35**	**18.92**	**83.84**	**88.84**
27-Dec-15 03:00:00	27-Dec-15 04:00:00		0.00	0.00	0.00	6.48	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	27-Dec-15 03:00:00		**10.35**	**18.92**	**83.84**	**88.82**
27-Dec-15 04:00:00	27-Dec-15 05:00:00		0.00	0.00	0.00	6.46	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	27-Dec-15 04:00:00		**10.35**	**18.92**	**83.84**	**88.81**
27-Dec-15 05:00:00	27-Dec-15 06:00:00		0.00	0.00	0.00	6.43	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	27-Dec-15 05:00:00		**10.35**	**18.92**	**83.84**	**88.80**
27-Dec-15 06:00:00	27-Dec-15 07:00:00		0.00	0.00	0.00	6.40	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	27-Dec-15 06:00:00		**10.35**	**18.92**	**83.84**	**88.79**
27-Dec-15 07:00:00	27-Dec-15 08:00:00		0.00	0.00	0.00	6.41	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	27-Dec-15 07:00:00		**10.35**	**18.92**	**83.84**	**88.79**
27-Dec-15 08:00:00	27-Dec-15 09:00:00		0.00	0.00	0.00	6.40	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	27-Dec-15 08:00:00		**10.35**	**18.92**	**83.84**	**88.79**
27-Dec-15 09:00:00	27-Dec-15 10:00:00		0.00	0.00	0.00	6.39	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	27-Dec-15 09:00:00		**10.35**	**18.92**	**83.84**	**88.79**
27-Dec-15 10:00:00	27-Dec-15 11:00:00		0.00	0.00	0.00	6.38	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	27-Dec-15 10:00:00		**10.35**	**18.92**	**83.84**	**88.78**
27-Dec-15 11:00:00	27-Dec-15 12:00:00		0.00	0.00	0.00	6.51	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	27-Dec-15 11:00:00		**10.35**	**18.92**	**83.84**	**88.83**
27-Dec-15 12:00:00	27-Dec-15 13:00:00		0.00	0.00	0.00	6.44	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	27-Dec-15 12:00:00		**10.35**	**18.92**	**83.84**	**88.80**
27-Dec-15 13:00:00	27-Dec-15 14:00:00		0.00	0.00	0.00	6.34	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	27-Dec-15 13:00:00		**10.35**	**18.92**	**83.84**	**88.77**
27-Dec-15 14:00:00	27-Dec-15 15:00:00		0.00	0.00	0.00	6.25	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	27-Dec-15 14:00:00		**10.35**	**18.92**	**83.84**	**88.74**
27-Dec-15 15:00:00	27-Dec-15 16:00:00		0.00	0.00	0.00	6.26	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	27-Dec-15 15:00:00		**10.35**	**18.92**	**83.84**	**88.74**
27-Dec-15 16:00:00	27-Dec-15 17:00:00		0.00	0.00	0.00	6.24	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	27-Dec-15 16:00:00		**10.35**	**18.92**	**83.84**	**88.74**
27-Dec-15 17:00:00	27-Dec-15 18:00:00		0.00	0.00	0.00	6.22	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	27-Dec-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.73**
27-Dec-15 18:00:00	27-Dec-15 19:00:00		0.00	0.00	0.00	6.20	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	27-Dec-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.72**
27-Dec-15 19:00:00	27-Dec-15 20:00:00		0.00	0.00	0.00	6.28	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	27-Dec-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.75**
27-Dec-15 20:00:00	27-Dec-15 21:00:00		0.00	0.00	0.00	6.35	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	27-Dec-15 20:00:00		**10.35**	**18.92**	**83.84**	**88.77**
27-Dec-15 21:00:00	27-Dec-15 22:00:00		0.00	0.00	0.00	6.41	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	27-Dec-15 21:00:00		**10.35**	**18.92**	**83.84**	**88.79**
27-Dec-15 22:00:00	27-Dec-15 23:00:00		0.00	0.00	0.00	6.47	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	27-Dec-15 22:00:00		**10.35**	**18.92**	**83.84**	**88.81**
27-Dec-15 23:00:00	28-Dec-15 00:00:00		0.00	0.00	0.00	6.53	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	27-Dec-15 23:00:00		**10.35**	**18.92**	**83.84**	**88.83**
28-Dec-15 00:00:00	28-Dec-15 01:00:00		0.00	0.00	0.00	6.60	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	28-Dec-15 00:00:00		**10.35**	**18.92**	**83.84**	**88.86**
28-Dec-15 01:00:00	28-Dec-15 02:00:00		0.00	0.00	0.00	6.67	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	28-Dec-15 01:00:00		**10.35**	**18.92**	**83.84**	**88.88**
28-Dec-15 02:00:00	28-Dec-15 03:00:00		0.00	0.00	0.00	6.75	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	28-Dec-15 02:00:00		**10.35**	**18.92**	**83.84**	**88.90**
28-Dec-15 03:00:00	28-Dec-15 04:00:00		0.00	0.00	0.00	6.72	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	28-Dec-15 03:00:00		**10.35**	**18.92**	**83.84**	**88.90**
28-Dec-15 04:00:00	28-Dec-15 05:00:00		0.00	0.00	0.00	6.81	2.1	329.7		0.00	0.00	0.00	2.25		10.35	18.92	83.84	86.68	28-Dec-15 04:00:00		**10.35**	**18.92**	**83.84**	**88.93**
28-Dec-15 05:00:00	28-Dec-15 06:00:00		1.27	0.00	0.00	6.92	2.1	329.7		0.42	0.00	0.00	2.28		10.35	18.92	83.84	86.68	28-Dec-15 05:00:00		**10.77**	**18.92**	**83.84**	**88.96**
28-Dec-15 06:00:00	28-Dec-15 07:00:00		2.98	0.00	0.00	7.02	2.1	329.7		0.98	0.00	0.00	2.32		10.35	18.92	83.84	86.68	28-Dec-15 06:00:00		**11.33**	**18.92**	**83.84**	**89.00**
28-Dec-15 07:00:00	28-Dec-15 08:00:00		1.60	0.00	0.00	6.98	2.1	329.7		0.53	0.00	0.00	2.30		10.35	18.92	83.84	86.68	28-Dec-15 07:00:00		**10.88**	**18.92**	**83.84**	**88.98**
28-Dec-15 08:00:00	28-Dec-15 09:00:00		0.89	0.00	0.00	7.03	2.1	329.7		0.29	0.00	0.00	2.32		10.35	18.92	83.84	86.68	28-Dec-15 08:00:00		**10.64**	**18.92**	**83.84**	**89.00**
28-Dec-15 09:00:00	28-Dec-15 10:00:00		0.84	0.00	0.00	7.11	2.1	329.7		0.28	0.00	0.00	2.34		10.35	18.92	83.84	86.68	28-Dec-15 09:00:00		**10.63**	**18.92**	**83.84**	**89.02**
28-Dec-15 10:00:00	28-Dec-15 11:00:00		0.79	0.00	0.00	7.19	2.1	329.7		0.26	0.00	0.00	2.37		10.35	18.92	83.84	86.68	28-Dec-15 10:00:00		**10.61**	**18.92**	**83.84**	**89.05**
28-Dec-15 11:00:00	28-Dec-15 12:00:00		0.67	0.00	0.00	7.18	2.1	329.7		0.22	0.00	0.00	2.37		10.35	18.92	83.84	86.68	28-Dec-15 11:00:00		**10.57**	**18.92**	**83.84**	**89.05**
28-Dec-15 12:00:00	28-Dec-15 13:00:00		0.28	0.00	0.00	6.96	2.1	329.7		0.09	0.00	0.00	2.29		10.35	18.92	83.84	86.68	28-Dec-15 12:00:00		**10.44**	**18.92**	**83.84**	**88.97**
28-Dec-15 13:00:00	28-Dec-15 14:00:00		0.20	0.00	0.00	6.73	2.1	329.7		0.07	0.00	0.00	2.22		10.35	18.92	83.84	86.68	28-Dec-15 13:00:00		**10.42**	**18.92**	**83.84**	**88.90**
28-Dec-15 14:00:00	28-Dec-15 15:00:00		0.11	0.00	0.00	6.50	2.1	329.7		0.04	0.00	0.00	2.14		10.35	18.92	83.84	86.68	28-Dec-15 14:00:00		**10.39**	**18.92**	**83.84**	**88.82**
28-Dec-15 15:00:00	28-Dec-15 16:00:00		0.05	0.00	0.00	6.47	2.1	329.7		0.02	0.00	0.00	2.13		10.35	18.92	83.84	86.68	28-Dec-15 15:00:00		**10.37**	**18.92**	**83.84**	**88.81**
28-Dec-15 16:00:00	28-Dec-15 17:00:00		0.03	0.00	0.00	6.68	2.1	329.7		0.01	0.00	0.00	2.20		10.35	18.92	83.84	86.68	28-Dec-15 16:00:00		**10.36**	**18.92**	**83.84**	**88.88**
28-Dec-15 17:00:00	28-Dec-15 18:00:00		0.00	0.00	0.00	6.88	2.1	329.7		0.00	0.00	0.00	2.27		10.35	18.92	83.84	86.68	28-Dec-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.95**
28-Dec-15 18:00:00	28-Dec-15 19:00:00		0.00	0.00	0.00	7.08	2.1	329.7		0.00	0.00	0.00	2.34		10.35	18.92	83.84	86.68	28-Dec-15 18:00:00		**10.35**	**18.92**	**83.84**	**89.02**
28-Dec-15 19:00:00	28-Dec-15 20:00:00		0.00	0.00	0.00	7.23	2.1	329.7		0.00	0.00	0.00	2.38		10.35	18.92	83.84	86.68	28-Dec-15 19:00:00		**10.35**	**18.92**	**83.84**	**89.06**
28-Dec-15 20:00:00	28-Dec-15 21:00:00		0.00	0.00	0.00	7.27	2.1	329.7		0.00	0.00	0.00	2.40		10.35	18.92	83.84	86.68	28-Dec-15 20:00:00		**10.35**	**18.92**	**83.84**	**89.08**
28-Dec-15 21:00:00	28-Dec-15 22:00:00		0.00	0.00	0.00	7.31	2.1	329.7		0.00	0.00	0.00	2.41		10.35	18.92	83.84	86.68	28-Dec-15 21:00:00		**10.35**	**18.92**	**83.84**	**89.09**
28-Dec-15 22:00:00	28-Dec-15 23:00:00		0.00	0.00	0.00	7.35	2.1	329.7		0.00	0.00	0.00	2.42		10.35	18.92	83.84	86.68	28-Dec-15 22:00:00		**10.35**	**18.92**	**83.84**	**89.10**
28-Dec-15 23:00:00	29-Dec-15 00:00:00		0.00	0.00	0.00	7.38	2.1	329.7		0.00	0.00	0.00	2.43		10.35	18.92	83.84	86.68	28-Dec-15 23:00:00		**10.35**	**18.92**	**83.84**	**89.11**
29-Dec-15 00:00:00	29-Dec-15 01:00:00		0.00	0.00	0.00	7.20	2.1	329.7		0.00	0.00	0.00	2.37		10.35	18.92	83.84	86.68	29-Dec-15 00:00:00		**10.35**	**18.92**	**83.84**	**89.05**
29-Dec-15 01:00:00	29-Dec-15 02:00:00		0.00	0.00	0.00	7.00	2.1	329.7		0.00	0.00	0.00	2.31		10.35	18.92	83.84	86.68	29-Dec-15 01:00:00		**10.35**	**18.92**	**83.84**	**88.99**
29-Dec-15 02:00:00	29-Dec-15 03:00:00		0.00	0.00	0.00	6.80	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	29-Dec-15 02:00:00		**10.35**	**18.92**	**83.84**	**88.92**
29-Dec-15 03:00:00	29-Dec-15 04:00:00		0.00	0.00	0.00	6.62	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	29-Dec-15 03:00:00		**10.35**	**18.92**	**83.84**	**88.86**
29-Dec-15 04:00:00	29-Dec-15 05:00:00		0.00	0.00	0.00	6.61	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	29-Dec-15 04:00:00		**10.35**	**18.92**	**83.84**	**88.86**
29-Dec-15 05:00:00	29-Dec-15 06:00:00		0.00	6.10	0.00	6.63	2.1	329.7		0.00	2.01	0.00	2.18		10.35	18.92	83.84	86.68	29-Dec-15 05:00:00		**10.35**	**20.93**	**83.84**	**88.86**
29-Dec-15 06:00:00	29-Dec-15 07:00:00		0.00	0.00	0.00	6.64	2.1	329.7		0.00	0.00	0.00	2.19		10.35	18.92	83.84	86.68	29-Dec-15 06:00:00		**10.35**	**18.92**	**83.84**	**88.87**
29-Dec-15 07:00:00	29-Dec-15 08:00:00		0.00	0.00	0.00	6.64	2.1	329.7		0.00	0.00	0.00	2.19		10.35	18.92	83.84	86.68	29-Dec-15 07:00:00		**10.35**	**18.92**	**83.84**	**88.87**
29-Dec-15 08:00:00	29-Dec-15 09:00:00		0.00	0.00	0.00	6.59	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	29-Dec-15 08:00:00		**10.35**	**18.92**	**83.84**	**88.85**
29-Dec-15 09:00:00	29-Dec-15 10:00:00		0.00	0.00	0.00	6.55	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	29-Dec-15 09:00:00		**10.35**	**18.92**	**83.84**	**88.84**
29-Dec-15 10:00:00	29-Dec-15 11:00:00		0.00	0.00	0.00	6.51	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	29-Dec-15 10:00:00		**10.35**	**18.92**	**83.84**	**88.83**
29-Dec-15 11:00:00	29-Dec-15 12:00:00		0.00	0.00	0.00	6.60	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	29-Dec-15 11:00:00		**10.35**	**18.92**	**83.84**	**88.85**
29-Dec-15 12:00:00	29-Dec-15 13:00:00		0.00	0.00	0.00	6.64	2.1	329.7		0.00	0.00	0.00	2.19		10.35	18.92	83.84	86.68	29-Dec-15 12:00:00		**10.35**	**18.92**	**83.84**	**88.87**
29-Dec-15 13:00:00	29-Dec-15 14:00:00		0.00	0.00	0.00	6.66	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	29-Dec-15 13:00:00		**10.35**	**18.92**	**83.84**	**88.88**
29-Dec-15 14:00:00	29-Dec-15 15:00:00		0.00	0.00	0.00	6.68	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	29-Dec-15 14:00:00		**10.35**	**18.92**	**83.84**	**88.88**
29-Dec-15 15:00:00	29-Dec-15 16:00:00		0.00	0.00	0.00	6.61	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	29-Dec-15 15:00:00		**10.35**	**18.92**	**83.84**	**88.86**
29-Dec-15 16:00:00	29-Dec-15 17:00:00		0.00	0.00	0.00	6.56	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	29-Dec-15 16:00:00		**10.35**	**18.92**	**83.84**	**88.84**
29-Dec-15 17:00:00	29-Dec-15 18:00:00		0.00	0.00	0.00	6.53	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	29-Dec-15 17:00:00		**10.35**	**18.92**	**83.84**	**88.83**
29-Dec-15 18:00:00	29-Dec-15 19:00:00		0.00	0.00	0.00	6.51	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	29-Dec-15 18:00:00		**10.35**	**18.92**	**83.84**	**88.82**
29-Dec-15 19:00:00	29-Dec-15 20:00:00		0.00	0.00	0.00	6.50	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	29-Dec-15 19:00:00		**10.35**	**18.92**	**83.84**	**88.82**
29-Dec-15 20:00:00	29-Dec-15 21:00:00		0.18	0.00	0.00	6.54	2.1	329.7		0.06	0.00	0.00	2.16		10.35	18.92	83.84	86.68	29-Dec-15 20:00:00		**10.41**	**18.92**	**83.84**	**88.84**
29-Dec-15 21:00:00	29-Dec-15 22:00:00		0.58	0.00	0.00	12.66	2.1	329.7		0.19	0.00	0.00	4.17		10.35	18.92	83.84	86.68	29-Dec-15 21:00:00		**10.54**	**18.92**	**83.84**	**90.85**
29-Dec-15 22:00:00	29-Dec-15 23:00:00		0.99	0.00	0.00	6.53	2.1	329.7		0.33	0.00	0.00	2.15		10.35	18.92	83.84	86.68	29-Dec-15 22:00:00		**10.68**	**18.92**	**83.84**	**88.83**
29-Dec-15 23:00:00	30-Dec-15 00:00:00		2.04	0.00	0.00	6.

Table A-41
Hourly SO_2 Emissions Rates - 2015
New-Indy Catawba - Catawba, SC

2015 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		**RB1 / Swing / Power Boiler**	**RB2**	**RB3**	**CB1**	**CB2**
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		**FUTSB**	**FUTRF2**	**FUTRF3**	**FUTCB1**	**FUTCB2**
Start	**End**	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	**Start Time**	**lb/hr**	**lb/hr**	**lb/hr**	**lb/hr**	**lb/hr**
31-Dec-15 21:00:00	31-Dec-15 22:00:00		4.31	0.00	0.00	7.53	2.1	329.7		1.42	0.00	0.00	2.48		10.35	18.92	83.84	86.68	31-Dec-15 21:00:00		**11.77**	**18.92**	**83.84**	**89.16**
31-Dec-15 22:00:00	31-Dec-15 23:00:00		3.00	0.00	0.00	7.62	2.1	329.7		0.99	0.00	0.00	2.51		10.35	18.92	83.84	86.68	31-Dec-15 22:00:00		**11.34**	**18.92**	**83.84**	**89.19**
31-Dec-15 23:00:00	01-Jan-16 00:00:00		10.01	0.00	0.00	7.67	2.1	329.7		3.30	0.00	0.00	2.53		10.35	18.92	83.84	86.68	31-Dec-15 23:00:00		**13.65**	**18.92**	**83.84**	**89.21**

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
01-Jan-16 00:00:00	01-Jan-16 01:00:00		2.84	0.00	0.00	7.72	2.1	329.7		0.94	0.00	0.00	2.54		10.35	18.92	83.84	86.68	01-Jan-16 00:00:00		11.29	18.92	83.84	89.22
01-Jan-16 01:00:00	01-Jan-16 02:00:00		5.94	0.00	0.00	7.74	2.1	329.7		1.96	0.00	0.00	2.55		10.35	18.92	83.84	86.68	01-Jan-16 01:00:00		12.31	18.92	83.84	89.23
01-Jan-16 02:00:00	01-Jan-16 03:00:00		1.39	0.00	0.00	7.80	2.1	329.7		0.46	0.00	0.00	2.57		10.35	18.92	83.84	86.68	01-Jan-16 02:00:00		10.81	18.92	83.84	89.25
01-Jan-16 03:00:00	01-Jan-16 04:00:00		2.68	0.00	0.00	7.88	2.1	329.7		0.88	0.00	0.00	2.60		10.35	18.92	83.84	86.68	01-Jan-16 03:00:00		11.23	18.92	83.84	89.28
01-Jan-16 04:00:00	01-Jan-16 05:00:00		0.00	0.00	0.00	7.96	2.1	329.7		0.00	0.00	0.00	2.62		10.35	18.92	83.84	86.68	01-Jan-16 04:00:00		10.35	18.92	83.84	89.30
01-Jan-16 05:00:00	01-Jan-16 06:00:00		0.00	0.00	0.00	8.13	2.1	329.7		0.00	0.00	0.00	2.68		10.35	18.92	83.84	86.68	01-Jan-16 05:00:00		10.35	18.92	83.84	89.36
01-Jan-16 06:00:00	01-Jan-16 07:00:00		0.00	0.00	0.00	8.22	2.1	329.7		0.00	0.00	0.00	2.71		10.35	18.92	83.84	86.68	01-Jan-16 06:00:00		10.35	18.92	83.84	89.39
01-Jan-16 07:00:00	01-Jan-16 08:00:00		0.00	0.00	0.00	8.20	2.1	329.7		0.00	0.00	0.00	2.70		10.35	18.92	83.84	86.68	01-Jan-16 07:00:00		10.35	18.92	83.84	89.38
01-Jan-16 08:00:00	01-Jan-16 09:00:00		0.00	0.00	0.00	8.18	2.1	329.7		0.00	0.00	0.00	2.70		10.35	18.92	83.84	86.68	01-Jan-16 08:00:00		10.35	18.92	83.84	89.38
01-Jan-16 09:00:00	01-Jan-16 10:00:00		0.00	0.00	0.00	8.12	2.1	329.7		0.00	0.00	0.00	2.68		10.35	18.92	83.84	86.68	01-Jan-16 09:00:00		10.35	18.92	83.84	89.36
01-Jan-16 10:00:00	01-Jan-16 11:00:00		0.00	0.00	0.00	8.07	2.1	329.7		0.00	0.00	0.00	2.66		10.35	18.92	83.84	86.68	01-Jan-16 10:00:00		10.35	18.92	83.84	89.34
01-Jan-16 11:00:00	01-Jan-16 12:00:00		0.00	0.00	0.00	8.06	2.1	329.7		0.00	0.00	0.00	2.66		10.35	18.92	83.84	86.68	01-Jan-16 11:00:00		10.35	18.92	83.84	89.34
01-Jan-16 12:00:00	01-Jan-16 13:00:00		0.00	0.00	0.00	8.05	2.1	329.7		0.00	0.00	0.00	2.65		10.35	18.92	83.84	86.68	01-Jan-16 12:00:00		10.35	18.92	83.84	89.33
01-Jan-16 13:00:00	01-Jan-16 14:00:00		0.00	0.00	0.00	8.01	2.1	329.7		0.00	0.00	0.00	2.64		10.35	18.92	83.84	86.68	01-Jan-16 13:00:00		10.35	18.92	83.84	89.32
01-Jan-16 14:00:00	01-Jan-16 15:00:00		0.00	0.00	0.00	7.91	2.1	329.7		0.00	0.00	0.00	2.61		10.35	18.92	83.84	86.68	01-Jan-16 14:00:00		10.35	18.92	83.84	89.29
01-Jan-16 15:00:00	01-Jan-16 16:00:00		0.00	0.00	0.00	7.82	2.1	329.7		0.00	0.00	0.00	2.58		10.35	18.92	83.84	86.68	01-Jan-16 15:00:00		10.35	18.92	83.84	89.26
01-Jan-16 16:00:00	01-Jan-16 17:00:00		0.00	0.00	0.00	7.74	2.1	329.7		0.00	0.00	0.00	2.55		10.35	18.92	83.84	86.68	01-Jan-16 16:00:00		10.35	18.92	83.84	89.23
01-Jan-16 17:00:00	01-Jan-16 18:00:00		0.00	0.00	0.00	7.70	2.1	329.7		0.00	0.00	0.00	2.54		10.35	18.92	83.84	86.68	01-Jan-16 17:00:00		10.35	18.92	83.84	89.22
01-Jan-16 18:00:00	01-Jan-16 19:00:00		0.00	0.00	0.00	7.81	2.1	329.7		0.00	0.00	0.00	2.57		10.35	18.92	83.84	86.68	01-Jan-16 18:00:00		10.35	18.92	83.84	89.25
01-Jan-16 19:00:00	01-Jan-16 20:00:00		0.00	0.00	0.00	7.90	2.1	329.7		0.00	0.00	0.00	2.60		10.35	18.92	83.84	86.68	01-Jan-16 19:00:00		10.35	18.92	83.84	89.28
01-Jan-16 20:00:00	01-Jan-16 21:00:00		0.07	0.00	0.00	7.99	2.1	329.7		0.02	0.00	0.00	2.64		10.35	18.92	83.84	86.68	01-Jan-16 20:00:00		10.37	18.92	83.84	89.32
01-Jan-16 21:00:00	01-Jan-16 22:00:00		0.00	0.00	0.00	8.07	2.1	329.7		0.00	0.00	0.00	2.66		10.35	18.92	83.84	86.68	01-Jan-16 21:00:00		10.35	18.92	83.84	89.34
01-Jan-16 22:00:00	01-Jan-16 23:00:00		0.00	0.00	0.00	8.16	2.1	329.7		0.00	0.00	0.00	2.69		10.35	18.92	83.84	86.68	01-Jan-16 22:00:00		10.35	18.92	83.84	89.37
01-Jan-16 23:00:00	02-Jan-16 00:00:00		0.00	0.00	0.00	8.28	2.1	329.7		0.00	0.00	0.00	2.73		10.35	18.92	83.84	86.68	01-Jan-16 23:00:00		10.35	18.92	83.84	89.41
02-Jan-16 00:00:00	02-Jan-16 01:00:00		0.02	0.00	0.00	8.40	2.1	329.7		0.01	0.00	0.00	2.77		10.35	18.92	83.84	86.68	02-Jan-16 00:00:00		10.36	18.92	83.84	89.45
02-Jan-16 01:00:00	02-Jan-16 02:00:00		0.26	0.00	0.00	8.55	2.1	329.7		0.09	0.00	0.00	2.82		10.35	18.92	83.84	86.68	02-Jan-16 01:00:00		10.44	18.92	83.84	89.50
02-Jan-16 02:00:00	02-Jan-16 03:00:00		0.79	0.00	0.00	8.61	2.1	329.7		0.26	0.00	0.00	2.84		10.35	18.92	83.84	86.68	02-Jan-16 02:00:00		10.61	18.92	83.84	89.52
02-Jan-16 03:00:00	02-Jan-16 04:00:00		8.45	0.00	0.00	8.60	2.1	329.7		2.79	0.00	0.00	2.84		10.35	18.92	83.84	86.68	02-Jan-16 03:00:00		13.14	18.92	83.84	89.52
02-Jan-16 04:00:00	02-Jan-16 05:00:00		0.98	0.00	0.00	8.60	2.1	329.7		0.32	0.00	0.00	2.83		10.35	18.92	83.84	86.68	02-Jan-16 04:00:00		10.67	18.92	83.84	89.51
02-Jan-16 05:00:00	02-Jan-16 06:00:00		0.54	0.00	0.00	8.63	2.1	329.7		0.18	0.00	0.00	2.84		10.35	18.92	83.84	86.68	02-Jan-16 05:00:00		10.53	18.92	83.84	89.52
02-Jan-16 06:00:00	02-Jan-16 07:00:00		0.91	0.00	0.00	8.76	2.1	329.7		0.30	0.00	0.00	2.89		10.35	18.92	83.84	86.68	02-Jan-16 06:00:00		10.65	18.92	83.84	89.57
02-Jan-16 07:00:00	02-Jan-16 08:00:00		1.88	0.00	0.00	8.88	2.1	329.7		0.62	0.00	0.00	2.93		10.35	18.92	83.84	86.68	02-Jan-16 07:00:00		10.97	18.92	83.84	89.61
02-Jan-16 08:00:00	02-Jan-16 09:00:00		1.19	0.00	0.00	9.00	2.1	329.7		0.39	0.00	0.00	2.97		10.35	18.92	83.84	86.68	02-Jan-16 08:00:00		10.74	18.92	83.84	89.65
02-Jan-16 09:00:00	02-Jan-16 10:00:00		0.28	0.00	0.00	8.99	2.1	329.7		0.09	0.00	0.00	2.96		10.35	18.92	83.84	86.68	02-Jan-16 09:00:00		10.44	18.92	83.84	89.64
02-Jan-16 10:00:00	02-Jan-16 11:00:00		0.57	0.00	0.00	8.69	2.1	329.7		0.19	0.00	0.00	2.87		10.35	18.92	83.84	86.68	02-Jan-16 10:00:00		10.54	18.92	83.84	89.55
02-Jan-16 11:00:00	02-Jan-16 12:00:00		0.85	0.00	0.00	8.48	2.1	329.7		0.28	0.00	0.00	2.80		10.35	18.92	83.84	86.68	02-Jan-16 11:00:00		10.63	18.92	83.84	89.48
02-Jan-16 12:00:00	02-Jan-16 13:00:00		1.91	0.00	0.00	8.27	2.1	329.7		0.63	0.00	0.00	2.73		10.35	18.92	83.84	86.68	02-Jan-16 12:00:00		10.98	18.92	83.84	89.41
02-Jan-16 13:00:00	02-Jan-16 14:00:00		3.05	0.00	0.00	8.06	2.1	329.7		1.01	0.00	0.00	2.66		10.35	18.92	83.84	86.68	02-Jan-16 13:00:00		11.36	18.92	83.84	89.34
02-Jan-16 14:00:00	02-Jan-16 15:00:00		0.00	0.00	0.00	7.86	2.1	329.7		0.00	0.00	0.00	2.59		10.35	18.92	83.84	86.68	02-Jan-16 14:00:00		10.35	18.92	83.84	89.27
02-Jan-16 15:00:00	02-Jan-16 16:00:00		0.00	0.00	0.00	7.68	2.1	329.7		0.00	0.00	0.00	2.53		10.35	18.92	83.84	86.68	02-Jan-16 15:00:00		10.35	18.92	83.84	89.21
02-Jan-16 16:00:00	02-Jan-16 17:00:00		0.00	0.00	0.00	7.50	2.1	329.7		0.00	0.00	0.00	2.47		10.35	18.92	83.84	86.68	02-Jan-16 16:00:00		10.35	18.92	83.84	89.15
02-Jan-16 17:00:00	02-Jan-16 18:00:00		0.00	0.00	0.00	7.36	2.1	329.7		0.00	0.00	0.00	2.43		10.35	18.92	83.84	86.68	02-Jan-16 17:00:00		10.35	18.92	83.84	89.11
02-Jan-16 18:00:00	02-Jan-16 19:00:00		0.00	0.00	0.00	7.48	2.1	329.7		0.00	0.00	0.00	2.47		10.35	18.92	83.84	86.68	02-Jan-16 18:00:00		10.35	18.92	83.84	89.15
02-Jan-16 19:00:00	02-Jan-16 20:00:00		0.00	0.00	0.00	7.64	2.1	329.7		0.00	0.00	0.00	2.52		10.35	18.92	83.84	86.68	02-Jan-16 19:00:00		10.35	18.92	83.84	89.20
02-Jan-16 20:00:00	02-Jan-16 21:00:00		0.00	0.00	0.00	7.80	2.1	329.7		0.00	0.00	0.00	2.57		10.35	18.92	83.84	86.68	02-Jan-16 20:00:00		10.35	18.92	83.84	89.25
02-Jan-16 21:00:00	02-Jan-16 22:00:00		0.04	0.00	0.00	7.96	2.1	329.7		0.01	0.00	0.00	2.62		10.35	18.92	83.84	86.68	02-Jan-16 21:00:00		10.36	18.92	83.84	89.30
02-Jan-16 22:00:00	02-Jan-16 23:00:00		0.21	0.00	0.00	8.07	2.1	329.7		0.07	0.00	0.00	2.66		10.35	18.92	83.84	86.68	02-Jan-16 22:00:00		10.42	18.92	83.84	89.34
02-Jan-16 23:00:00	03-Jan-16 00:00:00		0.71	0.00	0.00	8.17	2.1	329.7		0.23	0.00	0.00	2.69		10.35	18.92	83.84	86.68	02-Jan-16 23:00:00		10.58	18.92	83.84	89.37
03-Jan-16 00:00:00	03-Jan-16 01:00:00		3.42	0.00	0.00	8.26	2.1	329.7		1.13	0.00	0.00	2.72		10.35	18.92	83.84	86.68	03-Jan-16 00:00:00		11.48	18.92	83.84	89.40
03-Jan-16 01:00:00	03-Jan-16 02:00:00		0.18	0.00	0.00	8.42	2.1	329.7		0.06	0.00	0.00	2.78		10.35	18.92	83.84	86.68	03-Jan-16 01:00:00		10.41	18.92	83.84	89.46
03-Jan-16 02:00:00	03-Jan-16 03:00:00		1.13	0.00	0.00	8.59	2.1	329.7		0.37	0.00	0.00	2.83		10.35	18.92	83.84	86.68	03-Jan-16 02:00:00		10.72	18.92	83.84	89.51
03-Jan-16 03:00:00	03-Jan-16 04:00:00		0.29	0.00	0.00	8.64	2.1	329.7		0.09	0.00	0.00	2.85		10.35	18.92	83.84	86.68	03-Jan-16 03:00:00		10.44	18.92	83.84	89.53
03-Jan-16 04:00:00	03-Jan-16 05:00:00		0.30	0.00	0.00	8.69	2.1	329.7		0.10	0.00	0.00	2.87		10.35	18.92	83.84	86.68	03-Jan-16 04:00:00		10.45	18.92	83.84	89.55
03-Jan-16 05:00:00	03-Jan-16 06:00:00		0.00	0.00	0.00	8.69	2.1	329.7		0.00	0.00	0.00	2.86		10.35	18.92	83.84	86.68	03-Jan-16 05:00:00		10.35	18.92	83.84	89.54
03-Jan-16 06:00:00	03-Jan-16 07:00:00		4.13	0.00	0.00	8.60	2.1	329.7		1.36	0.00	0.00	2.83		10.35	18.92	83.84	86.68	03-Jan-16 06:00:00		11.71	18.92	83.84	89.51
03-Jan-16 07:00:00	03-Jan-16 08:00:00		7.18	0.00	0.00	8.59	2.1	329.7		2.37	0.00	0.00	2.83		10.35	18.92	83.84	86.68	03-Jan-16 07:00:00		12.72	18.92	83.84	89.51
03-Jan-16 08:00:00	03-Jan-16 09:00:00		11.95	0.00	0.00	8.59	2.1	329.7		3.94	0.00	0.00	2.83		10.35	18.92	83.84	86.68	03-Jan-16 08:00:00		14.29	18.92	83.84	89.51
03-Jan-16 09:00:00	03-Jan-16 10:00:00		11.30	0.00	0.00	8.61	2.1	329.7		3.73	0.00	0.00	2.84		10.35	18.92	83.84	86.68	03-Jan-16 09:00:00		14.08	18.92	83.84	89.52
03-Jan-16 10:00:00	03-Jan-16 11:00:00		9.24	0.00	0.00	8.54	2.1	329.7		3.05	0.00	0.00	2.82		10.35	18.92	83.84	86.68	03-Jan-16 10:00:00		13.40	18.92	83.84	89.50
03-Jan-16 11:00:00	03-Jan-16 12:00:00		3.80	0.00	0.00	8.38	2.1	329.7		1.25	0.00	0.00	2.76		10.35	18.92	83.84	86.68	03-Jan-16 11:00:00		11.60	18.92	83.84	89.44
03-Jan-16 12:00:00	03-Jan-16 13:00:00		4.57	0.00	0.00	8.22	2.1	329.7		1.51	0.00	0.00	2.71		10.35	18.92	83.84	86.68	03-Jan-16 12:00:00		11.86	18.92	83.84	89.39
03-Jan-16 13:00:00	03-Jan-16 14:00:00		1.16	0.00	0.00	7.98	2.1	329.7		0.38	0.00	0.00	2.63		10.35	18.92	83.84	86.68	03-Jan-16 13:00:00		10.73	18.92	83.84	89.31
03-Jan-16 14:00:00	03-Jan-16 15:00:00		0.00	0.00	0.00	7.71	2.1	329.7		0.00	0.00	0.00	2.54		10.35	18.92	83.84	86.68	03-Jan-16 14:00:00		10.35	18.92	83.84	89.22
03-Jan-16 15:00:00	03-Jan-16 16:00:00		1.59	0.00	0.00	7.56	2.1	329.7		0.52	0.00	0.00	2.49		10.35	18.92	83.84	86.68	03-Jan-16 15:00:00		10.87	18.92	83.84	89.17
03-Jan-16 16:00:00	03-Jan-16 17:00:00		1.97	0.00	0.00	7.42	2.1	329.7		0.65	0.00	0.00	2.45		10.35	18.92	83.84	86.68	03-Jan-16 16:00:00		11.00	18.92	83.84	89.13
03-Jan-16 17:00:00	03-Jan-16 18:00:00		1.34	0.00	0.00	7.31	2.1	329.7		0.44	0.00	0.00	2.41		10.35	18.92	83.84	86.68	03-Jan-16 17:00:00		10.79	18.92	83.84	89.09
03-Jan-16 18:00:00	03-Jan-16 19:00:00		0.71	0.00	0.00	7.39	2.1	329.7		0.24	0.00	0.00	2.44		10.35	18.92	83.84	86.68	03-Jan-16 18:00:00		10.59	18.92	83.84	89.12
03-Jan-16 19:00:00	03-Jan-16 20:00:00		0.13	0.00	0.00	7.50	2.1	329.7		0.04	0.00	0.00	2.47		10.35	18.92	83.84	86.68	03-Jan-16 19:00:00		10.39	18.92	83.84	89.15
03-Jan-16 20:00:00	03-Jan-16 21:00:00		0.00	0.00	0.00	7.60	2.1	329.7		0.00	0.00	0.00	2.51		10.35	18.92	83.84	86.68	03-Jan-16 20:00:00		10.35	18.92	83.84	89.19
03-Jan-16 21:00:00	03-Jan-16 22:00:00		0.53	0.00	0.00	7.72	2.1	329.7		0.18	0.00	0.00	2.55		10.35	18.92	83.84	86.68	03-Jan-16 21:00:00		10.53	18.92	83.84	89.23
03-Jan-16 22:00:00	03-Jan-16 23:00:00		391.18	0.00	0.00	18.51	2.1	329.7		128.97	0.00	0.00	6.10		10.35	18.92	83.84	86.68	03-Jan-16 22:00:00		139.32	18.92	83.84	92.78
03-Jan-16 23:00:00	04-Jan-16 00:00:00		966.09	0.00	0.00	326.76	2.1	329.7		318.52	0.00	0.00	107.73		10.35	18.92	83.84	86.68	03-Jan-16 23:00:00		328.87	18.92	83.84	194.41
04-Jan-16 00:00:00	04-Jan-16 01:00:00		1,045.09	0.00	0.00	280.37	2.1	329.7		344.57	0.00	0.00	92.44		10.35	18.92	83.84	86.68	04-Jan-16 00:00:00		354.92	18.92	83.84	179.12
04-Jan-16 01:00:00	04-Jan-16 02:00:00		1,004.59	0.00	0.00	169.13	2.1	329.7		331.21	0.00	0.00	55.76		10.35	18.92	83.84	86.68	04-Jan-16 01:00:00		341.56	18.92	83.84	142.44
04-Jan-16 02:00:00	04-Jan-16 03:00:00		1,091.11	0.00	0.00	124.42	2.1	329.7		359.74	0.00	0.00	41.02		10.35	18.92	83.84	86.68	04-Jan-16 02:00:00		370.09	18.92	83.84	127.70
04-Jan-16 03:00:00	04-Jan-16 04:00:00		990.79	0.00	0.00	133.60	2.1	329.7		326.66	0.00	0.00	44.05		10.35	18.92	83.84	86.68	04-Jan-16 03:00:00		337.01	18.92	83.84	130.73
04-Jan-16 04:00:00	04-Jan-16 05:00:00		949.82	0.00	0.00	244.64	2.1	329.7		313.16	0.00	0.00	80.66		10.35	18.92	83.84	86.68	04-Jan-16 04:00:00		323.51	18.92	83.84	167.34
04-Jan-16 05:00:00	04-Jan-16 06:00:00		939.65	0.00	0.00	302.55	2.1	329.7		309.80	0.00	0.00	99.75		10.35	18.92	83.84	86.68	04-Jan-16 05:00:00		320.15	18.92	83.84	186.43
04-Jan-16 06:00:00	04-Jan-16 07:00:00		972.28	0.00	0.00	232.47	2.1	329.7		320.56	0.00	0.00	76.65		10.35	18.92	83.84	86.68	04-Jan-16 06:00:00		330.91	18.92	83.84	163.33
04-Jan-16 07:00:00	04-Jan-16 08:00:00		906.20	0.00	0.00	145.15	2.1	329.7		298.77	0.00	0.00	47.86		10.35	18.92	83.84	86.68	04-Jan-16 07:00:00		309.12	18.92	83.84	134.54
04-Jan-16 08:00:00	04-Jan-16 09:00:00		1,047.10	0.00	0.00	130.83	2.1	329.7		345.23	0.00	0.00	43.13		10.35	18.92	83.84	86.68	04-Jan-16 08:00:00		355.58	18.92	83.84	129.81
04-Jan-16 09:00:00	04-Jan-16 10:00:00		985.42	0.00	0.00	126.02	2.1	329.7		324.89	0.00	0.00	41.55		10.35	18.92	83.84	86.68	04-Jan-16 09:00:00		335.24	18.92	83.84	128.23
04-Jan-16 10:00:00	04-Jan-16 11:00:00		931.14	0.00	0.00	125.69	2.1	329.7		307.00	0.00	0.00	41.44		10.35	18.92	83.84	86.68	04-Jan-16 10:00:00		317.35	18.92	83.84	128.12
04-Jan-16 11:00:00	04-Jan-16 12:00:00		915.90	0.00	0.00	125.41	2.1	329.7		301.97	0.00	0.00	41.35		10.35	18.92	83.84	86.68	04-Jan-16 11:00:00		312.32	18.92	83.84	128.03
04-Jan-16 12:00:00	04-Jan-16 13:00:00		912.27	0.00	0.00	125.12	2.1	329.7		300.78	46.63	0.00	41.25		10.35	18.92	83.84	86.68	04-Jan-16 12:00:00		311.13	65.55	83.84	127.93
04-Jan-16 13:00:00	04-Jan-16 14:00:00		1,082.20	712.14	0.00	140.12	2.1	329.7		356.80	234.79	0.00	46.20		10.35	18.92	83.84	86.68	04-Jan-16 13:00:00		367.15	253.71	83.84	132.88
04-Jan-16 14:00:00	04-Jan-16 15:00:00		973.82	702.77	0.00	138.10	2.1	329.7		321.07	231.70	0.00	45.53		10.35	18.92	83.84	86.68	04-Jan-16 14:00:00		331.42	250.62	83.84	132.21
04-Jan-16 15:00:00	04-Jan-16 16:00:00		945.66	692.81	0.00	130.66	2.1	329.7		311.78	228.42	0.00	43.08		10.35	18.92	83.84	86.68	04-Jan-16 15:00:00		322.13	247.34	83.84	129.76
04-Jan-16 16:00:00	04-Jan-16 17:00:00		930.03	685.21	0.00	129.06	2.1	329.7		306.63	225.91	0.00	42.55		10.35	18.92	83.84	86.68	04-Jan-16 16:00:00		316.98	244.83	83.84	129.23
04-Jan-16 17:00:00	04-Jan-16 18:00:00		967.53	710.47	0.00	128.38	2.1	329.7		319.00	234.24	0.00	42.33		10.35	18.92	83.84	86.68	04-Jan-16 17:00:00		329.35	253.16	83.84	129.01
04-Jan-16 18:00:00	04-Jan-16 19:00:00		972.86	710.10	0.00	127.69	2.1	329.7		320.75	234.12	0.00	42.10		10.35	18.92	83.84	86.68	04-Jan-16 18:00:00		331.10	253.04	83.84	128.78
04-Jan-16 19:00:00	04-Jan-16 20:00:00		977.81	711.68	0.00	126.67	2.1	329.7		322.38	234.64	0.00	41.76		10.35	18.92	83.84	86.68	04-Jan-16 19:00:00		332.73	253.56	83.84	128.44
04-Jan-16 20:00:00	04-Jan-16 21:00:00		964.25	711.04	0.00	43.11	2.1	329.7		317.91	234.43	0.00	14.21		10.35	18.92	83.84	86.68	04-Jan-16 20:00:00		328.26	253.35	83.84	100.89
04-Jan-16 21:00:00	04-Jan-16 22:00:00		968.96	682.81	0

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
06-Jan-16 23:00:00	07-Jan-16 00:00:00		962.45	0.00	129.58	8.00	2.1	329.7		317.32	0.00	42.72	2.64		10.35	18.92	83.84	86.68	06-Jan-16 23:00:00		327.67	18.92	126.56	89.32
07-Jan-16 00:00:00	07-Jan-16 01:00:00		1,108.42	0.00	134.89	7.97	2.1	329.7		365.45	0.00	44.47	2.63		10.35	18.92	83.84	86.68	07-Jan-16 00:00:00		375.80	18.92	128.31	89.31
07-Jan-16 01:00:00	07-Jan-16 02:00:00		1,272.81	9.19	301.50	85.03	2.1	329.7		419.65	3.03	99.41	28.03		10.35	18.92	83.84	86.68	07-Jan-16 01:00:00		430.00	21.95	183.25	114.71
07-Jan-16 02:00:00	07-Jan-16 03:00:00		1,234.20	244.74	229.16	425.89	2.1	329.7		406.92	80.69	75.56	140.42		10.35	18.92	83.84	86.68	07-Jan-16 02:00:00		417.27	99.61	159.40	227.10
07-Jan-16 03:00:00	07-Jan-16 04:00:00		1,233.11	779.62	391.43	500.07	2.1	329.7		406.56	257.04	129.05	164.87		10.35	18.92	83.84	86.68	07-Jan-16 03:00:00		416.91	275.96	212.89	251.55
07-Jan-16 04:00:00	07-Jan-16 05:00:00		1,235.98	995.08	410.18	814.42	2.1	329.7		407.50	328.08	135.24	268.52		10.35	18.92	83.84	86.68	07-Jan-16 04:00:00		417.85	347.00	219.08	355.20
07-Jan-16 05:00:00	07-Jan-16 06:00:00		1,234.66	1,022.62	156.29	589.10	2.1	329.7		407.07	337.16	51.53	194.23		10.35	18.92	83.84	86.68	07-Jan-16 05:00:00		417.42	356.08	135.37	280.91
07-Jan-16 06:00:00	07-Jan-16 07:00:00		1,201.74	1,330.25	42.75	190.33	2.1	329.7		396.21	438.58	14.10	62.75		10.35	18.92	83.84	86.68	07-Jan-16 06:00:00		406.56	457.50	97.94	149.43
07-Jan-16 07:00:00	07-Jan-16 08:00:00		1,189.83	2,338.37	206.00	191.64	2.1	329.7		392.29	770.96	67.92	63.18		10.35	18.92	83.84	86.68	07-Jan-16 07:00:00		402.64	789.88	151.76	149.86
07-Jan-16 08:00:00	07-Jan-16 09:00:00		1,190.30	2,478.86	233.39	177.29	2.1	329.7		392.44	817.28	76.95	58.45		10.35	18.92	83.84	86.68	07-Jan-16 08:00:00		402.79	836.20	160.79	145.13
07-Jan-16 09:00:00	07-Jan-16 10:00:00		1,039.04	2,150.69	153.19	167.68	2.1	329.7		342.57	709.08	50.51	55.28		10.35	18.92	83.84	86.68	07-Jan-16 09:00:00		352.92	728.00	134.35	141.96
07-Jan-16 10:00:00	07-Jan-16 11:00:00		662.05	1,596.98	6.61	331.29	2.1	329.7		218.28	526.53	2.18	109.23		10.35	18.92	83.84	86.68	07-Jan-16 10:00:00		228.63	545.45	86.02	195.91
07-Jan-16 11:00:00	07-Jan-16 12:00:00		519.59	1,770.80	0.00	7.41	2.1	329.7		171.31	583.83	0.00	2.44		10.35	18.92	83.84	86.68	07-Jan-16 11:00:00		181.66	602.75	83.84	89.12
07-Jan-16 12:00:00	07-Jan-16 13:00:00		496.40	1,834.80	0.00	7.27	2.1	329.7		163.66	604.93	0.00	2.40		10.35	18.92	83.84	86.68	07-Jan-16 12:00:00		174.01	623.85	83.84	89.08
07-Jan-16 13:00:00	07-Jan-16 14:00:00		495.62	1,812.16	0.00	7.14	2.1	329.7		163.41	597.47	0.00	2.35		10.35	18.92	83.84	86.68	07-Jan-16 13:00:00		173.76	616.39	83.84	89.03
07-Jan-16 14:00:00	07-Jan-16 15:00:00		535.79	1,513.50	0.00	6.99	2.1	329.7		176.65	499.00	0.00	2.30		10.35	18.92	83.84	86.68	07-Jan-16 14:00:00		187.00	517.92	83.84	88.98
07-Jan-16 15:00:00	07-Jan-16 16:00:00		608.96	1,801.37	0.00	6.87	2.1	329.7		200.77	593.91	0.00	2.26		10.35	18.92	83.84	86.68	07-Jan-16 15:00:00		211.12	612.83	83.84	88.94
07-Jan-16 16:00:00	07-Jan-16 17:00:00		525.69	936.91	0.00	6.93	2.1	329.7		173.32	308.90	0.00	2.28		10.35	18.92	83.84	86.68	07-Jan-16 16:00:00		183.67	327.82	83.84	88.96
07-Jan-16 17:00:00	07-Jan-16 18:00:00		530.83	923.54	0.00	6.99	2.1	329.7		175.02	304.49	0.00	2.31		10.35	18.92	83.84	86.68	07-Jan-16 17:00:00		185.37	323.41	83.84	88.99
07-Jan-16 18:00:00	07-Jan-16 19:00:00		522.64	925.14	0.00	7.04	2.1	329.7		172.32	305.02	0.00	2.32		10.35	18.92	83.84	86.68	07-Jan-16 18:00:00		182.67	323.94	83.84	89.00
07-Jan-16 19:00:00	07-Jan-16 20:00:00		476.78	930.41	0.00	7.05	2.1	329.7		157.19	306.76	0.00	2.32		10.35	18.92	83.84	86.68	07-Jan-16 19:00:00		167.54	325.68	83.84	89.00
07-Jan-16 20:00:00	07-Jan-16 21:00:00		462.87	959.98	0.00	7.18	2.1	329.7		152.61	316.51	0.00	2.37		10.35	18.92	83.84	86.68	07-Jan-16 20:00:00		162.96	335.43	83.84	89.05
07-Jan-16 21:00:00	07-Jan-16 22:00:00		516.56	1,014.95	0.00	7.32	2.1	329.7		170.31	334.63	0.00	2.41		10.35	18.92	83.84	86.68	07-Jan-16 21:00:00		180.66	353.55	83.84	89.09
07-Jan-16 22:00:00	07-Jan-16 23:00:00		491.12	998.11	0.00	7.46	2.1	329.7		161.92	329.08	0.00	2.46		10.35	18.92	83.84	86.68	07-Jan-16 22:00:00		172.27	348.00	83.84	89.14
07-Jan-16 23:00:00	08-Jan-16 00:00:00		477.18	955.03	0.00	7.65	2.1	329.7		157.33	314.87	0.00	2.52		10.35	18.92	83.84	86.68	07-Jan-16 23:00:00		167.68	333.79	83.84	89.20
08-Jan-16 00:00:00	08-Jan-16 01:00:00		415.06	983.40	0.00	7.78	2.1	329.7		136.84	324.23	0.00	2.56		10.35	18.92	83.84	86.68	08-Jan-16 00:00:00		147.19	343.15	83.84	89.24
08-Jan-16 01:00:00	08-Jan-16 02:00:00		207.94	914.44	0.00	7.91	2.1	329.7		68.56	301.49	0.00	2.61		10.35	18.92	83.84	86.68	08-Jan-16 01:00:00		78.91	320.41	83.84	89.29
08-Jan-16 02:00:00	08-Jan-16 03:00:00		147.44	652.66	0.00	8.05	2.1	329.7		48.61	215.18	0.00	2.65		10.35	18.92	83.84	86.68	08-Jan-16 02:00:00		58.96	234.10	83.84	89.33
08-Jan-16 03:00:00	08-Jan-16 04:00:00		2.33	671.28	0.00	8.21	2.1	329.7		0.77	221.32	0.00	2.71		10.35	18.92	83.84	86.68	08-Jan-16 03:00:00		11.12	240.24	83.84	89.39
08-Jan-16 04:00:00	08-Jan-16 05:00:00		0.92	670.45	0.00	8.17	2.1	329.7		0.30	221.05	0.00	2.69		10.35	18.92	83.84	86.68	08-Jan-16 04:00:00		10.65	239.97	83.84	89.37
08-Jan-16 05:00:00	08-Jan-16 06:00:00		1.00	669.44	0.00	8.14	2.1	329.7		0.33	220.71	0.00	2.68		10.35	18.92	83.84	86.68	08-Jan-16 05:00:00		10.68	239.63	83.84	89.36
08-Jan-16 06:00:00	08-Jan-16 07:00:00		1.07	669.41	0.00	8.10	2.1	329.7		0.35	220.70	0.00	2.67		10.35	18.92	83.84	86.68	08-Jan-16 06:00:00		10.70	239.62	83.84	89.35
08-Jan-16 07:00:00	08-Jan-16 08:00:00		0.99	810.37	0.00	8.03	2.1	329.7		0.33	267.18	0.00	2.65		10.35	18.92	83.84	86.68	08-Jan-16 07:00:00		10.68	286.10	83.84	89.33
08-Jan-16 08:00:00	08-Jan-16 09:00:00		0.65	983.38	0.00	8.03	2.1	329.7		0.21	324.22	0.00	2.65		10.35	18.92	83.84	86.68	08-Jan-16 08:00:00		10.56	343.14	83.84	89.33
08-Jan-16 09:00:00	08-Jan-16 10:00:00		0.44	1,018.08	0.00	8.03	2.1	329.7		0.15	335.66	0.00	2.65		10.35	18.92	83.84	86.68	08-Jan-16 09:00:00		10.50	354.58	83.84	89.33
08-Jan-16 10:00:00	08-Jan-16 11:00:00		0.23	1,016.69	0.00	8.01	2.1	329.7		0.08	335.20	0.00	2.64		10.35	18.92	83.84	86.68	08-Jan-16 10:00:00		10.43	354.12	83.84	89.32
08-Jan-16 11:00:00	08-Jan-16 12:00:00		0.04	1,017.35	0.00	7.82	2.1	329.7		0.01	335.42	0.00	2.58		10.35	18.92	83.84	86.68	08-Jan-16 11:00:00		10.36	354.34	83.84	89.26
08-Jan-16 12:00:00	08-Jan-16 13:00:00		0.00	1,016.52	0.00	7.75	2.1	329.7		0.00	335.15	0.00	2.56		10.35	18.92	83.84	86.68	08-Jan-16 12:00:00		10.35	354.07	83.84	89.24
08-Jan-16 13:00:00	08-Jan-16 14:00:00		0.00	1,016.95	0.00	7.68	2.1	329.7		0.00	335.29	0.00	2.53		10.35	18.92	83.84	86.68	08-Jan-16 13:00:00		10.35	354.21	83.84	89.21
08-Jan-16 14:00:00	08-Jan-16 15:00:00		0.00	1,019.90	0.00	7.61	2.1	329.7		0.00	336.26	0.00	2.51		10.35	18.92	83.84	86.68	08-Jan-16 14:00:00		10.35	355.18	83.84	89.19
08-Jan-16 15:00:00	08-Jan-16 16:00:00		0.00	1,004.86	0.00	7.62	2.1	329.7		0.00	331.30	0.00	2.51		10.35	18.92	83.84	86.68	08-Jan-16 15:00:00		10.35	350.22	83.84	89.19
08-Jan-16 16:00:00	08-Jan-16 17:00:00		0.00	780.19	0.00	7.61	2.1	329.7		0.00	257.23	0.00	2.51		10.35	18.92	83.84	86.68	08-Jan-16 16:00:00		10.35	276.15	83.84	89.19
08-Jan-16 17:00:00	08-Jan-16 18:00:00		0.00	878.27	0.00	7.60	2.1	329.7		0.00	289.57	0.00	2.51		10.35	18.92	83.84	86.68	08-Jan-16 17:00:00		10.35	308.49	83.84	89.19
08-Jan-16 18:00:00	08-Jan-16 19:00:00		0.00	1,547.80	0.00	7.59	2.1	329.7		0.00	510.31	0.00	2.50		10.35	18.92	83.84	86.68	08-Jan-16 18:00:00		10.35	529.23	83.84	89.18
08-Jan-16 19:00:00	08-Jan-16 20:00:00		0.00	1,542.85	0.00	7.61	2.1	329.7		0.00	508.68	0.00	2.51		10.35	18.92	83.84	86.68	08-Jan-16 19:00:00		10.35	527.60	83.84	89.19
08-Jan-16 20:00:00	08-Jan-16 21:00:00		0.00	1,520.92	0.00	7.63	2.1	329.7		0.00	501.45	0.00	2.52		10.35	18.92	83.84	86.68	08-Jan-16 20:00:00		10.35	520.37	83.84	89.20
08-Jan-16 21:00:00	08-Jan-16 22:00:00		0.00	1,653.18	0.00	7.65	2.1	329.7		0.00	545.05	0.00	2.52		10.35	18.92	83.84	86.68	08-Jan-16 21:00:00		10.35	563.97	83.84	89.20
08-Jan-16 22:00:00	08-Jan-16 23:00:00		0.22	1,686.70	0.00	7.66	2.1	329.7		0.07	556.11	0.00	2.52		10.35	18.92	83.84	86.68	08-Jan-16 22:00:00		10.42	575.03	83.84	89.20
08-Jan-16 23:00:00	09-Jan-16 00:00:00		0.59	1,603.45	0.00	7.54	2.1	329.7		0.20	528.66	0.00	2.49		10.35	18.92	83.84	86.68	08-Jan-16 23:00:00		10.55	547.58	83.84	89.17
09-Jan-16 00:00:00	09-Jan-16 01:00:00		0.00	1,412.67	0.00	7.54	2.1	329.7		0.00	465.76	0.00	2.49		10.35	18.92	83.84	86.68	09-Jan-16 00:00:00		10.35	484.68	83.84	89.17
09-Jan-16 01:00:00	09-Jan-16 02:00:00		0.00	1,640.77	0.00	7.54	2.1	329.7		0.00	540.96	0.00	2.49		10.35	18.92	83.84	86.68	09-Jan-16 01:00:00		10.35	559.88	83.84	89.17
09-Jan-16 02:00:00	09-Jan-16 03:00:00		0.00	1,673.22	0.00	7.54	2.1	329.7		0.00	551.66	0.00	2.49		10.35	18.92	83.84	86.68	09-Jan-16 02:00:00		10.35	570.58	83.84	89.17
09-Jan-16 03:00:00	09-Jan-16 04:00:00		0.00	1,699.19	0.00	7.71	2.1	329.7		0.00	560.22	0.00	2.54		10.35	18.92	83.84	86.68	09-Jan-16 03:00:00		10.35	579.14	83.84	89.22
09-Jan-16 04:00:00	09-Jan-16 05:00:00		0.00	1,725.28	0.00	7.82	2.1	329.7		0.00	568.83	0.00	2.58		10.35	18.92	83.84	86.68	09-Jan-16 04:00:00		10.35	587.75	83.84	89.26
09-Jan-16 05:00:00	09-Jan-16 06:00:00		0.00	1,726.34	0.00	7.93	2.1	329.7		0.00	569.17	0.00	2.62		10.35	18.92	83.84	86.68	09-Jan-16 05:00:00		10.35	588.09	83.84	89.30
09-Jan-16 06:00:00	09-Jan-16 07:00:00		0.00	1,728.68	0.00	8.04	2.1	329.7		0.00	569.95	0.00	2.65		10.35	18.92	83.84	86.68	09-Jan-16 06:00:00		10.35	588.87	83.84	89.33
09-Jan-16 07:00:00	09-Jan-16 08:00:00		0.00	1,728.10	0.00	8.09	2.1	329.7		0.00	569.75	0.00	2.67		10.35	18.92	83.84	86.68	09-Jan-16 07:00:00		10.35	588.67	83.84	89.35
09-Jan-16 08:00:00	09-Jan-16 09:00:00		0.00	851.73	0.00	8.07	2.1	329.7		0.00	280.82	0.00	2.66		10.35	18.92	83.84	86.68	09-Jan-16 08:00:00		10.35	299.74	83.84	89.34
09-Jan-16 09:00:00	09-Jan-16 10:00:00		2.12	0.28	0.00	8.05	2.1	329.7		0.70	0.09	0.00	2.65		10.35	18.92	83.84	86.68	09-Jan-16 09:00:00		11.05	19.01	83.84	89.33
09-Jan-16 10:00:00	09-Jan-16 11:00:00		0.00	0.00	36.60	8.03	2.1	329.7		0.00	0.00	12.07	2.65		10.35	18.92	83.84	86.68	09-Jan-16 10:00:00		10.35	18.92	95.91	89.33
09-Jan-16 11:00:00	09-Jan-16 12:00:00		0.00	0.00	0.00	7.89	2.1	329.7		0.00	0.00	0.00	2.60		10.35	18.92	83.84	86.68	09-Jan-16 11:00:00		10.35	18.92	83.84	89.28
09-Jan-16 12:00:00	09-Jan-16 13:00:00		0.00	0.00	0.00	7.71	2.1	329.7		0.00	0.00	0.00	2.54		10.35	18.92	83.84	86.68	09-Jan-16 12:00:00		10.35	18.92	83.84	89.22
09-Jan-16 13:00:00	09-Jan-16 14:00:00		0.69	0.00	0.00	7.53	2.1	329.7		0.23	0.00	0.00	2.48		10.35	18.92	83.84	86.68	09-Jan-16 13:00:00		10.58	18.92	83.84	89.16
09-Jan-16 14:00:00	09-Jan-16 15:00:00		9.71	0.00	0.00	7.35	2.1	329.7		3.20	0.00	0.00	2.42		10.35	18.92	83.84	86.68	09-Jan-16 14:00:00		13.55	18.92	83.84	89.10
09-Jan-16 15:00:00	09-Jan-16 16:00:00		9.09	0.00	0.00	7.28	2.1	329.7		3.00	0.00	0.00	2.40		10.35	18.92	83.84	86.68	09-Jan-16 15:00:00		13.35	18.92	83.84	89.08
09-Jan-16 16:00:00	09-Jan-16 17:00:00		0.52	0.00	0.00	7.32	2.1	329.7		0.17	0.00	0.00	2.41		10.35	18.92	83.84	86.68	09-Jan-16 16:00:00		10.52	18.92	83.84	89.09
09-Jan-16 17:00:00	09-Jan-16 18:00:00		0.18	0.00	0.00	7.37	2.1	329.7		0.06	0.00	0.00	2.43		10.35	18.92	83.84	86.68	09-Jan-16 17:00:00		10.41	18.92	83.84	89.11
09-Jan-16 18:00:00	09-Jan-16 19:00:00		0.78	0.00	0.00	8.75	2.1	329.7		0.26	0.00	0.00	2.89		10.35	18.92	83.84	86.68	09-Jan-16 18:00:00		10.61	18.92	83.84	89.57
09-Jan-16 19:00:00	09-Jan-16 20:00:00		0.24	0.00	0.00	7.31	2.1	329.7		0.08	0.00	0.00	2.41		10.35	18.92	83.84	86.68	09-Jan-16 19:00:00		10.43	18.92	83.84	89.09
09-Jan-16 20:00:00	09-Jan-16 21:00:00		1.12	0.00	0.00	7.35	2.1	329.7		0.37	0.00	0.00	2.42		10.35	18.92	83.84	86.68	09-Jan-16 20:00:00		10.72	18.92	83.84	89.10
09-Jan-16 21:00:00	09-Jan-16 22:00:00		1.42	0.00	0.00	7.39	2.1	329.7		0.47	0.00	0.00	2.44		10.35	18.92	83.84	86.68	09-Jan-16 21:00:00		10.82	18.92	83.84	89.12
09-Jan-16 22:00:00	09-Jan-16 23:00:00		0.00	0.00	0.00	7.47	2.1	329.7		0.00	0.00	0.00	2.46		10.35	18.92	83.84	86.68	09-Jan-16 22:00:00		10.35	18.92	83.84	89.14
09-Jan-16 23:00:00	10-Jan-16 00:00:00		0.00	0.00	0.00	7.50	2.1	329.7		0.00	0.00	0.00	2.47		10.35	18.92	83.84	86.68	09-Jan-16 23:00:00		10.35	18.92	83.84	89.15
10-Jan-16 00:00:00	10-Jan-16 01:00:00		0.00	0.00	0.00	7.38	2.1	329.7		0.00	0.00	0.00	2.43		10.35	18.92	83.84	86.68	10-Jan-16 00:00:00		10.35	18.92	83.84	89.11
10-Jan-16 01:00:00	10-Jan-16 02:00:00		0.00	0.00	0.00	7.26	2.1	329.7		0.00	0.00	0.00	2.39		10.35	18.92	83.84	86.68	10-Jan-16 01:00:00		10.35	18.92	83.84	89.07
10-Jan-16 02:00:00	10-Jan-16 03:00:00		0.00	0.00	0.00	7.14	2.1	329.7		0.00	0.00	0.00	2.35		10.35	18.92	83.84	86.68	10-Jan-16 02:00:00		10.35	18.92	83.84	89.03
10-Jan-16 03:00:00	10-Jan-16 04:00:00		0.00	0.00	0.00	7.01	2.1	329.7		0.00	0.00	0.00	2.31		10.35	18.92	83.84	86.68	10-Jan-16 03:00:00		10.35	18.92	83.84	88.99
10-Jan-16 04:00:00	10-Jan-16 05:00:00		0.00	0.00	0.00	6.88	2.1	329.7		0.00	0.00	0.00	2.27		10.35	18.92	83.84	86.68	10-Jan-16 04:00:00		10.35	18.92	83.84	88.95
10-Jan-16 05:00:00	10-Jan-16 06:00:00		3.42	0.00	0.00	13.77	2.1	329.7		1.13	0.00	0.00	4.54		10.35	18.92	83.84	86.68	10-Jan-16 05:00:00		11.48	18.92	83.84	91.22
10-Jan-16 06:00:00	10-Jan-16 07:00:00		10.50	0.00	0.00	7.21	2.1	329.7		3.46	0.00	0.00	2.38		10.35	18.92	83.84	86.68	10-Jan-16 06:00:00		13.81	18.92	83.84	89.06
10-Jan-16 07:00:00	10-Jan-16 08:00:00		16.22	0.00	0.00	7.36	2.1	329.7		5.35	0.00	0.00	2.43		10.35	18.92	83.84	86.68	10-Jan-16 07:00:00		15.70	18.92	83.84	89.11
10-Jan-16 08:00:00	10-Jan-16 09:00:00		14.39	0.00	0.00	7.52	2.1	329.7		4.75	0.00	0.00	2.48		10.35	18.92	83.84	86.68	10-Jan-16 08:00:00		15.10	18.92	83.84	89.16
10-Jan-16 09:00:00	10-Jan-16 10:00:00		14.60	0.00	0.00	7.53	2.1	329.7		4.81	0.00	0.00	2.48		10.35	18.92	83.84	86.68	10-Jan-16 09:00:00		15.16	18.92	83.84	89.16
10-Jan-16 10:00:00	10-Jan-16 11:00:00		14.81	0.00	0.00	7.49	2.1	329.7		4.88	0.00	0.00	2.47		10.35	18.92	83.84	86.68	10-Jan-16 10:00:00		15.23	18.92	83.84	89.15
10-Jan-16 11:00:00	10-Jan-16 12:00:00		14.91	0.00	0.00	7.46	2.1	329.7		4.92	0.00	0.00	2.46		10.35	18.92	83.84	86.68	10-Jan-16 11:00:00		15.27	18.92	83.84	89.14
10-Jan-16 12:00:00	10-Jan-16 13:00:00		14.06	0.00	0.00	7.44	2.1	329.7		4.64	0.00	0.00	2.45		10.35	18.92	83.84	86.68	10-Jan-16 12:00:00		14.99	18.92	83.84	89.13
10-Jan-16 13:00:00	10-Jan-16 14:00:00		12.75	0.00	0.00	7.40	2.1	329.7		4.21	0.00	0.00	2.44		10.35	18.92	83.84	86.68	10-Jan-16 13:00:00		14.56	18.92	83.84	89.12
10-Jan-16 14:00:00	10-Jan-16 15:00:00		8.61	0.00	0.00	7.35	2.1	329.7		2.84	0.00	0.00	2.42		10.35	18.92	83.84	86.68	10-Jan-16 14:00:00		13.19	18.92	83.84	89.10
10-Jan-16 15:00:00	10-Jan-16 16:00:00		241.26	477.56	0.00	7.31	2.1	329.7		79.54	157.45	0.00	2.41		10.35	18.92	83.84	86.68	10-Jan-16 15:00:00		89.89	176.37	83.84	89.09
10-Jan-16 16:00:00	10-Jan-16 17:00:00		1,022.70	787.79	0.00	7.27	2.1	329.7		337.18	259.74	0.00	2.40		10.35	18.92	83.84	86.68	10-Jan-16 16:00:00		347.53	278.66	83.84	89.08
10-Jan-16 17:00:00	10-Jan-16 18:00:00		888.21	692.18	0.00	7.47	2.1	329.7		292.84	228.21	0.00	2.46		10.35	18.92	83.84	86.68	10-Jan-16 17:00:00		303.19	247.13	83.84	89.14
10-Jan-16 18:00:00	10-Jan-16 19:00:00		822.66	644.83	0.00	7.56	2.1	329.7		271.23	212.60	0.00	2.49		10.35	18.92	83.84	86.68	10-Jan-16 18:00:00		281.58	231.52	83.84	89.17
10-Jan-16 19:00:00	10-Jan-16 20:00:00		812.55	644.57	0.00	7.57	2.1	329.7		267.90	212.52	0.00	2.50		10.35	18.92	83.84	86.68	10-Jan-16

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
12-Jan-16 22:00:00	12-Jan-16 23:00:00		1,873.04	1,846.40	0.00	7.59	2.1	329.7		617.54	608.76	0.00	2.50		10.35	18.92	83.84	86.68	12-Jan-16 22:00:00		**627.89**	**627.68**	**83.84**	**89.18**
12-Jan-16 23:00:00	13-Jan-16 00:00:00		1,852.17	1,767.76	0.00	7.72	2.1	329.7		610.66	582.83	0.00	2.55		10.35	18.92	83.84	86.68	12-Jan-16 23:00:00		**621.01**	**601.75**	**83.84**	**89.23**
13-Jan-16 00:00:00	13-Jan-16 01:00:00		1,914.57	1,805.99	0.00	7.85	2.1	329.7		631.23	595.44	0.00	2.59		10.35	18.92	83.84	86.68	13-Jan-16 00:00:00		**641.58**	**614.36**	**83.84**	**89.27**
13-Jan-16 01:00:00	13-Jan-16 02:00:00		1,778.37	1,689.00	0.00	7.98	2.1	329.7		586.33	556.86	0.00	2.63		10.35	18.92	83.84	86.68	13-Jan-16 01:00:00		**596.68**	**575.78**	**83.84**	**89.31**
13-Jan-16 02:00:00	13-Jan-16 03:00:00		1,550.36	1,436.89	18.76	8.24	2.1	329.7		511.15	473.74	6.19	2.72		10.35	18.92	83.84	86.68	13-Jan-16 02:00:00		**521.50**	**492.66**	**90.03**	**89.40**
13-Jan-16 03:00:00	13-Jan-16 04:00:00		1,304.04	1,189.49	172.78	8.19	2.1	329.7		429.94	392.18	56.97	2.70		10.35	18.92	83.84	86.68	13-Jan-16 03:00:00		**440.29**	**411.10**	**140.81**	**89.38**
13-Jan-16 04:00:00	13-Jan-16 05:00:00		1,393.50	1,306.32	44.08	8.13	2.1	329.7		459.44	430.69	14.53	2.68		10.35	18.92	83.84	86.68	13-Jan-16 04:00:00		**469.79**	**449.61**	**98.37**	**89.36**
13-Jan-16 05:00:00	13-Jan-16 06:00:00		1,665.87	1,599.57	0.00	8.08	2.1	329.7		549.24	527.38	0.00	2.67		10.35	18.92	83.84	86.68	13-Jan-16 05:00:00		**559.59**	**546.30**	**83.84**	**89.35**
13-Jan-16 06:00:00	13-Jan-16 07:00:00		1,441.00	1,361.52	0.00	8.10	2.1	329.7		475.10	448.89	0.00	2.67		10.35	18.92	83.84	86.68	13-Jan-16 06:00:00		**485.45**	**467.81**	**83.84**	**89.35**
13-Jan-16 07:00:00	13-Jan-16 08:00:00		1,765.90	1,651.46	0.00	8.23	2.1	329.7		582.22	544.49	0.00	2.71		10.35	18.92	83.84	86.68	13-Jan-16 07:00:00		**592.57**	**563.41**	**83.84**	**89.39**
13-Jan-16 08:00:00	13-Jan-16 09:00:00		1,639.78	1,579.92	0.00	8.36	2.1	329.7		540.64	520.90	0.00	2.76		10.35	18.92	83.84	86.68	13-Jan-16 08:00:00		**550.99**	**539.82**	**83.84**	**89.44**
13-Jan-16 09:00:00	13-Jan-16 10:00:00		1,295.83	1,200.31	0.00	8.49	2.1	329.7		427.24	395.74	0.00	2.80		10.35	18.92	83.84	86.68	13-Jan-16 09:00:00		**437.59**	**414.66**	**83.84**	**89.48**
13-Jan-16 10:00:00	13-Jan-16 11:00:00		1,476.11	1,174.99	0.00	8.49	2.1	329.7		486.67	387.39	0.00	2.80		10.35	18.92	83.84	86.68	13-Jan-16 10:00:00		**497.02**	**406.31**	**83.84**	**89.48**
13-Jan-16 11:00:00	13-Jan-16 12:00:00		1,633.78	1,168.56	0.00	8.23	2.1	329.7		538.66	385.27	0.00	2.71		10.35	18.92	83.84	86.68	13-Jan-16 11:00:00		**549.01**	**404.19**	**83.84**	**89.39**
13-Jan-16 12:00:00	13-Jan-16 13:00:00		1,420.65	1,039.83	0.00	7.98	2.1	329.7		468.39	342.83	0.00	2.63		10.35	18.92	83.84	86.68	13-Jan-16 12:00:00		**478.74**	**361.75**	**83.84**	**89.31**
13-Jan-16 13:00:00	13-Jan-16 14:00:00		1,376.48	950.89	0.00	7.73	2.1	329.7		453.83	313.51	0.00	2.55		10.35	18.92	83.84	86.68	13-Jan-16 13:00:00		**464.18**	**332.43**	**83.84**	**89.23**
13-Jan-16 14:00:00	13-Jan-16 15:00:00		1,374.42	947.75	0.00	7.54	2.1	329.7		453.15	312.47	0.00	2.49		10.35	18.92	83.84	86.68	13-Jan-16 14:00:00		**463.50**	**331.39**	**83.84**	**89.17**
13-Jan-16 15:00:00	13-Jan-16 16:00:00		1,415.67	962.66	0.00	7.39	2.1	329.7		466.75	317.39	0.00	2.44		10.35	18.92	83.84	86.68	13-Jan-16 15:00:00		**477.10**	**336.31**	**83.84**	**89.12**
13-Jan-16 16:00:00	13-Jan-16 17:00:00		1,386.40	844.50	0.00	7.24	2.1	329.7		457.10	278.43	0.00	2.39		10.35	18.92	83.84	86.68	13-Jan-16 16:00:00		**467.45**	**297.35**	**83.84**	**89.07**
13-Jan-16 17:00:00	13-Jan-16 18:00:00		1,408.12	946.74	0.00	7.08	2.1	329.7		464.26	312.14	0.00	2.33		10.35	18.92	83.84	86.68	13-Jan-16 17:00:00		**474.61**	**331.06**	**83.84**	**89.01**
13-Jan-16 18:00:00	13-Jan-16 19:00:00		1,436.63	1,055.67	0.00	7.26	2.1	329.7		473.66	348.05	0.00	2.39		10.35	18.92	83.84	86.68	13-Jan-16 18:00:00		**484.01**	**366.97**	**83.84**	**89.07**
13-Jan-16 19:00:00	13-Jan-16 20:00:00		1,467.27	1,073.44	0.00	7.43	2.1	329.7		483.76	353.91	0.00	2.45		10.35	18.92	83.84	86.68	13-Jan-16 19:00:00		**494.11**	**372.83**	**83.84**	**89.13**
13-Jan-16 20:00:00	13-Jan-16 21:00:00		1,466.68	1,073.25	0.00	7.60	2.1	329.7		483.56	353.85	0.00	2.51		10.35	18.92	83.84	86.68	13-Jan-16 20:00:00		**493.91**	**372.77**	**83.84**	**89.19**
13-Jan-16 21:00:00	13-Jan-16 22:00:00		1,519.40	1,099.63	0.00	7.78	2.1	329.7		500.95	362.55	0.00	2.56		10.35	18.92	83.84	86.68	13-Jan-16 21:00:00		**511.30**	**381.47**	**83.84**	**89.24**
13-Jan-16 22:00:00	13-Jan-16 23:00:00		1,593.39	1,161.31	0.00	7.75	2.1	329.7		525.34	382.88	0.00	2.56		10.35	18.92	83.84	86.68	13-Jan-16 22:00:00		**535.69**	**401.80**	**83.84**	**89.24**
13-Jan-16 23:00:00	14-Jan-16 00:00:00		1,587.32	1,121.86	0.00	7.88	2.1	329.7		523.34	369.88	0.00	2.60		10.35	18.92	83.84	86.68	13-Jan-16 23:00:00		**533.69**	**388.80**	**83.84**	**89.28**
14-Jan-16 00:00:00	14-Jan-16 01:00:00		1,667.26	1,157.80	0.00	8.01	2.1	329.7		549.69	381.73	0.00	2.64		10.35	18.92	83.84	86.68	14-Jan-16 00:00:00		**560.04**	**400.65**	**83.84**	**89.32**
14-Jan-16 01:00:00	14-Jan-16 02:00:00		1,750.73	1,195.33	0.00	8.15	2.1	329.7		577.22	394.10	0.00	2.69		10.35	18.92	83.84	86.68	14-Jan-16 01:00:00		**587.57**	**413.02**	**83.84**	**89.37**
14-Jan-16 02:00:00	14-Jan-16 03:00:00		1,653.79	1,169.47	0.00	8.09	2.1	329.7		545.26	385.58	0.00	2.67		10.35	18.92	83.84	86.68	14-Jan-16 02:00:00		**555.61**	**404.50**	**83.84**	**89.35**
14-Jan-16 03:00:00	14-Jan-16 04:00:00		1,772.50	1,244.17	0.00	8.17	2.1	329.7		584.39	410.20	0.00	2.69		10.35	18.92	83.84	86.68	14-Jan-16 03:00:00		**594.74**	**429.12**	**83.84**	**89.37**
14-Jan-16 04:00:00	14-Jan-16 05:00:00		1,524.32	1,051.82	0.00	8.24	2.1	329.7		502.57	346.79	0.00	2.72		10.35	18.92	83.84	86.68	14-Jan-16 04:00:00		**512.92**	**365.71**	**83.84**	**89.40**
14-Jan-16 05:00:00	14-Jan-16 06:00:00		1,612.40	1,123.58	0.00	8.32	2.1	329.7		531.61	370.44	0.00	2.74		10.35	18.92	83.84	86.68	14-Jan-16 05:00:00		**541.96**	**389.36**	**83.84**	**89.42**
14-Jan-16 06:00:00	14-Jan-16 07:00:00		1,538.27	1,103.30	0.00	8.17	2.1	329.7		507.17	363.76	0.00	2.69		10.35	18.92	83.84	86.68	14-Jan-16 06:00:00		**517.52**	**382.68**	**83.84**	**89.37**
14-Jan-16 07:00:00	14-Jan-16 08:00:00		1,835.73	1,196.59	0.00	8.05	2.1	329.7		605.24	394.52	0.00	2.65		10.35	18.92	83.84	86.68	14-Jan-16 07:00:00		**615.59**	**413.44**	**83.84**	**89.33**
14-Jan-16 08:00:00	14-Jan-16 09:00:00		1,582.39	1,112.88	0.00	7.94	2.1	329.7		521.72	366.92	0.00	2.62		10.35	18.92	83.84	86.68	14-Jan-16 08:00:00		**532.07**	**385.84**	**83.84**	**89.30**
14-Jan-16 09:00:00	14-Jan-16 10:00:00		1,791.21	1,046.93	0.00	7.82	2.1	329.7		590.56	345.17	0.00	2.58		10.35	18.92	83.84	86.68	14-Jan-16 09:00:00		**600.91**	**364.09**	**83.84**	**89.26**
14-Jan-16 10:00:00	14-Jan-16 11:00:00		1,573.93	515.40	0.00	7.53	2.1	329.7		518.93	169.93	0.00	2.48		10.35	18.92	83.84	86.68	14-Jan-16 10:00:00		**529.28**	**188.85**	**83.84**	**89.16**
14-Jan-16 11:00:00	14-Jan-16 12:00:00		1,237.63	0.00	0.00	7.03	2.1	329.7		408.05	0.00	0.00	2.32		10.35	18.92	83.84	86.68	14-Jan-16 11:00:00		**418.40**	**18.92**	**83.84**	**89.00**
14-Jan-16 12:00:00	14-Jan-16 13:00:00		1,376.98	0.00	0.00	35.96	2.1	329.7		453.99	0.00	0.00	11.86		10.35	18.92	83.84	86.68	14-Jan-16 12:00:00		**464.34**	**18.92**	**83.84**	**98.54**
14-Jan-16 13:00:00	14-Jan-16 14:00:00		874.47	0.00	0.00	171.78	2.1	329.7		288.31	0.00	0.00	56.63		10.35	18.92	83.84	86.68	14-Jan-16 13:00:00		**298.66**	**18.92**	**83.84**	**143.31**
14-Jan-16 14:00:00	14-Jan-16 15:00:00		1,017.44	6.75	0.00	6.16	2.1	329.7		335.45	2.22	0.00	2.03		10.35	18.92	83.84	86.68	14-Jan-16 14:00:00		**345.80**	**21.14**	**83.84**	**88.71**
14-Jan-16 15:00:00	14-Jan-16 16:00:00		1,007.38	68.24	0.00	6.21	2.1	329.7		332.13	22.50	0.00	2.05		10.35	18.92	83.84	86.68	14-Jan-16 15:00:00		**342.48**	**41.42**	**83.84**	**88.73**
14-Jan-16 16:00:00	14-Jan-16 17:00:00		1,047.59	14.46	0.00	6.26	2.1	329.7		345.39	4.77	0.00	2.06		10.35	18.92	83.84	86.68	14-Jan-16 16:00:00		**355.74**	**23.69**	**83.84**	**88.74**
14-Jan-16 17:00:00	14-Jan-16 18:00:00		871.01	261.30	0.00	6.27	2.1	329.7		287.17	86.15	0.00	2.07		10.35	18.92	83.84	86.68	14-Jan-16 17:00:00		**297.52**	**105.07**	**83.84**	**88.75**
14-Jan-16 18:00:00	14-Jan-16 19:00:00		1,005.81	281.52	0.00	6.28	2.1	329.7		331.62	92.82	0.00	2.07		10.35	18.92	83.84	86.68	14-Jan-16 18:00:00		**341.97**	**111.74**	**83.84**	**88.75**
14-Jan-16 19:00:00	14-Jan-16 20:00:00		924.99	334.50	0.00	6.48	2.1	329.7		304.97	110.28	0.00	2.13		10.35	18.92	83.84	86.68	14-Jan-16 19:00:00		**315.32**	**129.20**	**83.84**	**88.81**
14-Jan-16 20:00:00	14-Jan-16 21:00:00		816.66	377.57	0.00	6.67	2.1	329.7		269.25	124.49	0.00	2.20		10.35	18.92	83.84	86.68	14-Jan-16 20:00:00		**279.60**	**143.41**	**83.84**	**88.88**
14-Jan-16 21:00:00	14-Jan-16 22:00:00		921.53	391.50	0.00	6.95	2.1	329.7		303.83	129.08	0.00	2.29		10.35	18.92	83.84	86.68	14-Jan-16 21:00:00		**314.18**	**148.00**	**83.84**	**88.97**
14-Jan-16 22:00:00	14-Jan-16 23:00:00		1,006.91	415.04	0.00	7.29	2.1	329.7		331.98	136.84	0.00	2.40		10.35	18.92	83.84	86.68	14-Jan-16 22:00:00		**342.33**	**155.76**	**83.84**	**89.08**
14-Jan-16 23:00:00	15-Jan-16 00:00:00		907.72	437.54	0.00	7.34	2.1	329.7		299.27	144.26	0.00	2.42		10.35	18.92	83.84	86.68	14-Jan-16 23:00:00		**309.62**	**163.18**	**83.84**	**89.10**
15-Jan-16 00:00:00	15-Jan-16 01:00:00		981.04	439.14	0.00	7.39	2.1	329.7		323.45	144.78	0.00	2.44		10.35	18.92	83.84	86.68	15-Jan-16 00:00:00		**333.80**	**163.70**	**83.84**	**89.12**
15-Jan-16 01:00:00	15-Jan-16 02:00:00		995.21	695.24	104.54	7.47	2.1	329.7		328.12	229.22	34.47	2.46		10.35	18.92	83.84	86.68	15-Jan-16 01:00:00		**338.47**	**248.14**	**118.31**	**89.14**
15-Jan-16 02:00:00	15-Jan-16 03:00:00		933.35	680.35	130.73	7.68	2.1	329.7		307.72	224.31	43.10	2.53		10.35	18.92	83.84	86.68	15-Jan-16 02:00:00		**318.07**	**243.23**	**126.94**	**89.21**
15-Jan-16 03:00:00	15-Jan-16 04:00:00		824.39	587.45	201.47	7.84	2.1	329.7		271.80	193.68	66.42	2.58		10.35	18.92	83.84	86.68	15-Jan-16 03:00:00		**282.15**	**212.60**	**150.26**	**89.26**
15-Jan-16 04:00:00	15-Jan-16 05:00:00		975.54	704.94	128.44	8.00	2.1	329.7		321.64	232.42	42.35	2.64		10.35	18.92	83.84	86.68	15-Jan-16 04:00:00		**331.99**	**251.34**	**126.19**	**89.32**
15-Jan-16 05:00:00	15-Jan-16 06:00:00		1,298.27	813.43	208.45	8.22	2.1	329.7		428.04	268.19	68.73	2.71		10.35	18.92	83.84	86.68	15-Jan-16 05:00:00		**438.39**	**287.11**	**152.57**	**89.39**
15-Jan-16 06:00:00	15-Jan-16 07:00:00		1,281.60	815.82	171.70	8.41	2.1	329.7		422.54	268.97	56.61	2.77		10.35	18.92	83.84	86.68	15-Jan-16 06:00:00		**432.89**	**287.89**	**140.45**	**89.45**
15-Jan-16 07:00:00	15-Jan-16 08:00:00		1,195.35	829.57	155.10	8.24	2.1	329.7		394.11	286.50	51.14	2.72		10.35	18.92	83.84	86.68	15-Jan-16 07:00:00		**404.46**	**305.42**	**134.98**	**89.40**
15-Jan-16 08:00:00	15-Jan-16 09:00:00		1,196.90	869.63	155.00	8.08	2.1	329.7		394.62	286.72	51.10	2.66		10.35	18.92	83.84	86.68	15-Jan-16 08:00:00		**404.97**	**305.64**	**134.94**	**89.34**
15-Jan-16 09:00:00	15-Jan-16 10:00:00		1,194.80	793.03	154.90	7.92	2.1	329.7		393.93	261.46	51.07	2.61		10.35	18.92	83.84	86.68	15-Jan-16 09:00:00		**404.28**	**280.38**	**134.91**	**89.29**
15-Jan-16 10:00:00	15-Jan-16 11:00:00		1,139.16	792.01	140.44	7.84	2.1	329.7		375.58	261.13	46.30	2.58		10.35	18.92	83.84	86.68	15-Jan-16 10:00:00		**385.93**	**280.05**	**130.14**	**89.26**
15-Jan-16 11:00:00	15-Jan-16 12:00:00		1,084.50	829.36	173.79	7.75	2.1	329.7		357.56	273.44	57.30	2.56		10.35	18.92	83.84	86.68	15-Jan-16 11:00:00		**367.91**	**292.36**	**141.14**	**89.24**
15-Jan-16 12:00:00	15-Jan-16 13:00:00		1,088.10	829.57	98.89	7.67	2.1	329.7		358.75	273.51	32.61	2.53		10.35	18.92	83.84	86.68	15-Jan-16 12:00:00		**369.10**	**292.43**	**116.45**	**89.21**
15-Jan-16 13:00:00	15-Jan-16 14:00:00		1,083.71	676.94	149.36	7.61	2.1	329.7		357.30	223.19	49.24	2.51		10.35	18.92	83.84	86.68	15-Jan-16 13:00:00		**367.65**	**242.11**	**133.08**	**89.19**
15-Jan-16 14:00:00	15-Jan-16 15:00:00		1,059.25	433.99	91.87	7.54	2.1	329.7		349.23	143.09	30.29	2.49		10.35	18.92	83.84	86.68	15-Jan-16 14:00:00		**359.58**	**162.01**	**114.13**	**89.17**
15-Jan-16 15:00:00	15-Jan-16 16:00:00		1,021.94	324.95	137.37	7.34	2.1	329.7		336.93	107.14	45.29	2.42		10.35	18.92	83.84	86.68	15-Jan-16 15:00:00		**347.28**	**126.06**	**129.13**	**89.10**
15-Jan-16 16:00:00	15-Jan-16 17:00:00		1,011.21	256.02	76.99	7.14	2.1	329.7		333.40	84.41	25.38	2.36		10.35	18.92	83.84	86.68	15-Jan-16 16:00:00		**343.75**	**103.33**	**109.22**	**89.04**
15-Jan-16 17:00:00	15-Jan-16 18:00:00		1,001.65	257.67	123.67	7.00	2.1	329.7		330.24	84.95	40.77	2.31		10.35	18.92	83.84	86.68	15-Jan-16 17:00:00		**340.59**	**103.87**	**124.61**	**88.99**
15-Jan-16 18:00:00	15-Jan-16 19:00:00		975.62	258.98	84.03	7.20	2.1	329.7		321.66	85.39	27.71	2.37		10.35	18.92	83.84	86.68	15-Jan-16 18:00:00		**332.01**	**104.31**	**111.55**	**89.05**
15-Jan-16 19:00:00	15-Jan-16 20:00:00		761.52	258.74	79.90	7.35	2.1	329.7		251.07	85.31	26.34	2.42		10.35	18.92	83.84	86.68	15-Jan-16 19:00:00		**261.42**	**104.23**	**110.18**	**89.10**
15-Jan-16 20:00:00	15-Jan-16 21:00:00		768.72	256.75	43.87	7.51	2.1	329.7		253.45	84.65	14.46	2.48		10.35	18.92	83.84	86.68	15-Jan-16 20:00:00		**263.80**	**103.57**	**98.30**	**89.16**
15-Jan-16 21:00:00	15-Jan-16 22:00:00		730.93	258.02	0.00	7.68	2.1	329.7		240.99	85.07	0.00	2.53		10.35	18.92	83.84	86.68	15-Jan-16 21:00:00		**251.34**	**103.99**	**83.84**	**89.21**
15-Jan-16 22:00:00	15-Jan-16 23:00:00		730.99	259.48	0.00	7.80	2.1	329.7		241.01	85.55	0.00	2.57		10.35	18.92	83.84	86.68	15-Jan-16 22:00:00		**251.36**	**104.47**	**83.84**	**89.25**
15-Jan-16 23:00:00	16-Jan-16 00:00:00		725.43	259.01	0.00	7.75	2.1	329.7		239.18	85.39	0.00	2.55		10.35	18.92	83.84	86.68	15-Jan-16 23:00:00		**249.53**	**104.31**	**83.84**	**89.23**
16-Jan-16 00:00:00	16-Jan-16 01:00:00		606.66	239.26	0.00	7.70	2.1	329.7		200.02	78.88	0.00	2.54		10.35	18.92	83.84	86.68	16-Jan-16 00:00:00		**210.37**	**97.80**	**83.84**	**89.22**
16-Jan-16 01:00:00	16-Jan-16 02:00:00		601.06	239.61	0.00	7.62	2.1	329.7		198.17	79.00	0.00	2.51		10.35	18.92	83.84	86.68	16-Jan-16 01:00:00		**208.52**	**97.92**	**83.84**	**89.19**
16-Jan-16 02:00:00	16-Jan-16 03:00:00		663.11	241.03	0.00	7.50	2.1	329.7		218.63	79.47	0.00	2.47		10.35	18.92	83.84	86.68	16-Jan-16 02:00:00		**228.98**	**98.39**	**83.84**	**89.15**
16-Jan-16 03:00:00	16-Jan-16 04:00:00		674.49	241.40	0.00	7.48	2.1	329.7		222.38	79.59	0.00	2.47		10.35	18.92	83.84	86.68	16-Jan-16 03:00:00		**232.73**	**98.51**	**83.84**	**89.15**
16-Jan-16 04:00:00	16-Jan-16 05:00:00		206.83	240.23	0.00	7.45	2.1	329.7		68.19	79.20	0.00	2.46		10.35	18.92	83.84	86.68	16-Jan-16 04:00:00		**78.54**	**98.12**	**83.84**	**89.14**
16-Jan-16 05:00:00	16-Jan-16 06:00:00		0.00	250.07	0.00	7.46	2.1	329.7		0.00	82.45	0.00	2.46		10.35	18.92	83.84	86.68	16-Jan-16 05:00:00		**10.35**	**101.37**	**83.84**	**89.14**
16-Jan-16 06:00:00	16-Jan-16 07:00:00		0.00	238.99	0.00	7.52	2.1	329.7		0.00	78.79	0.00	2.48		10.35	18.92	83.84	86.68	16-Jan-16 06:00:00		**10.35**	**97.71**	**83.84**	**89.16**
16-Jan-16 07:00:00	16-Jan-16 08:00:00		0.00	71.63	0.00	7.42	2.1	329.7		0.00	23.62	0.00	2.45		10.35	18.92	83.84	86.68	16-Jan-16 07:00:00		**10.35**	**42.54**	**83.84**	**89.13**
16-Jan-16 08:00:00	16-Jan-16 09:00:00		0.00	0.00	0.00	7.32	2.1	329.7		0.00	0.00	0.00	2.41		10.35	18.92	83.84	86.68	16-Jan-16 08:00:00		**10.35**	**18.92**	**83.84**	**89.09**
16-Jan-16 09:00:00	16-Jan-16 10:00:00		0.00	0.00	0.00	7.26	2.1	329.7		0.00	0.00	0.00	2.39		10.35	18.92	83.84	86.68	16-Jan-16 09:00:00		**10.35**	**18.92**	**83.84**	**89.07**
16-Jan-16 10:00:00	16-Jan-16 11:00:00		0.00	0.00	0.00	7.35	2.1	329.7		0.00	0.00	0.00	2.42		10.35	18.92	83.84	86.68	16-Jan-16 10:00:00		**10.35**	**18.92**	**83.84**	**89.10**
16-Jan-16 11:00:00	16-Jan-16 12:00:00		0.00	0.00	0.00	7.29	2.1	329.7		0.00	0.00	0.00	2.40		10.35	18.92	83.84	86.68	16-Jan-16 11:00:00		**10.35**	**18.92**	**83.84**	**89.08**
16-Jan-16 12:00:00	16-Jan-16 13:00:00		0.35	0.00	0.00	7.23	2.1	329.7		0.12	0.00	0.00	2.38		10.35	18.92	83.84	86.68	16-Jan-16 12:00:00		**10.47**	**18.92**	**83.84**	**89.06**
16-Jan-16 13:00:00	16-Jan-16 14:00:00		0.21	0.00	0.00	7.12	2.1	329.7		0.07	0.00	0.00	2.35		10.35	18.92	83.84	86.68	16-Jan-16 13:00:00		**10.42**	**18.92**	**83.84**	**89.03**
16-Jan-16 14:00:00	16-Jan-16 15:00:00		0.00	0.00	0.00	6.80	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	16-Jan-16 14:00:00		**10.35**	**18.92**	**83.84**	**88.92**
16-Jan-16 15:00:00	16-Jan-16 16:00:00		1.78	0.00	0.00	6.67	2.1	329.7		0.59	0.00	0.00	2.20		10.35	18.92	83.84	86.68	16-Jan-16 15:00:00		**10.94**	**18.92**	**83.84**	**88.88**
16-Jan-16 16:00:00	16-Jan-16 17:00:00		0.00	0.00	0.00	6.54	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	16-Jan-16 16:00:00		**10.35**	**18.92**	**83.84**	**88.84**
16-Jan-16 17:00:00	16-Jan-16 18:00:00		0.00	0.00	0.00	6.41	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	16-Jan-16 17:00:00		**10.35**	**18.92**	**83.84**	**88.79**
16-Jan-16 18:00:00	16-Jan-16 19:00:00		0.00	0.00

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
18-Jan-16 21:00:00	18-Jan-16 22:00:00		0.22	0.00	0.00	8.73	2.1	329.7		0.07	0.00	0.00	2.88		10.35	18.92	83.84	86.68	18-Jan-16 21:00:00	**10.42**	**18.92**	**83.84**	**89.56**	
18-Jan-16 22:00:00	18-Jan-16 23:00:00		0.44	0.00	0.00	8.87	2.1	329.7		0.14	0.00	0.00	2.92		10.35	18.92	83.84	86.68	18-Jan-16 22:00:00	**10.49**	**18.92**	**83.84**	**89.60**	
18-Jan-16 23:00:00	19-Jan-16 00:00:00		1.19	0.00	0.00	9.00	2.1	329.7		0.39	0.00	0.00	2.97		10.35	18.92	83.84	86.68	18-Jan-16 23:00:00	**10.74**	**18.92**	**83.84**	**89.65**	
19-Jan-16 00:00:00	19-Jan-16 01:00:00		1.24	0.00	0.00	9.14	2.1	329.7		0.41	0.00	0.00	3.01		10.35	18.92	83.84	86.68	19-Jan-16 00:00:00	**10.76**	**18.92**	**83.84**	**89.69**	
19-Jan-16 01:00:00	19-Jan-16 02:00:00		5.26	0.00	0.00	9.20	2.1	329.7		1.73	0.00	0.00	3.03		10.35	18.92	83.84	86.68	19-Jan-16 01:00:00	**12.08**	**18.92**	**83.84**	**89.71**	
19-Jan-16 02:00:00	19-Jan-16 03:00:00		7.41	0.00	0.00	9.19	2.1	329.7		2.44	0.00	0.00	3.03		10.35	18.92	83.84	86.68	19-Jan-16 02:00:00	**12.79**	**18.92**	**83.84**	**89.71**	
19-Jan-16 03:00:00	19-Jan-16 04:00:00		7.92	0.00	0.00	9.18	2.1	329.7		2.61	0.00	0.00	3.03		10.35	18.92	83.84	86.68	19-Jan-16 03:00:00	**12.96**	**18.92**	**83.84**	**89.71**	
19-Jan-16 04:00:00	19-Jan-16 05:00:00		15.63	0.00	0.00	101.28	2.1	329.7		5.15	0.00	0.00	33.39		10.35	18.92	83.84	86.68	19-Jan-16 04:00:00	**15.50**	**18.92**	**83.84**	**120.07**	
19-Jan-16 05:00:00	19-Jan-16 06:00:00		24.24	0.00	0.00	9.25	2.1	329.7		7.99	0.00	0.00	3.05		10.35	18.92	83.84	86.68	19-Jan-16 05:00:00	**18.34**	**18.92**	**83.84**	**89.73**	
19-Jan-16 06:00:00	19-Jan-16 07:00:00		47.16	0.00	0.00	9.28	2.1	329.7		15.55	0.00	0.00	3.06		10.35	18.92	83.84	86.68	19-Jan-16 06:00:00	**25.90**	**18.92**	**83.84**	**89.74**	
19-Jan-16 07:00:00	19-Jan-16 08:00:00		45.67	0.00	0.00	9.31	2.1	329.7		15.06	0.00	0.00	3.07		10.35	18.92	83.84	86.68	19-Jan-16 07:00:00	**25.41**	**18.92**	**83.84**	**89.75**	
19-Jan-16 08:00:00	19-Jan-16 09:00:00		382.03	0.00	0.00	9.22	2.1	329.7		125.96	0.00	0.00	3.04		10.35	18.92	83.84	86.68	19-Jan-16 08:00:00	**136.31**	**18.92**	**83.84**	**89.72**	
19-Jan-16 09:00:00	19-Jan-16 10:00:00		511.76	199.78	0.00	8.93	2.1	329.7		168.73	65.87	0.00	2.94		10.35	18.92	83.84	86.68	19-Jan-16 09:00:00	**179.08**	**84.79**	**83.84**	**89.62**	
19-Jan-16 10:00:00	19-Jan-16 11:00:00		653.18	613.14	0.00	8.69	2.1	329.7		215.35	202.15	0.00	2.87		10.35	18.92	83.84	86.68	19-Jan-16 10:00:00	**225.70**	**221.07**	**83.84**	**89.55**	
19-Jan-16 11:00:00	19-Jan-16 12:00:00		1,073.30	683.88	0.00	8.46	2.1	329.7		353.87	225.48	0.00	2.79		10.35	18.92	83.84	86.68	19-Jan-16 11:00:00	**364.22**	**244.40**	**83.84**	**89.47**	
19-Jan-16 12:00:00	19-Jan-16 13:00:00		1,150.43	790.16	0.00	8.22	2.1	329.7		379.30	260.52	0.00	2.71		10.35	18.92	83.84	86.68	19-Jan-16 12:00:00	**389.65**	**279.44**	**83.84**	**89.39**	
19-Jan-16 13:00:00	19-Jan-16 14:00:00		824.81	618.71	0.00	8.08	2.1	329.7		271.94	203.99	0.00	2.66		10.35	18.92	83.84	86.68	19-Jan-16 13:00:00	**282.29**	**222.91**	**83.84**	**89.34**	
19-Jan-16 14:00:00	19-Jan-16 15:00:00		1,236.55	838.13	0.00	7.98	2.1	329.7		407.69	276.33	0.00	2.63		10.35	18.92	83.84	86.68	19-Jan-16 14:00:00	**418.04**	**295.25**	**83.84**	**89.31**	
19-Jan-16 15:00:00	19-Jan-16 16:00:00		1,089.15	751.24	0.00	7.88	2.1	329.7		359.09	247.68	0.00	2.60		10.35	18.92	83.84	86.68	19-Jan-16 15:00:00	**369.44**	**266.60**	**83.84**	**89.28**	
19-Jan-16 16:00:00	19-Jan-16 17:00:00		1,240.98	849.87	0.00	7.70	2.1	329.7		409.15	280.20	0.00	2.54		10.35	18.92	83.84	86.68	19-Jan-16 16:00:00	**419.50**	**299.12**	**83.84**	**89.22**	
19-Jan-16 17:00:00	19-Jan-16 18:00:00		902.70	661.33	0.00	7.73	2.1	329.7		297.62	218.04	0.00	2.55		10.35	18.92	83.84	86.68	19-Jan-16 17:00:00	**307.97**	**236.96**	**83.84**	**89.23**	
19-Jan-16 18:00:00	19-Jan-16 19:00:00		338.63	546.63	0.00	7.91	2.1	329.7		111.65	180.22	0.00	2.61		10.35	18.92	83.84	86.68	19-Jan-16 18:00:00	**122.00**	**199.14**	**83.84**	**89.29**	
19-Jan-16 19:00:00	19-Jan-16 20:00:00		257.05	512.58	0.00	8.09	2.1	329.7		84.75	169.00	0.00	2.67		10.35	18.92	83.84	86.68	19-Jan-16 19:00:00	**95.10**	**187.92**	**83.84**	**89.35**	
19-Jan-16 20:00:00	19-Jan-16 21:00:00		231.61	512.96	0.00	8.27	2.1	329.7		76.36	169.12	0.00	2.73		10.35	18.92	83.84	86.68	19-Jan-16 20:00:00	**86.71**	**188.04**	**83.84**	**89.41**	
19-Jan-16 21:00:00	19-Jan-16 22:00:00		244.08	514.83	0.00	8.43	2.1	329.7		80.47	169.74	0.00	2.78		10.35	18.92	83.84	86.68	19-Jan-16 21:00:00	**90.82**	**188.66**	**83.84**	**89.46**	
19-Jan-16 22:00:00	19-Jan-16 23:00:00		251.72	515.52	0.00	8.57	2.1	329.7		82.99	169.97	0.00	2.83		10.35	18.92	83.84	86.68	19-Jan-16 22:00:00	**93.34**	**188.89**	**83.84**	**89.51**	
19-Jan-16 23:00:00	20-Jan-16 00:00:00		249.81	516.21	0.00	8.72	2.1	329.7		82.36	170.20	0.00	2.87		10.35	18.92	83.84	86.68	19-Jan-16 23:00:00	**92.71**	**189.12**	**83.84**	**89.55**	
20-Jan-16 00:00:00	20-Jan-16 01:00:00		247.70	515.37	0.00	8.76	2.1	329.7		81.67	169.92	0.00	2.89		10.35	18.92	83.84	86.68	20-Jan-16 00:00:00	**92.02**	**188.84**	**83.84**	**89.57**	
20-Jan-16 01:00:00	20-Jan-16 02:00:00		247.27	513.28	0.00	8.81	2.1	329.7		81.52	169.23	0.00	2.90		10.35	18.92	83.84	86.68	20-Jan-16 01:00:00	**91.87**	**188.15**	**83.84**	**89.58**	
20-Jan-16 02:00:00	20-Jan-16 03:00:00		249.30	355.11	0.00	8.97	2.1	329.7		82.19	117.08	0.00	2.96		10.35	18.92	83.84	86.68	20-Jan-16 02:00:00	**92.54**	**136.00**	**83.84**	**89.64**	
20-Jan-16 03:00:00	20-Jan-16 04:00:00		248.53	208.36	0.00	9.12	2.1	329.7		81.94	68.70	0.00	3.01		10.35	18.92	83.84	86.68	20-Jan-16 03:00:00	**92.29**	**87.62**	**83.84**	**89.69**	
20-Jan-16 04:00:00	20-Jan-16 05:00:00		129.90	208.79	0.00	9.25	2.1	329.7		42.83	68.84	0.00	3.05		10.35	18.92	83.84	86.68	20-Jan-16 04:00:00	**53.18**	**87.76**	**83.84**	**89.73**	
20-Jan-16 05:00:00	20-Jan-16 06:00:00		0.05	111.55	0.00	9.19	2.1	329.7		0.02	36.78	0.00	3.03		10.35	18.92	83.84	86.68	20-Jan-16 05:00:00	**10.37**	**55.70**	**83.84**	**89.71**	
20-Jan-16 06:00:00	20-Jan-16 07:00:00		0.00	0.00	0.00	9.11	2.1	329.7		0.00	0.00	0.00	3.00		10.35	18.92	83.84	86.68	20-Jan-16 06:00:00	**10.35**	**18.92**	**83.84**	**89.68**	
20-Jan-16 07:00:00	20-Jan-16 08:00:00		0.00	0.00	0.00	9.87	2.1	329.7		0.00	0.00	0.00	3.25		10.35	18.92	83.84	86.68	20-Jan-16 07:00:00	**10.35**	**18.92**	**83.84**	**89.93**	
20-Jan-16 08:00:00	20-Jan-16 09:00:00		0.00	0.00	0.00	8.85	2.1	329.7		0.00	0.00	0.00	2.92		10.35	18.92	83.84	86.68	20-Jan-16 08:00:00	**10.35**	**18.92**	**83.84**	**89.60**	
20-Jan-16 09:00:00	20-Jan-16 10:00:00		0.00	0.00	0.00	8.65	2.1	329.7		0.00	0.00	0.00	2.85		10.35	18.92	83.84	86.68	20-Jan-16 09:00:00	**10.35**	**18.92**	**83.84**	**89.53**	
20-Jan-16 10:00:00	20-Jan-16 11:00:00		0.00	0.00	0.00	22.12	2.1	329.7		0.00	0.00	0.00	7.29		10.35	18.92	83.84	86.68	20-Jan-16 10:00:00	**10.35**	**18.92**	**83.84**	**93.97**	
20-Jan-16 11:00:00	20-Jan-16 12:00:00		0.00	0.00	0.00	8.37	2.1	329.7		0.00	0.00	0.00	2.76		10.35	18.92	83.84	86.68	20-Jan-16 11:00:00	**10.35**	**18.92**	**83.84**	**89.44**	
20-Jan-16 12:00:00	20-Jan-16 13:00:00		1.61	0.00	0.00	8.09	2.1	329.7		0.53	0.00	0.00	2.67		10.35	18.92	83.84	86.68	20-Jan-16 12:00:00	**10.88**	**18.92**	**83.84**	**89.35**	
20-Jan-16 13:00:00	20-Jan-16 14:00:00		6.31	0.00	0.00	7.81	2.1	329.7		2.08	0.00	0.00	2.57		10.35	18.92	83.84	86.68	20-Jan-16 13:00:00	**12.43**	**18.92**	**83.84**	**89.25**	
20-Jan-16 14:00:00	20-Jan-16 15:00:00		2.61	0.00	0.00	9.88	2.1	329.7		0.86	0.00	0.00	3.26		10.35	18.92	83.84	86.68	20-Jan-16 14:00:00	**11.21**	**18.92**	**83.84**	**89.94**	
20-Jan-16 15:00:00	20-Jan-16 16:00:00		0.43	0.00	0.00	7.51	2.1	329.7		0.14	0.00	0.00	2.48		10.35	18.92	83.84	86.68	20-Jan-16 15:00:00	**10.49**	**18.92**	**83.84**	**89.16**	
20-Jan-16 16:00:00	20-Jan-16 17:00:00		1.96	0.00	0.00	8.21	2.1	329.7		0.65	0.00	0.00	2.71		10.35	18.92	83.84	86.68	20-Jan-16 16:00:00	**11.00**	**18.92**	**83.84**	**89.39**	
20-Jan-16 17:00:00	20-Jan-16 18:00:00		0.31	0.00	0.00	7.61	2.1	329.7		0.10	0.00	0.00	2.51		10.35	18.92	83.84	86.68	20-Jan-16 17:00:00	**10.45**	**18.92**	**83.84**	**89.19**	
20-Jan-16 18:00:00	20-Jan-16 19:00:00		0.15	0.00	0.00	7.67	2.1	329.7		0.05	0.00	0.00	2.53		10.35	18.92	83.84	86.68	20-Jan-16 18:00:00	**10.40**	**18.92**	**83.84**	**89.21**	
20-Jan-16 19:00:00	20-Jan-16 20:00:00		0.45	0.00	0.00	7.73	2.1	329.7		0.15	0.00	0.00	2.55		10.35	18.92	83.84	86.68	20-Jan-16 19:00:00	**10.50**	**18.92**	**83.84**	**89.23**	
20-Jan-16 20:00:00	20-Jan-16 21:00:00		0.75	0.00	0.00	7.69	2.1	329.7		0.25	0.00	0.00	2.53		10.35	18.92	83.84	86.68	20-Jan-16 20:00:00	**10.60**	**18.92**	**83.84**	**89.21**	
20-Jan-16 21:00:00	20-Jan-16 22:00:00		1.05	0.00	0.00	7.65	2.1	329.7		0.35	0.00	0.00	2.52		10.35	18.92	83.84	86.68	20-Jan-16 21:00:00	**10.70**	**18.92**	**83.84**	**89.20**	
20-Jan-16 22:00:00	20-Jan-16 23:00:00		0.77	0.00	0.00	7.74	2.1	329.7		0.25	0.00	0.00	2.55		10.35	18.92	83.84	86.68	20-Jan-16 22:00:00	**10.60**	**18.92**	**83.84**	**89.23**	
20-Jan-16 23:00:00	21-Jan-16 00:00:00		0.82	0.00	0.00	8.09	2.1	329.7		0.27	0.00	0.00	2.67		10.35	18.92	83.84	86.68	20-Jan-16 23:00:00	**10.62**	**18.92**	**83.84**	**89.35**	
21-Jan-16 00:00:00	21-Jan-16 01:00:00		0.87	0.00	0.00	49.62	2.1	329.7		0.29	0.00	0.00	16.36		10.35	18.92	83.84	86.68	21-Jan-16 00:00:00	**10.64**	**18.92**	**83.84**	**103.04**	
21-Jan-16 01:00:00	21-Jan-16 02:00:00		0.91	0.00	0.00	9.90	2.1	329.7		0.30	0.00	0.00	3.26		10.35	18.92	83.84	86.68	21-Jan-16 01:00:00	**10.65**	**18.92**	**83.84**	**89.94**	
21-Jan-16 02:00:00	21-Jan-16 03:00:00		1.36	0.00	8.70	8.10	2.1	329.7		0.45	0.00	2.87	2.67		10.35	18.92	83.84	86.68	21-Jan-16 02:00:00	**10.80**	**18.92**	**86.71**	**89.35**	
21-Jan-16 03:00:00	21-Jan-16 04:00:00		0.98	0.00	59.80	8.13	2.1	329.7		0.32	0.00	19.72	2.68		10.35	18.92	83.84	86.68	21-Jan-16 03:00:00	**10.67**	**18.92**	**103.56**	**89.36**	
21-Jan-16 04:00:00	21-Jan-16 05:00:00		0.59	0.00	177.34	8.35	2.1	329.7		0.19	0.00	58.47	2.75		10.35	18.92	83.84	86.68	21-Jan-16 04:00:00	**10.54**	**18.92**	**142.31**	**89.43**	
21-Jan-16 05:00:00	21-Jan-16 06:00:00		0.20	0.00	161.07	8.43	2.1	329.7		0.07	0.00	53.10	2.78		10.35	18.92	83.84	86.68	21-Jan-16 05:00:00	**10.42**	**18.92**	**136.94**	**89.46**	
21-Jan-16 06:00:00	21-Jan-16 07:00:00		0.20	0.00	140.71	40.13	2.1	329.7		0.07	0.00	46.39	13.23		10.35	18.92	83.84	86.68	21-Jan-16 06:00:00	**10.42**	**18.92**	**130.23**	**89.91**	
21-Jan-16 07:00:00	21-Jan-16 08:00:00		1.15	0.00	112.28	8.62	2.1	329.7		0.38	0.00	37.02	2.84		10.35	18.92	83.84	86.68	21-Jan-16 07:00:00	**10.73**	**18.92**	**120.86**	**89.52**	
21-Jan-16 08:00:00	21-Jan-16 09:00:00		4.57	0.00	224.62	255.96	2.1	329.7		1.51	0.00	74.06	84.39		10.35	18.92	83.84	86.68	21-Jan-16 08:00:00	**11.86**	**18.92**	**157.90**	**171.07**	
21-Jan-16 09:00:00	21-Jan-16 10:00:00		6.16	0.00	228.03	301.79	2.1	329.7		2.03	0.00	75.18	99.50		10.35	18.92	83.84	86.68	21-Jan-16 09:00:00	**12.38**	**18.92**	**159.02**	**186.18**	
21-Jan-16 10:00:00	21-Jan-16 11:00:00		2.62	483.25	364.27	561.93	2.1	329.7		0.87	159.33	120.10	185.27		10.35	18.92	83.84	86.68	21-Jan-16 10:00:00	**11.22**	**178.25**	**203.94**	**271.95**	
21-Jan-16 11:00:00	21-Jan-16 12:00:00		0.00	614.20	229.29	303.54	2.1	329.7		0.00	202.50	98.02	100.08		10.35	18.92	83.84	86.68	21-Jan-16 11:00:00	**10.35**	**221.42**	**181.86**	**186.76**	
21-Jan-16 12:00:00	21-Jan-16 13:00:00		0.00	617.96	188.29	228.84	2.1	329.7		0.00	203.74	62.08	75.45		10.35	18.92	83.84	86.68	21-Jan-16 12:00:00	**10.35**	**222.66**	**145.92**	**162.13**	
21-Jan-16 13:00:00	21-Jan-16 14:00:00		0.00	829.28	0.00	15.56	2.1	329.7		0.00	273.41	0.00	5.13		10.35	18.92	83.84	86.68	21-Jan-16 13:00:00	**10.35**	**292.33**	**83.84**	**91.81**	
21-Jan-16 14:00:00	21-Jan-16 15:00:00		0.00	816.18	0.00	7.33	2.1	329.7		0.00	269.09	0.00	2.42		10.35	18.92	83.84	86.68	21-Jan-16 14:00:00	**10.35**	**288.01**	**83.84**	**89.10**	
21-Jan-16 15:00:00	21-Jan-16 16:00:00		0.00	753.99	0.00	7.46	2.1	329.7		0.00	248.59	0.00	2.46		10.35	18.92	83.84	86.68	21-Jan-16 15:00:00	**10.35**	**267.51**	**83.84**	**89.14**	
21-Jan-16 16:00:00	21-Jan-16 17:00:00		0.00	566.10	0.00	7.58	2.1	329.7		0.00	186.64	0.00	2.50		10.35	18.92	83.84	86.68	21-Jan-16 16:00:00	**10.35**	**205.56**	**83.84**	**89.18**	
21-Jan-16 17:00:00	21-Jan-16 18:00:00		0.00	575.67	0.00	8.26	2.1	329.7		0.00	189.80	0.00	2.72		10.35	18.92	83.84	86.68	21-Jan-16 17:00:00	**10.35**	**208.72**	**83.84**	**89.40**	
21-Jan-16 18:00:00	21-Jan-16 19:00:00		0.00	760.99	0.00	7.80	2.1	329.7		0.00	250.90	0.00	2.57		10.35	18.92	83.84	86.68	21-Jan-16 18:00:00	**10.35**	**269.82**	**83.84**	**89.25**	
21-Jan-16 19:00:00	21-Jan-16 20:00:00		0.00	762.28	0.00	7.90	2.1	329.7		0.00	251.32	0.00	2.60		10.35	18.92	83.84	86.68	21-Jan-16 19:00:00	**10.35**	**270.24**	**83.84**	**89.28**	
21-Jan-16 20:00:00	21-Jan-16 21:00:00		0.00	879.33	0.00	7.99	2.1	329.7		0.00	289.91	0.00	2.63		10.35	18.92	83.84	86.68	21-Jan-16 20:00:00	**10.35**	**308.83**	**83.84**	**89.31**	
21-Jan-16 21:00:00	21-Jan-16 22:00:00		0.00	895.84	0.00	8.09	2.1	329.7		0.00	295.36	0.00	2.67		10.35	18.92	83.84	86.68	21-Jan-16 21:00:00	**10.35**	**314.28**	**83.84**	**89.35**	
21-Jan-16 22:00:00	21-Jan-16 23:00:00		0.00	896.17	0.00	8.23	2.1	329.7		0.00	295.47	0.00	2.71		10.35	18.92	83.84	86.68	21-Jan-16 22:00:00	**10.35**	**314.39**	**83.84**	**89.39**	
21-Jan-16 23:00:00	22-Jan-16 00:00:00		0.00	897.22	0.00	17.16	2.1	329.7		0.00	295.81	0.00	5.66		10.35	18.92	83.84	86.68	21-Jan-16 23:00:00	**10.35**	**314.73**	**83.84**	**92.34**	
22-Jan-16 00:00:00	22-Jan-16 01:00:00		0.00	898.36	0.00	8.58	2.1	329.7		0.00	296.19	0.00	2.83		10.35	18.92	83.84	86.68	22-Jan-16 00:00:00	**10.35**	**315.11**	**83.84**	**89.51**	
22-Jan-16 01:00:00	22-Jan-16 02:00:00		0.00	898.37	0.00	102.85	2.1	329.7		0.00	296.19	0.00	33.91		10.35	18.92	83.84	86.68	22-Jan-16 01:00:00	**10.35**	**315.11**	**83.84**	**120.59**	
22-Jan-16 02:00:00	22-Jan-16 03:00:00		0.00	889.74	0.00	8.51	2.1	329.7		0.00	293.35	0.00	2.81		10.35	18.92	83.84	86.68	22-Jan-16 02:00:00	**10.35**	**312.27**	**83.84**	**89.49**	
22-Jan-16 03:00:00	22-Jan-16 04:00:00		0.00	809.10	0.00	8.50	2.1	329.7		0.00	266.76	0.00	2.80		10.35	18.92	83.84	86.68	22-Jan-16 03:00:00	**10.35**	**285.68**	**83.84**	**89.48**	
22-Jan-16 04:00:00	22-Jan-16 05:00:00		0.00	808.19	0.00	8.49	2.1	329.7		0.00	266.46	0.00	2.80		10.35	18.92	83.84	86.68	22-Jan-16 04:00:00	**10.35**	**285.38**	**83.84**	**89.48**	
22-Jan-16 05:00:00	22-Jan-16 06:00:00		0.00	807.12	0.00	8.55	2.1	329.7		0.00	266.11	0.00	2.82		10.35	18.92	83.84	86.68	22-Jan-16 05:00:00	**10.35**	**285.03**	**83.84**	**89.50**	
22-Jan-16 06:00:00	22-Jan-16 07:00:00		0.00	809.68	0.00	8.89	2.1	329.7		0.00	266.95	0.00	2.93		10.35	18.92	83.84	86.68	22-Jan-16 06:00:00	**10.35**	**285.87**	**83.84**	**89.61**	
22-Jan-16 07:00:00	22-Jan-16 08:00:00		0.00	841.49	0.00	8.69	2.1	329.7		0.00	277.44	0.00	2.87		10.35	18.92	83.84	86.68	22-Jan-16 07:00:00	**10.35**	**296.36**	**83.84**	**89.55**	
22-Jan-16 08:00:00	22-Jan-16 09:00:00		2.31	475.61	104.13	246.51	2.1	329.7		0.76	156.81	34.33	81.27		10.35	18.92	83.84	86.68	22-Jan-16 08:00:00	**11.11**	**175.73**	**118.17**	**167.95**	
22-Jan-16 09:00:00	22-Jan-16 10:00:00		3.18	495.72	184.33	305.82	2.1	329.7		1.05	163.44	60.77	100.83		10.35	18.92	83.84	86.68	22-Jan-16 09:00:00	**11.40**	**182.36**	**144.61**	**187.51**	
22-Jan-16 10:00:00	22-Jan-16 11:00:00		5.08	418.73	298.76	300.52	2.1	329.7		1.67	138.05	98.50	99.08		10.35	18.92	83.84	86.68	22-Jan-16 10:00:00	**12.02**	**156.97**	**182.34**	**185.76**	
22-Jan-16 11:00:00	22-Jan-16 12:00:00		10.91	0.00	251.31	317.28	2.1	329.7		3.60	0.00	82.86	104.61		10.35	18.92	83.84	86.68	22-Jan-16 11:00:00	**13.95**	**18.92**	**166.70**	**191.29**	
22-Jan-16 12:00:00	22-Jan-16 13:00:00		3.67	0.00	177.73	298.97	2.1	329.7		1.21	0.00	58.60	98.57		10.35	18.92	83.84	86.68	22-Jan-16 12:00:00	**11.56**	**18.92**	**142.44**	**185.25**	
22-Jan-16 13:00:00	22-Jan-16 14:00:00		7.23	0.00	183.21	374.64	2.1	329.7		2.38	0.00	60.41	123.52		10.35	18.92	83.84	86.68	22-Jan-16 13:00:00	**12.73**	**18.92**	**144.25**	**210.20**	
22-Jan-16 14:00:00	22-Jan-16 15:00:00		11.25	0.00	463.80	431.24	2.1	329.7		3.71	0.00	152.91	142.18		10.35	18.92	83.84	86.68	22-Jan-16 14:00:00	**14.06**	**18.92**	**236.75**	**228.86**	
22-Jan-16 15:00:00	22-Jan-16 16:00:00		9.61	0.00	598.01	494.25	2.1	329.7		3.17	0.00	197.16	162.96		10.35	18.92	83.84	86.68	22-Jan-16 15:00:00	**13.52**	**18.92**	**281.00**	**249.64**	
22-Jan-16 16:00:00	22-Jan-16 17:00:00		9.29	0.00	546.42	451.76	2.1	329.7		3.06	0.00	180.15	148.95		10.35	18.92	83.84	86.68	22-Jan-16 16:00:00	**13.41**	**18.92**	**263.99**	**235.63**	
22-Jan-16 17:00:00	22-Jan-16 18:00:00		6.21	0.00	341.19	437.13	2.1	329.7		2.05	0.00	112.49	144.12		10.35	18.92	83.84	86.68	22-Jan-16 17:00:00	**12.40**	**18.92**	**196.33**	**230.80**	
22-Jan-16 18:00:00	22-Jan-16 19:00:00		4.55	0.00

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
24-Jan-16 20:00:00	24-Jan-16 21:00:00		0.00	0.00	0.00	427.75	2.1	329.7		0.00	0.00	0.00	141.03		10.35	18.92	83.84	86.68	24-Jan-16 20:00:00		**10.35**	**18.92**	**83.84**	**227.71**
24-Jan-16 21:00:00	24-Jan-16 22:00:00		0.00	0.00	0.00	423.46	2.1	329.7		0.00	0.00	0.00	139.61		10.35	18.92	83.84	86.68	24-Jan-16 21:00:00		**10.35**	**18.92**	**83.84**	**226.29**
24-Jan-16 22:00:00	24-Jan-16 23:00:00		0.00	0.00	0.00	425.02	2.1	329.7		0.00	0.00	0.00	140.13		10.35	18.92	83.84	86.68	24-Jan-16 22:00:00		**10.35**	**18.92**	**83.84**	**226.81**
24-Jan-16 23:00:00	25-Jan-16 00:00:00		0.00	0.00	0.00	491.19	2.1	329.7		0.00	0.00	0.00	161.95		10.35	18.92	83.84	86.68	24-Jan-16 23:00:00		**10.35**	**18.92**	**83.84**	**248.63**
25-Jan-16 00:00:00	25-Jan-16 01:00:00		0.00	0.00	0.00	684.39	2.1	329.7		0.00	0.00	0.00	225.64		10.35	18.92	83.84	86.68	25-Jan-16 00:00:00		**10.35**	**18.92**	**83.84**	**312.32**
25-Jan-16 01:00:00	25-Jan-16 02:00:00		0.00	0.00	0.00	659.09	2.1	329.7		0.00	0.00	0.00	217.30		10.35	18.92	83.84	86.68	25-Jan-16 01:00:00		**10.35**	**18.92**	**83.84**	**303.98**
25-Jan-16 02:00:00	25-Jan-16 03:00:00		0.00	0.00	0.00	593.24	2.1	329.7		0.00	0.00	0.00	195.59		10.35	18.92	83.84	86.68	25-Jan-16 02:00:00		**10.35**	**18.92**	**83.84**	**282.27**
25-Jan-16 03:00:00	25-Jan-16 04:00:00		338.01	0.00	0.00	715.92	2.1	329.7		111.44	0.00	0.00	236.04		10.35	18.92	83.84	86.68	25-Jan-16 03:00:00		**121.79**	**18.92**	**83.84**	**322.72**
25-Jan-16 04:00:00	25-Jan-16 05:00:00		493.89	0.00	0.00	681.31	2.1	329.7		162.84	0.00	0.00	224.63		10.35	18.92	83.84	86.68	25-Jan-16 04:00:00		**173.19**	**18.92**	**83.84**	**311.31**
25-Jan-16 05:00:00	25-Jan-16 06:00:00		523.85	0.00	0.00	614.59	2.1	329.7		172.71	0.00	0.00	202.63		10.35	18.92	83.84	86.68	25-Jan-16 05:00:00		**183.06**	**18.92**	**83.84**	**289.31**
25-Jan-16 06:00:00	25-Jan-16 07:00:00		597.02	0.00	0.00	804.54	2.1	329.7		196.84	0.00	0.00	265.26		10.35	18.92	83.84	86.68	25-Jan-16 06:00:00		**207.19**	**18.92**	**83.84**	**351.94**
25-Jan-16 07:00:00	25-Jan-16 08:00:00		525.63	0.00	0.00	806.29	2.1	329.7		173.30	0.00	0.00	265.83		10.35	18.92	83.84	86.68	25-Jan-16 07:00:00		**183.65**	**18.92**	**83.84**	**352.51**
25-Jan-16 08:00:00	25-Jan-16 09:00:00		672.99	0.00	0.00	847.08	2.1	329.7		221.89	0.00	0.00	279.28		10.35	18.92	83.84	86.68	25-Jan-16 08:00:00		**232.24**	**18.92**	**83.84**	**365.96**
25-Jan-16 09:00:00	25-Jan-16 10:00:00		752.76	0.00	0.00	802.93	2.1	329.7		248.19	0.00	0.00	264.73		10.35	18.92	83.84	86.68	25-Jan-16 09:00:00		**258.54**	**18.92**	**83.84**	**351.41**
25-Jan-16 10:00:00	25-Jan-16 11:00:00		821.61	0.00	0.00	708.58	2.1	329.7		270.89	0.00	0.00	233.62		10.35	18.92	83.84	86.68	25-Jan-16 10:00:00		**281.24**	**18.92**	**83.84**	**320.30**
25-Jan-16 11:00:00	25-Jan-16 12:00:00		823.28	88.18	0.00	694.13	2.1	329.7		271.44	29.07	0.00	228.86		10.35	18.92	83.84	86.68	25-Jan-16 11:00:00		**281.79**	**47.99**	**83.84**	**315.54**
25-Jan-16 12:00:00	25-Jan-16 13:00:00		825.31	812.27	0.00	1,181.65	2.1	329.7		272.10	267.80	0.00	389.59		10.35	18.92	83.84	86.68	25-Jan-16 12:00:00		**282.45**	**286.72**	**83.84**	**476.27**
25-Jan-16 13:00:00	25-Jan-16 14:00:00		760.98	517.96	0.00	1,705.89	2.1	329.7		250.89	170.77	0.00	562.43		10.35	18.92	83.84	86.68	25-Jan-16 13:00:00		**261.24**	**189.69**	**83.84**	**649.11**
25-Jan-16 14:00:00	25-Jan-16 15:00:00		839.88	476.34	0.00	1,479.30	2.1	329.7		276.91	157.05	0.00	487.73		10.35	18.92	83.84	86.68	25-Jan-16 14:00:00		**287.26**	**175.97**	**83.84**	**574.41**
25-Jan-16 15:00:00	25-Jan-16 16:00:00		842.09	765.89	0.00	6.00	2.1	329.7		277.64	252.52	0.00	1.98		10.35	18.92	83.84	86.68	25-Jan-16 15:00:00		**287.99**	**271.44**	**83.84**	**88.66**
25-Jan-16 16:00:00	25-Jan-16 17:00:00		822.74	903.29	0.00	6.32	2.1	329.7		271.26	297.81	0.00	2.08		10.35	18.92	83.84	86.68	25-Jan-16 16:00:00		**281.61**	**316.73**	**83.84**	**88.76**
25-Jan-16 17:00:00	25-Jan-16 18:00:00		785.00	901.10	0.00	6.63	2.1	329.7		258.82	297.09	0.00	2.19		10.35	18.92	83.84	86.68	25-Jan-16 17:00:00		**269.17**	**316.01**	**83.84**	**88.87**
25-Jan-16 18:00:00	25-Jan-16 19:00:00		774.43	896.16	0.00	6.95	2.1	329.7		255.33	295.46	0.00	2.29		10.35	18.92	83.84	86.68	25-Jan-16 18:00:00		**265.68**	**314.38**	**83.84**	**88.97**
25-Jan-16 19:00:00	25-Jan-16 20:00:00		502.88	710.96	0.00	834.93	2.1	329.7		165.80	234.40	0.00	275.28		10.35	18.92	83.84	86.68	25-Jan-16 19:00:00		**176.15**	**253.32**	**83.84**	**361.96**
25-Jan-16 20:00:00	25-Jan-16 21:00:00		506.37	748.15	0.00	1,470.58	2.1	329.7		166.95	246.67	0.00	484.85		10.35	18.92	83.84	86.68	25-Jan-16 20:00:00		**177.30**	**265.59**	**83.84**	**571.53**
25-Jan-16 21:00:00	25-Jan-16 22:00:00		664.49	828.86	0.00	1,481.75	2.1	329.7		219.08	273.27	0.00	488.53		10.35	18.92	83.84	86.68	25-Jan-16 21:00:00		**229.43**	**292.19**	**83.84**	**575.21**
25-Jan-16 22:00:00	25-Jan-16 23:00:00		675.32	788.26	0.00	1,467.02	2.1	329.7		222.65	259.89	0.00	483.68		10.35	18.92	83.84	86.68	25-Jan-16 22:00:00		**233.00**	**278.81**	**83.84**	**570.36**
25-Jan-16 23:00:00	26-Jan-16 00:00:00		673.39	828.60	0.00	1,469.87	2.1	329.7		222.02	273.19	0.00	484.62		10.35	18.92	83.84	86.68	25-Jan-16 23:00:00		**232.37**	**292.11**	**83.84**	**571.30**
26-Jan-16 00:00:00	26-Jan-16 01:00:00		593.91	778.41	0.00	1,459.37	2.1	329.7		195.81	256.64	0.00	481.16		10.35	18.92	83.84	86.68	26-Jan-16 00:00:00		**206.16**	**275.56**	**83.84**	**567.84**
26-Jan-16 01:00:00	26-Jan-16 02:00:00		754.54	884.60	0.00	1,472.72	2.1	329.7		248.77	291.65	0.00	485.55		10.35	18.92	83.84	86.68	26-Jan-16 01:00:00		**259.12**	**310.57**	**83.84**	**572.23**
26-Jan-16 02:00:00	26-Jan-16 03:00:00		676.91	876.25	0.00	1,469.12	2.1	329.7		223.18	288.90	0.00	484.37		10.35	18.92	83.84	86.68	26-Jan-16 02:00:00		**233.53**	**307.82**	**83.84**	**571.05**
26-Jan-16 03:00:00	26-Jan-16 04:00:00		611.20	837.29	0.00	1,462.08	2.1	329.7		201.51	276.06	0.00	482.05		10.35	18.92	83.84	86.68	26-Jan-16 03:00:00		**211.86**	**294.98**	**83.84**	**568.73**
26-Jan-16 04:00:00	26-Jan-16 05:00:00		672.51	882.92	0.00	1,466.43	2.1	329.7		221.73	291.10	0.00	483.48		10.35	18.92	83.84	86.68	26-Jan-16 04:00:00		**232.08**	**310.02**	**83.84**	**570.16**
26-Jan-16 05:00:00	26-Jan-16 06:00:00		793.11	908.64	0.00	1,467.41	2.1	329.7		261.49	299.58	0.00	483.81		10.35	18.92	83.84	86.68	26-Jan-16 05:00:00		**271.84**	**318.50**	**83.84**	**570.49**
26-Jan-16 06:00:00	26-Jan-16 07:00:00		758.60	889.91	0.00	396.14	2.1	329.7		250.11	293.40	0.00	130.61		10.35	18.92	83.84	86.68	26-Jan-16 06:00:00		**260.46**	**312.32**	**83.84**	**217.29**
26-Jan-16 07:00:00	26-Jan-16 08:00:00		634.05	696.52	0.00	172.32	2.1	329.7		209.05	229.64	0.00	56.81		10.35	18.92	83.84	86.68	26-Jan-16 07:00:00		**219.40**	**248.56**	**83.84**	**143.49**
26-Jan-16 08:00:00	26-Jan-16 09:00:00		479.32	506.80	0.00	444.32	2.1	329.7		158.03	167.09	0.00	146.49		10.35	18.92	83.84	86.68	26-Jan-16 08:00:00		**168.38**	**186.01**	**83.84**	**233.17**
26-Jan-16 09:00:00	26-Jan-16 10:00:00		574.09	863.06	0.00	2,009.90	2.1	329.7		189.28	284.55	0.00	662.67		10.35	18.92	83.84	86.68	26-Jan-16 09:00:00		**199.63**	**303.47**	**83.84**	**749.35**
26-Jan-16 10:00:00	26-Jan-16 11:00:00		759.29	932.66	0.00	2,023.61	2.1	329.7		250.34	307.50	0.00	667.18		10.35	18.92	83.84	86.68	26-Jan-16 10:00:00		**260.69**	**326.42**	**83.84**	**753.86**
26-Jan-16 11:00:00	26-Jan-16 12:00:00		741.45	882.99	0.00	570.46	2.1	329.7		244.45	291.12	0.00	188.08		10.35	18.92	83.84	86.68	26-Jan-16 11:00:00		**254.80**	**310.04**	**83.84**	**274.76**
26-Jan-16 12:00:00	26-Jan-16 13:00:00		746.50	1,471.91	0.00	1,729.55	2.1	329.7		246.12	485.29	0.00	570.23		10.35	18.92	83.84	86.68	26-Jan-16 12:00:00		**256.47**	**504.21**	**83.84**	**656.91**
26-Jan-16 13:00:00	26-Jan-16 14:00:00		925.52	1,543.87	0.00	1,719.72	2.1	329.7		305.15	509.01	0.00	566.99		10.35	18.92	83.84	86.68	26-Jan-16 13:00:00		**315.50**	**527.93**	**83.84**	**653.67**
26-Jan-16 14:00:00	26-Jan-16 15:00:00		976.92	1,454.31	0.00	1,707.21	2.1	329.7		322.09	479.49	0.00	562.87		10.35	18.92	83.84	86.68	26-Jan-16 14:00:00		**332.44**	**498.41**	**83.84**	**649.55**
26-Jan-16 15:00:00	26-Jan-16 16:00:00		647.84	1,051.87	0.00	1,672.04	2.1	329.7		213.59	346.80	0.00	551.27		10.35	18.92	83.84	86.68	26-Jan-16 15:00:00		**223.94**	**365.72**	**83.84**	**637.95**
26-Jan-16 16:00:00	26-Jan-16 17:00:00		702.70	1,029.28	0.00	1,669.92	2.1	329.7		231.68	339.35	0.00	550.57		10.35	18.92	83.84	86.68	26-Jan-16 16:00:00		**242.03**	**358.27**	**83.84**	**637.25**
26-Jan-16 17:00:00	26-Jan-16 18:00:00		853.08	1,199.98	0.00	1,685.17	2.1	329.7		281.26	395.63	0.00	555.60		10.35	18.92	83.84	86.68	26-Jan-16 17:00:00		**291.61**	**414.55**	**83.84**	**642.28**
26-Jan-16 18:00:00	26-Jan-16 19:00:00		824.26	1,057.49	0.00	1,671.30	2.1	329.7		271.76	348.65	0.00	551.03		10.35	18.92	83.84	86.68	26-Jan-16 18:00:00		**282.11**	**367.57**	**83.84**	**637.71**
26-Jan-16 19:00:00	26-Jan-16 20:00:00		792.76	1,045.31	0.00	1,664.88	2.1	329.7		261.37	344.64	0.00	548.91		10.35	18.92	83.84	86.68	26-Jan-16 19:00:00		**271.72**	**363.56**	**83.84**	**635.59**
26-Jan-16 20:00:00	26-Jan-16 21:00:00		454.26	775.94	0.00	1,642.51	2.1	329.7		149.77	255.83	0.00	541.54		10.35	18.92	83.84	86.68	26-Jan-16 20:00:00		**160.12**	**274.75**	**83.84**	**628.22**
26-Jan-16 21:00:00	26-Jan-16 22:00:00		423.52	590.06	0.00	1,635.47	2.1	329.7		139.64	194.54	0.00	539.21		10.35	18.92	83.84	86.68	26-Jan-16 21:00:00		**149.99**	**213.46**	**83.84**	**625.89**
26-Jan-16 22:00:00	26-Jan-16 23:00:00		401.60	590.42	0.00	1,632.94	2.1	329.7		132.41	194.66	0.00	538.38		10.35	18.92	83.84	86.68	26-Jan-16 22:00:00		**142.76**	**213.58**	**83.84**	**625.06**
26-Jan-16 23:00:00	27-Jan-16 00:00:00		168.64	589.53	0.00	1,516.90	2.1	329.7		55.60	194.37	0.00	500.12		10.35	18.92	83.84	86.68	26-Jan-16 23:00:00		**65.95**	**213.29**	**83.84**	**586.80**
27-Jan-16 00:00:00	27-Jan-16 01:00:00		160.35	493.63	0.00	1,825.45	2.1	329.7		52.87	162.75	0.00	601.85		10.35	18.92	83.84	86.68	27-Jan-16 00:00:00		**63.22**	**181.67**	**83.84**	**688.53**
27-Jan-16 01:00:00	27-Jan-16 02:00:00		157.87	0.00	0.00	1,823.65	2.1	329.7		52.05	0.00	0.00	601.26		10.35	18.92	83.84	86.68	27-Jan-16 01:00:00		**62.40**	**18.92**	**83.84**	**687.94**
27-Jan-16 02:00:00	27-Jan-16 03:00:00		160.61	0.00	0.00	1,819.64	2.1	329.7		52.95	0.00	0.00	599.94		10.35	18.92	83.84	86.68	27-Jan-16 02:00:00		**63.30**	**18.92**	**83.84**	**686.62**
27-Jan-16 03:00:00	27-Jan-16 04:00:00		82.36	0.00	0.00	1,811.44	2.1	329.7		27.15	0.00	0.00	597.23		10.35	18.92	83.84	86.68	27-Jan-16 03:00:00		**37.50**	**18.92**	**83.84**	**683.91**
27-Jan-16 04:00:00	27-Jan-16 05:00:00		0.00	0.00	0.00	1,796.46	2.1	329.7		0.00	0.00	0.00	592.29		10.35	18.92	83.84	86.68	27-Jan-16 04:00:00		**10.35**	**18.92**	**83.84**	**678.97**
27-Jan-16 05:00:00	27-Jan-16 06:00:00		0.00	0.00	0.00	1,798.40	2.1	329.7		0.00	0.00	0.00	592.93		10.35	18.92	83.84	86.68	27-Jan-16 05:00:00		**10.35**	**18.92**	**83.84**	**679.61**
27-Jan-16 06:00:00	27-Jan-16 07:00:00		25.03	0.00	0.00	1,796.05	2.1	329.7		8.25	0.00	0.00	592.16		10.35	18.92	83.84	86.68	27-Jan-16 06:00:00		**18.60**	**18.92**	**83.84**	**678.84**
27-Jan-16 07:00:00	27-Jan-16 08:00:00		278.23	0.00	0.00	1,802.43	2.1	329.7		91.73	0.00	0.00	594.26		10.35	18.92	83.84	86.68	27-Jan-16 07:00:00		**102.08**	**18.92**	**83.84**	**680.94**
27-Jan-16 08:00:00	27-Jan-16 09:00:00		0.77	0.00	0.00	1,799.71	2.1	329.7		0.25	0.00	0.00	593.37		10.35	18.92	83.84	86.68	27-Jan-16 08:00:00		**10.60**	**18.92**	**83.84**	**680.05**
27-Jan-16 09:00:00	27-Jan-16 10:00:00		0.00	0.00	0.00	1,797.14	2.1	329.7		0.00	0.00	0.00	592.52		10.35	18.92	83.84	86.68	27-Jan-16 09:00:00		**10.35**	**18.92**	**83.84**	**679.20**
27-Jan-16 10:00:00	27-Jan-16 11:00:00		0.00	0.00	0.00	1,795.94	2.1	329.7		0.00	0.00	0.00	592.12		10.35	18.92	83.84	86.68	27-Jan-16 10:00:00		**10.35**	**18.92**	**83.84**	**678.80**
27-Jan-16 11:00:00	27-Jan-16 12:00:00		0.00	0.00	0.00	1,794.92	2.1	329.7		0.00	0.00	0.00	591.78		10.35	18.92	83.84	86.68	27-Jan-16 11:00:00		**10.35**	**18.92**	**83.84**	**678.46**
27-Jan-16 12:00:00	27-Jan-16 13:00:00		0.00	0.00	0.00	1,797.19	2.1	329.7		0.00	0.00	0.00	592.53		10.35	18.92	83.84	86.68	27-Jan-16 12:00:00		**10.35**	**18.92**	**83.84**	**679.21**
27-Jan-16 13:00:00	27-Jan-16 14:00:00		0.00	0.00	0.00	1,795.62	2.1	329.7		0.00	0.00	0.00	592.01		10.35	18.92	83.84	86.68	27-Jan-16 13:00:00		**10.35**	**18.92**	**83.84**	**678.69**
27-Jan-16 14:00:00	27-Jan-16 15:00:00		0.00	0.00	0.00	1,794.43	2.1	329.7		0.00	0.00	0.00	591.62		10.35	18.92	83.84	86.68	27-Jan-16 14:00:00		**10.35**	**18.92**	**83.84**	**678.30**
27-Jan-16 15:00:00	27-Jan-16 16:00:00		0.00	0.00	0.00	1,791.88	2.1	329.7		0.00	0.00	0.00	590.78		10.35	18.92	83.84	86.68	27-Jan-16 15:00:00		**10.35**	**18.92**	**83.84**	**677.46**
27-Jan-16 16:00:00	27-Jan-16 17:00:00		0.00	0.00	0.00	1,788.81	2.1	329.7		0.00	0.00	0.00	589.77		10.35	18.92	83.84	86.68	27-Jan-16 16:00:00		**10.35**	**18.92**	**83.84**	**676.45**
27-Jan-16 17:00:00	27-Jan-16 18:00:00		0.00	0.00	0.00	1,785.29	2.1	329.7		0.00	0.00	0.00	588.61		10.35	18.92	83.84	86.68	27-Jan-16 17:00:00		**10.35**	**18.92**	**83.84**	**675.29**
27-Jan-16 18:00:00	27-Jan-16 19:00:00		0.00	0.00	0.00	1,795.22	2.1	329.7		0.00	0.00	0.00	591.89		10.35	18.92	83.84	86.68	27-Jan-16 18:00:00		**10.35**	**18.92**	**83.84**	**678.57**
27-Jan-16 19:00:00	27-Jan-16 20:00:00		0.00	0.00	0.00	1,798.89	2.1	329.7		0.00	0.00	0.00	593.09		10.35	18.92	83.84	86.68	27-Jan-16 19:00:00		**10.35**	**18.92**	**83.84**	**679.77**
27-Jan-16 20:00:00	27-Jan-16 21:00:00		0.00	0.00	0.00	1,797.42	2.1	329.7		0.00	0.00	0.00	592.61		10.35	18.92	83.84	86.68	27-Jan-16 20:00:00		**10.35**	**18.92**	**83.84**	**679.29**
27-Jan-16 21:00:00	27-Jan-16 22:00:00		0.00	0.00	0.00	1,795.17	2.1	329.7		0.00	0.00	0.00	591.87		10.35	18.92	83.84	86.68	27-Jan-16 21:00:00		**10.35**	**18.92**	**83.84**	**678.55**
27-Jan-16 22:00:00	27-Jan-16 23:00:00		0.00	0.00	0.00	1,797.16	2.1	329.7		0.00	0.00	0.00	592.52		10.35	18.92	83.84	86.68	27-Jan-16 22:00:00		**10.35**	**18.92**	**83.84**	**679.20**
27-Jan-16 23:00:00	28-Jan-16 00:00:00		0.00	0.00	0.00	1,797.57	2.1	329.7		0.00	0.00	0.00	592.66		10.35	18.92	83.84	86.68	27-Jan-16 23:00:00		**10.35**	**18.92**	**83.84**	**679.34**
28-Jan-16 00:00:00	28-Jan-16 01:00:00		0.00	0.00	0.00	1,798.49	2.1	329.7		0.00	0.00	0.00	592.96		10.35	18.92	83.84	86.68	28-Jan-16 00:00:00		**10.35**	**18.92**	**83.84**	**679.64**
28-Jan-16 01:00:00	28-Jan-16 02:00:00		0.00	0.00	0.00	1,799.13	2.1	329.7		0.00	0.00	0.00	593.17		10.35	18.92	83.84	86.68	28-Jan-16 01:00:00		**10.35**	**18.92**	**83.84**	**679.85**
28-Jan-16 02:00:00	28-Jan-16 03:00:00		0.00	0.00	0.00	1,801.30	2.1	329.7		0.00	0.00	0.00	593.89		10.35	18.92	83.84	86.68	28-Jan-16 02:00:00		**10.35**	**18.92**	**83.84**	**680.57**
28-Jan-16 03:00:00	28-Jan-16 04:00:00		0.00	0.00	0.00	1,801.57	2.1	329.7		0.00	0.00	0.00	593.98		10.35	18.92	83.84	86.68	28-Jan-16 03:00:00		**10.35**	**18.92**	**83.84**	**680.66**
28-Jan-16 04:00:00	28-Jan-16 05:00:00		0.00	0.00	0.00	1,801.90	2.1	329.7		0.00	0.00	0.00	594.09		10.35	18.92	83.84	86.68	28-Jan-16 04:00:00		**10.35**	**18.92**	**83.84**	**680.77**
28-Jan-16 05:00:00	28-Jan-16 06:00:00		0.00	0.00	0.00	1,800.91	2.1	329.7		0.00	0.00	0.00	593.76		10.35	18.92	83.84	86.68	28-Jan-16 05:00:00		**10.35**	**18.92**	**83.84**	**680.44**
28-Jan-16 06:00:00	28-Jan-16 07:00:00		0.00	0.00	0.00	1,801.71	2.1	329.7		0.00	0.00	0.00	594.02		10.35	18.92	83.84	86.68	28-Jan-16 06:00:00		**10.35**	**18.92**	**83.84**	**680.70**
28-Jan-16 07:00:00	28-Jan-16 08:00:00		0.00	0.00	0.00	1,802.11	2.1	329.7		0.00	0.00	0.00	594.16		10.35	18.92	83.84	86.68	28-Jan-16 07:00:00		**10.35**	**18.92**	**83.84**	**680.84**
28-Jan-16 08:00:00	28-Jan-16 09:00:00		0.00	0.00	0.00	1,800.97	2.1	329.7		0.00	0.00	0.00	593.78		10.35	18.92	83.84	86.68	28-Jan-16 08:00:00		**10.35**	**18.92**	**83.84**	**680.46**
28-Jan-16 09:00:00	28-Jan-16 10:00:00		0.00	0.00	0.00	1,802.55	2.1	329.7		0.00	0.00	0.00	594.30		10.35	18.92	83.84	86.68	28-Jan-16 09:00:00		**10.35**	**18.92**	**83.84**	**680.98**
28-Jan-16 10:00:00	28-Jan-16 11:00:00		0.00	0.00	0.00	1,805.83	2.1	329.7		0.00	0.00	0.00	595.38		10.35	18.92	83.84	86.68	28-Jan-16 10:00:00		**10.35**	**18.92**	**83.84**	**682.06**
28-Jan-16 11:00:00	28-Jan-16 12:00:00		0.00	0.00	0.00	1,805.38	2.1	329.7		0.00	0.00	0.00	595.24		10.35	18.92	83.84	86.68	28-Jan-16 11:00:00		**10.35**	**18.92**	**83.84**	**681.92**
28-Jan-16 12:00:00	28-Jan-16 13:00:00		0.00	0.00	0.00	1,803.35	2.1	329.7		0.00	0.00	0.00	594.56		10.35	18.92	83.84	86.68	28-Jan-16 12:00:00		**10.35**	**18.92**	**83.84**	**681.24**
28-Jan-16 13:00:00	28-Jan-16 14:00:00		0.00	0.00	0.00	1,805.70	2.1	329.7		0.00	0.00	0.00	595.34		10.35	18.92	83.84	86.68	28-Jan-16 13:00:00		**10.35**	**18.92**	**83.84**	**682.02**
28-Jan-16 14:00:00	28-Jan-16 15:00:00		0.00	0.00	0.00	1,804.30	2.1	329.7		0.00	0.00	0.00	594.88		10.35	18.92	83.84	86.68	28-Jan-16 14:00:00		**10.35**	**18.92**	**83.84**	**681.56**
28-Jan-16 15:00:00	28-Jan-16 16:00:00		0.00	0.00	0.00	1,805.68	2.1	329.7		0.00	0.00	0.00	595.33		10.35	18.92	83.84	86.68	28-Jan-16 15:00:00		**10.35**	**18.92**	**83.84**	**682.01**
28-Jan-16 16:00:00	28-Jan-16 17:00:00		0.00	0.00	0.00	1,805.59	2.1

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
30-Jan-16 19:00:00	30-Jan-16 20:00:00		0.00	0.00	0.00	2,147.78	2.1	329.7		0.00	0.00	0.00	708.12		10.35	18.92	83.84	86.68	30-Jan-16 19:00:00		10.35	18.92	83.84	794.80
30-Jan-16 20:00:00	30-Jan-16 21:00:00		0.00	0.00	0.00	2,145.75	2.1	329.7		0.00	0.00	0.00	707.46		10.35	18.92	83.84	86.68	30-Jan-16 20:00:00		10.35	18.92	83.84	794.14
30-Jan-16 21:00:00	30-Jan-16 22:00:00		0.00	0.00	0.00	2,147.09	2.1	329.7		0.00	0.00	0.00	707.90		10.35	18.92	83.84	86.68	30-Jan-16 21:00:00		10.35	18.92	83.84	794.58
30-Jan-16 22:00:00	30-Jan-16 23:00:00		0.00	0.00	0.00	2,145.41	2.1	329.7		0.00	0.00	0.00	707.34		10.35	18.92	83.84	86.68	30-Jan-16 22:00:00		10.35	18.92	83.84	794.02
30-Jan-16 23:00:00	31-Jan-16 00:00:00		0.00	0.00	0.00	2,145.85	2.1	329.7		0.00	0.00	0.00	707.49		10.35	18.92	83.84	86.68	30-Jan-16 23:00:00		10.35	18.92	83.84	794.17
31-Jan-16 00:00:00	31-Jan-16 01:00:00		0.00	0.00	0.00	2,142.34	2.1	329.7		0.00	0.00	0.00	706.33		10.35	18.92	83.84	86.68	31-Jan-16 00:00:00		10.35	18.92	83.84	793.01
31-Jan-16 01:00:00	31-Jan-16 02:00:00		0.00	0.00	0.00	2,142.76	2.1	329.7		0.00	0.00	0.00	706.47		10.35	18.92	83.84	86.68	31-Jan-16 01:00:00		10.35	18.92	83.84	793.15
31-Jan-16 02:00:00	31-Jan-16 03:00:00		0.00	0.00	0.00	2,141.07	2.1	329.7		0.00	0.00	0.00	705.91		10.35	18.92	83.84	86.68	31-Jan-16 02:00:00		10.35	18.92	83.84	792.59
31-Jan-16 03:00:00	31-Jan-16 04:00:00		0.00	0.00	0.00	2,140.23	2.1	329.7		0.00	0.00	0.00	705.63		10.35	18.92	83.84	86.68	31-Jan-16 03:00:00		10.35	18.92	83.84	792.31
31-Jan-16 04:00:00	31-Jan-16 05:00:00		0.00	0.00	0.00	2,137.81	2.1	329.7		0.00	0.00	0.00	704.84		10.35	18.92	83.84	86.68	31-Jan-16 04:00:00		10.35	18.92	83.84	791.52
31-Jan-16 05:00:00	31-Jan-16 06:00:00		0.00	0.00	0.00	2,153.46	2.1	329.7		0.00	0.00	0.00	710.00		10.35	18.92	83.84	86.68	31-Jan-16 05:00:00		10.35	18.92	83.84	796.68
31-Jan-16 06:00:00	31-Jan-16 07:00:00		0.00	0.00	0.00	2,190.67	2.1	329.7		0.00	0.00	0.00	722.27		10.35	18.92	83.84	86.68	31-Jan-16 06:00:00		10.35	18.92	83.84	808.95
31-Jan-16 07:00:00	31-Jan-16 08:00:00		0.00	0.00	0.00	2,186.49	2.1	329.7		0.00	0.00	0.00	720.88		10.35	18.92	83.84	86.68	31-Jan-16 07:00:00		10.35	18.92	83.84	807.56
31-Jan-16 08:00:00	31-Jan-16 09:00:00		0.00	0.00	0.00	2,184.71	2.1	329.7		0.00	0.00	0.00	720.30		10.35	18.92	83.84	86.68	31-Jan-16 08:00:00		10.35	18.92	83.84	806.98
31-Jan-16 09:00:00	31-Jan-16 10:00:00		0.00	0.00	0.00	1,412.51	2.1	329.7		0.00	0.00	0.00	465.71		10.35	18.92	83.84	86.68	31-Jan-16 09:00:00		10.35	18.92	83.84	552.39
31-Jan-16 10:00:00	31-Jan-16 11:00:00		0.00	0.00	0.00	6.76	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	31-Jan-16 10:00:00		10.35	18.92	83.84	88.91
31-Jan-16 11:00:00	31-Jan-16 12:00:00		0.00	0.00	0.00	6.69	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	31-Jan-16 11:00:00		10.35	18.92	83.84	88.89
31-Jan-16 12:00:00	31-Jan-16 13:00:00		0.00	0.00	0.00	6.62	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	31-Jan-16 12:00:00		10.35	18.92	83.84	88.86
31-Jan-16 13:00:00	31-Jan-16 14:00:00		0.00	0.00	0.00	6.49	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	31-Jan-16 13:00:00		10.35	18.92	83.84	88.82
31-Jan-16 14:00:00	31-Jan-16 15:00:00		0.00	0.00	0.00	6.31	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	31-Jan-16 14:00:00		10.35	18.92	83.84	88.76
31-Jan-16 15:00:00	31-Jan-16 16:00:00		0.00	0.00	0.00	6.24	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	31-Jan-16 15:00:00		10.35	18.92	83.84	88.74
31-Jan-16 16:00:00	31-Jan-16 17:00:00		0.02	0.00	0.00	6.17	2.1	329.7		0.01	0.00	0.00	2.04		10.35	18.92	83.84	86.68	31-Jan-16 16:00:00		10.36	18.92	83.84	88.72
31-Jan-16 17:00:00	31-Jan-16 18:00:00		0.03	0.00	0.00	6.15	2.1	329.7		0.01	0.00	0.00	2.03		10.35	18.92	83.84	86.68	31-Jan-16 17:00:00		10.36	18.92	83.84	88.71
31-Jan-16 18:00:00	31-Jan-16 19:00:00		0.00	0.00	0.00	6.28	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	31-Jan-16 18:00:00		10.35	18.92	83.84	88.75
31-Jan-16 19:00:00	31-Jan-16 20:00:00		0.00	0.00	0.00	6.37	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	31-Jan-16 19:00:00		10.35	18.92	83.84	88.78
31-Jan-16 20:00:00	31-Jan-16 21:00:00		0.00	0.00	0.00	6.46	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	31-Jan-16 20:00:00		10.35	18.92	83.84	88.81
31-Jan-16 21:00:00	31-Jan-16 22:00:00		0.00	0.00	0.00	6.56	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	31-Jan-16 21:00:00		10.35	18.92	83.84	88.84
31-Jan-16 22:00:00	31-Jan-16 23:00:00		0.00	0.00	0.00	6.68	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	31-Jan-16 22:00:00		10.35	18.92	83.84	88.88
31-Jan-16 23:00:00	01-Feb-16 00:00:00		0.00	0.00	0.00	6.80	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	31-Jan-16 23:00:00		10.35	18.92	83.84	88.92
01-Feb-16 00:00:00	01-Feb-16 01:00:00		0.00	0.00	0.00	6.92	2.1	329.7		0.00	0.00	0.00	2.28		10.35	18.92	83.84	86.68	01-Feb-16 00:00:00		10.35	18.92	83.84	88.96
01-Feb-16 01:00:00	01-Feb-16 02:00:00		0.00	0.00	0.00	7.04	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	01-Feb-16 01:00:00		10.35	18.92	83.84	89.00
01-Feb-16 02:00:00	01-Feb-16 03:00:00		0.00	0.00	0.00	7.11	2.1	329.7		0.00	0.00	0.00	2.34		10.35	18.92	83.84	86.68	01-Feb-16 02:00:00		10.35	18.92	83.84	89.02
01-Feb-16 03:00:00	01-Feb-16 04:00:00		0.00	0.00	0.00	7.15	2.1	329.7		0.00	0.00	0.00	2.36		10.35	18.92	83.84	86.68	01-Feb-16 03:00:00		10.35	18.92	83.84	89.04
01-Feb-16 04:00:00	01-Feb-16 05:00:00		0.00	0.00	0.00	7.19	2.1	329.7		0.00	0.00	0.00	2.37		10.35	18.92	83.84	86.68	01-Feb-16 04:00:00		10.35	18.92	83.84	89.05
01-Feb-16 05:00:00	01-Feb-16 06:00:00		0.00	0.00	0.00	7.24	2.1	329.7		0.00	0.00	0.00	2.39		10.35	18.92	83.84	86.68	01-Feb-16 05:00:00		10.35	18.92	83.84	89.07
01-Feb-16 06:00:00	01-Feb-16 07:00:00		0.00	0.00	0.00	7.25	2.1	329.7		0.00	0.00	0.00	2.39		10.35	18.92	83.84	86.68	01-Feb-16 06:00:00		10.35	18.92	83.84	89.07
01-Feb-16 07:00:00	01-Feb-16 08:00:00		0.00	0.00	0.00	7.18	2.1	329.7		0.00	0.00	0.00	2.37		10.35	18.92	83.84	86.68	01-Feb-16 07:00:00		10.35	18.92	83.84	89.05
01-Feb-16 08:00:00	01-Feb-16 09:00:00		0.00	0.00	0.00	7.12	2.1	329.7		0.00	0.00	0.00	2.35		10.35	18.92	83.84	86.68	01-Feb-16 08:00:00		10.35	18.92	83.84	89.03
01-Feb-16 09:00:00	01-Feb-16 10:00:00		0.00	0.00	0.00	7.05	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	01-Feb-16 09:00:00		10.35	18.92	83.84	89.00
01-Feb-16 10:00:00	01-Feb-16 11:00:00		0.00	0.00	0.00	6.96	2.1	329.7		0.00	0.00	0.00	2.30		10.35	18.92	83.84	86.68	01-Feb-16 10:00:00		10.35	18.92	83.84	88.98
01-Feb-16 11:00:00	01-Feb-16 12:00:00		0.00	0.00	0.00	6.89	2.1	329.7		0.00	0.00	0.00	2.27		10.35	18.92	83.84	86.68	01-Feb-16 11:00:00		10.35	18.92	83.84	88.95
01-Feb-16 12:00:00	01-Feb-16 13:00:00		0.00	0.00	0.00	6.81	2.1	329.7		0.00	0.00	0.00	2.25		10.35	18.92	83.84	86.68	01-Feb-16 12:00:00		10.35	18.92	83.84	88.93
01-Feb-16 13:00:00	01-Feb-16 14:00:00		0.19	0.00	0.00	6.70	2.1	329.7		0.06	0.00	0.00	2.21		10.35	18.92	83.84	86.68	01-Feb-16 13:00:00		10.41	18.92	83.84	88.89
01-Feb-16 14:00:00	01-Feb-16 15:00:00		0.61	0.00	0.00	6.53	2.1	329.7		0.20	0.00	0.00	2.15		10.35	18.92	83.84	86.68	01-Feb-16 14:00:00		10.55	18.92	83.84	88.83
01-Feb-16 15:00:00	01-Feb-16 16:00:00		1.03	0.00	0.00	6.49	2.1	329.7		0.34	0.00	0.00	2.14		10.35	18.92	83.84	86.68	01-Feb-16 15:00:00		10.69	18.92	83.84	88.82
01-Feb-16 16:00:00	01-Feb-16 17:00:00		1.45	0.00	0.00	6.44	2.1	329.7		0.48	0.00	0.00	2.12		10.35	18.92	83.84	86.68	01-Feb-16 16:00:00		10.83	18.92	83.84	88.80
01-Feb-16 17:00:00	01-Feb-16 18:00:00		3.03	0.00	0.00	6.38	2.1	329.7		1.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	01-Feb-16 17:00:00		11.35	18.92	83.84	88.78
01-Feb-16 18:00:00	01-Feb-16 19:00:00		2.49	0.00	0.00	6.34	2.1	329.7		0.82	0.00	0.00	2.09		10.35	18.92	83.84	86.68	01-Feb-16 18:00:00		11.17	18.92	83.84	88.77
01-Feb-16 19:00:00	01-Feb-16 20:00:00		1.83	0.00	0.00	6.34	2.1	329.7		0.60	0.00	0.00	2.09		10.35	18.92	83.84	86.68	01-Feb-16 19:00:00		10.95	18.92	83.84	88.77
01-Feb-16 20:00:00	01-Feb-16 21:00:00		1.29	0.00	0.00	6.34	2.1	329.7		0.42	0.00	0.00	2.09		10.35	18.92	83.84	86.68	01-Feb-16 20:00:00		10.77	18.92	83.84	88.77
01-Feb-16 21:00:00	01-Feb-16 22:00:00		0.75	0.00	0.00	6.38	2.1	329.7		0.25	0.00	0.00	2.10		10.35	18.92	83.84	86.68	01-Feb-16 21:00:00		10.60	18.92	83.84	88.78
01-Feb-16 22:00:00	01-Feb-16 23:00:00		0.21	0.00	0.00	6.57	2.1	329.7		0.07	0.00	0.00	2.17		10.35	18.92	83.84	86.68	01-Feb-16 22:00:00		10.42	18.92	83.84	88.85
01-Feb-16 23:00:00	02-Feb-16 00:00:00		0.00	0.00	0.00	6.68	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	01-Feb-16 23:00:00		10.35	18.92	83.84	88.88
02-Feb-16 00:00:00	02-Feb-16 01:00:00		0.00	0.00	0.00	6.78	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	02-Feb-16 00:00:00		10.35	18.92	83.84	88.92
02-Feb-16 01:00:00	02-Feb-16 02:00:00		0.00	0.00	0.00	6.89	2.1	329.7		0.00	0.00	0.00	2.27		10.35	18.92	83.84	86.68	02-Feb-16 01:00:00		10.35	18.92	83.84	88.95
02-Feb-16 02:00:00	02-Feb-16 03:00:00		0.00	0.00	0.00	6.97	2.1	329.7		0.00	0.00	0.00	2.30		10.35	18.92	83.84	86.68	02-Feb-16 02:00:00		10.35	18.92	83.84	88.98
02-Feb-16 03:00:00	02-Feb-16 04:00:00		0.00	0.00	0.00	7.04	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	02-Feb-16 03:00:00		10.35	18.92	83.84	89.00
02-Feb-16 04:00:00	02-Feb-16 05:00:00		0.00	0.00	0.00	7.10	2.1	329.7		0.00	0.00	0.00	2.34		10.35	18.92	83.84	86.68	02-Feb-16 04:00:00		10.35	18.92	83.84	89.02
02-Feb-16 05:00:00	02-Feb-16 06:00:00		0.00	0.00	0.00	7.17	2.1	329.7		0.00	0.00	0.00	2.36		10.35	18.92	83.84	86.68	02-Feb-16 05:00:00		10.35	18.92	83.84	89.04
02-Feb-16 06:00:00	02-Feb-16 07:00:00		0.00	0.00	0.00	7.23	2.1	329.7		0.00	0.00	0.00	2.38		10.35	18.92	83.84	86.68	02-Feb-16 06:00:00		10.35	18.92	83.84	89.06
02-Feb-16 07:00:00	02-Feb-16 08:00:00		0.00	0.00	0.00	7.29	2.1	329.7		0.00	0.00	0.00	2.40		10.35	18.92	83.84	86.68	02-Feb-16 07:00:00		10.35	18.92	83.84	89.08
02-Feb-16 08:00:00	02-Feb-16 09:00:00		0.00	0.00	0.00	7.34	2.1	329.7		0.00	0.00	0.00	2.42		10.35	18.92	83.84	86.68	02-Feb-16 08:00:00		10.35	18.92	83.84	89.10
02-Feb-16 09:00:00	02-Feb-16 10:00:00		0.00	0.00	0.00	7.37	2.1	329.7		0.00	0.00	0.00	2.43		10.35	18.92	83.84	86.68	02-Feb-16 09:00:00		10.35	18.92	83.84	89.11
02-Feb-16 10:00:00	02-Feb-16 11:00:00		0.00	0.00	0.00	7.35	2.1	329.7		0.00	0.00	0.00	2.42		10.35	18.92	83.84	86.68	02-Feb-16 10:00:00		10.35	18.92	83.84	89.10
02-Feb-16 11:00:00	02-Feb-16 12:00:00		0.00	0.00	0.00	7.44	2.1	329.7		0.00	0.00	0.00	2.45		10.35	18.92	83.84	86.68	02-Feb-16 11:00:00		10.35	18.92	83.84	89.13
02-Feb-16 12:00:00	02-Feb-16 13:00:00		0.00	0.00	0.00	7.53	2.1	329.7		0.00	0.00	0.00	2.48		10.35	18.92	83.84	86.68	02-Feb-16 12:00:00		10.35	18.92	83.84	89.16
02-Feb-16 13:00:00	02-Feb-16 14:00:00		0.00	0.00	0.00	7.65	2.1	329.7		0.00	0.00	0.00	2.52		10.35	18.92	83.84	86.68	02-Feb-16 13:00:00		10.35	18.92	83.84	89.20
02-Feb-16 14:00:00	02-Feb-16 15:00:00		0.00	0.00	0.00	7.85	2.1	329.7		0.00	0.00	0.00	2.59		10.35	18.92	83.84	86.68	02-Feb-16 14:00:00		10.35	18.92	83.84	89.27
02-Feb-16 15:00:00	02-Feb-16 16:00:00		0.00	0.00	0.00	7.89	2.1	329.7		0.00	0.00	0.00	2.60		10.35	18.92	83.84	86.68	02-Feb-16 15:00:00		10.35	18.92	83.84	89.28
02-Feb-16 16:00:00	02-Feb-16 17:00:00		0.00	0.00	0.00	7.94	2.1	329.7		0.00	0.00	0.00	2.62		10.35	18.92	83.84	86.68	02-Feb-16 16:00:00		10.35	18.92	83.84	89.30
02-Feb-16 17:00:00	02-Feb-16 18:00:00		0.00	0.00	0.00	8.00	2.1	329.7		0.00	0.00	0.00	2.64		10.35	18.92	83.84	86.68	02-Feb-16 17:00:00		10.35	18.92	83.84	89.32
02-Feb-16 18:00:00	02-Feb-16 19:00:00		0.00	0.00	0.00	8.01	2.1	329.7		0.00	0.00	0.00	2.64		10.35	18.92	83.84	86.68	02-Feb-16 18:00:00		10.35	18.92	83.84	89.32
02-Feb-16 19:00:00	02-Feb-16 20:00:00		0.00	0.00	0.00	7.96	2.1	329.7		0.00	0.00	0.00	2.63		10.35	18.92	83.84	86.68	02-Feb-16 19:00:00		10.35	18.92	83.84	89.31
02-Feb-16 20:00:00	02-Feb-16 21:00:00		0.00	0.00	0.00	7.92	2.1	329.7		0.00	0.00	0.00	2.61		10.35	18.92	83.84	86.68	02-Feb-16 20:00:00		10.35	18.92	83.84	89.29
02-Feb-16 21:00:00	02-Feb-16 22:00:00		0.00	0.00	0.00	7.87	2.1	329.7		0.00	0.00	0.00	2.59		10.35	18.92	83.84	86.68	02-Feb-16 21:00:00		10.35	18.92	83.84	89.27
02-Feb-16 22:00:00	02-Feb-16 23:00:00		0.00	0.00	0.00	7.83	2.1	329.7		0.00	0.00	0.00	2.58		10.35	18.92	83.84	86.68	02-Feb-16 22:00:00		10.35	18.92	83.84	89.26
02-Feb-16 23:00:00	03-Feb-16 00:00:00		44.60	0.00	98.35	7.81	2.1	329.7		14.70	0.00	32.43	2.57		10.35	18.92	83.84	86.68	02-Feb-16 23:00:00		25.05	18.92	116.27	89.25
03-Feb-16 00:00:00	03-Feb-16 01:00:00		711.97	146.80	551.31	104.17	2.1	329.7		234.74	48.40	181.77	34.34		10.35	18.92	83.84	86.68	03-Feb-16 00:00:00		245.09	67.32	265.61	121.02
03-Feb-16 01:00:00	03-Feb-16 02:00:00		788.01	393.47	265.05	588.42	2.1	329.7		259.81	129.73	87.39	194.00		10.35	18.92	83.84	86.68	03-Feb-16 01:00:00		270.16	148.65	171.23	280.68
03-Feb-16 02:00:00	03-Feb-16 03:00:00		644.62	388.31	6.24	123.34	2.1	329.7		212.53	128.03	2.06	40.67		10.35	18.92	83.84	86.68	03-Feb-16 02:00:00		222.88	146.95	85.90	127.35
03-Feb-16 03:00:00	03-Feb-16 04:00:00		505.26	268.48	0.00	7.30	2.1	329.7		166.58	88.52	0.00	2.41		10.35	18.92	83.84	86.68	03-Feb-16 03:00:00		176.93	107.44	83.84	89.09
03-Feb-16 04:00:00	03-Feb-16 05:00:00		298.53	269.40	0.00	7.25	2.1	329.7		98.42	88.82	0.00	2.39		10.35	18.92	83.84	86.68	03-Feb-16 04:00:00		108.77	107.74	83.84	89.07
03-Feb-16 05:00:00	03-Feb-16 06:00:00		303.10	17.25	0.00	7.20	2.1	329.7		99.93	5.69	0.00	2.37		10.35	18.92	83.84	86.68	03-Feb-16 05:00:00		110.28	24.61	83.84	89.05
03-Feb-16 06:00:00	03-Feb-16 07:00:00		276.91	0.00	0.00	7.05	2.1	329.7		91.30	0.00	0.00	2.32		10.35	18.92	83.84	86.68	03-Feb-16 06:00:00		101.65	18.92	83.84	89.00
03-Feb-16 07:00:00	03-Feb-16 08:00:00		0.00	0.00	0.00	6.90	2.1	329.7		0.00	0.00	0.00	2.28		10.35	18.92	83.84	86.68	03-Feb-16 07:00:00		10.35	18.92	83.84	88.96
03-Feb-16 08:00:00	03-Feb-16 09:00:00		0.00	0.00	0.00	6.80	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	03-Feb-16 08:00:00		10.35	18.92	83.84	88.92
03-Feb-16 09:00:00	03-Feb-16 10:00:00		0.00	0.00	0.00	6.70	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	03-Feb-16 09:00:00		10.35	18.92	83.84	88.89
03-Feb-16 10:00:00	03-Feb-16 11:00:00		0.01	0.00	0.00	6.62	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	03-Feb-16 10:00:00		10.35	18.92	83.84	88.86
03-Feb-16 11:00:00	03-Feb-16 12:00:00		0.24	0.00	0.00	6.66	2.1	329.7		0.08	0.00	0.00	2.20		10.35	18.92	83.84	86.68	03-Feb-16 11:00:00		10.43	18.92	83.84	88.88
03-Feb-16 12:00:00	03-Feb-16 13:00:00		0.26	0.00	0.00	6.73	2.1	329.7		0.08	0.00	0.00	2.22		10.35	18.92	83.84	86.68	03-Feb-16 12:00:00		10.43	18.92	83.84	88.90
03-Feb-16 13:00:00	03-Feb-16 14:00:00		0.00	0.00	0.00	6.80	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	03-Feb-16 13:00:00		10.35	18.92	83.84	88.92
03-Feb-16 14:00:00	03-Feb-16 15:00:00		0.00	0.00	0.00	6.88	2.1	329.7		0.00	0.00	0.00	2.27		10.35	18.92	83.84	86.68	03-Feb-16 14:00:00		10.35	18.92	83.84	88.95
03-Feb-16 15:00:00	03-Feb-16 16:00:00		0.00	0.00	0.00	6.90	2.1	329.7		0.00	0.00	0.00	2.27		10.35	18.92	83.84	86.68	03-Feb-16 15:00:00		10.35	18.92	83.84	88.95
03-Feb-16 16:00:00	03-Feb-16 17:

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
05-Feb-16 18:00:00	05-Feb-16 19:00:00		0.00	0.00	0.00	8.19	2.1	329.7		0.00	0.00	0.00	2.70		10.35	18.92	83.84	86.68	05-Feb-16 18:00:00		10.35	18.92	83.84	89.38
05-Feb-16 19:00:00	05-Feb-16 20:00:00		0.00	0.00	0.00	8.41	2.1	329.7		0.00	0.00	0.00	2.77		10.35	18.92	83.84	86.68	05-Feb-16 19:00:00		10.35	18.92	83.84	89.45
05-Feb-16 20:00:00	05-Feb-16 21:00:00		0.00	0.00	0.00	8.64	2.1	329.7		0.00	0.00	0.00	2.85		10.35	18.92	83.84	86.68	05-Feb-16 20:00:00		10.35	18.92	83.84	89.53
05-Feb-16 21:00:00	05-Feb-16 22:00:00		0.00	0.00	0.00	8.79	2.1	329.7		0.00	0.00	0.00	2.90		10.35	18.92	83.84	86.68	05-Feb-16 21:00:00		10.35	18.92	83.84	89.58
05-Feb-16 22:00:00	05-Feb-16 23:00:00		0.00	0.00	0.00	8.92	2.1	329.7		0.00	0.00	0.00	2.94		10.35	18.92	83.84	86.68	05-Feb-16 22:00:00		10.35	18.92	83.84	89.62
05-Feb-16 23:00:00	06-Feb-16 00:00:00		0.00	0.00	0.00	9.05	2.1	329.7		0.00	0.00	0.00	2.98		10.35	18.92	83.84	86.68	05-Feb-16 23:00:00		10.35	18.92	83.84	89.66
06-Feb-16 00:00:00	06-Feb-16 01:00:00		0.03	0.00	0.00	9.17	2.1	329.7		0.01	0.00	0.00	3.02		10.35	18.92	83.84	86.68	06-Feb-16 00:00:00		10.36	18.92	83.84	89.70
06-Feb-16 01:00:00	06-Feb-16 02:00:00		1.64	0.00	0.00	9.14	2.1	329.7		0.54	0.00	0.00	3.01		10.35	18.92	83.84	86.68	06-Feb-16 01:00:00		10.89	18.92	83.84	89.69
06-Feb-16 02:00:00	06-Feb-16 03:00:00		1.08	0.00	0.00	9.09	2.1	329.7		0.36	0.00	0.00	3.00		10.35	18.92	83.84	86.68	06-Feb-16 02:00:00		10.71	18.92	83.84	89.68
06-Feb-16 03:00:00	06-Feb-16 04:00:00		0.74	0.00	0.00	9.04	2.1	329.7		0.24	0.00	0.00	2.98		10.35	18.92	83.84	86.68	06-Feb-16 03:00:00		10.59	18.92	83.84	89.66
06-Feb-16 04:00:00	06-Feb-16 05:00:00		0.40	0.00	0.00	8.92	2.1	329.7		0.13	0.00	0.00	2.94		10.35	18.92	83.84	86.68	06-Feb-16 04:00:00		10.48	18.92	83.84	89.62
06-Feb-16 05:00:00	06-Feb-16 06:00:00		0.08	0.00	0.00	8.88	2.1	329.7		0.03	0.00	0.00	2.93		10.35	18.92	83.84	86.68	06-Feb-16 05:00:00		10.38	18.92	83.84	89.61
06-Feb-16 06:00:00	06-Feb-16 07:00:00		1.15	0.00	0.00	8.89	2.1	329.7		0.38	0.00	0.00	2.93		10.35	18.92	83.84	86.68	06-Feb-16 06:00:00		10.73	18.92	83.84	89.61
06-Feb-16 07:00:00	06-Feb-16 08:00:00		2.11	0.00	0.00	8.90	2.1	329.7		0.70	0.00	0.00	2.93		10.35	18.92	83.84	86.68	06-Feb-16 07:00:00		11.05	18.92	83.84	89.61
06-Feb-16 08:00:00	06-Feb-16 09:00:00		0.88	0.00	0.00	8.92	2.1	329.7		0.29	0.00	0.00	2.94		10.35	18.92	83.84	86.68	06-Feb-16 08:00:00		10.64	18.92	83.84	89.62
06-Feb-16 09:00:00	06-Feb-16 10:00:00		5.04	0.00	0.00	8.64	2.1	329.7		1.66	0.00	0.00	2.85		10.35	18.92	83.84	86.68	06-Feb-16 09:00:00		12.01	18.92	83.84	89.53
06-Feb-16 10:00:00	06-Feb-16 11:00:00		2.39	0.00	0.00	8.31	2.1	329.7		0.79	0.00	0.00	2.74		10.35	18.92	83.84	86.68	06-Feb-16 10:00:00		11.14	18.92	83.84	89.42
06-Feb-16 11:00:00	06-Feb-16 12:00:00		2.63	0.00	0.00	7.98	2.1	329.7		0.87	0.00	0.00	2.63		10.35	18.92	83.84	86.68	06-Feb-16 11:00:00		11.22	18.92	83.84	89.31
06-Feb-16 12:00:00	06-Feb-16 13:00:00		0.00	0.00	0.00	7.63	2.1	329.7		0.00	0.00	0.00	2.52		10.35	18.92	83.84	86.68	06-Feb-16 12:00:00		10.35	18.92	83.84	89.20
06-Feb-16 13:00:00	06-Feb-16 14:00:00		0.00	0.00	0.00	7.57	2.1	329.7		0.00	0.00	0.00	2.50		10.35	18.92	83.84	86.68	06-Feb-16 13:00:00		10.35	18.92	83.84	89.18
06-Feb-16 14:00:00	06-Feb-16 15:00:00		0.00	0.00	0.00	7.57	2.1	329.7		0.00	0.00	0.00	2.50		10.35	18.92	83.84	86.68	06-Feb-16 14:00:00		10.35	18.92	83.84	89.18
06-Feb-16 15:00:00	06-Feb-16 16:00:00		0.00	0.00	0.00	7.57	2.1	329.7		0.00	0.00	0.00	2.50		10.35	18.92	83.84	86.68	06-Feb-16 15:00:00		10.35	18.92	83.84	89.18
06-Feb-16 16:00:00	06-Feb-16 17:00:00		0.00	0.00	0.00	7.49	2.1	329.7		0.00	0.00	0.00	2.47		10.35	18.92	83.84	86.68	06-Feb-16 16:00:00		10.35	18.92	83.84	89.15
06-Feb-16 17:00:00	06-Feb-16 18:00:00		0.00	0.00	0.00	7.58	2.1	329.7		0.00	0.00	0.00	2.50		10.35	18.92	83.84	86.68	06-Feb-16 17:00:00		10.35	18.92	83.84	89.18
06-Feb-16 18:00:00	06-Feb-16 19:00:00		0.00	0.00	0.00	7.73	2.1	329.7		0.00	0.00	0.00	2.55		10.35	18.92	83.84	86.68	06-Feb-16 18:00:00		10.35	18.92	83.84	89.23
06-Feb-16 19:00:00	06-Feb-16 20:00:00		0.00	0.00	0.00	7.89	2.1	329.7		0.00	0.00	0.00	2.60		10.35	18.92	83.84	86.68	06-Feb-16 19:00:00		10.35	18.92	83.84	89.28
06-Feb-16 20:00:00	06-Feb-16 21:00:00		0.00	0.00	0.00	8.03	2.1	329.7		0.00	0.00	0.00	2.65		10.35	18.92	83.84	86.68	06-Feb-16 20:00:00		10.35	18.92	83.84	89.33
06-Feb-16 21:00:00	06-Feb-16 22:00:00		0.00	0.00	0.00	8.05	2.1	329.7		0.00	0.00	0.00	2.65		10.35	18.92	83.84	86.68	06-Feb-16 21:00:00		10.35	18.92	83.84	89.33
06-Feb-16 22:00:00	06-Feb-16 23:00:00		0.00	0.00	0.00	8.05	2.1	329.7		0.00	0.00	0.00	2.65		10.35	18.92	83.84	86.68	06-Feb-16 22:00:00		10.35	18.92	83.84	89.33
06-Feb-16 23:00:00	07-Feb-16 00:00:00		0.00	0.00	0.00	8.05	2.1	329.7		0.00	0.00	0.00	2.66		10.35	18.92	83.84	86.68	06-Feb-16 23:00:00		10.35	18.92	83.84	89.34
07-Feb-16 00:00:00	07-Feb-16 01:00:00		0.00	0.00	0.00	8.06	2.1	329.7		0.00	0.00	0.00	2.66		10.35	18.92	83.84	86.68	07-Feb-16 00:00:00		10.35	18.92	83.84	89.34
07-Feb-16 01:00:00	07-Feb-16 02:00:00		0.00	0.00	0.00	8.12	2.1	329.7		0.00	0.00	0.00	2.68		10.35	18.92	83.84	86.68	07-Feb-16 01:00:00		10.35	18.92	83.84	89.36
07-Feb-16 02:00:00	07-Feb-16 03:00:00		0.00	0.00	0.00	8.17	2.1	329.7		0.00	0.00	0.00	2.69		10.35	18.92	83.84	86.68	07-Feb-16 02:00:00		10.35	18.92	83.84	89.37
07-Feb-16 03:00:00	07-Feb-16 04:00:00		0.00	0.00	0.00	8.23	2.1	329.7		0.00	0.00	0.00	2.71		10.35	18.92	83.84	86.68	07-Feb-16 03:00:00		10.35	18.92	83.84	89.39
07-Feb-16 04:00:00	07-Feb-16 05:00:00		0.00	0.00	0.00	8.31	2.1	329.7		0.00	0.00	0.00	2.74		10.35	18.92	83.84	86.68	07-Feb-16 04:00:00		10.35	18.92	83.84	89.42
07-Feb-16 05:00:00	07-Feb-16 06:00:00		0.00	0.00	0.00	8.38	2.1	329.7		0.00	0.00	0.00	2.76		10.35	18.92	83.84	86.68	07-Feb-16 05:00:00		10.35	18.92	83.84	89.44
07-Feb-16 06:00:00	07-Feb-16 07:00:00		0.00	0.00	0.00	8.44	2.1	329.7		0.00	0.00	0.00	2.78		10.35	18.92	83.84	86.68	07-Feb-16 06:00:00		10.35	18.92	83.84	89.46
07-Feb-16 07:00:00	07-Feb-16 08:00:00		0.00	0.00	0.00	8.51	2.1	329.7		0.00	0.00	0.00	2.81		10.35	18.92	83.84	86.68	07-Feb-16 07:00:00		10.35	18.92	83.84	89.49
07-Feb-16 08:00:00	07-Feb-16 09:00:00		0.00	0.00	0.00	8.39	2.1	329.7		0.00	0.00	0.00	2.77		10.35	18.92	83.84	86.68	07-Feb-16 08:00:00		10.35	18.92	83.84	89.45
07-Feb-16 09:00:00	07-Feb-16 10:00:00		0.00	0.00	0.00	8.13	2.1	329.7		0.00	0.00	0.00	2.68		10.35	18.92	83.84	86.68	07-Feb-16 09:00:00		10.35	18.92	83.84	89.36
07-Feb-16 10:00:00	07-Feb-16 11:00:00		0.00	0.00	0.00	7.92	2.1	329.7		0.00	0.00	0.00	2.61		10.35	18.92	83.84	86.68	07-Feb-16 10:00:00		10.35	18.92	83.84	89.29
07-Feb-16 11:00:00	07-Feb-16 12:00:00		0.00	0.00	0.00	7.71	2.1	329.7		0.00	0.00	0.00	2.54		10.35	18.92	83.84	86.68	07-Feb-16 11:00:00		10.35	18.92	83.84	89.22
07-Feb-16 12:00:00	07-Feb-16 13:00:00		0.00	0.00	0.00	7.51	2.1	329.7		0.00	0.00	0.00	2.48		10.35	18.92	83.84	86.68	07-Feb-16 12:00:00		10.35	18.92	83.84	89.16
07-Feb-16 13:00:00	07-Feb-16 14:00:00		0.00	0.00	0.00	7.39	2.1	329.7		0.00	0.00	0.00	2.44		10.35	18.92	83.84	86.68	07-Feb-16 13:00:00		10.35	18.92	83.84	89.12
07-Feb-16 14:00:00	07-Feb-16 15:00:00		0.00	0.00	0.00	7.29	2.1	329.7		0.00	0.00	0.00	2.40		10.35	18.92	83.84	86.68	07-Feb-16 14:00:00		10.35	18.92	83.84	89.08
07-Feb-16 15:00:00	07-Feb-16 16:00:00		0.00	0.00	0.00	7.19	2.1	329.7		0.00	0.00	0.00	2.37		10.35	18.92	83.84	86.68	07-Feb-16 15:00:00		10.35	18.92	83.84	89.05
07-Feb-16 16:00:00	07-Feb-16 17:00:00		0.00	0.00	0.00	7.28	2.1	329.7		0.00	0.00	0.00	2.40		10.35	18.92	83.84	86.68	07-Feb-16 16:00:00		10.35	18.92	83.84	89.08
07-Feb-16 17:00:00	07-Feb-16 18:00:00		0.00	0.00	0.00	7.51	2.1	329.7		0.00	0.00	0.00	2.48		10.35	18.92	83.84	86.68	07-Feb-16 17:00:00		10.35	18.92	83.84	89.16
07-Feb-16 18:00:00	07-Feb-16 19:00:00		0.00	0.00	0.00	7.68	2.1	329.7		0.00	0.00	0.00	2.53		10.35	18.92	83.84	86.68	07-Feb-16 18:00:00		10.35	18.92	83.84	89.21
07-Feb-16 19:00:00	07-Feb-16 20:00:00		0.00	0.00	0.00	7.85	2.1	329.7		0.00	0.00	0.00	2.59		10.35	18.92	83.84	86.68	07-Feb-16 19:00:00		10.35	18.92	83.84	89.27
07-Feb-16 20:00:00	07-Feb-16 21:00:00		0.00	0.00	0.00	8.06	2.1	329.7		0.00	0.00	0.00	2.66		10.35	18.92	83.84	86.68	07-Feb-16 20:00:00		10.35	18.92	83.84	89.34
07-Feb-16 21:00:00	07-Feb-16 22:00:00		0.00	0.00	0.00	8.20	2.1	329.7		0.00	0.00	0.00	2.70		10.35	18.92	83.84	86.68	07-Feb-16 21:00:00		10.35	18.92	83.84	89.38
07-Feb-16 22:00:00	07-Feb-16 23:00:00		0.00	0.00	0.00	8.30	2.1	329.7		0.00	0.00	0.00	2.74		10.35	18.92	83.84	86.68	07-Feb-16 22:00:00		10.35	18.92	83.84	89.42
07-Feb-16 23:00:00	08-Feb-16 00:00:00		0.00	0.00	0.00	8.39	2.1	329.7		0.00	0.00	0.00	2.77		10.35	18.92	83.84	86.68	07-Feb-16 23:00:00		10.35	18.92	83.84	89.45
08-Feb-16 00:00:00	08-Feb-16 01:00:00		0.00	0.00	0.00	8.52	2.1	329.7		0.00	0.00	0.00	2.81		10.35	18.92	83.84	86.68	08-Feb-16 00:00:00		10.35	18.92	83.84	89.49
08-Feb-16 01:00:00	08-Feb-16 02:00:00		0.00	0.00	0.00	8.50	2.1	329.7		0.00	0.00	0.00	2.80		10.35	18.92	83.84	86.68	08-Feb-16 01:00:00		10.35	18.92	83.84	89.48
08-Feb-16 02:00:00	08-Feb-16 03:00:00		0.00	0.00	0.00	8.43	2.1	329.7		0.00	0.00	0.00	2.78		10.35	18.92	83.84	86.68	08-Feb-16 02:00:00		10.35	18.92	83.84	89.46
08-Feb-16 03:00:00	08-Feb-16 04:00:00		0.00	0.00	0.00	8.36	2.1	329.7		0.00	0.00	0.00	2.76		10.35	18.92	83.84	86.68	08-Feb-16 03:00:00		10.35	18.92	83.84	89.44
08-Feb-16 04:00:00	08-Feb-16 05:00:00		0.00	0.00	0.00	8.36	2.1	329.7		0.00	0.00	0.00	2.75		10.35	18.92	83.84	86.68	08-Feb-16 04:00:00		10.35	18.92	83.84	89.43
08-Feb-16 05:00:00	08-Feb-16 06:00:00		0.00	0.00	0.00	8.47	2.1	329.7		0.00	0.00	0.00	2.79		10.35	18.92	83.84	86.68	08-Feb-16 05:00:00		10.35	18.92	83.84	89.47
08-Feb-16 06:00:00	08-Feb-16 07:00:00		2.18	0.00	0.00	8.58	2.1	329.7		0.72	0.00	0.00	2.83		10.35	18.92	83.84	86.68	08-Feb-16 06:00:00		11.07	18.92	83.84	89.51
08-Feb-16 07:00:00	08-Feb-16 08:00:00		1.34	0.00	0.00	8.69	2.1	329.7		0.44	0.00	0.00	2.87		10.35	18.92	83.84	86.68	08-Feb-16 07:00:00		10.79	18.92	83.84	89.55
08-Feb-16 08:00:00	08-Feb-16 09:00:00		0.00	0.00	0.00	8.73	2.1	329.7		0.00	0.00	0.00	2.88		10.35	18.92	83.84	86.68	08-Feb-16 08:00:00		10.35	18.92	83.84	89.56
08-Feb-16 09:00:00	08-Feb-16 10:00:00		0.00	0.00	0.00	8.43	2.1	329.7		0.00	0.00	0.00	2.78		10.35	18.92	83.84	86.68	08-Feb-16 09:00:00		10.35	18.92	83.84	89.46
08-Feb-16 10:00:00	08-Feb-16 11:00:00		0.06	0.00	0.00	8.08	2.1	329.7		0.02	0.00	0.00	2.66		10.35	18.92	83.84	86.68	08-Feb-16 10:00:00		10.37	18.92	83.84	89.34
08-Feb-16 11:00:00	08-Feb-16 12:00:00		0.00	0.00	0.00	7.73	2.1	329.7		0.00	0.00	0.00	2.55		10.35	18.92	83.84	86.68	08-Feb-16 11:00:00		10.35	18.92	83.84	89.23
08-Feb-16 12:00:00	08-Feb-16 13:00:00		0.00	0.00	0.00	7.42	2.1	329.7		0.00	0.00	0.00	2.45		10.35	18.92	83.84	86.68	08-Feb-16 12:00:00		10.35	18.92	83.84	89.13
08-Feb-16 13:00:00	08-Feb-16 14:00:00		0.00	0.00	0.00	7.44	2.1	329.7		0.00	0.00	0.00	2.45		10.35	18.92	83.84	86.68	08-Feb-16 13:00:00		10.35	18.92	83.84	89.13
08-Feb-16 14:00:00	08-Feb-16 15:00:00		0.00	0.00	0.00	7.52	2.1	329.7		0.00	0.00	0.00	2.48		10.35	18.92	83.84	86.68	08-Feb-16 14:00:00		10.35	18.92	83.84	89.16
08-Feb-16 15:00:00	08-Feb-16 16:00:00		0.00	0.00	0.00	7.60	2.1	329.7		0.00	0.00	0.00	2.51		10.35	18.92	83.84	86.68	08-Feb-16 15:00:00		10.35	18.92	83.84	89.19
08-Feb-16 16:00:00	08-Feb-16 17:00:00		0.00	0.00	0.00	7.62	2.1	329.7		0.00	0.00	0.00	2.51		10.35	18.92	83.84	86.68	08-Feb-16 16:00:00		10.35	18.92	83.84	89.19
08-Feb-16 17:00:00	08-Feb-16 18:00:00		0.00	0.00	0.00	7.62	2.1	329.7		0.00	0.00	0.00	2.51		10.35	18.92	83.84	86.68	08-Feb-16 17:00:00		10.35	18.92	83.84	89.19
08-Feb-16 18:00:00	08-Feb-16 19:00:00		0.00	0.00	0.00	7.68	2.1	329.7		0.00	0.00	0.00	2.53		10.35	18.92	83.84	86.68	08-Feb-16 18:00:00		10.35	18.92	83.84	89.21
08-Feb-16 19:00:00	08-Feb-16 20:00:00		0.00	0.00	0.00	7.73	2.1	329.7		0.00	0.00	0.00	2.55		10.35	18.92	83.84	86.68	08-Feb-16 19:00:00		10.35	18.92	83.84	89.23
08-Feb-16 20:00:00	08-Feb-16 21:00:00		0.00	0.00	0.00	7.72	2.1	329.7		0.00	0.00	0.00	2.55		10.35	18.92	83.84	86.68	08-Feb-16 20:00:00		10.35	18.92	83.84	89.23
08-Feb-16 21:00:00	08-Feb-16 22:00:00		0.00	0.00	0.00	7.85	2.1	329.7		0.00	0.00	0.00	2.59		10.35	18.92	83.84	86.68	08-Feb-16 21:00:00		10.35	18.92	83.84	89.27
08-Feb-16 22:00:00	08-Feb-16 23:00:00		0.00	0.00	0.00	8.06	2.1	329.7		0.00	0.00	0.00	2.66		10.35	18.92	83.84	86.68	08-Feb-16 22:00:00		10.35	18.92	83.84	89.34
08-Feb-16 23:00:00	09-Feb-16 00:00:00		0.00	0.00	0.00	8.27	2.1	329.7		0.00	0.00	0.00	2.73		10.35	18.92	83.84	86.68	08-Feb-16 23:00:00		10.35	18.92	83.84	89.41
09-Feb-16 00:00:00	09-Feb-16 01:00:00		0.00	0.00	0.00	8.53	2.1	329.7		0.00	0.00	0.00	2.81		10.35	18.92	83.84	86.68	09-Feb-16 00:00:00		10.35	18.92	83.84	89.49
09-Feb-16 01:00:00	09-Feb-16 02:00:00		0.00	0.00	0.00	8.71	2.1	329.7		0.00	0.00	0.00	2.87		10.35	18.92	83.84	86.68	09-Feb-16 01:00:00		10.35	18.92	83.84	89.55
09-Feb-16 02:00:00	09-Feb-16 03:00:00		0.00	0.00	0.00	8.82	2.1	329.7		0.00	0.00	0.00	2.91		10.35	18.92	83.84	86.68	09-Feb-16 02:00:00		10.35	18.92	83.84	89.59
09-Feb-16 03:00:00	09-Feb-16 04:00:00		0.00	0.00	0.00	8.94	2.1	329.7		0.00	0.00	0.00	2.95		10.35	18.92	83.84	86.68	09-Feb-16 03:00:00		10.35	18.92	83.84	89.63
09-Feb-16 04:00:00	09-Feb-16 05:00:00		0.00	0.00	0.00	9.00	2.1	329.7		0.00	0.00	0.00	2.97		10.35	18.92	83.84	86.68	09-Feb-16 04:00:00		10.35	18.92	83.84	89.65
09-Feb-16 05:00:00	09-Feb-16 06:00:00		0.00	0.00	0.00	8.96	2.1	329.7		0.00	0.00	0.00	2.95		10.35	18.92	83.84	86.68	09-Feb-16 05:00:00		10.35	18.92	83.84	89.63
09-Feb-16 06:00:00	09-Feb-16 07:00:00		0.00	0.00	0.00	8.92	2.1	329.7		0.00	0.00	0.00	2.94		10.35	18.92	83.84	86.68	09-Feb-16 06:00:00		10.35	18.92	83.84	89.62
09-Feb-16 07:00:00	09-Feb-16 08:00:00		0.00	0.00	0.00	8.89	2.1	329.7		0.00	0.00	0.00	2.93		10.35	18.92	83.84	86.68	09-Feb-16 07:00:00		10.35	18.92	83.84	89.61
09-Feb-16 08:00:00	09-Feb-16 09:00:00		0.00	0.00	0.00	8.98	2.1	329.7		0.00	0.00	0.00	2.96		10.35	18.92	83.84	86.68	09-Feb-16 08:00:00		10.35	18.92	83.84	89.64
09-Feb-16 09:00:00	09-Feb-16 10:00:00		0.00	0.00	0.00	9.01	2.1	329.7		0.00	0.00	0.00	2.97		10.35	18.92	83.84	86.68	09-Feb-16 09:00:00		10.35	18.92	83.84	89.65
09-Feb-16 10:00:00	09-Feb-16 11:00:00		0.00	0.00	0.00	8.94	2.1	329.7		0.00	0.00	0.00	2.95		10.35	18.92	83.84	86.68	09-Feb-16 10:00:00		10.35	18.92	83.84	89.63
09-Feb-16 11:00:00	09-Feb-16 12:00:00		0.00	0.00	0.00	8.87	2.1	329.7		0.00	0.00	0.00	2.92		10.35	18.92	83.84	86.68	09-Feb-16 11:00:00		10.35	18.92	83.84	89.60
09-Feb-16 12:00:00	09-Feb-16 13:00:00		0.00	0.00	0.00	8.74	2.1	329.7		0.00	0.00	0.00	2.88		10.35	18.92	83.84	86.68	09-Feb-16 12:00:00		10.35	18.92	83.84	89.56
09-Feb-16 13:00:00	09-Feb-16 14:00:00		0.00	0.23	0.00	8.70	2.1	329.7		0.00	0.08	0.00	2.87		10.35	18.92	83.84	86.68	09-Feb-16 13:00:00		10.35	19.00	83.84	89.55
09-Feb-16 14:00:00	09-Feb-16 15:00:00		0.00	0.00	0.00	8.73	2.1	329.7		0.00	0.00	0.00	2.88		10.35	18.92	83.84	86.68	09-Feb-16 14:00:00		10.35	18.92	83.84	89.56
09-Feb-16 15:00:00	09-Feb-16 16:00:00		0.00	0.00	0.00	8.76

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
11-Feb-16 17:00:00	11-Feb-16 18:00:00		0.00	0.00	0.00	7.51	2.1	329.7		0.00	0.00	0.00	2.48		10.35	18.92	83.84	86.68	11-Feb-16 17:00:00		10.35	18.92	83.84	89.16
11-Feb-16 18:00:00	11-Feb-16 19:00:00		0.00	0.00	0.00	7.57	2.1	329.7		0.00	0.00	0.00	2.49		10.35	18.92	83.84	86.68	11-Feb-16 18:00:00		10.35	18.92	83.84	89.17
11-Feb-16 19:00:00	11-Feb-16 20:00:00		0.00	0.00	0.00	7.62	2.1	329.7		0.00	0.00	0.00	2.51		10.35	18.92	83.84	86.68	11-Feb-16 19:00:00		10.35	18.92	83.84	89.19
11-Feb-16 20:00:00	11-Feb-16 21:00:00		0.00	0.00	0.00	7.72	2.1	329.7		0.00	0.00	0.00	2.54		10.35	18.92	83.84	86.68	11-Feb-16 20:00:00		10.35	18.92	83.84	89.22
11-Feb-16 21:00:00	11-Feb-16 22:00:00		0.00	0.00	0.00	7.94	2.1	329.7		0.00	0.00	0.00	2.62		10.35	18.92	83.84	86.68	11-Feb-16 21:00:00		10.35	18.92	83.84	89.30
11-Feb-16 22:00:00	11-Feb-16 23:00:00		0.00	0.00	0.00	8.17	2.1	329.7		0.00	0.00	0.00	2.69		10.35	18.92	83.84	86.68	11-Feb-16 22:00:00		10.35	18.92	83.84	89.37
11-Feb-16 23:00:00	12-Feb-16 00:00:00		0.00	0.00	0.00	8.39	2.1	329.7		0.00	0.00	0.00	2.77		10.35	18.92	83.84	86.68	11-Feb-16 23:00:00		10.35	18.92	83.84	89.45
12-Feb-16 00:00:00	12-Feb-16 01:00:00		0.00	0.00	0.00	8.66	2.1	329.7		0.00	0.00	0.00	2.85		10.35	18.92	83.84	86.68	12-Feb-16 00:00:00		10.35	18.92	83.84	89.53
12-Feb-16 01:00:00	12-Feb-16 02:00:00		0.00	0.00	0.00	8.72	2.1	329.7		0.00	0.00	0.00	2.88		10.35	18.92	83.84	86.68	12-Feb-16 01:00:00		10.35	18.92	83.84	89.56
12-Feb-16 02:00:00	12-Feb-16 03:00:00		0.00	0.00	0.00	8.79	2.1	329.7		0.00	0.00	0.00	2.90		10.35	18.92	83.84	86.68	12-Feb-16 02:00:00		10.35	18.92	83.84	89.58
12-Feb-16 03:00:00	12-Feb-16 04:00:00		0.00	0.00	0.00	8.85	2.1	329.7		0.00	0.00	0.00	2.92		10.35	18.92	83.84	86.68	12-Feb-16 03:00:00		10.35	18.92	83.84	89.60
12-Feb-16 04:00:00	12-Feb-16 05:00:00		0.00	0.00	0.00	8.76	2.1	329.7		0.00	0.00	0.00	2.89		10.35	18.92	83.84	86.68	12-Feb-16 04:00:00		10.35	18.92	83.84	89.57
12-Feb-16 05:00:00	12-Feb-16 06:00:00		0.00	0.00	0.00	8.87	2.1	329.7		0.00	0.00	0.00	2.93		10.35	18.92	83.84	86.68	12-Feb-16 05:00:00		10.35	18.92	83.84	89.61
12-Feb-16 06:00:00	12-Feb-16 07:00:00		0.00	0.00	0.00	8.99	2.1	329.7		0.00	0.00	0.00	2.97		10.35	18.92	83.84	86.68	12-Feb-16 06:00:00		10.35	18.92	83.84	89.65
12-Feb-16 07:00:00	12-Feb-16 08:00:00		0.00	0.00	0.00	9.11	2.1	329.7		0.00	0.00	0.00	3.00		10.35	18.92	83.84	86.68	12-Feb-16 07:00:00		10.35	18.92	83.84	89.68
12-Feb-16 08:00:00	12-Feb-16 09:00:00		0.00	0.00	0.00	8.99	2.1	329.7		0.00	0.00	0.00	2.96		10.35	18.92	83.84	86.68	12-Feb-16 08:00:00		10.35	18.92	83.84	89.64
12-Feb-16 09:00:00	12-Feb-16 10:00:00		0.00	0.00	0.00	8.93	2.1	329.7		0.00	0.00	0.00	2.94		10.35	18.92	83.84	86.68	12-Feb-16 09:00:00		10.35	18.92	83.84	89.62
12-Feb-16 10:00:00	12-Feb-16 11:00:00		0.00	0.00	0.00	8.87	2.1	329.7		0.00	0.00	0.00	2.93		10.35	18.92	83.84	86.68	12-Feb-16 10:00:00		10.35	18.92	83.84	89.61
12-Feb-16 11:00:00	12-Feb-16 12:00:00		0.00	0.00	0.00	8.82	2.1	329.7		0.00	0.00	0.00	2.91		10.35	18.92	83.84	86.68	12-Feb-16 11:00:00		10.35	18.92	83.84	89.59
12-Feb-16 12:00:00	12-Feb-16 13:00:00		0.00	0.00	0.00	8.67	2.1	329.7		0.00	0.00	0.00	2.86		10.35	18.92	83.84	86.68	12-Feb-16 12:00:00		10.35	18.92	83.84	89.54
12-Feb-16 13:00:00	12-Feb-16 14:00:00		0.00	0.00	0.00	8.53	2.1	329.7		0.00	0.00	0.00	2.81		10.35	18.92	83.84	86.68	12-Feb-16 13:00:00		10.35	18.92	83.84	89.49
12-Feb-16 14:00:00	12-Feb-16 15:00:00		0.00	0.00	0.00	8.39	2.1	329.7		0.00	0.00	0.00	2.77		10.35	18.92	83.84	86.68	12-Feb-16 14:00:00		10.35	18.92	83.84	89.45
12-Feb-16 15:00:00	12-Feb-16 16:00:00		0.00	0.00	0.00	8.25	2.1	329.7		0.00	0.00	0.00	2.72		10.35	18.92	83.84	86.68	12-Feb-16 15:00:00		10.35	18.92	83.84	89.40
12-Feb-16 16:00:00	12-Feb-16 17:00:00		0.00	0.00	0.00	8.13	2.1	329.7		0.00	0.00	0.00	2.68		10.35	18.92	83.84	86.68	12-Feb-16 16:00:00		10.35	18.92	83.84	89.36
12-Feb-16 17:00:00	12-Feb-16 18:00:00		0.00	0.00	0.00	8.10	2.1	329.7		0.00	0.00	0.00	2.67		10.35	18.92	83.84	86.68	12-Feb-16 17:00:00		10.35	18.92	83.84	89.35
12-Feb-16 18:00:00	12-Feb-16 19:00:00		0.00	0.00	0.00	8.07	2.1	329.7		0.00	0.00	0.00	2.66		10.35	18.92	83.84	86.68	12-Feb-16 18:00:00		10.35	18.92	83.84	89.34
12-Feb-16 19:00:00	12-Feb-16 20:00:00		0.00	0.00	0.00	8.03	2.1	329.7		0.00	0.00	0.00	2.65		10.35	18.92	83.84	86.68	12-Feb-16 19:00:00		10.35	18.92	83.84	89.33
12-Feb-16 20:00:00	12-Feb-16 21:00:00		0.00	0.00	0.00	8.12	2.1	329.7		0.00	0.00	0.00	2.68		10.35	18.92	83.84	86.68	12-Feb-16 20:00:00		10.35	18.92	83.84	89.36
12-Feb-16 21:00:00	12-Feb-16 22:00:00		0.00	0.00	0.00	8.28	2.1	329.7		0.00	0.00	0.00	2.73		10.35	18.92	83.84	86.68	12-Feb-16 21:00:00		10.35	18.92	83.84	89.41
12-Feb-16 22:00:00	12-Feb-16 23:00:00		0.00	0.00	0.00	8.45	2.1	329.7		0.00	0.00	0.00	2.79		10.35	18.92	83.84	86.68	12-Feb-16 22:00:00		10.35	18.92	83.84	89.47
12-Feb-16 23:00:00	13-Feb-16 00:00:00		0.00	0.00	168.35	8.61	2.1	329.7		0.00	0.00	55.50	2.84		10.35	18.92	83.84	86.68	12-Feb-16 23:00:00		10.35	18.92	139.34	89.52
13-Feb-16 00:00:00	13-Feb-16 01:00:00		0.00	278.66	209.46	8.53	2.1	329.7		0.00	91.87	69.06	2.81		10.35	18.92	83.84	86.68	13-Feb-16 00:00:00		10.35	110.79	152.90	89.49
13-Feb-16 01:00:00	13-Feb-16 02:00:00		0.00	291.31	207.85	8.30	2.1	329.7		0.00	96.05	68.53	2.74		10.35	18.92	83.84	86.68	13-Feb-16 01:00:00		10.35	114.97	152.37	89.42
13-Feb-16 02:00:00	13-Feb-16 03:00:00		0.00	331.88	164.12	8.07	2.1	329.7		0.00	109.42	54.11	2.66		10.35	18.92	83.84	86.68	13-Feb-16 02:00:00		10.35	128.34	137.95	89.34
13-Feb-16 03:00:00	13-Feb-16 04:00:00		0.00	287.11	101.39	7.84	2.1	329.7		0.00	94.66	33.43	2.59		10.35	18.92	83.84	86.68	13-Feb-16 03:00:00		10.35	113.58	117.27	89.27
13-Feb-16 04:00:00	13-Feb-16 05:00:00		0.00	232.71	0.00	7.82	2.1	329.7		0.00	76.73	0.00	2.58		10.35	18.92	83.84	86.68	13-Feb-16 04:00:00		10.35	95.65	83.84	89.26
13-Feb-16 05:00:00	13-Feb-16 06:00:00		0.00	135.12	0.00	7.89	2.1	329.7		0.00	44.55	0.00	2.60		10.35	18.92	83.84	86.68	13-Feb-16 05:00:00		10.35	63.47	83.84	89.28
13-Feb-16 06:00:00	13-Feb-16 07:00:00		0.00	0.00	0.00	7.95	2.1	329.7		0.00	0.00	0.00	2.62		10.35	18.92	83.84	86.68	13-Feb-16 06:00:00		10.35	18.92	83.84	89.30
13-Feb-16 07:00:00	13-Feb-16 08:00:00		0.00	0.00	0.00	8.01	2.1	329.7		0.00	0.00	0.00	2.64		10.35	18.92	83.84	86.68	13-Feb-16 07:00:00		10.35	18.92	83.84	89.32
13-Feb-16 08:00:00	13-Feb-16 09:00:00		0.00	0.00	0.00	7.95	2.1	329.7		0.00	0.00	0.00	2.62		10.35	18.92	83.84	86.68	13-Feb-16 08:00:00		10.35	18.92	83.84	89.30
13-Feb-16 09:00:00	13-Feb-16 10:00:00		0.00	0.00	0.00	7.83	2.1	329.7		0.00	0.00	0.00	2.58		10.35	18.92	83.84	86.68	13-Feb-16 09:00:00		10.35	18.92	83.84	89.26
13-Feb-16 10:00:00	13-Feb-16 11:00:00		0.00	0.00	0.00	7.71	2.1	329.7		0.00	0.00	0.00	2.54		10.35	18.92	83.84	86.68	13-Feb-16 10:00:00		10.35	18.92	83.84	89.22
13-Feb-16 11:00:00	13-Feb-16 12:00:00		0.00	0.00	0.00	7.60	2.1	329.7		0.00	0.00	0.00	2.50		10.35	18.92	83.84	86.68	13-Feb-16 11:00:00		10.35	18.92	83.84	89.18
13-Feb-16 12:00:00	13-Feb-16 13:00:00		0.00	0.00	0.00	7.47	2.1	329.7		0.00	0.00	0.00	2.46		10.35	18.92	83.84	86.68	13-Feb-16 12:00:00		10.35	18.92	83.84	89.14
13-Feb-16 13:00:00	13-Feb-16 14:00:00		0.00	0.00	0.00	7.43	2.1	329.7		0.00	0.00	0.00	2.45		10.35	18.92	83.84	86.68	13-Feb-16 13:00:00		10.35	18.92	83.84	89.13
13-Feb-16 14:00:00	13-Feb-16 15:00:00		0.00	0.00	0.00	7.40	2.1	329.7		0.00	0.00	0.00	2.44		10.35	18.92	83.84	86.68	13-Feb-16 14:00:00		10.35	18.92	83.84	89.12
13-Feb-16 15:00:00	13-Feb-16 16:00:00		0.00	0.00	38.04	7.37	2.1	329.7		0.00	0.00	12.54	2.43		10.35	18.92	83.84	86.68	13-Feb-16 15:00:00		10.35	18.92	96.38	89.11
13-Feb-16 16:00:00	13-Feb-16 17:00:00		0.00	0.00	13.42	7.47	2.1	329.7		0.00	0.00	4.42	2.46		10.35	18.92	83.84	86.68	13-Feb-16 16:00:00		10.35	18.92	88.26	89.14
13-Feb-16 17:00:00	13-Feb-16 18:00:00		0.00	0.00	0.00	7.69	2.1	329.7		0.00	0.00	0.00	2.54		10.35	18.92	83.84	86.68	13-Feb-16 17:00:00		10.35	18.92	83.84	89.22
13-Feb-16 18:00:00	13-Feb-16 19:00:00		0.00	0.00	0.00	7.92	2.1	329.7		0.00	0.00	0.00	2.61		10.35	18.92	83.84	86.68	13-Feb-16 18:00:00		10.35	18.92	83.84	89.29
13-Feb-16 19:00:00	13-Feb-16 20:00:00		0.00	0.00	0.00	8.14	2.1	329.7		0.00	0.00	0.00	2.68		10.35	18.92	83.84	86.68	13-Feb-16 19:00:00		10.35	18.92	83.84	89.36
13-Feb-16 20:00:00	13-Feb-16 21:00:00		0.00	0.00	0.00	8.48	2.1	329.7		0.00	0.00	0.00	2.80		10.35	18.92	83.84	86.68	13-Feb-16 20:00:00		10.35	18.92	83.84	89.48
13-Feb-16 21:00:00	13-Feb-16 22:00:00		0.00	0.00	0.00	8.67	2.1	329.7		0.00	0.00	0.00	2.86		10.35	18.92	83.84	86.68	13-Feb-16 21:00:00		10.35	18.92	83.84	89.54
13-Feb-16 22:00:00	13-Feb-16 23:00:00		0.00	0.00	0.00	8.84	2.1	329.7		0.00	0.00	0.00	2.91		10.35	18.92	83.84	86.68	13-Feb-16 22:00:00		10.35	18.92	83.84	89.59
13-Feb-16 23:00:00	14-Feb-16 00:00:00		0.33	0.00	0.00	9.01	2.1	329.7		0.11	0.00	0.00	2.97		10.35	18.92	83.84	86.68	13-Feb-16 23:00:00		10.46	18.92	83.84	89.65
14-Feb-16 00:00:00	14-Feb-16 01:00:00		1.34	0.00	0.00	9.14	2.1	329.7		0.44	0.00	0.00	3.01		10.35	18.92	83.84	86.68	14-Feb-16 00:00:00		10.79	18.92	83.84	89.69
14-Feb-16 01:00:00	14-Feb-16 02:00:00		0.00	0.00	0.00	9.21	2.1	329.7		0.00	0.00	0.00	3.04		10.35	18.92	83.84	86.68	14-Feb-16 01:00:00		10.35	18.92	83.84	89.72
14-Feb-16 02:00:00	14-Feb-16 03:00:00		1.43	0.00	0.00	9.28	2.1	329.7		0.47	0.00	0.00	3.06		10.35	18.92	83.84	86.68	14-Feb-16 02:00:00		10.82	18.92	83.84	89.74
14-Feb-16 03:00:00	14-Feb-16 04:00:00		0.96	0.00	0.00	9.35	2.1	329.7		0.32	0.00	0.00	3.08		10.35	18.92	83.84	86.68	14-Feb-16 03:00:00		10.67	18.92	83.84	89.76
14-Feb-16 04:00:00	14-Feb-16 05:00:00		0.50	0.00	0.00	9.53	2.1	329.7		0.16	0.00	0.00	3.14		10.35	18.92	83.84	86.68	14-Feb-16 04:00:00		10.51	18.92	83.84	89.82
14-Feb-16 05:00:00	14-Feb-16 06:00:00		0.77	0.00	0.00	9.61	2.1	329.7		0.26	0.00	0.00	3.17		10.35	18.92	83.84	86.68	14-Feb-16 05:00:00		10.61	18.92	83.84	89.85
14-Feb-16 06:00:00	14-Feb-16 07:00:00		0.80	0.00	0.00	9.68	2.1	329.7		0.26	0.00	0.00	3.19		10.35	18.92	83.84	86.68	14-Feb-16 06:00:00		10.61	18.92	83.84	89.87
14-Feb-16 07:00:00	14-Feb-16 08:00:00		0.55	0.00	0.00	9.75	2.1	329.7		0.18	0.00	0.00	3.21		10.35	18.92	83.84	86.68	14-Feb-16 07:00:00		10.53	18.92	83.84	89.89
14-Feb-16 08:00:00	14-Feb-16 09:00:00		0.31	0.00	20.70	9.74	2.1	329.7		0.10	0.00	6.82	3.21		10.35	18.92	83.84	86.68	14-Feb-16 08:00:00		10.45	18.92	90.66	89.89
14-Feb-16 09:00:00	14-Feb-16 10:00:00		0.07	0.00	0.00	9.63	2.1	329.7		0.02	0.00	0.00	3.18		10.35	18.92	83.84	86.68	14-Feb-16 09:00:00		10.37	18.92	83.84	89.86
14-Feb-16 10:00:00	14-Feb-16 11:00:00		0.00	0.00	0.00	9.53	2.1	329.7		0.00	0.00	0.00	3.14		10.35	18.92	83.84	86.68	14-Feb-16 10:00:00		10.35	18.92	83.84	89.82
14-Feb-16 11:00:00	14-Feb-16 12:00:00		0.00	0.00	0.00	9.43	2.1	329.7		0.00	0.00	0.00	3.11		10.35	18.92	83.84	86.68	14-Feb-16 11:00:00		10.35	18.92	83.84	89.79
14-Feb-16 12:00:00	14-Feb-16 13:00:00		0.00	0.00	0.00	9.31	2.1	329.7		0.00	0.00	0.00	3.07		10.35	18.92	83.84	86.68	14-Feb-16 12:00:00		10.35	18.92	83.84	89.75
14-Feb-16 13:00:00	14-Feb-16 14:00:00		0.00	0.00	28.75	9.21	2.1	329.7		0.00	0.00	9.48	3.04		10.35	18.92	83.84	86.68	14-Feb-16 13:00:00		10.35	18.92	93.32	89.72
14-Feb-16 14:00:00	14-Feb-16 15:00:00		0.00	0.00	4.10	9.11	2.1	329.7		0.00	0.00	1.35	3.00		10.35	18.92	83.84	86.68	14-Feb-16 14:00:00		10.35	18.92	85.19	89.68
14-Feb-16 15:00:00	14-Feb-16 16:00:00		0.00	0.00	2.21	9.01	2.1	329.7		0.00	0.00	0.73	2.97		10.35	18.92	83.84	86.68	14-Feb-16 15:00:00		10.35	18.92	84.57	89.65
14-Feb-16 16:00:00	14-Feb-16 17:00:00		0.00	0.00	0.00	8.98	2.1	329.7		0.00	0.00	0.00	2.96		10.35	18.92	83.84	86.68	14-Feb-16 16:00:00		10.35	18.92	83.84	89.64
14-Feb-16 17:00:00	14-Feb-16 18:00:00		0.00	0.00	0.00	8.90	2.1	329.7		0.00	0.00	0.00	2.93		10.35	18.92	83.84	86.68	14-Feb-16 17:00:00		10.35	18.92	83.84	89.61
14-Feb-16 18:00:00	14-Feb-16 19:00:00		0.00	0.00	0.00	8.81	2.1	329.7		0.00	0.00	0.00	2.90		10.35	18.92	83.84	86.68	14-Feb-16 18:00:00		10.35	18.92	83.84	89.58
14-Feb-16 19:00:00	14-Feb-16 20:00:00		0.00	0.00	0.00	8.72	2.1	329.7		0.00	0.00	0.00	2.87		10.35	18.92	83.84	86.68	14-Feb-16 19:00:00		10.35	18.92	83.84	89.55
14-Feb-16 20:00:00	14-Feb-16 21:00:00		0.00	0.00	0.00	8.74	2.1	329.7		0.00	0.00	0.00	2.88		10.35	18.92	83.84	86.68	14-Feb-16 20:00:00		10.35	18.92	83.84	89.56
14-Feb-16 21:00:00	14-Feb-16 22:00:00		83.11	554.75	0.00	8.75	2.1	329.7		27.40	182.90	0.00	2.88		10.35	18.92	83.84	86.68	14-Feb-16 21:00:00		37.75	201.82	83.84	89.56
14-Feb-16 22:00:00	14-Feb-16 23:00:00		246.74	723.11	0.00	8.74	2.1	329.7		81.35	238.41	0.00	2.88		10.35	18.92	83.84	86.68	14-Feb-16 22:00:00		91.70	257.33	83.84	89.56
14-Feb-16 23:00:00	15-Feb-16 00:00:00		226.68	722.68	0.00	8.74	2.1	329.7		74.73	238.27	0.00	2.88		10.35	18.92	83.84	86.68	14-Feb-16 23:00:00		85.08	257.19	83.84	89.56
15-Feb-16 00:00:00	15-Feb-16 01:00:00		232.94	722.22	0.00	8.72	2.1	329.7		76.80	238.12	0.00	2.88		10.35	18.92	83.84	86.68	15-Feb-16 00:00:00		87.15	257.04	83.84	89.56
15-Feb-16 01:00:00	15-Feb-16 02:00:00		196.08	560.61	0.00	8.68	2.1	329.7		64.65	184.83	0.00	2.86		10.35	18.92	83.84	86.68	15-Feb-16 01:00:00		75.00	203.75	83.84	89.54
15-Feb-16 02:00:00	15-Feb-16 03:00:00		191.79	601.59	0.00	8.64	2.1	329.7		63.23	198.34	0.00	2.85		10.35	18.92	83.84	86.68	15-Feb-16 02:00:00		73.58	217.26	83.84	89.53
15-Feb-16 03:00:00	15-Feb-16 04:00:00		163.01	591.19	0.00	8.60	2.1	329.7		53.75	194.92	0.00	2.84		10.35	18.92	83.84	86.68	15-Feb-16 03:00:00		64.10	213.84	83.84	89.52
15-Feb-16 04:00:00	15-Feb-16 05:00:00		76.85	663.26	0.00	8.64	2.1	329.7		25.34	218.68	0.00	2.85		10.35	18.92	83.84	86.68	15-Feb-16 04:00:00		35.69	237.60	83.84	89.53
15-Feb-16 05:00:00	15-Feb-16 06:00:00		0.00	584.11	0.00	8.67	2.1	329.7		0.00	192.58	0.00	2.86		10.35	18.92	83.84	86.68	15-Feb-16 05:00:00		10.35	211.50	83.84	89.54
15-Feb-16 06:00:00	15-Feb-16 07:00:00		0.00	312.29	0.00	8.68	2.1	329.7		0.00	102.96	0.00	2.86		10.35	18.92	83.84	86.68	15-Feb-16 06:00:00		10.35	121.88	83.84	89.54
15-Feb-16 07:00:00	15-Feb-16 08:00:00		0.00	234.43	0.00	8.69	2.1	329.7		0.00	77.29	0.00	2.86		10.35	18.92	83.84	86.68	15-Feb-16 07:00:00		10.35	96.21	83.84	89.54
15-Feb-16 08:00:00	15-Feb-16 09:00:00		0.00	232.87	0.00	8.84	2.1	329.7		0.00	76.78	0.00	2.92		10.35	18.92	83.84	86.68	15-Feb-16 08:00:00		10.35	95.70	83.84	89.60
15-Feb-16 09:00:00	15-Feb-16 10:00:00		0.00	259.06	39.30	8.95	2.1	329.7		0.00	85.41	12.96	2.95		10.35	18.92	83.84	86.68	15-Feb-16 09:00:00		10.35	104.33	96.80	89.63
15-Feb-16 10:00:00	15-Feb-16 11:00:00		0.00	412.63	200.09	9.04	2.1	329.7		0.00	136.04	65.97	2.98		10.35	18.92	83.84	86.68	15-Feb-16 10:00:00		10.35	154.96	149.81	89.66
15-Feb-16 11:00:00	15-Feb-16 12:00:00		0.00	155.09	61.15	9.12	2.1	329.7		0.00	51.13	20.16	3.01		10.35	18.92	83.84	86.68	15-Feb-16 11:00:00		10.35	70.05	104.00	89.69
15-Feb-16 12:00:00	15-Feb-16 13:00:00		0.00	0.00	0.00	9.06	2.1	329.7		0.00	0.00	0.00	2.99		10.35	18.92	83.84	86.68	15-Feb-16 12:00:00		10.35	18.92	83.84	89.67
15-Feb-16 13:00:00	15-Feb-16 14:00:00		0.00	0.00	0.00	8.94	2.1	329.7		0.00	0.00	0.00	2.95		10.35	18.92	83.84	86.68	15-Feb-16 13:00:00		10.35	18.92	83.84	89.63
15-Feb-16 14:00:00	15-Feb-16 15:00:00		0.00	0.00	0.00	8.84

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
17-Feb-16 16:00:00	17-Feb-16 17:00:00		0.00	0.00	0.00	7.00	2.1	329.7		0.00	0.00	0.00	2.31		10.35	18.92	83.84	86.68	17-Feb-16 16:00:00		**10.35**	**18.92**	**83.84**	**88.99**
17-Feb-16 17:00:00	17-Feb-16 18:00:00		0.00	0.00	0.00	6.97	2.1	329.7		0.00	0.00	0.00	2.30		10.35	18.92	83.84	86.68	17-Feb-16 17:00:00		**10.35**	**18.92**	**83.84**	**88.98**
17-Feb-16 18:00:00	17-Feb-16 19:00:00		0.00	0.00	0.00	6.93	2.1	329.7		0.00	0.00	0.00	2.28		10.35	18.92	83.84	86.68	17-Feb-16 18:00:00		**10.35**	**18.92**	**83.84**	**88.96**
17-Feb-16 19:00:00	17-Feb-16 20:00:00		0.00	0.00	0.00	7.07	2.1	329.7		0.00	0.00	0.00	2.33		10.35	18.92	83.84	86.68	17-Feb-16 19:00:00		**10.35**	**18.92**	**83.84**	**89.01**
17-Feb-16 20:00:00	17-Feb-16 21:00:00		0.00	0.00	0.00	7.34	2.1	329.7		0.00	0.00	0.00	2.42		10.35	18.92	83.84	86.68	17-Feb-16 20:00:00		**10.35**	**18.92**	**83.84**	**89.10**
17-Feb-16 21:00:00	17-Feb-16 22:00:00		0.00	0.00	0.00	7.61	2.1	329.7		0.00	0.00	0.00	2.51		10.35	18.92	83.84	86.68	17-Feb-16 21:00:00		**10.35**	**18.92**	**83.84**	**89.19**
17-Feb-16 22:00:00	17-Feb-16 23:00:00		0.00	0.00	0.00	7.87	2.1	329.7		0.00	0.00	0.00	2.60		10.35	18.92	83.84	86.68	17-Feb-16 22:00:00		**10.35**	**18.92**	**83.84**	**89.28**
17-Feb-16 23:00:00	18-Feb-16 00:00:00		0.00	0.00	0.00	8.12	2.1	329.7		0.00	0.00	0.00	2.68		10.35	18.92	83.84	86.68	17-Feb-16 23:00:00		**10.35**	**18.92**	**83.84**	**89.36**
18-Feb-16 00:00:00	18-Feb-16 01:00:00		0.00	0.00	0.00	8.12	2.1	329.7		0.00	0.00	0.00	2.68		10.35	18.92	83.84	86.68	18-Feb-16 00:00:00		**10.35**	**18.92**	**83.84**	**89.36**
18-Feb-16 01:00:00	18-Feb-16 02:00:00		0.00	0.00	0.00	8.11	2.1	329.7		0.00	0.00	0.00	2.67		10.35	18.92	83.84	86.68	18-Feb-16 01:00:00		**10.35**	**18.92**	**83.84**	**89.35**
18-Feb-16 02:00:00	18-Feb-16 03:00:00		0.00	0.00	0.00	8.10	2.1	329.7		0.00	0.00	0.00	2.67		10.35	18.92	83.84	86.68	18-Feb-16 02:00:00		**10.35**	**18.92**	**83.84**	**89.35**
18-Feb-16 03:00:00	18-Feb-16 04:00:00		0.00	0.00	0.00	8.24	2.1	329.7		0.00	0.00	0.00	2.72		10.35	18.92	83.84	86.68	18-Feb-16 03:00:00		**10.35**	**18.92**	**83.84**	**89.40**
18-Feb-16 04:00:00	18-Feb-16 05:00:00		0.00	0.00	0.00	8.28	2.1	329.7		0.00	0.00	0.00	2.73		10.35	18.92	83.84	86.68	18-Feb-16 04:00:00		**10.35**	**18.92**	**83.84**	**89.41**
18-Feb-16 05:00:00	18-Feb-16 06:00:00		0.00	0.00	0.00	8.31	2.1	329.7		0.00	0.00	0.00	2.74		10.35	18.92	83.84	86.68	18-Feb-16 05:00:00		**10.35**	**18.92**	**83.84**	**89.42**
18-Feb-16 06:00:00	18-Feb-16 07:00:00		0.00	0.00	0.00	8.34	2.1	329.7		0.00	0.00	0.00	2.75		10.35	18.92	83.84	86.68	18-Feb-16 06:00:00		**10.35**	**18.92**	**83.84**	**89.43**
18-Feb-16 07:00:00	18-Feb-16 08:00:00		0.00	0.00	0.00	15.95	2.1	329.7		0.00	0.00	0.00	5.26		10.35	18.92	83.84	86.68	18-Feb-16 07:00:00		**10.35**	**18.92**	**83.84**	**91.94**
18-Feb-16 08:00:00	18-Feb-16 09:00:00		0.00	0.00	240.14	789.20	2.1	329.7		0.00	0.00	79.17	260.20		10.35	18.92	83.84	86.68	18-Feb-16 08:00:00		**10.35**	**18.92**	**163.01**	**346.88**
18-Feb-16 09:00:00	18-Feb-16 10:00:00		0.00	0.00	714.74	1,482.23	2.1	329.7		0.00	0.00	235.65	488.69		10.35	18.92	83.84	86.68	18-Feb-16 09:00:00		**10.35**	**18.92**	**319.49**	**575.37**
18-Feb-16 10:00:00	18-Feb-16 11:00:00		0.00	15.47	193.19	628.03	2.1	329.7		0.00	5.10	63.70	207.06		10.35	18.92	83.84	86.68	18-Feb-16 10:00:00		**10.35**	**24.02**	**147.54**	**293.74**
18-Feb-16 11:00:00	18-Feb-16 12:00:00		0.00	0.00	0.00	7.29	2.1	329.7		0.00	0.00	0.00	2.40		10.35	18.92	83.84	86.68	18-Feb-16 11:00:00		**10.35**	**18.92**	**83.84**	**89.08**
18-Feb-16 12:00:00	18-Feb-16 13:00:00		0.00	0.00	0.00	7.21	2.1	329.7		0.00	0.00	0.00	2.38		10.35	18.92	83.84	86.68	18-Feb-16 12:00:00		**10.35**	**18.92**	**83.84**	**89.06**
18-Feb-16 13:00:00	18-Feb-16 14:00:00		0.00	0.00	0.00	7.14	2.1	329.7		0.00	0.00	0.00	2.35		10.35	18.92	83.84	86.68	18-Feb-16 13:00:00		**10.35**	**18.92**	**83.84**	**89.03**
18-Feb-16 14:00:00	18-Feb-16 15:00:00		0.00	0.00	0.00	7.04	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	18-Feb-16 14:00:00		**10.35**	**18.92**	**83.84**	**89.00**
18-Feb-16 15:00:00	18-Feb-16 16:00:00		0.00	0.00	0.00	7.01	2.1	329.7		0.00	0.00	0.00	2.31		10.35	18.92	83.84	86.68	18-Feb-16 15:00:00		**10.35**	**18.92**	**83.84**	**88.99**
18-Feb-16 16:00:00	18-Feb-16 17:00:00		0.00	0.00	0.00	7.13	2.1	329.7		0.00	0.00	0.00	2.35		10.35	18.92	83.84	86.68	18-Feb-16 16:00:00		**10.35**	**18.92**	**83.84**	**89.03**
18-Feb-16 17:00:00	18-Feb-16 18:00:00		0.00	0.00	0.00	7.26	2.1	329.7		0.00	0.00	0.00	2.39		10.35	18.92	83.84	86.68	18-Feb-16 17:00:00		**10.35**	**18.92**	**83.84**	**89.07**
18-Feb-16 18:00:00	18-Feb-16 19:00:00		0.00	0.00	0.00	7.38	2.1	329.7		0.00	0.00	0.00	2.43		10.35	18.92	83.84	86.68	18-Feb-16 18:00:00		**10.35**	**18.92**	**83.84**	**89.11**
18-Feb-16 19:00:00	18-Feb-16 20:00:00		0.00	0.00	0.00	7.54	2.1	329.7		0.00	0.00	0.00	2.49		10.35	18.92	83.84	86.68	18-Feb-16 19:00:00		**10.35**	**18.92**	**83.84**	**89.17**
18-Feb-16 20:00:00	18-Feb-16 21:00:00		0.00	0.00	0.00	7.74	2.1	329.7		0.00	0.00	0.00	2.55		10.35	18.92	83.84	86.68	18-Feb-16 20:00:00		**10.35**	**18.92**	**83.84**	**89.23**
18-Feb-16 21:00:00	18-Feb-16 22:00:00		0.00	0.00	0.00	7.94	2.1	329.7		0.00	0.00	0.00	2.62		10.35	18.92	83.84	86.68	18-Feb-16 21:00:00		**10.35**	**18.92**	**83.84**	**89.30**
18-Feb-16 22:00:00	18-Feb-16 23:00:00		0.00	0.00	0.00	8.15	2.1	329.7		0.00	0.00	0.00	2.69		10.35	18.92	83.84	86.68	18-Feb-16 22:00:00		**10.35**	**18.92**	**83.84**	**89.37**
18-Feb-16 23:00:00	19-Feb-16 00:00:00		0.00	0.00	0.00	8.33	2.1	329.7		0.00	0.00	0.00	2.75		10.35	18.92	83.84	86.68	18-Feb-16 23:00:00		**10.35**	**18.92**	**83.84**	**89.43**
19-Feb-16 00:00:00	19-Feb-16 01:00:00		0.00	0.00	0.00	8.45	2.1	329.7		0.00	0.00	0.00	2.79		10.35	18.92	83.84	86.68	19-Feb-16 00:00:00		**10.35**	**18.92**	**83.84**	**89.47**
19-Feb-16 01:00:00	19-Feb-16 02:00:00		0.00	0.00	0.00	8.57	2.1	329.7		0.00	0.00	0.00	2.83		10.35	18.92	83.84	86.68	19-Feb-16 01:00:00		**10.35**	**18.92**	**83.84**	**89.51**
19-Feb-16 02:00:00	19-Feb-16 03:00:00		0.00	0.00	0.00	8.69	2.1	329.7		0.00	0.00	0.00	2.86		10.35	18.92	83.84	86.68	19-Feb-16 02:00:00		**10.35**	**18.92**	**83.84**	**89.54**
19-Feb-16 03:00:00	19-Feb-16 04:00:00		0.00	0.00	0.00	8.71	2.1	329.7		0.00	0.00	0.00	2.87		10.35	18.92	83.84	86.68	19-Feb-16 03:00:00		**10.35**	**18.92**	**83.84**	**89.55**
19-Feb-16 04:00:00	19-Feb-16 05:00:00		0.00	0.00	0.00	8.70	2.1	329.7		0.00	0.00	0.00	2.87		10.35	18.92	83.84	86.68	19-Feb-16 04:00:00		**10.35**	**18.92**	**83.84**	**89.55**
19-Feb-16 05:00:00	19-Feb-16 06:00:00		0.00	0.00	0.00	8.68	2.1	329.7		0.00	0.00	0.00	2.86		10.35	18.92	83.84	86.68	19-Feb-16 05:00:00		**10.35**	**18.92**	**83.84**	**89.54**
19-Feb-16 06:00:00	19-Feb-16 07:00:00		0.00	0.00	0.00	8.66	2.1	329.7		0.00	0.00	0.00	2.85		10.35	18.92	83.84	86.68	19-Feb-16 06:00:00		**10.35**	**18.92**	**83.84**	**89.53**
19-Feb-16 07:00:00	19-Feb-16 08:00:00		0.00	0.00	0.00	8.49	2.1	329.7		0.00	0.00	0.00	2.80		10.35	18.92	83.84	86.68	19-Feb-16 07:00:00		**10.35**	**18.92**	**83.84**	**89.48**
19-Feb-16 08:00:00	19-Feb-16 09:00:00		0.00	0.00	0.00	8.26	2.1	329.7		0.00	0.00	0.00	2.72		10.35	18.92	83.84	86.68	19-Feb-16 08:00:00		**10.35**	**18.92**	**83.84**	**89.40**
19-Feb-16 09:00:00	19-Feb-16 10:00:00		0.00	0.00	0.00	8.03	2.1	329.7		0.00	0.00	0.00	2.65		10.35	18.92	83.84	86.68	19-Feb-16 09:00:00		**10.35**	**18.92**	**83.84**	**89.33**
19-Feb-16 10:00:00	19-Feb-16 11:00:00		0.00	0.00	0.00	7.80	2.1	329.7		0.00	0.00	0.00	2.57		10.35	18.92	83.84	86.68	19-Feb-16 10:00:00		**10.35**	**18.92**	**83.84**	**89.25**
19-Feb-16 11:00:00	19-Feb-16 12:00:00		0.00	0.00	0.00	7.58	2.1	329.7		0.00	0.00	0.00	2.50		10.35	18.92	83.84	86.68	19-Feb-16 11:00:00		**10.35**	**18.92**	**83.84**	**89.18**
19-Feb-16 12:00:00	19-Feb-16 13:00:00		0.00	0.00	0.00	7.40	2.1	329.7		0.00	0.00	0.00	2.44		10.35	18.92	83.84	86.68	19-Feb-16 12:00:00		**10.35**	**18.92**	**83.84**	**89.12**
19-Feb-16 13:00:00	19-Feb-16 14:00:00		0.00	0.00	0.00	7.21	2.1	329.7		0.00	0.00	0.00	2.38		10.35	18.92	83.84	86.68	19-Feb-16 13:00:00		**10.35**	**18.92**	**83.84**	**89.06**
19-Feb-16 14:00:00	19-Feb-16 15:00:00		0.00	0.00	0.00	7.02	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	19-Feb-16 14:00:00		**10.35**	**18.92**	**83.84**	**89.00**
19-Feb-16 15:00:00	19-Feb-16 16:00:00		0.00	0.00	0.00	6.92	2.1	329.7		0.00	0.00	0.00	2.28		10.35	18.92	83.84	86.68	19-Feb-16 15:00:00		**10.35**	**18.92**	**83.84**	**88.96**
19-Feb-16 16:00:00	19-Feb-16 17:00:00		0.00	0.00	0.00	6.93	2.1	329.7		0.00	0.00	0.00	2.29		10.35	18.92	83.84	86.68	19-Feb-16 16:00:00		**10.35**	**18.92**	**83.84**	**88.97**
19-Feb-16 17:00:00	19-Feb-16 18:00:00		0.00	0.00	0.00	6.95	2.1	329.7		0.00	0.00	0.00	2.29		10.35	18.92	83.84	86.68	19-Feb-16 17:00:00		**10.35**	**18.92**	**83.84**	**88.97**
19-Feb-16 18:00:00	19-Feb-16 19:00:00		0.00	0.00	0.00	6.98	2.1	329.7		0.00	0.00	0.00	2.30		10.35	18.92	83.84	86.68	19-Feb-16 18:00:00		**10.35**	**18.92**	**83.84**	**88.98**
19-Feb-16 19:00:00	19-Feb-16 20:00:00		0.00	0.00	0.00	7.09	2.1	329.7		0.00	0.00	0.00	2.34		10.35	18.92	83.84	86.68	19-Feb-16 19:00:00		**10.35**	**18.92**	**83.84**	**89.02**
19-Feb-16 20:00:00	19-Feb-16 21:00:00		0.00	0.00	0.00	7.14	2.1	329.7		0.00	0.00	0.00	2.36		10.35	18.92	83.84	86.68	19-Feb-16 20:00:00		**10.35**	**18.92**	**83.84**	**89.04**
19-Feb-16 21:00:00	19-Feb-16 22:00:00		0.00	0.00	0.00	7.20	2.1	329.7		0.00	0.00	0.00	2.37		10.35	18.92	83.84	86.68	19-Feb-16 21:00:00		**10.35**	**18.92**	**83.84**	**89.05**
19-Feb-16 22:00:00	19-Feb-16 23:00:00		0.00	0.00	0.00	7.28	2.1	329.7		0.00	0.00	0.00	2.40		10.35	18.92	83.84	86.68	19-Feb-16 22:00:00		**10.35**	**18.92**	**83.84**	**89.08**
19-Feb-16 23:00:00	20-Feb-16 00:00:00		0.00	0.00	0.00	7.45	2.1	329.7		0.00	0.00	0.00	2.46		10.35	18.92	83.84	86.68	19-Feb-16 23:00:00		**10.35**	**18.92**	**83.84**	**89.14**
20-Feb-16 00:00:00	20-Feb-16 01:00:00		0.00	0.00	0.00	7.46	2.1	329.7		0.00	0.00	0.00	2.46		10.35	18.92	83.84	86.68	20-Feb-16 00:00:00		**10.35**	**18.92**	**83.84**	**89.14**
20-Feb-16 01:00:00	20-Feb-16 02:00:00		0.00	0.00	0.00	7.47	2.1	329.7		0.00	0.00	0.00	2.46		10.35	18.92	83.84	86.68	20-Feb-16 01:00:00		**10.35**	**18.92**	**83.84**	**89.14**
20-Feb-16 02:00:00	20-Feb-16 03:00:00		0.00	0.00	0.00	7.49	2.1	329.7		0.00	0.00	0.00	2.47		10.35	18.92	83.84	86.68	20-Feb-16 02:00:00		**10.35**	**18.92**	**83.84**	**89.15**
20-Feb-16 03:00:00	20-Feb-16 04:00:00		0.00	0.00	0.00	7.55	2.1	329.7		0.00	0.00	0.00	2.49		10.35	18.92	83.84	86.68	20-Feb-16 03:00:00		**10.35**	**18.92**	**83.84**	**89.17**
20-Feb-16 04:00:00	20-Feb-16 05:00:00		0.00	0.00	0.00	7.56	2.1	329.7		0.00	0.00	0.00	2.49		10.35	18.92	83.84	86.68	20-Feb-16 04:00:00		**10.35**	**18.92**	**83.84**	**89.17**
20-Feb-16 05:00:00	20-Feb-16 06:00:00		0.00	0.00	0.00	7.57	2.1	329.7		0.00	0.00	0.00	2.50		10.35	18.92	83.84	86.68	20-Feb-16 05:00:00		**10.35**	**18.92**	**83.84**	**89.18**
20-Feb-16 06:00:00	20-Feb-16 07:00:00		0.00	0.00	0.00	7.59	2.1	329.7		0.00	0.00	0.00	2.50		10.35	18.92	83.84	86.68	20-Feb-16 06:00:00		**10.35**	**18.92**	**83.84**	**89.18**
20-Feb-16 07:00:00	20-Feb-16 08:00:00		0.00	0.00	0.00	7.51	2.1	329.7		0.00	0.00	0.00	2.47		10.35	18.92	83.84	86.68	20-Feb-16 07:00:00		**10.35**	**18.92**	**83.84**	**89.15**
20-Feb-16 08:00:00	20-Feb-16 09:00:00		0.00	0.00	0.00	7.31	2.1	329.7		0.00	0.00	0.00	2.41		10.35	18.92	83.84	86.68	20-Feb-16 08:00:00		**10.35**	**18.92**	**83.84**	**89.09**
20-Feb-16 09:00:00	20-Feb-16 10:00:00		0.00	0.00	0.00	7.11	2.1	329.7		0.00	0.00	0.00	2.34		10.35	18.92	83.84	86.68	20-Feb-16 09:00:00		**10.35**	**18.92**	**83.84**	**89.02**
20-Feb-16 10:00:00	20-Feb-16 11:00:00		0.00	0.00	0.00	6.92	2.1	329.7		0.00	0.00	0.00	2.28		10.35	18.92	83.84	86.68	20-Feb-16 10:00:00		**10.35**	**18.92**	**83.84**	**88.96**
20-Feb-16 11:00:00	20-Feb-16 12:00:00		0.00	0.00	0.00	6.94	2.1	329.7		0.00	0.00	0.00	2.29		10.35	18.92	83.84	86.68	20-Feb-16 11:00:00		**10.35**	**18.92**	**83.84**	**88.97**
20-Feb-16 12:00:00	20-Feb-16 13:00:00		0.00	0.00	0.00	6.99	2.1	329.7		0.00	0.00	0.00	2.30		10.35	18.92	83.84	86.68	20-Feb-16 12:00:00		**10.35**	**18.92**	**83.84**	**88.98**
20-Feb-16 13:00:00	20-Feb-16 14:00:00		0.00	0.00	0.00	7.03	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	20-Feb-16 13:00:00		**10.35**	**18.92**	**83.84**	**89.00**
20-Feb-16 14:00:00	20-Feb-16 15:00:00		0.00	0.00	0.00	7.06	2.1	329.7		0.00	0.00	0.00	2.33		10.35	18.92	83.84	86.68	20-Feb-16 14:00:00		**10.35**	**18.92**	**83.84**	**89.01**
20-Feb-16 15:00:00	20-Feb-16 16:00:00		0.00	0.00	0.00	6.92	2.1	329.7		0.00	0.00	0.00	2.28		10.35	18.92	83.84	86.68	20-Feb-16 15:00:00		**10.35**	**18.92**	**83.84**	**88.96**
20-Feb-16 16:00:00	20-Feb-16 17:00:00		0.00	0.00	0.00	6.88	2.1	329.7		0.00	0.00	0.00	2.27		10.35	18.92	83.84	86.68	20-Feb-16 16:00:00		**10.35**	**18.92**	**83.84**	**88.95**
20-Feb-16 17:00:00	20-Feb-16 18:00:00		0.00	0.00	0.00	6.84	2.1	329.7		0.00	0.00	0.00	2.26		10.35	18.92	83.84	86.68	20-Feb-16 17:00:00		**10.35**	**18.92**	**83.84**	**88.94**
20-Feb-16 18:00:00	20-Feb-16 19:00:00		0.00	0.00	0.00	6.83	2.1	329.7		0.00	0.00	0.00	2.25		10.35	18.92	83.84	86.68	20-Feb-16 18:00:00		**10.35**	**18.92**	**83.84**	**88.93**
20-Feb-16 19:00:00	20-Feb-16 20:00:00		0.00	0.00	0.00	7.05	2.1	329.7		0.00	0.00	0.00	2.33		10.35	18.92	83.84	86.68	20-Feb-16 19:00:00		**10.35**	**18.92**	**83.84**	**89.01**
20-Feb-16 20:00:00	20-Feb-16 21:00:00		0.00	0.00	0.00	7.16	2.1	329.7		0.00	0.00	0.00	2.36		10.35	18.92	83.84	86.68	20-Feb-16 20:00:00		**10.35**	**18.92**	**83.84**	**89.04**
20-Feb-16 21:00:00	20-Feb-16 22:00:00		0.00	0.00	0.00	7.27	2.1	329.7		0.00	0.00	0.00	2.40		10.35	18.92	83.84	86.68	20-Feb-16 21:00:00		**10.35**	**18.92**	**83.84**	**89.08**
20-Feb-16 22:00:00	20-Feb-16 23:00:00		0.00	0.00	0.00	7.36	2.1	329.7		0.00	0.00	0.00	2.43		10.35	18.92	83.84	86.68	20-Feb-16 22:00:00		**10.35**	**18.92**	**83.84**	**89.11**
20-Feb-16 23:00:00	21-Feb-16 00:00:00		0.00	0.00	0.00	7.24	2.1	329.7		0.00	0.00	0.00	2.39		10.35	18.92	83.84	86.68	20-Feb-16 23:00:00		**10.35**	**18.92**	**83.84**	**89.07**
21-Feb-16 00:00:00	21-Feb-16 01:00:00		0.00	0.00	0.00	7.14	2.1	329.7		0.00	0.00	0.00	2.35		10.35	18.92	83.84	86.68	21-Feb-16 00:00:00		**10.35**	**18.92**	**83.84**	**89.03**
21-Feb-16 01:00:00	21-Feb-16 02:00:00		0.00	0.00	0.00	7.04	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	21-Feb-16 01:00:00		**10.35**	**18.92**	**83.84**	**89.00**
21-Feb-16 02:00:00	21-Feb-16 03:00:00		0.00	0.00	0.00	6.96	2.1	329.7		0.00	0.00	0.00	2.29		10.35	18.92	83.84	86.68	21-Feb-16 02:00:00		**10.35**	**18.92**	**83.84**	**88.97**
21-Feb-16 03:00:00	21-Feb-16 04:00:00		0.00	0.00	0.00	7.05	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	21-Feb-16 03:00:00		**10.35**	**18.92**	**83.84**	**89.00**
21-Feb-16 04:00:00	21-Feb-16 05:00:00		0.00	0.00	0.00	7.11	2.1	329.7		0.00	0.00	0.00	2.34		10.35	18.92	83.84	86.68	21-Feb-16 04:00:00		**10.35**	**18.92**	**83.84**	**89.02**
21-Feb-16 05:00:00	21-Feb-16 06:00:00		0.00	0.00	0.00	7.17	2.1	329.7		0.00	0.00	0.00	2.36		10.35	18.92	83.84	86.68	21-Feb-16 05:00:00		**10.35**	**18.92**	**83.84**	**89.04**
21-Feb-16 06:00:00	21-Feb-16 07:00:00		0.00	0.00	0.00	7.21	2.1	329.7		0.00	0.00	0.00	2.38		10.35	18.92	83.84	86.68	21-Feb-16 06:00:00		**10.35**	**18.92**	**83.84**	**89.06**
21-Feb-16 07:00:00	21-Feb-16 08:00:00		0.00	0.00	0.00	7.08	2.1	329.7		0.00	0.00	0.00	2.33		10.35	18.92	83.84	86.68	21-Feb-16 07:00:00		**10.35**	**18.92**	**83.84**	**89.01**
21-Feb-16 08:00:00	21-Feb-16 09:00:00		0.00	0.00	0.00	7.04	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	21-Feb-16 08:00:00		**10.35**	**18.92**	**83.84**	**89.00**
21-Feb-16 09:00:00	21-Feb-16 10:00:00		0.00	0.00	0.00	6.99	2.1	329.7		0.00	0.00	0.00	2.31		10.35	18.92	83.84	86.68	21-Feb-16 09:00:00		**10.35**	**18.92**	**83.84**	**88.99**
21-Feb-16 10:00:00	21-Feb-16 11:00:00		0.00	0.00	0.00	6.93	2.1	329.7		0.00	0.00	0.00	2.29		10.35	18.92	83.84	86.68	21-Feb-16 10:00:00		**10.35**	**18.92**	**83.84**	**88.97**
21-Feb-16 11:00:00	21-Feb-16 12:00:00		0.00	0.00	0.00	6.78	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	21-Feb-16 11:00:00		**10.35**	**18.92**	**83.84**	**88.92**
21-Feb-16 12:00:00	21-Feb-16 13:00:00		0.00	0.00	0.00	6.82	2.1	329.7		0.00	0.00	0.00	2.25		10.35	18.92	83.84	86.68	21-Feb-16 12:00:00		**10.35**	**18.92**	**83.84**	**88.93**
21-Feb-16 13:00:00	21-Feb-16 14:00:00		0.00	0.00	0.00	6.85

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
23-Feb-16 15:00:00	23-Feb-16 16:00:00		43.13	0.00	0.00	7.35	2.1	329.7		14.22	0.00	0.00	2.42		10.35	18.92	83.84	86.68	23-Feb-16 15:00:00	**24.57**	**18.92**	**83.84**	**89.10**	
23-Feb-16 16:00:00	23-Feb-16 17:00:00		0.00	0.00	0.00	7.35	2.1	329.7		0.00	0.00	0.00	2.42		10.35	18.92	83.84	86.68	23-Feb-16 16:00:00	**10.35**	**18.92**	**83.84**	**89.10**	
23-Feb-16 17:00:00	23-Feb-16 18:00:00		0.00	0.00	0.00	7.39	2.1	329.7		0.00	0.00	0.00	2.44		10.35	18.92	83.84	86.68	23-Feb-16 17:00:00	**10.35**	**18.92**	**83.84**	**89.12**	
23-Feb-16 18:00:00	23-Feb-16 19:00:00		0.00	0.00	0.00	7.41	2.1	329.7		0.00	0.00	0.00	2.44		10.35	18.92	83.84	86.68	23-Feb-16 18:00:00	**10.35**	**18.92**	**83.84**	**89.12**	
23-Feb-16 19:00:00	23-Feb-16 20:00:00		0.00	0.00	0.00	7.43	2.1	329.7		0.00	0.00	0.00	2.45		10.35	18.92	83.84	86.68	23-Feb-16 19:00:00	**10.35**	**18.92**	**83.84**	**89.13**	
23-Feb-16 20:00:00	23-Feb-16 21:00:00		0.00	0.00	0.00	7.48	2.1	329.7		0.00	0.00	0.00	2.47		10.35	18.92	83.84	86.68	23-Feb-16 20:00:00	**10.35**	**18.92**	**83.84**	**89.15**	
23-Feb-16 21:00:00	23-Feb-16 22:00:00		0.00	0.00	0.00	7.64	2.1	329.7		0.00	0.00	0.00	2.52		10.35	18.92	83.84	86.68	23-Feb-16 21:00:00	**10.35**	**18.92**	**83.84**	**89.20**	
23-Feb-16 22:00:00	23-Feb-16 23:00:00		0.00	0.00	0.00	7.72	2.1	329.7		0.00	0.00	0.00	2.54		10.35	18.92	83.84	86.68	23-Feb-16 22:00:00	**10.35**	**18.92**	**83.84**	**89.22**	
23-Feb-16 23:00:00	24-Feb-16 00:00:00		0.00	0.00	0.00	7.79	2.1	329.7		0.00	0.00	0.00	2.57		10.35	18.92	83.84	86.68	23-Feb-16 23:00:00	**10.35**	**18.92**	**83.84**	**89.25**	
24-Feb-16 00:00:00	24-Feb-16 01:00:00		0.00	0.00	0.00	7.84	2.1	329.7		0.00	0.00	0.00	2.58		10.35	18.92	83.84	86.68	24-Feb-16 00:00:00	**10.35**	**18.92**	**83.84**	**89.26**	
24-Feb-16 01:00:00	24-Feb-16 02:00:00		0.00	0.00	0.00	7.71	2.1	329.7		0.00	0.00	0.00	2.54		10.35	18.92	83.84	86.68	24-Feb-16 01:00:00	**10.35**	**18.92**	**83.84**	**89.22**	
24-Feb-16 02:00:00	24-Feb-16 03:00:00		0.00	0.00	0.00	7.61	2.1	329.7		0.00	0.00	0.00	2.51		10.35	18.92	83.84	86.68	24-Feb-16 02:00:00	**10.35**	**18.92**	**83.84**	**89.19**	
24-Feb-16 03:00:00	24-Feb-16 04:00:00		0.00	0.00	0.00	7.51	2.1	329.7		0.00	0.00	0.00	2.48		10.35	18.92	83.84	86.68	24-Feb-16 03:00:00	**10.35**	**18.92**	**83.84**	**89.16**	
24-Feb-16 04:00:00	24-Feb-16 05:00:00		0.00	0.00	0.00	7.44	2.1	329.7		0.00	0.00	0.00	2.45		10.35	18.92	83.84	86.68	24-Feb-16 04:00:00	**10.35**	**18.92**	**83.84**	**89.13**	
24-Feb-16 05:00:00	24-Feb-16 06:00:00		0.00	0.00	0.00	7.35	2.1	329.7		0.00	0.00	0.00	2.42		10.35	18.92	83.84	86.68	24-Feb-16 05:00:00	**10.35**	**18.92**	**83.84**	**89.10**	
24-Feb-16 06:00:00	24-Feb-16 07:00:00		0.00	0.00	0.00	7.08	2.1	329.7		0.00	0.00	0.00	2.33		10.35	18.92	83.84	86.68	24-Feb-16 06:00:00	**10.35**	**18.92**	**83.84**	**89.01**	
24-Feb-16 07:00:00	24-Feb-16 08:00:00		0.00	0.00	0.00	6.80	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	24-Feb-16 07:00:00	**10.35**	**18.92**	**83.84**	**88.92**	
24-Feb-16 08:00:00	24-Feb-16 09:00:00		0.00	0.00	0.00	6.49	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	24-Feb-16 08:00:00	**10.35**	**18.92**	**83.84**	**88.82**	
24-Feb-16 09:00:00	24-Feb-16 10:00:00		0.00	0.00	0.00	6.16	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	24-Feb-16 09:00:00	**10.35**	**18.92**	**83.84**	**88.71**	
24-Feb-16 10:00:00	24-Feb-16 11:00:00		0.00	0.00	0.00	6.00	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	24-Feb-16 10:00:00	**10.35**	**18.92**	**83.84**	**88.66**	
24-Feb-16 11:00:00	24-Feb-16 12:00:00		0.00	0.00	0.00	5.85	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	24-Feb-16 11:00:00	**10.35**	**18.92**	**83.84**	**88.61**	
24-Feb-16 12:00:00	24-Feb-16 13:00:00		2.37	0.00	0.00	5.70	2.1	329.7		0.78	0.00	0.00	1.88		10.35	18.92	83.84	86.68	24-Feb-16 12:00:00	**11.13**	**18.92**	**83.84**	**88.56**	
24-Feb-16 13:00:00	24-Feb-16 14:00:00		1.28	0.00	0.00	5.75	2.1	329.7		0.42	0.00	0.00	1.90		10.35	18.92	83.84	86.68	24-Feb-16 13:00:00	**10.77**	**18.92**	**83.84**	**88.58**	
24-Feb-16 14:00:00	24-Feb-16 15:00:00		0.79	0.00	0.00	5.89	2.1	329.7		0.26	0.00	0.00	1.94		10.35	18.92	83.84	86.68	24-Feb-16 14:00:00	**10.61**	**18.92**	**83.84**	**88.62**	
24-Feb-16 15:00:00	24-Feb-16 16:00:00		0.30	0.00	0.00	6.03	2.1	329.7		0.10	0.00	0.00	1.99		10.35	18.92	83.84	86.68	24-Feb-16 15:00:00	**10.45**	**18.92**	**83.84**	**88.67**	
24-Feb-16 16:00:00	24-Feb-16 17:00:00		0.00	0.00	0.00	6.18	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	24-Feb-16 16:00:00	**10.35**	**18.92**	**83.84**	**88.72**	
24-Feb-16 17:00:00	24-Feb-16 18:00:00		0.00	0.00	0.00	6.46	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	24-Feb-16 17:00:00	**10.35**	**18.92**	**83.84**	**88.81**	
24-Feb-16 18:00:00	24-Feb-16 19:00:00		0.00	0.00	0.00	6.81	2.1	329.7		0.00	0.00	0.00	2.25		10.35	18.92	83.84	86.68	24-Feb-16 18:00:00	**10.35**	**18.92**	**83.84**	**88.93**	
24-Feb-16 19:00:00	24-Feb-16 20:00:00		0.00	0.00	0.00	7.16	2.1	329.7		0.00	0.00	0.00	2.36		10.35	18.92	83.84	86.68	24-Feb-16 19:00:00	**10.35**	**18.92**	**83.84**	**89.04**	
24-Feb-16 20:00:00	24-Feb-16 21:00:00		0.61	0.00	0.00	117.31	2.1	329.7		0.20	0.00	0.00	38.68		10.35	18.92	83.84	86.68	24-Feb-16 20:00:00	**10.55**	**18.92**	**83.84**	**125.36**	
24-Feb-16 21:00:00	24-Feb-16 22:00:00		0.00	0.00	0.00	7.62	2.1	329.7		0.00	0.00	0.00	2.51		10.35	18.92	83.84	86.68	24-Feb-16 21:00:00	**10.35**	**18.92**	**83.84**	**89.19**	
24-Feb-16 22:00:00	24-Feb-16 23:00:00		0.00	0.00	0.00	7.80	2.1	329.7		0.00	0.00	0.00	2.57		10.35	18.92	83.84	86.68	24-Feb-16 22:00:00	**10.35**	**18.92**	**83.84**	**89.25**	
24-Feb-16 23:00:00	25-Feb-16 00:00:00		0.00	0.00	0.00	7.99	2.1	329.7		0.00	0.00	0.00	2.64		10.35	18.92	83.84	86.68	24-Feb-16 23:00:00	**10.35**	**18.92**	**83.84**	**89.32**	
25-Feb-16 00:00:00	25-Feb-16 01:00:00		0.35	0.00	0.00	7.97	2.1	329.7		0.11	0.00	0.00	2.63		10.35	18.92	83.84	86.68	25-Feb-16 00:00:00	**10.46**	**18.92**	**83.84**	**89.31**	
25-Feb-16 01:00:00	25-Feb-16 02:00:00		0.71	0.00	0.00	8.00	2.1	329.7		0.24	0.00	0.00	2.64		10.35	18.92	83.84	86.68	25-Feb-16 01:00:00	**10.59**	**18.92**	**83.84**	**89.32**	
25-Feb-16 02:00:00	25-Feb-16 03:00:00		2.88	0.00	0.00	8.04	2.1	329.7		0.95	0.00	0.00	2.65		10.35	18.92	83.84	86.68	25-Feb-16 02:00:00	**11.30**	**18.92**	**83.84**	**89.33**	
25-Feb-16 03:00:00	25-Feb-16 04:00:00		1.91	0.00	0.00	8.08	2.1	329.7		0.63	0.00	0.00	2.66		10.35	18.92	83.84	86.68	25-Feb-16 03:00:00	**10.98**	**18.92**	**83.84**	**89.34**	
25-Feb-16 04:00:00	25-Feb-16 05:00:00		1.21	0.00	0.00	7.93	2.1	329.7		0.40	0.00	0.00	2.61		10.35	18.92	83.84	86.68	25-Feb-16 04:00:00	**10.75**	**18.92**	**83.84**	**89.29**	
25-Feb-16 05:00:00	25-Feb-16 06:00:00		0.50	0.00	0.00	7.92	2.1	329.7		0.16	0.00	0.00	2.61		10.35	18.92	83.84	86.68	25-Feb-16 05:00:00	**10.51**	**18.92**	**83.84**	**89.29**	
25-Feb-16 06:00:00	25-Feb-16 07:00:00		0.01	0.00	0.00	7.91	2.1	329.7		0.00	0.00	0.00	2.61		10.35	18.92	83.84	86.68	25-Feb-16 06:00:00	**10.35**	**18.92**	**83.84**	**89.29**	
25-Feb-16 07:00:00	25-Feb-16 08:00:00		0.00	0.00	0.00	7.91	2.1	329.7		0.00	0.00	0.00	2.61		10.35	18.92	83.84	86.68	25-Feb-16 07:00:00	**10.35**	**18.92**	**83.84**	**89.29**	
25-Feb-16 08:00:00	25-Feb-16 09:00:00		0.00	0.00	0.00	7.84	2.1	329.7		0.00	0.00	0.00	2.59		10.35	18.92	83.84	86.68	25-Feb-16 08:00:00	**10.35**	**18.92**	**83.84**	**89.27**	
25-Feb-16 09:00:00	25-Feb-16 10:00:00		0.00	0.00	0.00	7.70	2.1	329.7		0.00	0.00	0.00	2.54		10.35	18.92	83.84	86.68	25-Feb-16 09:00:00	**10.35**	**18.92**	**83.84**	**89.22**	
25-Feb-16 10:00:00	25-Feb-16 11:00:00		0.00	0.00	0.00	7.56	2.1	329.7		0.00	0.00	0.00	2.49		10.35	18.92	83.84	86.68	25-Feb-16 10:00:00	**10.35**	**18.92**	**83.84**	**89.17**	
25-Feb-16 11:00:00	25-Feb-16 12:00:00		0.00	0.00	0.00	7.42	2.1	329.7		0.00	0.00	0.00	2.45		10.35	18.92	83.84	86.68	25-Feb-16 11:00:00	**10.35**	**18.92**	**83.84**	**89.13**	
25-Feb-16 12:00:00	25-Feb-16 13:00:00		0.00	0.00	0.00	7.29	2.1	329.7		0.00	0.00	0.00	2.40		10.35	18.92	83.84	86.68	25-Feb-16 12:00:00	**10.35**	**18.92**	**83.84**	**89.08**	
25-Feb-16 13:00:00	25-Feb-16 14:00:00		0.00	0.00	0.00	7.30	2.1	329.7		0.00	0.00	0.00	2.41		10.35	18.92	83.84	86.68	25-Feb-16 13:00:00	**10.35**	**18.92**	**83.84**	**89.09**	
25-Feb-16 14:00:00	25-Feb-16 15:00:00		0.00	0.00	0.00	7.31	2.1	329.7		0.00	0.00	0.00	2.41		10.35	18.92	83.84	86.68	25-Feb-16 14:00:00	**10.35**	**18.92**	**83.84**	**89.09**	
25-Feb-16 15:00:00	25-Feb-16 16:00:00		0.00	0.00	0.00	7.33	2.1	329.7		0.00	0.00	0.00	2.42		10.35	18.92	83.84	86.68	25-Feb-16 15:00:00	**10.35**	**18.92**	**83.84**	**89.10**	
25-Feb-16 16:00:00	25-Feb-16 17:00:00		0.00	0.00	0.00	7.34	2.1	329.7		0.00	0.00	0.00	2.42		10.35	18.92	83.84	86.68	25-Feb-16 16:00:00	**10.35**	**18.92**	**83.84**	**89.10**	
25-Feb-16 17:00:00	25-Feb-16 18:00:00		0.00	0.00	0.00	7.34	2.1	329.7		0.00	0.00	0.00	2.42		10.35	18.92	83.84	86.68	25-Feb-16 17:00:00	**10.35**	**18.92**	**83.84**	**89.10**	
25-Feb-16 18:00:00	25-Feb-16 19:00:00		0.00	0.00	0.00	7.34	2.1	329.7		0.00	0.00	0.00	2.42		10.35	18.92	83.84	86.68	25-Feb-16 18:00:00	**10.35**	**18.92**	**83.84**	**89.10**	
25-Feb-16 19:00:00	25-Feb-16 20:00:00		0.00	0.00	0.00	7.34	2.1	329.7		0.00	0.00	0.00	2.42		10.35	18.92	83.84	86.68	25-Feb-16 19:00:00	**10.35**	**18.92**	**83.84**	**89.10**	
25-Feb-16 20:00:00	25-Feb-16 21:00:00		0.00	0.00	0.00	7.40	2.1	329.7		0.00	0.00	0.00	2.44		10.35	18.92	83.84	86.68	25-Feb-16 20:00:00	**10.35**	**18.92**	**83.84**	**89.12**	
25-Feb-16 21:00:00	25-Feb-16 22:00:00		0.00	0.00	0.00	7.54	2.1	329.7		0.00	0.00	0.00	2.49		10.35	18.92	83.84	86.68	25-Feb-16 21:00:00	**10.35**	**18.92**	**83.84**	**89.17**	
25-Feb-16 22:00:00	25-Feb-16 23:00:00		0.00	0.00	0.00	7.68	2.1	329.7		0.00	0.00	0.00	2.53		10.35	18.92	83.84	86.68	25-Feb-16 22:00:00	**10.35**	**18.92**	**83.84**	**89.21**	
25-Feb-16 23:00:00	26-Feb-16 00:00:00		0.00	0.00	0.00	7.82	2.1	329.7		0.00	0.00	0.00	2.58		10.35	18.92	83.84	86.68	25-Feb-16 23:00:00	**10.35**	**18.92**	**83.84**	**89.26**	
26-Feb-16 00:00:00	26-Feb-16 01:00:00		0.00	0.00	0.00	7.97	2.1	329.7		0.00	0.00	0.00	2.63		10.35	18.92	83.84	86.68	26-Feb-16 00:00:00	**10.35**	**18.92**	**83.84**	**89.31**	
26-Feb-16 01:00:00	26-Feb-16 02:00:00		0.00	0.00	0.00	8.11	2.1	329.7		0.00	0.00	0.00	2.68		10.35	18.92	83.84	86.68	26-Feb-16 01:00:00	**10.35**	**18.92**	**83.84**	**89.36**	
26-Feb-16 02:00:00	26-Feb-16 03:00:00		0.00	0.00	0.00	8.26	2.1	329.7		0.00	0.00	0.00	2.72		10.35	18.92	83.84	86.68	26-Feb-16 02:00:00	**10.35**	**18.92**	**83.84**	**89.40**	
26-Feb-16 03:00:00	26-Feb-16 04:00:00		0.00	0.00	0.00	8.41	2.1	329.7		0.00	0.00	0.00	2.77		10.35	18.92	83.84	86.68	26-Feb-16 03:00:00	**10.35**	**18.92**	**83.84**	**89.45**	
26-Feb-16 04:00:00	26-Feb-16 05:00:00		0.00	0.00	0.00	8.49	2.1	329.7		0.00	0.00	0.00	2.80		10.35	18.92	83.84	86.68	26-Feb-16 04:00:00	**10.35**	**18.92**	**83.84**	**89.48**	
26-Feb-16 05:00:00	26-Feb-16 06:00:00		0.00	0.00	0.00	8.48	2.1	329.7		0.00	0.00	0.00	2.80		10.35	18.92	83.84	86.68	26-Feb-16 05:00:00	**10.35**	**18.92**	**83.84**	**89.48**	
26-Feb-16 06:00:00	26-Feb-16 07:00:00		0.00	0.00	0.00	1,025.17	2.1	329.7		0.00	0.00	0.00	338.00		10.35	18.92	83.84	86.68	26-Feb-16 06:00:00	**10.35**	**18.92**	**83.84**	**424.68**	
26-Feb-16 07:00:00	26-Feb-16 08:00:00		0.00	0.00	0.00	1,351.79	2.1	329.7		0.00	0.00	0.00	445.68		10.35	18.92	83.84	86.68	26-Feb-16 07:00:00	**10.35**	**18.92**	**83.84**	**532.36**	
26-Feb-16 08:00:00	26-Feb-16 09:00:00		0.00	0.00	0.00	1,358.11	2.1	329.7		0.00	0.00	0.00	447.77		10.35	18.92	83.84	86.68	26-Feb-16 08:00:00	**10.35**	**18.92**	**83.84**	**534.45**	
26-Feb-16 09:00:00	26-Feb-16 10:00:00		0.00	0.00	0.00	1,355.16	2.1	329.7		0.00	0.00	0.00	446.80		10.35	18.92	83.84	86.68	26-Feb-16 09:00:00	**10.35**	**18.92**	**83.84**	**533.48**	
26-Feb-16 10:00:00	26-Feb-16 11:00:00		0.00	0.00	0.00	1,354.77	2.1	329.7		0.00	0.00	0.00	446.67		10.35	18.92	83.84	86.68	26-Feb-16 10:00:00	**10.35**	**18.92**	**83.84**	**533.35**	
26-Feb-16 11:00:00	26-Feb-16 12:00:00		0.00	0.00	0.00	1,355.89	2.1	329.7		0.00	0.00	0.00	447.04		10.35	18.92	83.84	86.68	26-Feb-16 11:00:00	**10.35**	**18.92**	**83.84**	**533.72**	
26-Feb-16 12:00:00	26-Feb-16 13:00:00		0.00	0.00	0.00	1,355.55	2.1	329.7		0.00	0.00	0.00	446.93		10.35	18.92	83.84	86.68	26-Feb-16 12:00:00	**10.35**	**18.92**	**83.84**	**533.61**	
26-Feb-16 13:00:00	26-Feb-16 14:00:00		0.00	0.00	0.00	1,353.41	2.1	329.7		0.00	0.00	0.00	446.22		10.35	18.92	83.84	86.68	26-Feb-16 13:00:00	**10.35**	**18.92**	**83.84**	**532.90**	
26-Feb-16 14:00:00	26-Feb-16 15:00:00		0.00	0.00	0.00	1,353.64	2.1	329.7		0.00	0.00	0.00	446.29		10.35	18.92	83.84	86.68	26-Feb-16 14:00:00	**10.35**	**18.92**	**83.84**	**532.97**	
26-Feb-16 15:00:00	26-Feb-16 16:00:00		0.00	0.00	0.00	1,351.64	2.1	329.7		0.00	0.00	0.00	445.64		10.35	18.92	83.84	86.68	26-Feb-16 15:00:00	**10.35**	**18.92**	**83.84**	**532.32**	
26-Feb-16 16:00:00	26-Feb-16 17:00:00		0.00	0.00	0.00	1,354.50	2.1	329.7		0.00	0.00	0.00	446.58		10.35	18.92	83.84	86.68	26-Feb-16 16:00:00	**10.35**	**18.92**	**83.84**	**533.26**	
26-Feb-16 17:00:00	26-Feb-16 18:00:00		0.00	0.00	0.00	1,354.13	2.1	329.7		0.00	0.00	0.00	446.46		10.35	18.92	83.84	86.68	26-Feb-16 17:00:00	**10.35**	**18.92**	**83.84**	**533.14**	
26-Feb-16 18:00:00	26-Feb-16 19:00:00		0.00	0.00	0.00	1,350.80	2.1	329.7		0.00	0.00	0.00	445.36		10.35	18.92	83.84	86.68	26-Feb-16 18:00:00	**10.35**	**18.92**	**83.84**	**532.04**	
26-Feb-16 19:00:00	26-Feb-16 20:00:00		0.00	0.00	0.00	1,350.73	2.1	329.7		0.00	0.00	0.00	445.34		10.35	18.92	83.84	86.68	26-Feb-16 19:00:00	**10.35**	**18.92**	**83.84**	**532.02**	
26-Feb-16 20:00:00	26-Feb-16 21:00:00		0.00	0.00	0.00	1,354.88	2.1	329.7		0.00	0.00	0.00	446.70		10.35	18.92	83.84	86.68	26-Feb-16 20:00:00	**10.35**	**18.92**	**83.84**	**533.38**	
26-Feb-16 21:00:00	26-Feb-16 22:00:00		0.00	0.00	0.00	1,353.50	2.1	329.7		0.00	0.00	0.00	446.25		10.35	18.92	83.84	86.68	26-Feb-16 21:00:00	**10.35**	**18.92**	**83.84**	**532.93**	
26-Feb-16 22:00:00	26-Feb-16 23:00:00		0.00	0.00	0.00	1,353.46	2.1	329.7		0.00	0.00	0.00	446.24		10.35	18.92	83.84	86.68	26-Feb-16 22:00:00	**10.35**	**18.92**	**83.84**	**532.92**	
26-Feb-16 23:00:00	27-Feb-16 00:00:00		0.00	0.00	0.00	1,356.58	2.1	329.7		0.00	0.00	0.00	447.26		10.35	18.92	83.84	86.68	26-Feb-16 23:00:00	**10.35**	**18.92**	**83.84**	**533.94**	
27-Feb-16 00:00:00	27-Feb-16 01:00:00		0.00	0.00	0.00	1,354.95	2.1	329.7		0.00	0.00	0.00	446.73		10.35	18.92	83.84	86.68	27-Feb-16 00:00:00	**10.35**	**18.92**	**83.84**	**533.41**	
27-Feb-16 01:00:00	27-Feb-16 02:00:00		0.00	0.00	0.00	1,354.06	2.1	329.7		0.00	0.00	0.00	446.43		10.35	18.92	83.84	86.68	27-Feb-16 01:00:00	**10.35**	**18.92**	**83.84**	**533.11**	
27-Feb-16 02:00:00	27-Feb-16 03:00:00		0.00	0.00	0.00	1,353.90	2.1	329.7		0.00	0.00	0.00	446.38		10.35	18.92	83.84	86.68	27-Feb-16 02:00:00	**10.35**	**18.92**	**83.84**	**533.06**	
27-Feb-16 03:00:00	27-Feb-16 04:00:00		1.54	0.00	0.00	1,353.38	2.1	329.7		0.51	0.00	0.00	446.21		10.35	18.92	83.84	86.68	27-Feb-16 03:00:00	**10.86**	**18.92**	**83.84**	**532.89**	
27-Feb-16 04:00:00	27-Feb-16 05:00:00		2.02	0.00	0.00	1,352.18	2.1	329.7		0.67	0.00	0.00	445.81		10.35	18.92	83.84	86.68	27-Feb-16 04:00:00	**11.02**	**18.92**	**83.84**	**532.49**	
27-Feb-16 05:00:00	27-Feb-16 06:00:00		1.38	0.00	0.00	1,354.38	2.1	329.7		0.45	0.00	0.00	446.54		10.35	18.92	83.84	86.68	27-Feb-16 05:00:00	**10.80**	**18.92**	**83.84**	**533.22**	
27-Feb-16 06:00:00	27-Feb-16 07:00:00		0.73	0.00	0.00	1,352.77	2.1	329.7		0.24	0.00	0.00	446.01		10.35	18.92	83.84	86.68	27-Feb-16 06:00:00	**10.59**	**18.92**	**83.84**	**532.69**	
27-Feb-16 07:00:00	27-Feb-16 08:00:00		0.13	0.00	0.00	1,352.84	2.1	329.7		0.04	0.00	0.00	446.03		10.35	18.92	83.84	86.68	27-Feb-16 07:00:00	**10.39**	**18.92**	**83.84**	**532.71**	
27-Feb-16 08:00:00	27-Feb-16 09:00:00		0.00	0.00	0.00	1,353.22	2.1	329.7		0.00	0.00	0.00	446.16		10.35	18.92	83.84	86.68	27-Feb-16 08:00:00	**10.35**	**18.92**	**83.84**	**532.84**	
27-Feb-16 09:00:00	27-Feb-16 10:00:00		0.00	0.00	0.00	1,351.53	2.1	329.7		0.00	0.00	0.00	445.60		10.35	18.92	83.84	86.68	27-Feb-16 09:00:00	**10.35**	**18.92**	**83.84**	**532.28**	
27-Feb-16 10:00:00	27-Feb-16 11:00:00		0.00	0.00	0.00	1,345.85	2.1	329.7		0.00	0.00	0.00	443.73		10.35	18.92	83.84	86.68	27-Feb-16 10:00:00	**10.35**	**18.92**	**83.84**	**530.41**	
27-Feb-16 11:00:00	27-Feb-16 12:00:00		0.00	0.00	0.00	1,346.20	2.1	329.7		0.00	0.00	0.00	443.84		10.35	18.92	83.84	86.68	27-Feb-16 11:00:00	**10.35**	**18.92**	**83.84**	**530.52**

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
29-Feb-16 14:00:00	29-Feb-16 15:00:00		770.36	0.00	0.00	6.14	2.1	329.7		253.99	0.00	0.00	2.02		10.35	18.92	83.84	86.68	29-Feb-16 14:00:00		264.34	18.92	83.84	88.70
29-Feb-16 15:00:00	29-Feb-16 16:00:00		765.01	0.00	0.00	6.16	2.1	329.7		252.22	0.00	0.00	2.03		10.35	18.92	83.84	86.68	29-Feb-16 15:00:00		262.57	18.92	83.84	88.71
29-Feb-16 16:00:00	29-Feb-16 17:00:00		771.82	0.00	0.00	6.12	2.1	329.7		254.47	0.00	0.00	2.02		10.35	18.92	83.84	86.68	29-Feb-16 16:00:00		264.82	18.92	83.84	88.70
29-Feb-16 17:00:00	29-Feb-16 18:00:00		771.80	0.00	0.00	6.08	2.1	329.7		254.46	0.00	0.00	2.01		10.35	18.92	83.84	86.68	29-Feb-16 17:00:00		264.81	18.92	83.84	88.69
29-Feb-16 18:00:00	29-Feb-16 19:00:00		771.48	0.00	0.00	6.10	2.1	329.7		254.36	0.00	0.00	2.01		10.35	18.92	83.84	86.68	29-Feb-16 18:00:00		264.71	18.92	83.84	88.69
29-Feb-16 19:00:00	29-Feb-16 20:00:00		647.32	0.00	0.00	6.11	2.1	329.7		213.42	0.00	0.00	2.01		10.35	18.92	83.84	86.68	29-Feb-16 19:00:00		223.77	18.92	83.84	88.69
29-Feb-16 20:00:00	29-Feb-16 21:00:00		545.15	0.00	0.00	6.07	2.1	329.7		179.74	0.00	0.00	2.00		10.35	18.92	83.84	86.68	29-Feb-16 20:00:00		190.09	18.92	83.84	88.68
29-Feb-16 21:00:00	29-Feb-16 22:00:00		544.87	0.00	0.00	6.24	2.1	329.7		179.64	0.00	0.00	2.06		10.35	18.92	83.84	86.68	29-Feb-16 21:00:00		189.99	18.92	83.84	88.74
29-Feb-16 22:00:00	29-Feb-16 23:00:00		553.27	0.00	0.00	6.50	2.1	329.7		182.41	0.00	0.00	2.14		10.35	18.92	83.84	86.68	29-Feb-16 22:00:00		192.76	18.92	83.84	88.82
29-Feb-16 23:00:00	01-Mar-16 00:00:00		545.33	0.00	0.00	6.77	2.1	329.7		179.80	0.00	0.00	2.23		10.35	18.92	83.84	86.68	29-Feb-16 23:00:00		190.15	18.92	83.84	88.91
01-Mar-16 00:00:00	01-Mar-16 01:00:00		544.07	0.00	0.00	7.08	2.1	329.7		179.38	0.00	0.00	2.34		10.35	18.92	83.84	86.68	01-Mar-16 00:00:00		189.73	18.92	83.84	89.02
01-Mar-16 01:00:00	01-Mar-16 02:00:00		543.15	0.00	0.00	7.35	2.1	329.7		179.08	0.00	0.00	2.42		10.35	18.92	83.84	86.68	01-Mar-16 01:00:00		189.43	18.92	83.84	89.10
01-Mar-16 02:00:00	01-Mar-16 03:00:00		547.63	0.00	0.00	7.55	2.1	329.7		180.55	0.00	0.00	2.49		10.35	18.92	83.84	86.68	01-Mar-16 02:00:00		190.90	18.92	83.84	89.17
01-Mar-16 03:00:00	01-Mar-16 04:00:00		542.23	0.00	0.00	7.75	2.1	329.7		178.77	0.00	0.00	2.56		10.35	18.92	83.84	86.68	01-Mar-16 03:00:00		189.12	18.92	83.84	89.24
01-Mar-16 04:00:00	01-Mar-16 05:00:00		539.75	0.00	0.00	7.92	2.1	329.7		177.96	0.00	0.00	2.61		10.35	18.92	83.84	86.68	01-Mar-16 04:00:00		188.31	18.92	83.84	89.29
01-Mar-16 05:00:00	01-Mar-16 06:00:00		523.03	0.00	0.00	7.93	2.1	329.7		172.44	0.00	0.00	2.61		10.35	18.92	83.84	86.68	01-Mar-16 05:00:00		182.79	18.92	83.84	89.29
01-Mar-16 06:00:00	01-Mar-16 07:00:00		485.20	0.00	0.00	7.92	2.1	329.7		159.97	0.00	0.00	2.61		10.35	18.92	83.84	86.68	01-Mar-16 06:00:00		170.32	18.92	83.84	89.29
01-Mar-16 07:00:00	01-Mar-16 08:00:00		450.11	0.00	0.00	7.91	2.1	329.7		148.40	0.00	0.00	2.61		10.35	18.92	83.84	86.68	01-Mar-16 07:00:00		158.75	18.92	83.84	89.29
01-Mar-16 08:00:00	01-Mar-16 09:00:00		103.47	0.00	0.00	7.86	2.1	329.7		34.11	0.00	0.00	2.59		10.35	18.92	83.84	86.68	01-Mar-16 08:00:00		44.46	18.92	83.84	89.27
01-Mar-16 09:00:00	01-Mar-16 10:00:00		1.21	0.00	0.00	7.44	2.1	329.7		0.40	0.00	0.00	2.45		10.35	18.92	83.84	86.68	01-Mar-16 09:00:00		10.75	18.92	83.84	89.13
01-Mar-16 10:00:00	01-Mar-16 11:00:00		1.65	0.00	0.00	6.94	2.1	329.7		0.54	0.00	0.00	2.29		10.35	18.92	83.84	86.68	01-Mar-16 10:00:00		10.89	18.92	83.84	88.97
01-Mar-16 11:00:00	01-Mar-16 12:00:00		0.00	0.00	0.00	6.43	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	01-Mar-16 11:00:00		10.35	18.92	83.84	88.80
01-Mar-16 12:00:00	01-Mar-16 13:00:00		0.00	0.00	0.00	6.05	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	01-Mar-16 12:00:00		10.35	18.92	83.84	88.67
01-Mar-16 13:00:00	01-Mar-16 14:00:00		0.00	0.00	0.00	6.01	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	01-Mar-16 13:00:00		10.37	18.92	83.84	88.66
01-Mar-16 14:00:00	01-Mar-16 15:00:00		0.00	0.00	0.00	5.96	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	01-Mar-16 14:00:00		10.35	18.92	83.84	88.64
01-Mar-16 15:00:00	01-Mar-16 16:00:00		0.00	0.00	0.00	5.90	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	01-Mar-16 15:00:00		10.35	18.92	83.84	88.63
01-Mar-16 16:00:00	01-Mar-16 17:00:00		0.00	0.00	0.00	5.79	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	01-Mar-16 16:00:00		10.35	18.92	83.84	88.59
01-Mar-16 17:00:00	01-Mar-16 18:00:00		0.00	0.00	0.00	5.83	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	01-Mar-16 17:00:00		10.35	18.92	83.84	88.60
01-Mar-16 18:00:00	01-Mar-16 19:00:00		0.00	0.00	0.00	5.98	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	01-Mar-16 18:00:00		10.35	18.92	83.84	88.65
01-Mar-16 19:00:00	01-Mar-16 20:00:00		0.00	0.00	0.00	6.14	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	01-Mar-16 19:00:00		10.35	18.92	83.84	88.70
01-Mar-16 20:00:00	01-Mar-16 21:00:00		0.00	0.00	0.00	6.25	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	01-Mar-16 20:00:00		10.35	18.92	83.84	88.74
01-Mar-16 21:00:00	01-Mar-16 22:00:00		0.00	0.00	0.00	6.37	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	01-Mar-16 21:00:00		10.35	18.92	83.84	88.78
01-Mar-16 22:00:00	01-Mar-16 23:00:00		0.00	0.00	0.00	6.53	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	01-Mar-16 22:00:00		10.35	18.92	83.84	88.83
01-Mar-16 23:00:00	02-Mar-16 00:00:00		0.00	0.00	0.00	6.69	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	01-Mar-16 23:00:00		10.35	18.92	83.84	88.89
02-Mar-16 00:00:00	02-Mar-16 01:00:00		0.00	0.00	0.00	6.87	2.1	329.7		0.00	0.00	0.00	2.27		10.35	18.92	83.84	86.68	02-Mar-16 00:00:00		10.35	18.92	83.84	88.95
02-Mar-16 01:00:00	02-Mar-16 02:00:00		0.00	0.00	0.00	7.02	2.1	329.7		0.00	0.00	0.00	2.31		10.35	18.92	83.84	86.68	02-Mar-16 01:00:00		10.35	18.92	83.84	88.99
02-Mar-16 02:00:00	02-Mar-16 03:00:00		0.00	0.00	0.00	7.13	2.1	329.7		0.00	0.00	0.00	2.35		10.35	18.92	83.84	86.68	02-Mar-16 02:00:00		10.35	18.92	83.84	89.03
02-Mar-16 03:00:00	02-Mar-16 04:00:00		0.00	0.00	0.00	7.23	2.1	329.7		0.00	0.00	0.00	2.38		10.35	18.92	83.84	86.68	02-Mar-16 03:00:00		10.35	18.92	83.84	89.06
02-Mar-16 04:00:00	02-Mar-16 05:00:00		0.00	0.00	0.00	7.34	2.1	329.7		0.00	0.00	0.00	2.42		10.35	18.92	83.84	86.68	02-Mar-16 04:00:00		10.35	18.92	83.84	89.10
02-Mar-16 05:00:00	02-Mar-16 06:00:00		0.00	0.00	0.00	7.43	2.1	329.7		0.00	0.00	0.00	2.45		10.35	18.92	83.84	86.68	02-Mar-16 05:00:00		10.35	18.92	83.84	89.13
02-Mar-16 06:00:00	02-Mar-16 07:00:00		0.00	0.00	0.00	7.52	2.1	329.7		0.00	0.00	0.00	2.48		10.35	18.92	83.84	86.68	02-Mar-16 06:00:00		10.35	18.92	83.84	89.16
02-Mar-16 07:00:00	02-Mar-16 08:00:00		0.00	0.00	0.00	7.60	2.1	329.7		0.00	0.00	0.00	2.51		10.35	18.92	83.84	86.68	02-Mar-16 07:00:00		10.35	18.92	83.84	89.19
02-Mar-16 08:00:00	02-Mar-16 09:00:00		0.10	0.00	0.00	7.70	2.1	329.7		0.03	0.00	0.00	2.54		10.35	18.92	83.84	86.68	02-Mar-16 08:00:00		10.38	18.92	83.84	89.22
02-Mar-16 09:00:00	02-Mar-16 10:00:00		0.00	0.00	0.00	7.56	2.1	329.7		0.00	0.00	0.00	2.49		10.35	18.92	83.84	86.68	02-Mar-16 09:00:00		10.35	18.92	83.84	89.17
02-Mar-16 10:00:00	02-Mar-16 11:00:00		0.00	0.00	0.00	7.33	2.1	329.7		0.00	0.00	0.00	2.42		10.35	18.92	83.84	86.68	02-Mar-16 10:00:00		10.35	18.92	83.84	89.10
02-Mar-16 11:00:00	02-Mar-16 12:00:00		0.00	0.00	0.00	7.09	2.1	329.7		0.00	0.00	0.00	2.34		10.35	18.92	83.84	86.68	02-Mar-16 11:00:00		10.35	18.92	83.84	89.02
02-Mar-16 12:00:00	02-Mar-16 13:00:00		0.00	0.00	0.00	6.85	2.1	329.7		0.00	0.00	0.00	2.26		10.35	18.92	83.84	86.68	02-Mar-16 12:00:00		10.35	18.92	83.84	88.94
02-Mar-16 13:00:00	02-Mar-16 14:00:00		0.00	0.00	0.00	6.78	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	02-Mar-16 13:00:00		10.35	18.92	83.84	88.91
02-Mar-16 14:00:00	02-Mar-16 15:00:00		0.00	0.00	0.00	6.78	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	02-Mar-16 14:00:00		10.35	18.92	83.84	88.91
02-Mar-16 15:00:00	02-Mar-16 16:00:00		0.00	0.00	0.00	6.78	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	02-Mar-16 15:00:00		10.35	18.92	83.84	88.91
02-Mar-16 16:00:00	02-Mar-16 17:00:00		0.00	0.00	0.00	6.80	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	02-Mar-16 16:00:00		10.35	18.92	83.84	88.92
02-Mar-16 17:00:00	02-Mar-16 18:00:00		0.00	0.00	0.00	7.04	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	02-Mar-16 17:00:00		10.35	18.92	83.84	89.00
02-Mar-16 18:00:00	02-Mar-16 19:00:00		0.00	0.00	0.00	7.32	2.1	329.7		0.00	0.00	0.00	2.41		10.35	18.92	83.84	86.68	02-Mar-16 18:00:00		10.35	18.92	83.84	89.09
02-Mar-16 19:00:00	02-Mar-16 20:00:00		0.00	0.00	0.00	7.60	2.1	329.7		0.00	0.00	0.00	2.51		10.35	18.92	83.84	86.68	02-Mar-16 19:00:00		10.35	18.92	83.84	89.19
02-Mar-16 20:00:00	02-Mar-16 21:00:00		0.00	0.00	0.00	7.84	2.1	329.7		0.00	0.00	0.00	2.59		10.35	18.92	83.84	86.68	02-Mar-16 20:00:00		10.35	18.92	83.84	89.27
02-Mar-16 21:00:00	02-Mar-16 22:00:00		0.00	0.00	0.00	7.98	2.1	329.7		0.00	0.00	0.00	2.63		10.35	18.92	83.84	86.68	02-Mar-16 21:00:00		10.35	18.92	83.84	89.31
02-Mar-16 22:00:00	02-Mar-16 23:00:00		0.00	0.00	0.00	8.14	2.1	329.7		0.00	0.00	0.00	2.68		10.35	18.92	83.84	86.68	02-Mar-16 22:00:00		10.35	18.92	83.84	89.36
02-Mar-16 23:00:00	03-Mar-16 00:00:00		0.00	0.00	0.00	8.30	2.1	329.7		0.00	0.00	0.00	2.74		10.35	18.92	83.84	86.68	02-Mar-16 23:00:00		10.35	18.92	83.84	89.42
03-Mar-16 00:00:00	03-Mar-16 01:00:00		0.00	0.00	0.00	8.43	2.1	329.7		0.00	0.00	0.00	2.78		10.35	18.92	83.84	86.68	03-Mar-16 00:00:00		10.35	18.92	83.84	89.46
03-Mar-16 01:00:00	03-Mar-16 02:00:00		0.00	0.00	0.00	8.48	2.1	329.7		0.00	0.00	0.00	2.80		10.35	18.92	83.84	86.68	03-Mar-16 01:00:00		10.35	18.92	83.84	89.48
03-Mar-16 02:00:00	03-Mar-16 03:00:00		0.00	0.00	0.00	8.53	2.1	329.7		0.00	0.00	0.00	2.81		10.35	18.92	83.84	86.68	03-Mar-16 02:00:00		10.35	18.92	83.84	89.49
03-Mar-16 03:00:00	03-Mar-16 04:00:00		0.00	0.00	0.00	8.58	2.1	329.7		0.00	0.00	0.00	2.83		10.35	18.92	83.84	86.68	03-Mar-16 03:00:00		10.35	18.92	83.84	89.51
03-Mar-16 04:00:00	03-Mar-16 05:00:00		0.00	0.00	0.00	8.67	2.1	329.7		0.00	0.00	0.00	2.86		10.35	18.92	83.84	86.68	03-Mar-16 04:00:00		10.35	18.92	83.84	89.54
03-Mar-16 05:00:00	03-Mar-16 06:00:00		0.00	0.00	0.00	8.74	2.1	329.7		0.00	0.00	0.00	2.88		10.35	18.92	83.84	86.68	03-Mar-16 05:00:00		10.35	18.92	83.84	89.56
03-Mar-16 06:00:00	03-Mar-16 07:00:00		0.00	0.00	0.00	8.73	2.1	329.7		0.00	0.00	0.00	2.88		10.35	18.92	83.84	86.68	03-Mar-16 06:00:00		10.35	18.92	83.84	89.56
03-Mar-16 07:00:00	03-Mar-16 08:00:00		0.00	0.00	0.00	8.71	2.1	329.7		0.00	0.00	0.00	2.87		10.35	18.92	83.84	86.68	03-Mar-16 07:00:00		10.35	18.92	83.84	89.55
03-Mar-16 08:00:00	03-Mar-16 09:00:00		0.00	0.00	0.00	8.73	2.1	329.7		0.00	0.00	0.00	2.88		10.35	18.92	83.84	86.68	03-Mar-16 08:00:00		10.35	18.92	83.84	89.56
03-Mar-16 09:00:00	03-Mar-16 10:00:00		0.00	0.00	0.00	8.57	2.1	329.7		0.00	0.00	0.00	2.83		10.35	18.92	83.84	86.68	03-Mar-16 09:00:00		10.35	18.92	83.84	89.51
03-Mar-16 10:00:00	03-Mar-16 11:00:00		0.00	0.00	0.00	8.30	2.1	329.7		0.00	0.00	0.00	2.74		10.35	18.92	83.84	86.68	03-Mar-16 10:00:00		10.35	18.92	83.84	89.42
03-Mar-16 11:00:00	03-Mar-16 12:00:00		0.00	0.00	0.00	8.03	2.1	329.7		0.00	0.00	0.00	2.65		10.35	18.92	83.84	86.68	03-Mar-16 11:00:00		10.35	18.92	83.84	89.33
03-Mar-16 12:00:00	03-Mar-16 13:00:00		0.00	0.00	0.00	7.81	2.1	329.7		0.00	0.00	0.00	2.57		10.35	18.92	83.84	86.68	03-Mar-16 12:00:00		10.35	18.92	83.84	89.25
03-Mar-16 13:00:00	03-Mar-16 14:00:00		0.00	0.00	0.00	7.71	2.1	329.7		0.00	0.00	0.00	2.54		10.35	18.92	83.84	86.68	03-Mar-16 13:00:00		10.35	18.92	83.84	89.22
03-Mar-16 14:00:00	03-Mar-16 15:00:00		0.00	0.00	0.00	7.59	2.1	329.7		0.00	0.00	0.00	2.50		10.35	18.92	83.84	86.68	03-Mar-16 14:00:00		10.35	18.92	83.84	89.18
03-Mar-16 15:00:00	03-Mar-16 16:00:00		0.00	0.00	0.00	7.47	2.1	329.7		0.00	0.00	0.00	2.46		10.35	18.92	83.84	86.68	03-Mar-16 15:00:00		10.35	18.92	83.84	89.14
03-Mar-16 16:00:00	03-Mar-16 17:00:00		0.00	0.00	0.00	7.38	2.1	329.7		0.00	0.00	0.00	2.43		10.35	18.92	83.84	86.68	03-Mar-16 16:00:00		10.35	18.92	83.84	89.11
03-Mar-16 17:00:00	03-Mar-16 18:00:00		0.00	0.00	0.00	7.57	2.1	329.7		0.00	0.00	0.00	2.49		10.35	18.92	83.84	86.68	03-Mar-16 17:00:00		10.35	18.92	83.84	89.17
03-Mar-16 18:00:00	03-Mar-16 19:00:00		0.00	0.00	0.00	8.14	2.1	329.7		0.00	0.00	0.00	2.69		10.35	18.92	83.84	86.68	03-Mar-16 18:00:00		10.35	18.92	83.84	89.37
03-Mar-16 19:00:00	03-Mar-16 20:00:00		0.00	0.00	0.00	7.84	2.1	329.7		0.00	0.00	0.00	2.58		10.35	18.92	83.84	86.68	03-Mar-16 19:00:00		10.35	18.92	83.84	89.26
03-Mar-16 20:00:00	03-Mar-16 21:00:00		0.00	0.00	0.00	7.86	2.1	329.7		0.00	0.00	0.00	2.59		10.35	18.92	83.84	86.68	03-Mar-16 20:00:00		10.35	18.92	83.84	89.27
03-Mar-16 21:00:00	03-Mar-16 22:00:00		0.00	0.00	0.00	7.89	2.1	329.7		0.00	0.00	0.00	2.60		10.35	18.92	83.84	86.68	03-Mar-16 21:00:00		10.35	18.92	83.84	89.28
03-Mar-16 22:00:00	03-Mar-16 23:00:00		0.00	0.00	0.00	37.45	2.1	329.7		0.00	0.00	0.00	12.35		10.35	18.92	83.84	86.68	03-Mar-16 22:00:00		10.35	18.92	83.84	99.03
03-Mar-16 23:00:00	04-Mar-16 00:00:00		0.00	0.00	0.00	7.91	2.1	329.7		0.00	0.00	0.00	2.61		10.35	18.92	83.84	86.68	03-Mar-16 23:00:00		10.35	18.92	83.84	89.29
04-Mar-16 00:00:00	04-Mar-16 01:00:00		0.00	0.00	0.00	7.91	2.1	329.7		0.00	0.00	0.00	2.61		10.35	18.92	83.84	86.68	04-Mar-16 00:00:00		10.35	18.92	83.84	89.29
04-Mar-16 01:00:00	04-Mar-16 02:00:00		0.00	0.00	0.00	7.91	2.1	329.7		0.00	0.00	0.00	2.61		10.35	18.92	83.84	86.68	04-Mar-16 01:00:00		10.35	18.92	83.84	89.29
04-Mar-16 02:00:00	04-Mar-16 03:00:00		0.00	0.00	0.00	7.91	2.1	329.7		0.00	0.00	0.00	2.61		10.35	18.92	83.84	86.68	04-Mar-16 02:00:00		10.35	18.92	83.84	89.29
04-Mar-16 03:00:00	04-Mar-16 04:00:00		0.00	0.00	0.00	7.94	2.1	329.7		0.00	0.00	0.00	2.62		10.35	18.92	83.84	86.68	04-Mar-16 03:00:00		10.35	18.92	83.84	89.30
04-Mar-16 04:00:00	04-Mar-16 05:00:00		0.00	0.00	0.00	7.95	2.1	329.7		0.00	0.00	0.00	2.62		10.35	18.92	83.84	86.68	04-Mar-16 04:00:00		10.35	18.92	83.84	89.30
04-Mar-16 05:00:00	04-Mar-16 06:00:00		0.00	0.00	0.00	7.97	2.1	329.7		0.00	0.00	0.00	2.63		10.35	18.92	83.84	86.68	04-Mar-16 05:00:00		10.35	18.92	83.84	89.31
04-Mar-16 06:00:00	04-Mar-16 07:00:00		0.00	0.00	0.00	7.97	2.1	329.7		0.00	0.00	0.00	2.63		10.35	18.92	83.84	86.68	04-Mar-16 06:00:00		10.35	18.92	83.84	89.31
04-Mar-16 07:00:00	04-Mar-16 08:00:00		0.00	0.00	0.00	7.82	2.1	329.7		0.00	0.00	0.00	2.58		10.35	18.92	83.84	86.68	04-Mar-16 07:00:00		10.35	18.92	83.84	89.26
04-Mar-16 08:00:00	04-Mar-16 09:00:00		0.00	0.00	0.00	7.62	2.1	329.7		0.00	0.00	0.00	2.51		10.35	18.92	83.84	86.68	04-Mar-16 08:00:00		10.35	18.92	83.84	89.19
04-Mar-16 09:00:00	04-Mar-16 10:00:00		0.00	0.00	0.00	7.41	2.1	329.7		0.00	0.00	0.00	2.44		10.35	18.92	83.84	86.68	04-Mar-16 09:00:00		10.35	18.92	83.84	89.12
04-Mar-16 10:00:00	04-Mar-16 11:00:00		0.00	0.00	0.00	7.20	2.1	329.7		0.00	0.00	0.00	2.37		10.35	18.92	83.84	86.68	04-Mar-16 10:00:00		10.35	18.92	83.84	89.05
04-Mar-16 11:00:00	04-Mar-16 12:00:00		0.00	0.00	0.00	6.

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
06-Mar-16 13:00:00	06-Mar-16 14:00:00		0.00	0.00	0.00	6.70	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	06-Mar-16 13:00:00		10.35	18.92	83.84	88.89
06-Mar-16 14:00:00	06-Mar-16 15:00:00		0.00	0.00	0.00	6.53	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	06-Mar-16 14:00:00		10.35	18.92	83.84	88.83
06-Mar-16 15:00:00	06-Mar-16 16:00:00		0.00	0.00	0.00	7.83	2.1	329.7		0.00	0.00	0.00	2.58		10.35	18.92	83.84	86.68	06-Mar-16 15:00:00		10.35	18.92	83.84	89.26
06-Mar-16 16:00:00	06-Mar-16 17:00:00		0.00	0.00	0.00	6.51	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	06-Mar-16 16:00:00		10.35	18.92	83.84	88.82
06-Mar-16 17:00:00	06-Mar-16 18:00:00		0.00	0.00	0.00	6.60	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	06-Mar-16 17:00:00		10.35	18.92	83.84	88.86
06-Mar-16 18:00:00	06-Mar-16 19:00:00		0.00	0.00	0.00	6.69	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	06-Mar-16 18:00:00		10.35	18.92	83.84	88.89
06-Mar-16 19:00:00	06-Mar-16 20:00:00		0.00	0.00	0.00	6.80	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	06-Mar-16 19:00:00		10.35	18.92	83.84	88.92
06-Mar-16 20:00:00	06-Mar-16 21:00:00		0.00	0.00	0.00	7.06	2.1	329.7		0.00	0.00	0.00	2.33		10.35	18.92	83.84	86.68	06-Mar-16 20:00:00		10.35	18.92	83.84	89.01
06-Mar-16 21:00:00	06-Mar-16 22:00:00		0.00	0.00	0.00	7.34	2.1	329.7		0.00	0.00	0.00	2.42		10.35	18.92	83.84	86.68	06-Mar-16 21:00:00		10.35	18.92	83.84	89.10
06-Mar-16 22:00:00	06-Mar-16 23:00:00		0.00	0.00	0.00	7.62	2.1	329.7		0.00	0.00	0.00	2.51		10.35	18.92	83.84	86.68	06-Mar-16 22:00:00		10.35	18.92	83.84	89.19
06-Mar-16 23:00:00	07-Mar-16 00:00:00		0.00	0.00	0.00	7.81	2.1	329.7		0.00	0.00	0.00	2.58		10.35	18.92	83.84	86.68	06-Mar-16 23:00:00		10.35	18.92	83.84	89.26
07-Mar-16 00:00:00	07-Mar-16 01:00:00		0.00	0.00	0.00	7.87	2.1	329.7		0.00	0.00	0.00	2.60		10.35	18.92	83.84	86.68	07-Mar-16 00:00:00		10.35	18.92	83.84	89.28
07-Mar-16 01:00:00	07-Mar-16 02:00:00		0.00	0.00	0.00	7.98	2.1	329.7		0.00	0.00	0.00	2.63		10.35	18.92	83.84	86.68	07-Mar-16 01:00:00		10.35	18.92	83.84	89.31
07-Mar-16 02:00:00	07-Mar-16 03:00:00		0.00	0.00	0.00	8.09	2.1	329.7		0.00	0.00	0.00	2.67		10.35	18.92	83.84	86.68	07-Mar-16 02:00:00		10.35	18.92	83.84	89.35
07-Mar-16 03:00:00	07-Mar-16 04:00:00		0.00	0.00	0.00	8.18	2.1	329.7		0.00	0.00	0.00	2.70		10.35	18.92	83.84	86.68	07-Mar-16 03:00:00		10.35	18.92	83.84	89.38
07-Mar-16 04:00:00	07-Mar-16 05:00:00		0.00	0.00	0.00	8.21	2.1	329.7		0.00	0.00	0.00	2.71		10.35	18.92	83.84	86.68	07-Mar-16 04:00:00		10.35	18.92	83.84	89.39
07-Mar-16 05:00:00	07-Mar-16 06:00:00		0.00	0.00	0.00	8.23	2.1	329.7		0.00	0.00	0.00	2.71		10.35	18.92	83.84	86.68	07-Mar-16 05:00:00		10.35	18.92	83.84	89.39
07-Mar-16 06:00:00	07-Mar-16 07:00:00		0.00	0.00	0.00	8.26	2.1	329.7		0.00	0.00	0.00	2.72		10.35	18.92	83.84	86.68	07-Mar-16 06:00:00		10.35	18.92	83.84	89.40
07-Mar-16 07:00:00	07-Mar-16 08:00:00		0.00	0.00	0.00	8.25	2.1	329.7		0.00	0.00	0.00	2.72		10.35	18.92	83.84	86.68	07-Mar-16 07:00:00		10.35	18.92	83.84	89.40
07-Mar-16 08:00:00	07-Mar-16 09:00:00		0.00	0.00	0.00	7.82	2.1	329.7		0.00	0.00	0.00	2.58		10.35	18.92	83.84	86.68	07-Mar-16 08:00:00		10.35	18.92	83.84	89.26
07-Mar-16 09:00:00	07-Mar-16 10:00:00		0.00	0.00	0.00	7.29	2.1	329.7		0.00	0.00	0.00	2.40		10.35	18.92	83.84	86.68	07-Mar-16 09:00:00		10.35	18.92	83.84	89.08
07-Mar-16 10:00:00	07-Mar-16 11:00:00		0.00	0.00	0.00	6.76	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	07-Mar-16 10:00:00		10.35	18.92	83.84	88.91
07-Mar-16 11:00:00	07-Mar-16 12:00:00		0.00	0.00	0.00	6.27	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	07-Mar-16 11:00:00		10.35	18.92	83.84	88.75
07-Mar-16 12:00:00	07-Mar-16 13:00:00		0.00	0.00	0.00	6.01	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	07-Mar-16 12:00:00		10.35	18.92	83.84	88.66
07-Mar-16 13:00:00	07-Mar-16 14:00:00		0.00	0.00	0.00	6.13	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	07-Mar-16 13:00:00		10.35	18.92	83.84	88.70
07-Mar-16 14:00:00	07-Mar-16 15:00:00		0.00	0.00	0.00	5.73	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	07-Mar-16 14:00:00		10.35	18.92	83.84	88.57
07-Mar-16 15:00:00	07-Mar-16 16:00:00		0.00	0.00	0.00	5.71	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	07-Mar-16 15:00:00		10.35	18.92	83.84	88.56
07-Mar-16 16:00:00	07-Mar-16 17:00:00		0.00	0.00	0.00	5.69	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	07-Mar-16 16:00:00		10.35	18.92	83.84	88.56
07-Mar-16 17:00:00	07-Mar-16 18:00:00		0.00	0.00	0.00	5.67	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	07-Mar-16 17:00:00		10.35	18.92	83.84	88.55
07-Mar-16 18:00:00	07-Mar-16 19:00:00		0.00	0.00	0.00	5.82	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	07-Mar-16 18:00:00		10.35	18.92	83.84	88.60
07-Mar-16 19:00:00	07-Mar-16 20:00:00		0.00	0.00	0.00	6.14	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	07-Mar-16 19:00:00		10.35	18.92	83.84	88.70
07-Mar-16 20:00:00	07-Mar-16 21:00:00		0.00	0.00	0.00	6.46	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	07-Mar-16 20:00:00		10.35	18.92	83.84	88.81
07-Mar-16 21:00:00	07-Mar-16 22:00:00		0.00	0.00	0.00	6.77	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	07-Mar-16 21:00:00		10.35	18.92	83.84	88.91
07-Mar-16 22:00:00	07-Mar-16 23:00:00		0.00	0.00	0.00	6.88	2.1	329.7		0.00	0.00	0.00	2.27		10.35	18.92	83.84	86.68	07-Mar-16 22:00:00		10.35	18.92	83.84	88.95
07-Mar-16 23:00:00	08-Mar-16 00:00:00		0.00	0.00	0.00	7.04	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	07-Mar-16 23:00:00		10.35	18.92	83.84	89.00
08-Mar-16 00:00:00	08-Mar-16 01:00:00		0.00	0.00	0.00	6.84	2.1	329.7		0.00	0.00	0.00	2.26		10.35	18.92	83.84	86.68	08-Mar-16 00:00:00		10.35	18.92	83.84	88.94
08-Mar-16 01:00:00	08-Mar-16 02:00:00		0.00	0.00	0.00	6.86	2.1	329.7		0.00	0.00	0.00	2.26		10.35	18.92	83.84	86.68	08-Mar-16 01:00:00		10.35	18.92	83.84	88.94
08-Mar-16 02:00:00	08-Mar-16 03:00:00		0.00	0.00	0.00	6.87	2.1	329.7		0.00	0.00	0.00	2.27		10.35	18.92	83.84	86.68	08-Mar-16 02:00:00		10.35	18.92	83.84	88.95
08-Mar-16 03:00:00	08-Mar-16 04:00:00		0.00	0.00	0.00	6.89	2.1	329.7		0.00	0.00	0.00	2.27		10.35	18.92	83.84	86.68	08-Mar-16 03:00:00		10.35	18.92	83.84	88.95
08-Mar-16 04:00:00	08-Mar-16 05:00:00		0.00	0.00	0.00	6.94	2.1	329.7		0.00	0.00	0.00	2.29		10.35	18.92	83.84	86.68	08-Mar-16 04:00:00		10.35	18.92	83.84	88.97
08-Mar-16 05:00:00	08-Mar-16 06:00:00		0.00	0.00	0.00	7.18	2.1	329.7		0.00	0.00	0.00	2.37		10.35	18.92	83.84	86.68	08-Mar-16 05:00:00		10.35	18.92	83.84	89.05
08-Mar-16 06:00:00	08-Mar-16 07:00:00		0.00	0.00	0.00	7.00	2.1	329.7		0.00	0.00	0.00	2.31		10.35	18.92	83.84	86.68	08-Mar-16 06:00:00		10.35	18.92	83.84	88.99
08-Mar-16 07:00:00	08-Mar-16 08:00:00		0.00	0.00	0.00	6.98	2.1	329.7		0.00	0.00	0.00	2.30		10.35	18.92	83.84	86.68	08-Mar-16 07:00:00		10.35	18.92	83.84	88.98
08-Mar-16 08:00:00	08-Mar-16 09:00:00		0.00	0.00	0.00	14.12	2.1	329.7		0.00	0.00	0.00	4.66		10.35	18.92	83.84	86.68	08-Mar-16 08:00:00		10.35	18.92	83.84	91.34
08-Mar-16 09:00:00	08-Mar-16 10:00:00		0.00	0.00	0.00	6.60	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	08-Mar-16 09:00:00		10.35	18.92	83.84	88.86
08-Mar-16 10:00:00	08-Mar-16 11:00:00		0.00	0.00	0.00	6.31	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	08-Mar-16 10:00:00		10.35	18.92	83.84	88.76
08-Mar-16 11:00:00	08-Mar-16 12:00:00		0.00	0.00	0.00	6.02	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	08-Mar-16 11:00:00		10.35	18.92	83.84	88.67
08-Mar-16 12:00:00	08-Mar-16 13:00:00		0.00	0.00	0.00	6.80	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	08-Mar-16 12:00:00		10.35	18.92	83.84	88.92
08-Mar-16 13:00:00	08-Mar-16 14:00:00		0.00	0.00	0.00	5.56	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	08-Mar-16 13:00:00		10.35	18.92	83.84	88.51
08-Mar-16 14:00:00	08-Mar-16 15:00:00		0.00	0.00	0.00	5.43	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	08-Mar-16 14:00:00		10.35	18.92	83.84	88.47
08-Mar-16 15:00:00	08-Mar-16 16:00:00		0.00	0.00	0.00	5.29	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	08-Mar-16 15:00:00		10.35	18.92	83.84	88.42
08-Mar-16 16:00:00	08-Mar-16 17:00:00		0.00	0.00	0.00	5.16	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	08-Mar-16 16:00:00		10.35	18.92	83.84	88.38
08-Mar-16 17:00:00	08-Mar-16 18:00:00		0.00	0.00	0.00	5.23	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	08-Mar-16 17:00:00		10.35	18.92	83.84	88.40
08-Mar-16 18:00:00	08-Mar-16 19:00:00		0.00	0.00	0.00	5.42	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	08-Mar-16 18:00:00		10.35	18.92	83.84	88.47
08-Mar-16 19:00:00	08-Mar-16 20:00:00		0.00	0.00	0.00	5.61	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	08-Mar-16 19:00:00		10.35	18.92	83.84	88.53
08-Mar-16 20:00:00	08-Mar-16 21:00:00		0.00	0.00	0.00	10.85	2.1	329.7		0.00	0.00	0.00	3.58		10.35	18.92	83.84	86.68	08-Mar-16 20:00:00		10.35	18.92	83.84	90.26
08-Mar-16 21:00:00	08-Mar-16 22:00:00		0.00	0.00	0.00	6.32	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	08-Mar-16 21:00:00		10.35	18.92	83.84	88.76
08-Mar-16 22:00:00	08-Mar-16 23:00:00		0.00	0.00	0.00	7.34	2.1	329.7		0.00	0.00	0.00	2.42		10.35	18.92	83.84	86.68	08-Mar-16 22:00:00		10.35	18.92	83.84	89.10
08-Mar-16 23:00:00	09-Mar-16 00:00:00		0.00	0.00	0.00	6.83	2.1	329.7		0.00	0.00	0.00	2.25		10.35	18.92	83.84	86.68	08-Mar-16 23:00:00		10.35	18.92	83.84	88.93
09-Mar-16 00:00:00	09-Mar-16 01:00:00		0.00	0.00	0.00	116.73	2.1	329.7		0.00	0.00	0.00	38.49		10.35	18.92	83.84	86.68	09-Mar-16 00:00:00		10.35	18.92	83.84	125.17
09-Mar-16 01:00:00	09-Mar-16 02:00:00		0.00	0.00	0.00	6.88	2.1	329.7		0.00	0.00	0.00	2.27		10.35	18.92	83.84	86.68	09-Mar-16 01:00:00		10.35	18.92	83.84	88.95
09-Mar-16 02:00:00	09-Mar-16 03:00:00		0.00	0.00	0.00	6.85	2.1	329.7		0.00	0.00	0.00	2.26		10.35	18.92	83.84	86.68	09-Mar-16 02:00:00		10.35	18.92	83.84	88.94
09-Mar-16 03:00:00	09-Mar-16 04:00:00		0.00	0.00	0.00	6.82	2.1	329.7		0.00	0.00	0.00	2.25		10.35	18.92	83.84	86.68	09-Mar-16 03:00:00		10.35	18.92	83.84	88.93
09-Mar-16 04:00:00	09-Mar-16 05:00:00		0.00	0.00	0.00	6.79	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	09-Mar-16 04:00:00		10.35	18.92	83.84	88.92
09-Mar-16 05:00:00	09-Mar-16 06:00:00		0.00	0.00	0.00	6.86	2.1	329.7		0.00	0.00	0.00	2.26		10.35	18.92	83.84	86.68	09-Mar-16 05:00:00		10.35	18.92	83.84	88.94
09-Mar-16 06:00:00	09-Mar-16 07:00:00		0.00	0.00	0.00	7.31	2.1	329.7		0.00	0.00	0.00	2.41		10.35	18.92	83.84	86.68	09-Mar-16 06:00:00		10.35	18.92	83.84	89.09
09-Mar-16 07:00:00	09-Mar-16 08:00:00		0.00	0.00	0.00	6.79	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	09-Mar-16 07:00:00		10.35	18.92	83.84	88.92
09-Mar-16 08:00:00	09-Mar-16 09:00:00		0.00	0.00	0.00	6.57	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	09-Mar-16 08:00:00		10.35	18.92	83.84	88.84
09-Mar-16 09:00:00	09-Mar-16 10:00:00		0.00	0.00	0.00	6.34	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	09-Mar-16 09:00:00		10.35	18.92	83.84	88.77
09-Mar-16 10:00:00	09-Mar-16 11:00:00		0.00	0.00	0.00	152.33	2.1	329.7		0.00	0.00	0.00	50.22		10.35	18.92	83.84	86.68	09-Mar-16 10:00:00		10.35	18.92	83.84	136.90
09-Mar-16 11:00:00	09-Mar-16 12:00:00		0.00	0.00	0.00	129.00	2.1	329.7		0.00	0.00	0.00	42.53		10.35	18.92	83.84	86.68	09-Mar-16 11:00:00		10.35	18.92	83.84	129.21
09-Mar-16 12:00:00	09-Mar-16 13:00:00		0.27	0.00	0.00	5.69	2.1	329.7		0.09	0.00	0.00	1.88		10.35	18.92	83.84	86.68	09-Mar-16 12:00:00		10.44	18.92	83.84	88.56
09-Mar-16 13:00:00	09-Mar-16 14:00:00		0.00	0.00	0.00	5.67	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	09-Mar-16 13:00:00		10.35	18.92	83.84	88.55
09-Mar-16 14:00:00	09-Mar-16 15:00:00		0.00	0.00	0.00	5.65	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	09-Mar-16 14:00:00		10.35	18.92	83.84	88.54
09-Mar-16 15:00:00	09-Mar-16 16:00:00		1.02	0.00	0.00	5.63	2.1	329.7		0.34	0.00	0.00	1.86		10.35	18.92	83.84	86.68	09-Mar-16 15:00:00		10.69	18.92	83.84	88.54
09-Mar-16 16:00:00	09-Mar-16 17:00:00		0.00	0.00	0.00	5.73	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	09-Mar-16 16:00:00		10.35	18.92	83.84	88.57
09-Mar-16 17:00:00	09-Mar-16 18:00:00		0.00	0.00	0.00	5.88	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	09-Mar-16 17:00:00		10.35	18.92	83.84	88.62
09-Mar-16 18:00:00	09-Mar-16 19:00:00		0.00	0.00	0.00	6.02	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	09-Mar-16 18:00:00		10.35	18.92	83.84	88.67
09-Mar-16 19:00:00	09-Mar-16 20:00:00		0.00	0.00	0.00	6.17	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	09-Mar-16 19:00:00		10.35	18.92	83.84	88.71
09-Mar-16 20:00:00	09-Mar-16 21:00:00		0.00	0.00	0.00	6.38	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	09-Mar-16 20:00:00		10.35	18.92	83.84	88.78
09-Mar-16 21:00:00	09-Mar-16 22:00:00		0.00	0.00	0.00	6.81	2.1	329.7		0.00	0.00	0.00	2.25		10.35	18.92	83.84	86.68	09-Mar-16 21:00:00		10.35	18.92	83.84	88.93
09-Mar-16 22:00:00	09-Mar-16 23:00:00		0.00	0.00	0.00	6.71	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	09-Mar-16 22:00:00		10.35	18.92	83.84	88.89
09-Mar-16 23:00:00	10-Mar-16 00:00:00		0.00	0.00	0.00	6.69	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	09-Mar-16 23:00:00		10.35	18.92	83.84	88.89
10-Mar-16 00:00:00	10-Mar-16 01:00:00		0.00	0.00	0.00	19.17	2.1	329.7		0.00	0.00	0.00	6.32		10.35	18.92	83.84	86.68	10-Mar-16 00:00:00		10.35	18.92	83.84	93.00
10-Mar-16 01:00:00	10-Mar-16 02:00:00		0.00	0.00	0.00	6.73	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	10-Mar-16 01:00:00		10.35	18.92	83.84	88.90
10-Mar-16 02:00:00	10-Mar-16 03:00:00		0.00	0.00	0.00	6.75	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	10-Mar-16 02:00:00		10.35	18.92	83.84	88.90
10-Mar-16 03:00:00	10-Mar-16 04:00:00		0.00	0.00	0.00	6.76	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	10-Mar-16 03:00:00		10.35	18.92	83.84	88.91
10-Mar-16 04:00:00	10-Mar-16 05:00:00		1.01	0.00	0.00	6.86	2.1	329.7		0.33	0.00	0.00	2.26		10.35	18.92	83.84	86.68	10-Mar-16 04:00:00		10.68	18.92	83.84	88.94
10-Mar-16 05:00:00	10-Mar-16 06:00:00		1.07	0.00	0.00	6.99	2.1	329.7		0.35	0.00	0.00	2.30		10.35	18.92	83.84	86.68	10-Mar-16 05:00:00		10.70	18.92	83.84	88.98
10-Mar-16 06:00:00	10-Mar-16 07:00:00		0.70	0.00	0.00	7.10	2.1	329.7		0.23	0.00	0.00	2.34		10.35	18.92	83.84	86.68	10-Mar-16 06:00:00		10.58	18.92	83.84	89.02
10-Mar-16 07:00:00	10-Mar-16 08:00:00		0.33	0.00	0.00	7.21	2.1	329.7		0.11	0.00	0.00	2.38		10.35	18.92	83.84	86.68	10-Mar-16 07:00:00		10.46	18.92	83.84	89.06
10-Mar-16 08:00:00	10-Mar-16 09:00:00		0.03	0.00	0.00	7.28	2.1	329.7		0.01	0.00	0.00	2.40		10.35	18.92	83.84	86.68	10-Mar-16 08:00:00		10.36	18.92	83.84	89.08
10-Mar-16 09:00:00	10-Mar-16 10:00:00		0.00	0.00	0.00	7.16	2.1	329.7		0.00	0.00	0.00	2.36		10.35	18.92	83.84	86.68	10-Mar-16 09:00:00		10.35	18.92	83.84	89.04
10-Mar-16 10:00:00	10-Mar-16 11:00:00		0.00	0.00	0.00	7.02

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
12-Mar-16 12:00:00	12-Mar-16 13:00:00		2.56	0.00	0.00	5.76	2.1	329.7		0.84	0.00	0.00	1.90		10.35	18.92	83.84	86.68	12-Mar-16 12:00:00		11.19	18.92	83.84	88.58
12-Mar-16 13:00:00	12-Mar-16 14:00:00		0.20	0.00	0.00	29.14	2.1	329.7		0.07	0.00	0.00	9.61		10.35	18.92	83.84	86.68	12-Mar-16 13:00:00		10.42	18.92	83.84	96.29
12-Mar-16 14:00:00	12-Mar-16 15:00:00		1.26	0.00	0.00	5.66	2.1	329.7		0.41	0.00	0.00	1.86		10.35	18.92	83.84	86.68	12-Mar-16 14:00:00		10.76	18.92	83.84	88.54
12-Mar-16 15:00:00	12-Mar-16 16:00:00		0.00	0.00	0.00	5.65	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	12-Mar-16 15:00:00		10.35	18.92	83.84	88.54
12-Mar-16 16:00:00	12-Mar-16 17:00:00		0.00	0.00	0.00	5.65	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	12-Mar-16 16:00:00		10.35	18.92	83.84	88.54
12-Mar-16 17:00:00	12-Mar-16 18:00:00		0.00	0.00	0.00	6.12	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	12-Mar-16 17:00:00		10.35	18.92	83.84	88.70
12-Mar-16 18:00:00	12-Mar-16 19:00:00		0.00	0.00	0.00	5.93	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	12-Mar-16 18:00:00		10.35	18.92	83.84	88.63
12-Mar-16 19:00:00	12-Mar-16 20:00:00		0.00	0.00	0.00	6.37	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	12-Mar-16 19:00:00		10.35	18.92	83.84	88.78
12-Mar-16 20:00:00	12-Mar-16 21:00:00		0.00	0.00	0.00	6.84	2.1	329.7		0.00	0.00	0.00	2.25		10.35	18.92	83.84	86.68	12-Mar-16 20:00:00		10.35	18.92	83.84	88.93
12-Mar-16 21:00:00	12-Mar-16 22:00:00		0.00	0.00	0.00	7.12	2.1	329.7		0.00	0.00	0.00	2.35		10.35	18.92	83.84	86.68	12-Mar-16 21:00:00		10.35	18.92	83.84	89.03
12-Mar-16 22:00:00	12-Mar-16 23:00:00		0.00	0.00	0.00	6.93	2.1	329.7		0.00	0.00	0.00	2.28		10.35	18.92	83.84	86.68	12-Mar-16 22:00:00		10.35	18.92	83.84	88.96
12-Mar-16 23:00:00	13-Mar-16 00:00:00		0.00	0.00	0.00	6.87	2.1	329.7		0.00	0.00	0.00	2.27		10.35	18.92	83.84	86.68	12-Mar-16 23:00:00		10.35	18.92	83.84	88.95
13-Mar-16 00:00:00	13-Mar-16 01:00:00		0.00	0.00	0.00	6.81	2.1	329.7		0.00	0.00	0.00	2.25		10.35	18.92	83.84	86.68	13-Mar-16 00:00:00		10.35	18.92	83.84	88.93
13-Mar-16 01:00:00	13-Mar-16 03:00:00		1.31	0.00	0.00	6.79	2.1	329.7		0.43	0.00	0.00	2.24		10.35	18.92	83.84	86.68	13-Mar-16 01:00:00		10.78	18.92	83.84	88.92
13-Mar-16 03:00:00	13-Mar-16 04:00:00		0.00	0.00	0.00	6.82	2.1	329.7		0.00	0.00	0.00	2.25		10.35	18.92	83.84	86.68	13-Mar-16 03:00:00		10.35	18.92	83.84	88.93
13-Mar-16 04:00:00	13-Mar-16 05:00:00		0.00	0.00	0.00	6.85	2.1	329.7		0.00	0.00	0.00	2.26		10.35	18.92	83.84	86.68	13-Mar-16 04:00:00		10.35	18.92	83.84	88.94
13-Mar-16 05:00:00	13-Mar-16 06:00:00		0.00	0.00	0.00	7.69	2.1	329.7		0.00	0.00	0.00	2.54		10.35	18.92	83.84	86.68	13-Mar-16 05:00:00		10.35	18.92	83.84	89.22
13-Mar-16 06:00:00	13-Mar-16 07:00:00		0.00	0.00	0.00	6.82	2.1	329.7		0.00	0.00	0.00	2.25		10.35	18.92	83.84	86.68	13-Mar-16 06:00:00		10.35	18.92	83.84	88.93
13-Mar-16 07:00:00	13-Mar-16 08:00:00		0.00	0.00	0.00	6.81	2.1	329.7		0.00	0.00	0.00	2.25		10.35	18.92	83.84	86.68	13-Mar-16 07:00:00		10.35	18.92	83.84	88.93
13-Mar-16 08:00:00	13-Mar-16 09:00:00		0.00	0.00	0.00	6.80	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	13-Mar-16 08:00:00		10.35	18.92	83.84	88.92
13-Mar-16 09:00:00	13-Mar-16 10:00:00		0.00	0.00	0.00	6.77	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	13-Mar-16 09:00:00		10.35	18.92	83.84	88.91
13-Mar-16 10:00:00	13-Mar-16 11:00:00		0.00	0.00	0.00	6.64	2.1	329.7		0.00	0.00	0.00	2.19		10.35	18.92	83.84	86.68	13-Mar-16 10:00:00		10.35	18.92	83.84	88.87
13-Mar-16 11:00:00	13-Mar-16 12:00:00		0.00	0.00	0.00	6.48	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	13-Mar-16 11:00:00		10.35	18.92	83.84	88.82
13-Mar-16 12:00:00	13-Mar-16 13:00:00		0.00	0.00	0.00	6.33	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	13-Mar-16 12:00:00		10.35	18.92	83.84	88.77
13-Mar-16 13:00:00	13-Mar-16 14:00:00		0.03	0.00	0.00	6.16	2.1	329.7		0.01	0.00	0.00	2.03		10.35	18.92	83.84	86.68	13-Mar-16 13:00:00		10.36	18.92	83.84	88.71
13-Mar-16 14:00:00	13-Mar-16 15:00:00		5.50	0.00	0.00	5.89	2.1	329.7		1.81	0.00	0.00	1.94		10.35	18.92	83.84	86.68	13-Mar-16 14:00:00		12.16	18.92	83.84	88.62
13-Mar-16 15:00:00	13-Mar-16 16:00:00		4.84	0.00	0.00	6.43	2.1	329.7		1.60	0.00	0.00	2.12		10.35	18.92	83.84	86.68	13-Mar-16 15:00:00		11.95	18.92	83.84	88.80
13-Mar-16 16:00:00	13-Mar-16 17:00:00		0.03	0.00	0.00	5.70	2.1	329.7		0.01	0.00	0.00	1.88		10.35	18.92	83.84	86.68	13-Mar-16 16:00:00		10.36	18.92	83.84	88.56
13-Mar-16 17:00:00	13-Mar-16 18:00:00		0.09	0.00	0.00	5.67	2.1	329.7		0.03	0.00	0.00	1.87		10.35	18.92	83.84	86.68	13-Mar-16 17:00:00		10.38	18.92	83.84	88.55
13-Mar-16 18:00:00	13-Mar-16 19:00:00		0.00	0.00	0.00	5.64	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	13-Mar-16 18:00:00		10.35	18.92	83.84	88.54
13-Mar-16 19:00:00	13-Mar-16 20:00:00		0.00	0.00	0.00	5.68	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	13-Mar-16 19:00:00		10.35	18.92	83.84	88.55
13-Mar-16 20:00:00	13-Mar-16 21:00:00		0.00	0.00	0.00	5.82	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	13-Mar-16 20:00:00		10.35	18.92	83.84	88.60
13-Mar-16 21:00:00	13-Mar-16 22:00:00		0.00	0.00	0.00	6.61	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	13-Mar-16 21:00:00		10.35	18.92	83.84	88.86
13-Mar-16 22:00:00	13-Mar-16 23:00:00		0.00	0.00	2.18	5.98	2.1	329.7		0.00	0.00	0.72	1.97		10.35	18.92	83.84	86.68	13-Mar-16 22:00:00		10.35	18.92	84.56	88.65
13-Mar-16 23:00:00	14-Mar-16 00:00:00		0.88	0.00	569.26	6.07	2.1	329.7		0.29	0.00	187.68	2.00		10.35	18.92	83.84	86.68	13-Mar-16 23:00:00		10.64	18.92	271.52	88.68
14-Mar-16 00:00:00	14-Mar-16 01:00:00		4.52	0.00	201.42	6.17	2.1	329.7		1.49	0.00	66.41	2.03		10.35	18.92	83.84	86.68	14-Mar-16 00:00:00		11.84	18.92	150.25	88.71
14-Mar-16 01:00:00	14-Mar-16 02:00:00		0.35	0.00	210.30	6.26	2.1	329.7		0.11	0.00	69.34	2.06		10.35	18.92	83.84	86.68	14-Mar-16 01:00:00		10.46	18.92	153.18	88.74
14-Mar-16 02:00:00	14-Mar-16 03:00:00		0.00	0.00	55.66	6.33	2.1	329.7		0.00	0.00	18.35	2.09		10.35	18.92	83.84	86.68	14-Mar-16 02:00:00		10.35	18.92	102.19	88.77
14-Mar-16 03:00:00	14-Mar-16 04:00:00		0.00	0.00	0.00	6.49	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	14-Mar-16 03:00:00		10.35	18.92	83.84	88.82
14-Mar-16 04:00:00	14-Mar-16 05:00:00		0.00	0.00	0.00	6.64	2.1	329.7		0.00	0.00	0.00	2.19		10.35	18.92	83.84	86.68	14-Mar-16 04:00:00		10.35	18.92	83.84	88.87
14-Mar-16 05:00:00	14-Mar-16 06:00:00		0.00	0.00	0.00	6.79	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	14-Mar-16 05:00:00		10.35	18.92	83.84	88.92
14-Mar-16 06:00:00	14-Mar-16 07:00:00		0.00	0.00	0.00	6.78	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	14-Mar-16 06:00:00		10.35	18.92	83.84	88.92
14-Mar-16 07:00:00	14-Mar-16 08:00:00		0.00	0.00	0.00	6.69	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	14-Mar-16 07:00:00		10.35	18.92	83.84	88.89
14-Mar-16 08:00:00	14-Mar-16 09:00:00		0.00	0.00	0.00	6.60	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	14-Mar-16 08:00:00		10.35	18.92	83.84	88.86
14-Mar-16 09:00:00	14-Mar-16 10:00:00		0.00	0.00	0.00	6.51	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	14-Mar-16 09:00:00		10.35	18.92	83.84	88.83
14-Mar-16 10:00:00	14-Mar-16 11:00:00		0.00	0.00	0.00	6.37	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	14-Mar-16 10:00:00		10.35	18.92	83.84	88.78
14-Mar-16 11:00:00	14-Mar-16 12:00:00		0.00	0.00	0.00	6.17	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	14-Mar-16 11:00:00		10.35	18.92	83.84	88.71
14-Mar-16 12:00:00	14-Mar-16 13:00:00		0.00	0.00	0.00	5.96	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	14-Mar-16 12:00:00		10.35	18.92	83.84	88.65
14-Mar-16 13:00:00	14-Mar-16 14:00:00		0.11	0.00	0.00	5.77	2.1	329.7		0.04	0.00	0.00	1.90		10.35	18.92	83.84	86.68	14-Mar-16 13:00:00		10.39	18.92	83.84	88.58
14-Mar-16 14:00:00	14-Mar-16 15:00:00		0.00	0.00	0.00	5.74	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	14-Mar-16 14:00:00		10.35	18.92	83.84	88.57
14-Mar-16 15:00:00	14-Mar-16 16:00:00		0.00	0.00	0.00	5.73	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	14-Mar-16 15:00:00		10.35	18.92	83.84	88.57
14-Mar-16 16:00:00	14-Mar-16 17:00:00		0.00	0.00	0.00	5.72	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	14-Mar-16 16:00:00		10.35	18.92	83.84	88.57
14-Mar-16 17:00:00	14-Mar-16 18:00:00		0.00	0.00	0.00	5.71	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	14-Mar-16 17:00:00		10.35	18.92	83.84	88.56
14-Mar-16 18:00:00	14-Mar-16 19:00:00		0.00	0.00	0.00	5.88	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	14-Mar-16 18:00:00		10.35	18.92	83.84	88.62
14-Mar-16 19:00:00	14-Mar-16 20:00:00		0.00	0.00	0.00	6.16	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	14-Mar-16 19:00:00		10.35	18.92	83.84	88.71
14-Mar-16 20:00:00	14-Mar-16 21:00:00		0.00	0.00	0.00	6.45	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	14-Mar-16 20:00:00		10.35	18.92	83.84	88.81
14-Mar-16 21:00:00	14-Mar-16 22:00:00		0.00	0.00	0.00	211.33	2.1	329.7		0.00	0.00	0.00	69.67		10.35	18.92	83.84	86.68	14-Mar-16 21:00:00		10.35	18.92	83.84	156.35
14-Mar-16 22:00:00	14-Mar-16 23:00:00		0.33	0.00	0.00	6.38	2.1	329.7		0.11	0.00	0.00	2.10		10.35	18.92	83.84	86.68	14-Mar-16 22:00:00		10.46	18.92	83.84	88.78
14-Mar-16 23:00:00	15-Mar-16 00:00:00		0.00	0.00	0.00	6.53	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	14-Mar-16 23:00:00		10.35	18.92	83.84	88.83
15-Mar-16 00:00:00	15-Mar-16 01:00:00		0.00	0.00	0.00	6.69	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	15-Mar-16 00:00:00		10.35	18.92	83.84	88.88
15-Mar-16 01:00:00	15-Mar-16 02:00:00		0.00	0.00	0.00	6.84	2.1	329.7		0.00	0.00	0.00	2.25		10.35	18.92	83.84	86.68	15-Mar-16 01:00:00		10.35	18.92	83.84	88.93
15-Mar-16 02:00:00	15-Mar-16 03:00:00		0.00	0.00	0.00	6.93	2.1	329.7		0.00	0.00	0.00	2.29		10.35	18.92	83.84	86.68	15-Mar-16 02:00:00		10.35	18.92	83.84	88.97
15-Mar-16 03:00:00	15-Mar-16 04:00:00		0.00	0.00	0.00	7.02	2.1	329.7		0.00	0.00	0.00	2.31		10.35	18.92	83.84	86.68	15-Mar-16 03:00:00		10.35	18.92	83.84	88.99
15-Mar-16 04:00:00	15-Mar-16 05:00:00		0.00	0.00	0.00	7.11	2.1	329.7		0.00	0.00	0.00	2.34		10.35	18.92	83.84	86.68	15-Mar-16 04:00:00		10.35	18.92	83.84	89.02
15-Mar-16 05:00:00	15-Mar-16 06:00:00		0.00	0.00	0.00	7.19	2.1	329.7		0.00	0.00	0.00	2.37		10.35	18.92	83.84	86.68	15-Mar-16 05:00:00		10.35	18.92	83.84	89.05
15-Mar-16 06:00:00	15-Mar-16 07:00:00		0.00	0.00	0.00	7.11	2.1	329.7		0.00	0.00	0.00	2.35		10.35	18.92	83.84	86.68	15-Mar-16 06:00:00		10.35	18.92	83.84	89.03
15-Mar-16 07:00:00	15-Mar-16 08:00:00		0.00	0.00	0.00	7.00	2.1	329.7		0.00	0.00	0.00	2.31		10.35	18.92	83.84	86.68	15-Mar-16 07:00:00		10.35	18.92	83.84	88.99
15-Mar-16 08:00:00	15-Mar-16 09:00:00		0.00	0.00	0.00	6.89	2.1	329.7		0.00	0.00	0.00	2.27		10.35	18.92	83.84	86.68	15-Mar-16 08:00:00		10.35	18.92	83.84	88.95
15-Mar-16 09:00:00	15-Mar-16 10:00:00		0.00	0.00	0.00	6.80	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	15-Mar-16 09:00:00		10.35	18.92	83.84	88.92
15-Mar-16 10:00:00	15-Mar-16 11:00:00		0.00	0.00	0.00	6.57	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	15-Mar-16 10:00:00		10.35	18.92	83.84	88.85
15-Mar-16 11:00:00	15-Mar-16 12:00:00		0.00	0.00	0.00	6.27	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	15-Mar-16 11:00:00		10.35	18.92	83.84	88.75
15-Mar-16 12:00:00	15-Mar-16 13:00:00		0.00	0.00	0.00	5.97	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	15-Mar-16 12:00:00		10.35	18.92	83.84	88.65
15-Mar-16 13:00:00	15-Mar-16 14:00:00		0.00	0.00	0.00	5.69	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	15-Mar-16 13:00:00		10.35	18.92	83.84	88.56
15-Mar-16 14:00:00	15-Mar-16 15:00:00		0.00	0.00	0.00	5.62	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	15-Mar-16 14:00:00		10.35	18.92	83.84	88.53
15-Mar-16 15:00:00	15-Mar-16 16:00:00		0.00	0.00	0.00	5.58	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	15-Mar-16 15:00:00		10.35	18.92	83.84	88.52
15-Mar-16 16:00:00	15-Mar-16 17:00:00		0.00	0.00	0.00	5.55	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	15-Mar-16 16:00:00		10.35	18.92	83.84	88.51
15-Mar-16 17:00:00	15-Mar-16 18:00:00		0.00	0.00	0.00	5.59	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	15-Mar-16 17:00:00		10.35	18.92	83.84	88.52
15-Mar-16 18:00:00	15-Mar-16 19:00:00		0.29	0.00	0.00	5.65	2.1	329.7		0.09	0.00	0.00	1.86		10.35	18.92	83.84	86.68	15-Mar-16 18:00:00		10.44	18.92	83.84	88.54
15-Mar-16 19:00:00	15-Mar-16 20:00:00		0.00	0.00	0.00	5.65	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	15-Mar-16 19:00:00		10.35	18.92	83.84	88.54
15-Mar-16 20:00:00	15-Mar-16 21:00:00		0.00	0.00	0.00	5.66	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	15-Mar-16 20:00:00		10.35	18.92	83.84	88.55
15-Mar-16 21:00:00	15-Mar-16 22:00:00		0.00	0.00	0.00	5.70	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	15-Mar-16 21:00:00		10.35	18.92	83.84	88.56
15-Mar-16 22:00:00	15-Mar-16 23:00:00		0.00	0.00	0.00	5.91	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	15-Mar-16 22:00:00		10.35	18.92	83.84	88.63
15-Mar-16 23:00:00	16-Mar-16 00:00:00		0.00	0.00	0.00	6.15	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	15-Mar-16 23:00:00		10.35	18.92	83.84	88.71
16-Mar-16 00:00:00	16-Mar-16 01:00:00		0.00	0.00	0.00	6.39	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	16-Mar-16 00:00:00		10.35	18.92	83.84	88.79
16-Mar-16 01:00:00	16-Mar-16 02:00:00		0.00	0.00	0.00	6.50	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	16-Mar-16 01:00:00		10.35	18.92	83.84	88.82
16-Mar-16 02:00:00	16-Mar-16 03:00:00		0.00	0.00	0.00	6.51	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	16-Mar-16 02:00:00		10.35	18.92	83.84	88.83
16-Mar-16 03:00:00	16-Mar-16 04:00:00		0.00	0.00	0.00	6.63	2.1	329.7		0.00	0.00	0.00	2.19		10.35	18.92	83.84	86.68	16-Mar-16 03:00:00		10.35	18.92	83.84	88.87
16-Mar-16 04:00:00	16-Mar-16 05:00:00		0.00	0.00	0.00	6.74	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	16-Mar-16 04:00:00		10.35	18.92	83.84	88.90
16-Mar-16 05:00:00	16-Mar-16 06:00:00		0.00	0.00	0.00	6.82	2.1	329.7		0.00	0.00	0.00	2.25		10.35	18.92	83.84	86.68	16-Mar-16 05:00:00		10.35	18.92	83.84	88.93
16-Mar-16 06:00:00	16-Mar-16 07:00:00		0.00	0.00	0.00	6.88	2.1	329.7		0.00	0.00	0.00	2.27		10.35	18.92	83.84	86.68	16-Mar-16 06:00:00		10.35	18.92	83.84	88.95
16-Mar-16 07:00:00	16-Mar-16 08:00:00		0.00	0.00	0.00	6.99	2.1	329.7		0.00	0.00	0.00	2.31		10.35	18.92	83.84	86.68	16-Mar-16 07:00:00		10.35	18.92	83.84	88.99
16-Mar-16 08:00:00	16-Mar-16 09:00:00		0.00	0.00	0.00	7.11	2.1	329.7		0.00	0.00	0.00	2.34		10.35	18.92	83.84	86.68	16-Mar-16 08:00:00		10.35	18.92	83.84	89.02
16-Mar-16 09:00:00	16-Mar-16 10:00:00		0.00	0.00	0.00	7.13	2.1	329.7		0.00	0.00	0.00	2.35		10.35	18.92	83.84	86.68	16-Mar-16 09:00:00		10.35	18.92	83.84	89.03
16-Mar-16 10:00:00	16-Mar-16 11:00:00		0.00	0.00	0.00	6.82

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
18-Mar-16 12:00:00	18-Mar-16 13:00:00		0.00	0.00	0.00	6.75	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	18-Mar-16 12:00:00		**10.35**	**18.92**	**83.84**	**88.91**
18-Mar-16 13:00:00	18-Mar-16 14:00:00		0.00	0.00	0.00	6.59	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	18-Mar-16 13:00:00		**10.35**	**18.92**	**83.84**	**88.85**
18-Mar-16 14:00:00	18-Mar-16 15:00:00		0.19	0.00	0.00	6.40	2.1	329.7		0.06	0.00	0.00	2.11		10.35	18.92	83.84	86.68	18-Mar-16 14:00:00		**10.41**	**18.92**	**83.84**	**88.79**
18-Mar-16 15:00:00	18-Mar-16 16:00:00		1.27	0.00	0.00	6.20	2.1	329.7		0.42	0.00	0.00	2.05		10.35	18.92	83.84	86.68	18-Mar-16 15:00:00		**10.77**	**18.92**	**83.84**	**88.73**
18-Mar-16 16:00:00	18-Mar-16 17:00:00		0.12	0.00	0.00	6.06	2.1	329.7		0.04	0.00	0.00	2.00		10.35	18.92	83.84	86.68	18-Mar-16 16:00:00		**10.39**	**18.92**	**83.84**	**88.68**
18-Mar-16 17:00:00	18-Mar-16 18:00:00		0.00	0.00	0.00	5.91	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	18-Mar-16 17:00:00		**10.35**	**18.92**	**83.84**	**88.63**
18-Mar-16 18:00:00	18-Mar-16 19:00:00		0.00	0.00	0.00	5.82	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	18-Mar-16 18:00:00		**10.35**	**18.92**	**83.84**	**88.60**
18-Mar-16 19:00:00	18-Mar-16 20:00:00		0.00	0.00	0.00	6.04	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	18-Mar-16 19:00:00		**10.35**	**18.92**	**83.84**	**88.67**
18-Mar-16 20:00:00	18-Mar-16 21:00:00		0.00	0.00	0.00	6.28	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	18-Mar-16 20:00:00		**10.35**	**18.92**	**83.84**	**88.75**
18-Mar-16 21:00:00	18-Mar-16 22:00:00		0.00	0.00	0.00	6.51	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	18-Mar-16 21:00:00		**10.35**	**18.92**	**83.84**	**88.83**
18-Mar-16 22:00:00	18-Mar-16 23:00:00		0.40	0.00	0.00	6.74	2.1	329.7		0.13	0.00	0.00	2.22		10.35	18.92	83.84	86.68	18-Mar-16 22:00:00		**10.48**	**18.92**	**83.84**	**88.90**
18-Mar-16 23:00:00	19-Mar-16 00:00:00		0.00	0.00	0.00	6.87	2.1	329.7		0.00	0.00	0.00	2.27		10.35	18.92	83.84	86.68	18-Mar-16 23:00:00		**10.35**	**18.92**	**83.84**	**88.95**
19-Mar-16 00:00:00	19-Mar-16 01:00:00		0.00	0.00	0.00	6.96	2.1	329.7		0.00	0.00	0.00	2.29		10.35	18.92	83.84	86.68	19-Mar-16 00:00:00		**10.35**	**18.92**	**83.84**	**88.97**
19-Mar-16 01:00:00	19-Mar-16 02:00:00		0.00	0.00	0.00	7.05	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	19-Mar-16 01:00:00		**10.35**	**18.92**	**83.84**	**89.00**
19-Mar-16 02:00:00	19-Mar-16 03:00:00		0.00	0.00	0.00	7.12	2.1	329.7		0.00	0.00	0.00	2.35		10.35	18.92	83.84	86.68	19-Mar-16 02:00:00		**10.35**	**18.92**	**83.84**	**89.03**
19-Mar-16 03:00:00	19-Mar-16 04:00:00		0.00	0.00	0.00	7.14	2.1	329.7		0.00	0.00	0.00	2.36		10.35	18.92	83.84	86.68	19-Mar-16 03:00:00		**10.35**	**18.92**	**83.84**	**89.04**
19-Mar-16 04:00:00	19-Mar-16 05:00:00		0.00	0.00	0.00	7.16	2.1	329.7		0.00	0.00	0.00	2.36		10.35	18.92	83.84	86.68	19-Mar-16 04:00:00		**10.35**	**18.92**	**83.84**	**89.04**
19-Mar-16 05:00:00	19-Mar-16 06:00:00		0.00	0.00	0.00	7.18	2.1	329.7		0.00	0.00	0.00	2.37		10.35	18.92	83.84	86.68	19-Mar-16 05:00:00		**10.35**	**18.92**	**83.84**	**89.05**
19-Mar-16 06:00:00	19-Mar-16 07:00:00		0.00	0.00	0.00	7.17	2.1	329.7		0.00	0.00	0.00	2.37		10.35	18.92	83.84	86.68	19-Mar-16 06:00:00		**10.35**	**18.92**	**83.84**	**89.05**
19-Mar-16 07:00:00	19-Mar-16 08:00:00		0.00	0.00	0.00	6.99	2.1	329.7		0.00	0.00	0.00	2.30		10.35	18.92	83.84	86.68	19-Mar-16 07:00:00		**10.35**	**18.92**	**83.84**	**88.98**
19-Mar-16 08:00:00	19-Mar-16 09:00:00		0.00	0.00	0.00	6.76	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	19-Mar-16 08:00:00		**10.35**	**18.92**	**83.84**	**88.91**
19-Mar-16 09:00:00	19-Mar-16 10:00:00		0.00	0.00	0.00	6.54	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	19-Mar-16 09:00:00		**10.35**	**18.92**	**83.84**	**88.84**
19-Mar-16 10:00:00	19-Mar-16 11:00:00		0.01	0.00	0.00	6.30	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	19-Mar-16 10:00:00		**10.35**	**18.92**	**83.84**	**88.76**
19-Mar-16 11:00:00	19-Mar-16 12:00:00		0.61	0.00	0.00	6.11	2.1	329.7		0.20	0.00	0.00	2.01		10.35	18.92	83.84	86.68	19-Mar-16 11:00:00		**10.55**	**18.92**	**83.84**	**88.69**
19-Mar-16 12:00:00	19-Mar-16 13:00:00		1.50	0.00	0.00	5.96	2.1	329.7		0.50	0.00	0.00	1.97		10.35	18.92	83.84	86.68	19-Mar-16 12:00:00		**10.85**	**18.92**	**83.84**	**88.65**
19-Mar-16 13:00:00	19-Mar-16 14:00:00		1.02	0.00	0.00	5.82	2.1	329.7		0.34	0.00	0.00	1.92		10.35	18.92	83.84	86.68	19-Mar-16 13:00:00		**10.69**	**18.92**	**83.84**	**88.60**
19-Mar-16 14:00:00	19-Mar-16 15:00:00		0.18	434.16	0.00	5.69	2.1	329.7		0.06	143.14	0.00	1.88		10.35	18.92	83.84	86.68	19-Mar-16 14:00:00		**10.41**	**162.06**	**83.84**	**88.56**
19-Mar-16 15:00:00	19-Mar-16 16:00:00		0.44	1,234.02	0.00	5.86	2.1	329.7		0.15	406.86	0.00	1.93		10.35	18.92	83.84	86.68	19-Mar-16 15:00:00		**10.50**	**425.78**	**83.84**	**88.61**
19-Mar-16 16:00:00	19-Mar-16 17:00:00		0.00	1,742.01	0.00	6.11	2.1	329.7		0.00	574.34	0.00	2.01		10.35	18.92	83.84	86.68	19-Mar-16 16:00:00		**10.35**	**593.26**	**83.84**	**88.69**
19-Mar-16 17:00:00	19-Mar-16 18:00:00		0.00	1,583.67	0.00	6.36	2.1	329.7		0.00	522.14	0.00	2.10		10.35	18.92	83.84	86.68	19-Mar-16 17:00:00		**10.35**	**541.06**	**83.84**	**88.78**
19-Mar-16 18:00:00	19-Mar-16 19:00:00		0.00	1,759.98	0.00	6.64	2.1	329.7		0.00	580.27	0.00	2.19		10.35	18.92	83.84	86.68	19-Mar-16 18:00:00		**10.35**	**599.19**	**83.84**	**88.87**
19-Mar-16 19:00:00	19-Mar-16 20:00:00		0.00	1,761.51	0.00	6.97	2.1	329.7		0.00	580.77	0.00	2.30		10.35	18.92	83.84	86.68	19-Mar-16 19:00:00		**10.35**	**599.69**	**83.84**	**88.98**
19-Mar-16 20:00:00	19-Mar-16 21:00:00		0.00	1,762.43	0.00	7.26	2.1	329.7		0.00	581.07	0.00	2.40		10.35	18.92	83.84	86.68	19-Mar-16 20:00:00		**10.35**	**599.99**	**83.84**	**89.08**
19-Mar-16 21:00:00	19-Mar-16 22:00:00		0.00	1,761.49	0.00	7.56	2.1	329.7		0.00	580.76	0.00	2.49		10.35	18.92	83.84	86.68	19-Mar-16 21:00:00		**10.35**	**599.68**	**83.84**	**89.17**
19-Mar-16 22:00:00	19-Mar-16 23:00:00		0.00	1,759.63	0.00	7.84	2.1	329.7		0.00	580.15	0.00	2.58		10.35	18.92	83.84	86.68	19-Mar-16 22:00:00		**10.35**	**599.07**	**83.84**	**89.26**
19-Mar-16 23:00:00	20-Mar-16 00:00:00		0.00	1,758.19	0.00	7.92	2.1	329.7		0.00	579.68	0.00	2.61		10.35	18.92	83.84	86.68	19-Mar-16 23:00:00		**10.35**	**598.60**	**83.84**	**89.29**
20-Mar-16 00:00:00	20-Mar-16 01:00:00		0.00	1,760.14	0.00	7.94	2.1	329.7		0.00	580.32	0.00	2.62		10.35	18.92	83.84	86.68	20-Mar-16 00:00:00		**10.35**	**599.24**	**83.84**	**89.30**
20-Mar-16 01:00:00	20-Mar-16 02:00:00		0.00	1,969.23	0.00	7.96	2.1	329.7		0.00	649.25	0.00	2.63		10.35	18.92	83.84	86.68	20-Mar-16 01:00:00		**10.35**	**668.17**	**83.84**	**89.31**
20-Mar-16 02:00:00	20-Mar-16 03:00:00		0.00	2,232.92	0.00	7.99	2.1	329.7		0.00	736.19	0.00	2.63		10.35	18.92	83.84	86.68	20-Mar-16 02:00:00		**10.35**	**755.11**	**83.84**	**89.31**
20-Mar-16 03:00:00	20-Mar-16 04:00:00		0.00	2,229.11	0.00	7.99	2.1	329.7		0.00	734.94	0.00	2.63		10.35	18.92	83.84	86.68	20-Mar-16 03:00:00		**10.35**	**753.86**	**83.84**	**89.31**
20-Mar-16 04:00:00	20-Mar-16 05:00:00		0.00	592.56	0.00	7.96	2.1	329.7		0.00	195.37	0.00	2.63		10.35	18.92	83.84	86.68	20-Mar-16 04:00:00		**10.35**	**214.29**	**83.84**	**89.31**
20-Mar-16 05:00:00	20-Mar-16 06:00:00		0.00	0.00	0.00	7.94	2.1	329.7		0.00	0.00	0.00	2.62		10.35	18.92	83.84	86.68	20-Mar-16 05:00:00		**10.35**	**18.92**	**83.84**	**89.30**
20-Mar-16 06:00:00	20-Mar-16 07:00:00		13.71	0.00	0.00	7.91	2.1	329.7		4.52	0.00	0.00	2.61		10.35	18.92	83.84	86.68	20-Mar-16 06:00:00		**14.87**	**18.92**	**83.84**	**89.29**
20-Mar-16 07:00:00	20-Mar-16 08:00:00		535.78	0.00	0.00	7.91	2.1	329.7		176.65	0.00	0.00	2.61		10.35	18.92	83.84	86.68	20-Mar-16 07:00:00		**187.00**	**18.92**	**83.84**	**89.29**
20-Mar-16 08:00:00	20-Mar-16 09:00:00		768.92	0.00	0.00	7.92	2.1	329.7		253.51	0.00	0.00	2.61		10.35	18.92	83.84	86.68	20-Mar-16 08:00:00		**263.86**	**18.92**	**83.84**	**89.29**
20-Mar-16 09:00:00	20-Mar-16 10:00:00		797.77	0.00	0.00	7.93	2.1	329.7		263.02	0.00	0.00	2.62		10.35	18.92	83.84	86.68	20-Mar-16 09:00:00		**273.37**	**18.92**	**83.84**	**89.30**
20-Mar-16 10:00:00	20-Mar-16 11:00:00		840.86	0.00	0.00	7.97	2.1	329.7		277.23	0.00	0.00	2.63		10.35	18.92	83.84	86.68	20-Mar-16 10:00:00		**287.58**	**18.92**	**83.84**	**89.31**
20-Mar-16 11:00:00	20-Mar-16 12:00:00		811.55	0.00	0.00	7.97	2.1	329.7		267.57	0.00	0.00	2.63		10.35	18.92	83.84	86.68	20-Mar-16 11:00:00		**277.92**	**18.92**	**83.84**	**89.31**
20-Mar-16 12:00:00	20-Mar-16 13:00:00		647.64	0.00	0.00	7.90	2.1	329.7		213.53	0.00	0.00	2.60		10.35	18.92	83.84	86.68	20-Mar-16 12:00:00		**223.88**	**18.92**	**83.84**	**89.28**
20-Mar-16 13:00:00	20-Mar-16 14:00:00		416.69	0.00	0.00	7.82	2.1	329.7		137.38	0.00	0.00	2.58		10.35	18.92	83.84	86.68	20-Mar-16 13:00:00		**147.73**	**18.92**	**83.84**	**89.26**
20-Mar-16 14:00:00	20-Mar-16 15:00:00		562.31	0.00	0.00	7.67	2.1	329.7		185.39	0.00	0.00	2.53		10.35	18.92	83.84	86.68	20-Mar-16 14:00:00		**195.74**	**18.92**	**83.84**	**89.21**
20-Mar-16 15:00:00	20-Mar-16 16:00:00		571.52	0.00	0.00	7.41	2.1	329.7		188.43	0.00	0.00	2.44		10.35	18.92	83.84	86.68	20-Mar-16 15:00:00		**198.78**	**18.92**	**83.84**	**89.12**
20-Mar-16 16:00:00	20-Mar-16 17:00:00		575.17	47.85	0.00	7.31	2.1	329.7		189.63	15.78	0.00	2.41		10.35	18.92	83.84	86.68	20-Mar-16 16:00:00		**199.98**	**34.70**	**83.84**	**89.09**
20-Mar-16 17:00:00	20-Mar-16 18:00:00		572.02	0.00	0.00	7.22	2.1	329.7		188.59	0.00	0.00	2.38		10.35	18.92	83.84	86.68	20-Mar-16 17:00:00		**198.94**	**18.92**	**83.84**	**89.06**
20-Mar-16 18:00:00	20-Mar-16 19:00:00		756.62	0.00	0.00	7.14	2.1	329.7		249.46	0.00	0.00	2.35		10.35	18.92	83.84	86.68	20-Mar-16 18:00:00		**259.81**	**18.92**	**83.84**	**89.03**
20-Mar-16 19:00:00	20-Mar-16 20:00:00		841.52	0.00	0.00	7.19	2.1	329.7		277.45	0.00	0.00	2.37		10.35	18.92	83.84	86.68	20-Mar-16 19:00:00		**287.80**	**18.92**	**83.84**	**89.05**
20-Mar-16 20:00:00	20-Mar-16 21:00:00		860.77	0.00	0.00	7.24	2.1	329.7		283.80	0.00	0.00	2.39		10.35	18.92	83.84	86.68	20-Mar-16 20:00:00		**294.15**	**18.92**	**83.84**	**89.07**
20-Mar-16 21:00:00	20-Mar-16 22:00:00		856.42	0.00	0.00	7.28	2.1	329.7		282.36	0.00	0.00	2.40		10.35	18.92	83.84	86.68	20-Mar-16 21:00:00		**292.71**	**18.92**	**83.84**	**89.08**
20-Mar-16 22:00:00	20-Mar-16 23:00:00		860.46	0.00	0.00	7.33	2.1	329.7		283.69	0.00	0.00	2.42		10.35	18.92	83.84	86.68	20-Mar-16 22:00:00		**294.04**	**18.92**	**83.84**	**89.10**
20-Mar-16 23:00:00	21-Mar-16 00:00:00		862.91	0.00	0.00	7.35	2.1	329.7		284.50	0.00	0.00	2.42		10.35	18.92	83.84	86.68	20-Mar-16 23:00:00		**294.85**	**18.92**	**83.84**	**89.10**
21-Mar-16 00:00:00	21-Mar-16 01:00:00		853.83	0.00	0.00	7.36	2.1	329.7		281.51	0.00	0.00	2.43		10.35	18.92	83.84	86.68	21-Mar-16 00:00:00		**291.86**	**18.92**	**83.84**	**89.11**
21-Mar-16 01:00:00	21-Mar-16 02:00:00		855.27	0.00	0.00	7.37	2.1	329.7		281.98	0.00	0.00	2.43		10.35	18.92	83.84	86.68	21-Mar-16 01:00:00		**292.33**	**18.92**	**83.84**	**89.11**
21-Mar-16 02:00:00	21-Mar-16 03:00:00		855.15	0.00	0.00	7.40	2.1	329.7		281.94	0.00	0.00	2.44		10.35	18.92	83.84	86.68	21-Mar-16 02:00:00		**292.29**	**18.92**	**83.84**	**89.12**
21-Mar-16 03:00:00	21-Mar-16 04:00:00		917.33	0.00	0.00	7.46	2.1	329.7		302.44	0.00	0.00	2.46		10.35	18.92	83.84	86.68	21-Mar-16 03:00:00		**312.79**	**18.92**	**83.84**	**89.14**
21-Mar-16 04:00:00	21-Mar-16 05:00:00		917.69	0.00	0.00	7.43	2.1	329.7		302.56	0.00	0.00	2.45		10.35	18.92	83.84	86.68	21-Mar-16 04:00:00		**312.91**	**18.92**	**83.84**	**89.13**
21-Mar-16 05:00:00	21-Mar-16 06:00:00		802.30	0.00	0.00	7.40	2.1	329.7		264.52	0.00	0.00	2.44		10.35	18.92	83.84	86.68	21-Mar-16 05:00:00		**274.87**	**18.92**	**83.84**	**89.12**
21-Mar-16 06:00:00	21-Mar-16 07:00:00		678.07	0.00	0.00	7.37	2.1	329.7		223.56	0.00	0.00	2.43		10.35	18.92	83.84	86.68	21-Mar-16 06:00:00		**233.91**	**18.92**	**83.84**	**89.11**
21-Mar-16 07:00:00	21-Mar-16 08:00:00		462.83	0.00	0.00	7.36	2.1	329.7		152.59	0.00	0.00	2.43		10.35	18.92	83.84	86.68	21-Mar-16 07:00:00		**162.94**	**18.92**	**83.84**	**89.11**
21-Mar-16 08:00:00	21-Mar-16 09:00:00		461.16	0.00	0.00	7.35	2.1	329.7		152.05	0.00	0.00	2.42		10.35	18.92	83.84	86.68	21-Mar-16 08:00:00		**162.40**	**18.92**	**83.84**	**89.10**
21-Mar-16 09:00:00	21-Mar-16 10:00:00		454.74	0.00	0.00	104.20	2.1	329.7		149.93	0.00	0.00	34.36		10.35	18.92	83.84	86.68	21-Mar-16 09:00:00		**160.28**	**18.92**	**83.84**	**121.04**
21-Mar-16 10:00:00	21-Mar-16 11:00:00		455.82	0.00	0.00	7.18	2.1	329.7		150.28	0.00	0.00	2.37		10.35	18.92	83.84	86.68	21-Mar-16 10:00:00		**160.63**	**18.92**	**83.84**	**89.05**
21-Mar-16 11:00:00	21-Mar-16 12:00:00		455.28	0.00	0.00	7.04	2.1	329.7		150.11	0.00	0.00	2.32		10.35	18.92	83.84	86.68	21-Mar-16 11:00:00		**160.46**	**18.92**	**83.84**	**89.00**
21-Mar-16 12:00:00	21-Mar-16 13:00:00		455.61	0.00	0.00	6.89	2.1	329.7		150.22	0.00	0.00	2.27		10.35	18.92	83.84	86.68	21-Mar-16 12:00:00		**160.57**	**18.92**	**83.84**	**88.95**
21-Mar-16 13:00:00	21-Mar-16 14:00:00		463.27	0.00	0.00	6.78	2.1	329.7		152.74	0.00	0.00	2.23		10.35	18.92	83.84	86.68	21-Mar-16 13:00:00		**163.09**	**18.92**	**83.84**	**88.91**
21-Mar-16 14:00:00	21-Mar-16 15:00:00		475.96	0.00	0.00	6.74	2.1	329.7		156.92	0.00	0.00	2.22		10.35	18.92	83.84	86.68	21-Mar-16 14:00:00		**167.27**	**18.92**	**83.84**	**88.90**
21-Mar-16 15:00:00	21-Mar-16 16:00:00		471.36	0.00	0.00	6.70	2.1	329.7		155.41	0.00	0.00	2.21		10.35	18.92	83.84	86.68	21-Mar-16 15:00:00		**165.76**	**18.92**	**83.84**	**88.89**
21-Mar-16 16:00:00	21-Mar-16 17:00:00		406.66	0.00	0.00	6.67	2.1	329.7		134.07	0.00	0.00	2.20		10.35	18.92	83.84	86.68	21-Mar-16 16:00:00		**144.42**	**18.92**	**83.84**	**88.88**
21-Mar-16 17:00:00	21-Mar-16 18:00:00		131.08	0.00	0.00	6.66	2.1	329.7		43.22	0.00	0.00	2.19		10.35	18.92	83.84	86.68	21-Mar-16 17:00:00		**53.57**	**18.92**	**83.84**	**88.87**
21-Mar-16 18:00:00	21-Mar-16 19:00:00		834.30	0.00	0.00	6.66	2.1	329.7		275.07	0.00	0.00	2.19		10.35	18.92	83.84	86.68	21-Mar-16 18:00:00		**285.42**	**18.92**	**83.84**	**88.87**
21-Mar-16 19:00:00	21-Mar-16 20:00:00		569.19	0.00	0.00	6.65	2.1	329.7		187.66	0.00	0.00	2.19		10.35	18.92	83.84	86.68	21-Mar-16 19:00:00		**198.01**	**18.92**	**83.84**	**88.87**
21-Mar-16 20:00:00	21-Mar-16 21:00:00		488.99	0.00	0.00	6.64	2.1	329.7		161.22	0.00	0.00	2.19		10.35	18.92	83.84	86.68	21-Mar-16 20:00:00		**171.57**	**18.92**	**83.84**	**88.87**
21-Mar-16 21:00:00	21-Mar-16 22:00:00		542.49	0.00	0.00	6.71	2.1	329.7		178.86	0.00	0.00	2.21		10.35	18.92	83.84	86.68	21-Mar-16 21:00:00		**189.21**	**18.92**	**83.84**	**88.89**
21-Mar-16 22:00:00	21-Mar-16 23:00:00		1,006.53	0.00	0.00	6.98	2.1	329.7		331.85	0.00	0.00	2.30		10.35	18.92	83.84	86.68	21-Mar-16 22:00:00		**342.20**	**18.92**	**83.84**	**88.98**
21-Mar-16 23:00:00	22-Mar-16 00:00:00		1,280.03	0.00	0.00	7.26	2.1	329.7		422.02	0.00	0.00	2.39		10.35	18.92	83.84	86.68	21-Mar-16 23:00:00		**432.37**	**18.92**	**83.84**	**89.07**
22-Mar-16 00:00:00	22-Mar-16 01:00:00		1,402.87	0.00	0.00	7.54	2.1	329.7		462.53	0.00	0.00	2.49		10.35	18.92	83.84	86.68	22-Mar-16 00:00:00		**472.88**	**18.92**	**83.84**	**89.17**
22-Mar-16 01:00:00	22-Mar-16 02:00:00		1,441.49	0.00	0.00	7.78	2.1	329.7		475.26	0.00	0.00	2.56		10.35	18.92	83.84	86.68	22-Mar-16 01:00:00		**485.61**	**18.92**	**83.84**	**89.24**
22-Mar-16 02:00:00	22-Mar-16 03:00:00		1,450.98	0.00	0.00	7.86	2.1	329.7		478.39	0.00	0.00	2.59		10.35	18.92	83.84	86.68	22-Mar-16 02:00:00		**488.74**	**18.92**	**83.84**	**89.27**
22-Mar-16 03:00:00	22-Mar-16 04:00:00		1,447.38	0.00	0.00	7.92	2.1	329.7		477.20	0.00	0.00	2.61		10.35	18.92	83.84	86.68	22-Mar-16 03:00:00		**487.55**	**18.92**	**83.84**	**89.29**
22-Mar-16 04:00:00	22-Mar-16 05:00:00		1,461.41	0.00	0.00	7.98	2.1	329.7		481.83	0.00	0.00	2.63		10.35	18.92	83.84	86.68	22-Mar-16 04:00:00		**492.18**	**18.92**	**83.84**	**89.31**
22-Mar-16 05:00:00	22-Mar-16 06:00:00		1,479.01	0.00	0.00	8.04	2.1	329.7		487.63	0.00	0.00	2.65		10.35	18.92	83.84	86.68	22-Mar-16 05:00:00		**497.98**	**18.92**	**83.84**	**89.33**
22-Mar-16 06:00:00	22-Mar-16 07:00:00		1,464.30	0.00	0.00	8.04	2.1	329.7		482.78	0.00	0.00	2.65		10.35	18.92	83.84	86.68	22-Mar-16 06:00:00		**493.13**	**18.92**	**83.84**	**89.33**
22-Mar-16 07:00:00	22-Mar-16 08:00:00		1,152.05	0.00	0.00	8.02	2.1	329.7		379.83	0.00	0.00	2.64		10.35	18.92	83.84	86.68	22-Mar-16 07:00:00		**390.18**	**18.92**	**83.84**	**89.32**
22-Mar-16 08:00:00	22-Mar-16 09:00:00		1,143.29	0.00	0.00	8.00	2.1	329.7		376.94	0.00	0.00	2.64		10.35	18.92	83.84	86.68	22-Mar-16 08:00:00		**387.29**	**18.92**	**83.84**	**89.32**
22-Mar-16

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
24-Mar-16 11:00:00	24-Mar-16 12:00:00		875.96	0.00	0.00	6.15	2.1	329.7		288.80	0.00	0.00	2.03		10.35	18.92	83.84	86.68	24-Mar-16 11:00:00		299.15	18.92	83.84	88.71
24-Mar-16 12:00:00	24-Mar-16 13:00:00		878.04	0.00	0.00	5.77	2.1	329.7		289.49	0.00	0.00	1.90		10.35	18.92	83.84	86.68	24-Mar-16 12:00:00		299.84	18.92	83.84	88.58
24-Mar-16 13:00:00	24-Mar-16 14:00:00		882.43	0.00	0.00	5.41	2.1	329.7		290.94	0.00	0.00	1.78		10.35	18.92	83.84	86.68	24-Mar-16 13:00:00		301.29	18.92	83.84	88.46
24-Mar-16 14:00:00	24-Mar-16 15:00:00		909.98	0.00	0.00	5.33	2.1	329.7		300.02	0.00	0.00	1.76		10.35	18.92	83.84	86.68	24-Mar-16 14:00:00		310.37	18.92	83.84	88.44
24-Mar-16 15:00:00	24-Mar-16 16:00:00		944.94	0.00	0.00	5.35	2.1	329.7		311.55	0.00	0.00	1.76		10.35	18.92	83.84	86.68	24-Mar-16 15:00:00		321.90	18.92	83.84	88.44
24-Mar-16 16:00:00	24-Mar-16 17:00:00		951.26	0.00	0.00	5.37	2.1	329.7		313.63	0.00	0.00	1.77		10.35	18.92	83.84	86.68	24-Mar-16 16:00:00		323.98	18.92	83.84	88.45
24-Mar-16 17:00:00	24-Mar-16 18:00:00		930.28	0.00	0.00	5.38	2.1	329.7		306.71	0.00	0.00	1.77		10.35	18.92	83.84	86.68	24-Mar-16 17:00:00		317.06	18.92	83.84	88.45
24-Mar-16 18:00:00	24-Mar-16 19:00:00		888.75	0.00	0.00	5.39	2.1	329.7		293.02	0.00	0.00	1.78		10.35	18.92	83.84	86.68	24-Mar-16 18:00:00		303.37	18.92	83.84	88.46
24-Mar-16 19:00:00	24-Mar-16 20:00:00		921.65	0.00	0.00	5.49	2.1	329.7		303.87	0.00	0.00	1.81		10.35	18.92	83.84	86.68	24-Mar-16 19:00:00		314.22	18.92	83.84	88.49
24-Mar-16 20:00:00	24-Mar-16 21:00:00		1,068.94	0.00	0.00	5.58	2.1	329.7		352.43	0.00	0.00	1.84		10.35	18.92	83.84	86.68	24-Mar-16 20:00:00		362.78	18.92	83.84	88.52
24-Mar-16 21:00:00	24-Mar-16 22:00:00		928.34	0.00	0.00	5.68	2.1	329.7		306.07	0.00	0.00	1.87		10.35	18.92	83.84	86.68	24-Mar-16 21:00:00		316.42	18.92	83.84	88.55
24-Mar-16 22:00:00	24-Mar-16 23:00:00		899.06	0.00	0.00	5.70	2.1	329.7		296.42	0.00	0.00	1.88		10.35	18.92	83.84	86.68	24-Mar-16 22:00:00		306.77	18.92	83.84	88.56
24-Mar-16 23:00:00	25-Mar-16 00:00:00		937.64	0.00	0.00	5.70	2.1	329.7		309.14	0.00	0.00	1.88		10.35	18.92	83.84	86.68	24-Mar-16 23:00:00		319.49	18.92	83.84	88.56
25-Mar-16 00:00:00	25-Mar-16 01:00:00		922.13	0.00	0.00	5.71	2.1	329.7		304.03	0.00	0.00	1.88		10.35	18.92	83.84	86.68	25-Mar-16 00:00:00		314.38	18.92	83.84	88.56
25-Mar-16 01:00:00	25-Mar-16 02:00:00		897.09	0.00	0.00	5.72	2.1	329.7		295.77	0.00	0.00	1.89		10.35	18.92	83.84	86.68	25-Mar-16 01:00:00		306.12	18.92	83.84	88.57
25-Mar-16 02:00:00	25-Mar-16 03:00:00		937.84	0.00	0.00	5.82	2.1	329.7		309.20	0.00	0.00	1.92		10.35	18.92	83.84	86.68	25-Mar-16 02:00:00		319.55	18.92	83.84	88.60
25-Mar-16 03:00:00	25-Mar-16 04:00:00		887.94	0.00	0.00	5.92	2.1	329.7		292.75	0.00	0.00	1.95		10.35	18.92	83.84	86.68	25-Mar-16 03:00:00		303.10	18.92	83.84	88.63
25-Mar-16 04:00:00	25-Mar-16 05:00:00		892.36	0.00	0.00	6.02	2.1	329.7		294.21	0.00	0.00	1.98		10.35	18.92	83.84	86.68	25-Mar-16 04:00:00		304.56	18.92	83.84	88.66
25-Mar-16 05:00:00	25-Mar-16 06:00:00		894.04	0.00	0.00	6.11	2.1	329.7		294.76	0.00	0.00	2.02		10.35	18.92	83.84	86.68	25-Mar-16 05:00:00		305.11	18.92	83.84	88.70
25-Mar-16 06:00:00	25-Mar-16 07:00:00		892.82	0.00	0.00	6.12	2.1	329.7		294.36	0.00	0.00	2.02		10.35	18.92	83.84	86.68	25-Mar-16 06:00:00		304.71	18.92	83.84	88.70
25-Mar-16 07:00:00	25-Mar-16 08:00:00		949.97	0.00	0.00	6.03	2.1	329.7		313.20	0.00	0.00	1.99		10.35	18.92	83.84	86.68	25-Mar-16 07:00:00		323.55	18.92	83.84	88.67
25-Mar-16 08:00:00	25-Mar-16 09:00:00		1,097.26	0.00	0.00	5.93	2.1	329.7		361.77	0.00	0.00	1.96		10.35	18.92	83.84	86.68	25-Mar-16 08:00:00		372.12	18.92	83.84	88.64
25-Mar-16 09:00:00	25-Mar-16 10:00:00		1,107.92	0.00	0.00	5.85	2.1	329.7		365.28	0.00	0.00	1.93		10.35	18.92	83.84	86.68	25-Mar-16 09:00:00		375.63	18.92	83.84	88.61
25-Mar-16 10:00:00	25-Mar-16 11:00:00		1,160.42	0.00	0.00	5.83	2.1	329.7		382.59	0.00	0.00	1.92		10.35	18.92	83.84	86.68	25-Mar-16 10:00:00		392.94	18.92	83.84	88.60
25-Mar-16 11:00:00	25-Mar-16 12:00:00		1,135.44	0.00	0.00	5.73	2.1	329.7		374.36	0.00	0.00	1.89		10.35	18.92	83.84	86.68	25-Mar-16 11:00:00		384.71	18.92	83.84	88.57
25-Mar-16 12:00:00	25-Mar-16 13:00:00		1,077.24	0.00	0.00	5.62	2.1	329.7		355.16	0.00	0.00	1.85		10.35	18.92	83.84	86.68	25-Mar-16 12:00:00		365.51	18.92	83.84	88.53
25-Mar-16 13:00:00	25-Mar-16 14:00:00		1,058.62	0.00	0.00	5.48	2.1	329.7		349.03	0.00	0.00	1.81		10.35	18.92	83.84	86.68	25-Mar-16 13:00:00		359.38	18.92	83.84	88.49
25-Mar-16 14:00:00	25-Mar-16 15:00:00		1,042.86	0.00	0.00	5.23	2.1	329.7		343.83	0.00	0.00	1.73		10.35	18.92	83.84	86.68	25-Mar-16 14:00:00		354.18	18.92	83.84	88.41
25-Mar-16 15:00:00	25-Mar-16 16:00:00		1,028.54	0.00	0.00	5.22	2.1	329.7		339.11	0.00	0.00	1.72		10.35	18.92	83.84	86.68	25-Mar-16 15:00:00		349.46	18.92	83.84	88.40
25-Mar-16 16:00:00	25-Mar-16 17:00:00		1,030.68	0.00	0.00	5.20	2.1	329.7		339.82	0.00	0.00	1.71		10.35	18.92	83.84	86.68	25-Mar-16 16:00:00		350.17	18.92	83.84	88.39
25-Mar-16 17:00:00	25-Mar-16 18:00:00		1,027.29	0.00	0.00	5.18	2.1	329.7		338.70	0.00	0.00	1.71		10.35	18.92	83.84	86.68	25-Mar-16 17:00:00		349.05	18.92	83.84	88.39
25-Mar-16 18:00:00	25-Mar-16 19:00:00		1,004.88	0.00	0.00	5.19	2.1	329.7		331.31	0.00	0.00	1.71		10.35	18.92	83.84	86.68	25-Mar-16 18:00:00		341.66	18.92	83.84	88.39
25-Mar-16 19:00:00	25-Mar-16 20:00:00		999.15	0.00	0.00	5.27	2.1	329.7		329.42	0.00	0.00	1.74		10.35	18.92	83.84	86.68	25-Mar-16 19:00:00		339.77	18.92	83.84	88.42
25-Mar-16 20:00:00	25-Mar-16 21:00:00		1,011.94	0.00	0.00	5.36	2.1	329.7		333.64	0.00	0.00	1.77		10.35	18.92	83.84	86.68	25-Mar-16 20:00:00		343.99	18.92	83.84	88.45
25-Mar-16 21:00:00	25-Mar-16 22:00:00		1,000.39	0.00	0.00	5.44	2.1	329.7		329.83	0.00	0.00	1.80		10.35	18.92	83.84	86.68	25-Mar-16 21:00:00		340.18	18.92	83.84	88.48
25-Mar-16 22:00:00	25-Mar-16 23:00:00		1,005.05	0.00	0.00	5.57	2.1	329.7		331.36	0.00	0.00	1.84		10.35	18.92	83.84	86.68	25-Mar-16 22:00:00		341.71	18.92	83.84	88.52
25-Mar-16 23:00:00	26-Mar-16 00:00:00		1,073.19	0.00	0.00	5.64	2.1	329.7		353.83	0.00	0.00	1.86		10.35	18.92	83.84	86.68	25-Mar-16 23:00:00		364.18	18.92	83.84	88.54
26-Mar-16 00:00:00	26-Mar-16 01:00:00		1,188.65	0.00	0.00	5.71	2.1	329.7		391.90	0.00	0.00	1.88		10.35	18.92	83.84	86.68	26-Mar-16 00:00:00		402.25	18.92	83.84	88.56
26-Mar-16 01:00:00	26-Mar-16 02:00:00		1,167.93	0.00	0.00	5.77	2.1	329.7		385.07	0.00	0.00	1.90		10.35	18.92	83.84	86.68	26-Mar-16 01:00:00		395.42	18.92	83.84	88.58
26-Mar-16 02:00:00	26-Mar-16 03:00:00		1,094.15	0.00	0.00	5.77	2.1	329.7		360.74	0.00	0.00	1.90		10.35	18.92	83.84	86.68	26-Mar-16 02:00:00		371.09	18.92	83.84	88.58
26-Mar-16 03:00:00	26-Mar-16 04:00:00		1,103.90	0.00	0.00	5.82	2.1	329.7		363.96	0.00	0.00	1.92		10.35	18.92	83.84	86.68	26-Mar-16 03:00:00		374.31	18.92	83.84	88.60
26-Mar-16 04:00:00	26-Mar-16 05:00:00		1,094.60	0.00	0.00	5.87	2.1	329.7		360.89	0.00	0.00	1.94		10.35	18.92	83.84	86.68	26-Mar-16 04:00:00		371.24	18.92	83.84	88.62
26-Mar-16 05:00:00	26-Mar-16 06:00:00		1,084.36	0.00	0.00	5.95	2.1	329.7		357.51	0.00	0.00	1.96		10.35	18.92	83.84	86.68	26-Mar-16 05:00:00		367.86	18.92	83.84	88.64
26-Mar-16 06:00:00	26-Mar-16 07:00:00		1,078.90	0.00	0.00	6.25	2.1	329.7		355.71	0.00	0.00	2.06		10.35	18.92	83.84	86.68	26-Mar-16 06:00:00		366.06	18.92	83.84	88.74
26-Mar-16 07:00:00	26-Mar-16 08:00:00		1,060.86	0.00	0.00	6.32	2.1	329.7		349.76	0.00	0.00	2.09		10.35	18.92	83.84	86.68	26-Mar-16 07:00:00		360.11	18.92	83.84	88.77
26-Mar-16 08:00:00	26-Mar-16 09:00:00		574.80	0.00	0.00	6.40	2.1	329.7		189.51	0.00	0.00	2.11		10.35	18.92	83.84	86.68	26-Mar-16 08:00:00		199.86	18.92	83.84	88.79
26-Mar-16 09:00:00	26-Mar-16 10:00:00		561.93	0.00	0.00	6.47	2.1	329.7		185.27	0.00	0.00	2.13		10.35	18.92	83.84	86.68	26-Mar-16 09:00:00		195.62	18.92	83.84	88.81
26-Mar-16 10:00:00	26-Mar-16 11:00:00		461.51	0.00	0.00	6.42	2.1	329.7		152.16	0.00	0.00	2.12		10.35	18.92	83.84	86.68	26-Mar-16 10:00:00		162.51	18.92	83.84	88.80
26-Mar-16 11:00:00	26-Mar-16 12:00:00		52.85	0.00	0.00	6.39	2.1	329.7		17.42	0.00	0.00	2.11		10.35	18.92	83.84	86.68	26-Mar-16 11:00:00		27.77	18.92	83.84	88.79
26-Mar-16 12:00:00	26-Mar-16 13:00:00		0.00	0.00	0.00	6.36	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	26-Mar-16 12:00:00		10.35	18.92	83.84	88.78
26-Mar-16 13:00:00	26-Mar-16 14:00:00		0.00	0.00	0.00	6.32	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	26-Mar-16 13:00:00		10.35	18.92	83.84	88.76
26-Mar-16 14:00:00	26-Mar-16 15:00:00		0.00	0.00	0.00	6.22	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	26-Mar-16 14:00:00		10.35	18.92	83.84	88.73
26-Mar-16 15:00:00	26-Mar-16 16:00:00		0.00	0.00	0.00	6.22	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	26-Mar-16 15:00:00		10.35	18.92	83.84	88.73
26-Mar-16 16:00:00	26-Mar-16 17:00:00		0.00	0.00	0.00	6.21	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	26-Mar-16 16:00:00		10.35	18.92	83.84	88.73
26-Mar-16 17:00:00	26-Mar-16 18:00:00		0.00	0.00	0.00	6.22	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	26-Mar-16 17:00:00		10.35	18.92	83.84	88.73
26-Mar-16 18:00:00	26-Mar-16 19:00:00		0.00	0.00	0.00	6.29	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	26-Mar-16 18:00:00		10.35	18.92	83.84	88.75
26-Mar-16 19:00:00	26-Mar-16 20:00:00		0.00	0.00	0.00	6.28	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	26-Mar-16 19:00:00		10.35	18.92	83.84	88.75
26-Mar-16 20:00:00	26-Mar-16 21:00:00		0.00	0.00	0.00	6.27	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	26-Mar-16 20:00:00		10.35	18.92	83.84	88.75
26-Mar-16 21:00:00	26-Mar-16 22:00:00		0.00	0.00	0.00	6.26	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	26-Mar-16 21:00:00		10.35	18.92	83.84	88.74
26-Mar-16 22:00:00	26-Mar-16 23:00:00		0.00	0.00	0.00	6.25	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	26-Mar-16 22:00:00		10.35	18.92	83.84	88.74
26-Mar-16 23:00:00	27-Mar-16 00:00:00		0.00	0.00	0.00	6.32	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	26-Mar-16 23:00:00		10.35	18.92	83.84	88.76
27-Mar-16 00:00:00	27-Mar-16 01:00:00		0.00	0.00	0.00	6.39	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	27-Mar-16 00:00:00		10.35	18.92	83.84	88.79
27-Mar-16 01:00:00	27-Mar-16 02:00:00		0.00	0.00	0.00	6.46	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	27-Mar-16 01:00:00		10.35	18.92	83.84	88.81
27-Mar-16 02:00:00	27-Mar-16 03:00:00		0.00	51.96	0.00	6.46	2.1	329.7		0.00	17.13	0.00	2.13		10.35	18.92	83.84	86.68	27-Mar-16 02:00:00		10.35	36.05	83.84	88.81
27-Mar-16 03:00:00	27-Mar-16 04:00:00		0.00	0.00	0.00	6.48	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	27-Mar-16 03:00:00		10.35	18.92	83.84	88.82
27-Mar-16 04:00:00	27-Mar-16 05:00:00		0.00	0.00	0.00	6.49	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	27-Mar-16 04:00:00		10.35	18.92	83.84	88.82
27-Mar-16 05:00:00	27-Mar-16 06:00:00		0.00	0.00	0.00	6.50	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	27-Mar-16 05:00:00		10.35	18.92	83.84	88.82
27-Mar-16 06:00:00	27-Mar-16 07:00:00		0.00	0.00	0.00	6.40	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	27-Mar-16 06:00:00		10.35	18.92	83.84	88.79
27-Mar-16 07:00:00	27-Mar-16 08:00:00		0.00	0.00	0.00	6.37	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	27-Mar-16 07:00:00		10.35	18.92	83.84	88.78
27-Mar-16 08:00:00	27-Mar-16 09:00:00		0.00	0.00	0.00	6.34	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	27-Mar-16 08:00:00		10.35	18.92	83.84	88.77
27-Mar-16 09:00:00	27-Mar-16 10:00:00		0.00	235.85	0.00	6.31	2.1	329.7		0.00	77.76	0.00	2.08		10.35	18.92	83.84	86.68	27-Mar-16 09:00:00		10.35	96.68	83.84	88.76
27-Mar-16 10:00:00	27-Mar-16 11:00:00		0.00	692.47	0.00	6.25	2.1	329.7		0.00	228.31	0.00	2.06		10.35	18.92	83.84	86.68	27-Mar-16 10:00:00		10.35	247.23	83.84	88.74
27-Mar-16 11:00:00	27-Mar-16 12:00:00		0.00	1,272.20	0.00	6.26	2.1	329.7		0.00	419.45	0.00	2.06		10.35	18.92	83.84	86.68	27-Mar-16 11:00:00		10.35	438.37	83.84	88.74
27-Mar-16 12:00:00	27-Mar-16 13:00:00		0.00	1,324.00	0.00	6.26	2.1	329.7		0.00	436.52	0.00	2.07		10.35	18.92	83.84	86.68	27-Mar-16 12:00:00		10.35	455.44	83.84	88.75
27-Mar-16 13:00:00	27-Mar-16 14:00:00		0.00	1,068.56	0.00	6.27	2.1	329.7		0.00	352.31	0.00	2.07		10.35	18.92	83.84	86.68	27-Mar-16 13:00:00		10.35	371.23	83.84	88.75
27-Mar-16 14:00:00	27-Mar-16 15:00:00		0.00	747.87	0.00	6.19	2.1	329.7		0.00	246.57	0.00	2.04		10.35	18.92	83.84	86.68	27-Mar-16 14:00:00		10.35	265.49	83.84	88.72
27-Mar-16 15:00:00	27-Mar-16 16:00:00		0.00	682.68	0.00	6.15	2.1	329.7		0.00	225.08	0.00	2.03		10.35	18.92	83.84	86.68	27-Mar-16 15:00:00		10.35	244.00	83.84	88.71
27-Mar-16 16:00:00	27-Mar-16 17:00:00		0.00	664.47	0.00	6.11	2.1	329.7		0.00	219.08	0.00	2.02		10.35	18.92	83.84	86.68	27-Mar-16 16:00:00		10.35	238.00	83.84	88.70
27-Mar-16 17:00:00	27-Mar-16 18:00:00		0.00	664.69	0.00	6.07	2.1	329.7		0.00	219.15	0.00	2.00		10.35	18.92	83.84	86.68	27-Mar-16 17:00:00		10.35	238.07	83.84	88.68
27-Mar-16 18:00:00	27-Mar-16 19:00:00		0.00	753.92	0.00	6.14	2.1	329.7		0.00	248.57	0.00	2.02		10.35	18.92	83.84	86.68	27-Mar-16 18:00:00		10.35	267.49	83.84	88.70
27-Mar-16 19:00:00	27-Mar-16 20:00:00		0.00	832.15	0.00	6.32	2.1	329.7		0.00	274.36	0.00	2.08		10.35	18.92	83.84	86.68	27-Mar-16 19:00:00		10.35	293.28	83.84	88.76
27-Mar-16 20:00:00	27-Mar-16 21:00:00		0.00	663.40	0.00	6.50	2.1	329.7		0.00	218.72	0.00	2.14		10.35	18.92	83.84	86.68	27-Mar-16 20:00:00		10.35	237.64	83.84	88.82
27-Mar-16 21:00:00	27-Mar-16 22:00:00		0.00	91.85	0.00	6.69	2.1	329.7		0.00	30.28	0.00	2.20		10.35	18.92	83.84	86.68	27-Mar-16 21:00:00		10.35	49.20	83.84	88.88
27-Mar-16 22:00:00	27-Mar-16 23:00:00		0.00	0.00	0.00	6.71	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	27-Mar-16 22:00:00		10.35	18.92	83.84	88.89
27-Mar-16 23:00:00	28-Mar-16 00:00:00		0.00	0.00	0.00	6.56	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	27-Mar-16 23:00:00		10.35	18.92	83.84	88.84
28-Mar-16 00:00:00	28-Mar-16 01:00:00		0.00	0.00	0.00	6.42	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	28-Mar-16 00:00:00		10.35	18.92	83.84	88.80
28-Mar-16 01:00:00	28-Mar-16 02:00:00		0.00	70.66	5.12	6.28	2.1	329.7		0.00	23.30	1.69	2.07		10.35	18.92	83.84	86.68	28-Mar-16 01:00:00		10.35	42.22	85.53	88.75
28-Mar-16 02:00:00	28-Mar-16 03:00:00		0.00	371.39	0.00	6.21	2.1	329.7		0.00	122.45	0.00	2.05		10.35	18.92	83.84	86.68	28-Mar-16 02:00:00		10.35	141.37	83.84	88.73
28-Mar-16 03:00:00	28-Mar-16 04:00:00		0.00	0.00	0.00	6.21	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	28-Mar-16 03:00:00		10.35	18.92	83.84	88.73
28-Mar-16 04:00:00	28-Mar-16 05:00:00		0.00	0.00	0.00	6.21	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	28-Mar-16 04:00:00		10.35	18.92	83.84	88.73
28-Mar-16 05:00:00	28-Mar-16 06:00:00		0.00	0.00	0.00	6.21	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	28-Mar-16 05:00:00		10.35	18.92	83.84	88.73
28-Mar-16 06:00:00	28-Mar-16 07:00:00		0.00	0.00	0.00	6.24	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	28-Mar-16 06:00:00		10.35	18.92	83.84	88.74
28-Mar-16 07:00:00	28-Mar-16 08:00:00		0.00	0.00	0.00	6.31	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	28-Mar-16 07:00:00		10.35	18.92	83.84	88.76

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
30-Mar-16 10:00:00	30-Mar-16 11:00:00		895.63	1,189.95	0.00	6.65	2.1	329.7		295.29	392.33	0.00	2.19		10.35	18.92	83.84	86.68	30-Mar-16 10:00:00		305.64	411.25	83.84	88.87
30-Mar-16 11:00:00	30-Mar-16 12:00:00		862.86	1,387.25	0.00	6.31	2.1	329.7		284.48	457.38	0.00	2.08		10.35	18.92	83.84	86.68	30-Mar-16 11:00:00		294.83	476.30	83.84	88.76
30-Mar-16 12:00:00	30-Mar-16 13:00:00		835.08	1,690.77	0.00	5.98	2.1	329.7		275.33	557.45	0.00	1.97		10.35	18.92	83.84	86.68	30-Mar-16 12:00:00		285.68	576.37	83.84	88.65
30-Mar-16 13:00:00	30-Mar-16 14:00:00		244.51	1,180.48	0.00	16.90	2.1	329.7		80.62	389.20	0.00	5.57		10.35	18.92	83.84	86.68	30-Mar-16 13:00:00		90.97	408.12	83.84	92.25
30-Mar-16 14:00:00	30-Mar-16 15:00:00		0.00	529.29	0.00	5.60	2.1	329.7		0.00	174.51	0.00	1.85		10.35	18.92	83.84	86.68	30-Mar-16 14:00:00		10.35	193.43	83.84	88.53
30-Mar-16 15:00:00	30-Mar-16 16:00:00		0.00	515.06	0.00	5.47	2.1	329.7		0.00	169.82	0.00	1.80		10.35	18.92	83.84	86.68	30-Mar-16 15:00:00		10.35	188.74	83.84	88.48
30-Mar-16 16:00:00	30-Mar-16 17:00:00		0.00	455.47	0.00	5.34	2.1	329.7		0.00	150.17	0.00	1.76		10.35	18.92	83.84	86.68	30-Mar-16 16:00:00		10.35	169.09	83.84	88.44
30-Mar-16 17:00:00	30-Mar-16 18:00:00		0.00	307.89	0.00	5.21	2.1	329.7		0.00	101.51	0.00	1.72		10.35	18.92	83.84	86.68	30-Mar-16 17:00:00		10.35	120.43	83.84	88.40
30-Mar-16 18:00:00	30-Mar-16 19:00:00		0.00	307.20	0.00	5.29	2.1	329.7		0.00	101.28	0.00	1.75		10.35	18.92	83.84	86.68	30-Mar-16 18:00:00		10.35	120.20	83.84	88.43
30-Mar-16 19:00:00	30-Mar-16 20:00:00		2.01	306.44	0.00	5.42	2.1	329.7		0.66	101.03	0.00	1.79		10.35	18.92	83.84	86.68	30-Mar-16 19:00:00		11.01	119.95	83.84	88.47
30-Mar-16 20:00:00	30-Mar-16 21:00:00		312.11	17.91	0.00	5.55	2.1	329.7		102.90	5.91	0.00	1.83		10.35	18.92	83.84	86.68	30-Mar-16 20:00:00		113.25	24.83	83.84	88.51
30-Mar-16 21:00:00	30-Mar-16 22:00:00		598.10	0.00	0.00	5.73	2.1	329.7		197.19	0.00	0.00	1.89		10.35	18.92	83.84	86.68	30-Mar-16 21:00:00		207.54	18.92	83.84	88.57
30-Mar-16 22:00:00	30-Mar-16 23:00:00		609.88	0.00	0.00	5.88	2.1	329.7		201.08	0.00	0.00	1.94		10.35	18.92	83.84	86.68	30-Mar-16 22:00:00		211.43	18.92	83.84	88.62
30-Mar-16 23:00:00	31-Mar-16 00:00:00		610.16	0.00	0.00	6.00	2.1	329.7		201.17	0.00	0.00	1.98		10.35	18.92	83.84	86.68	30-Mar-16 23:00:00		211.52	18.92	83.84	88.66
31-Mar-16 00:00:00	31-Mar-16 01:00:00		619.14	0.00	0.00	6.12	2.1	329.7		204.13	0.00	0.00	2.02		10.35	18.92	83.84	86.68	31-Mar-16 00:00:00		214.48	18.92	83.84	88.70
31-Mar-16 01:00:00	31-Mar-16 02:00:00		157.23	0.00	0.00	6.22	2.1	329.7		51.84	0.00	0.00	2.05		10.35	18.92	83.84	86.68	31-Mar-16 01:00:00		62.19	18.92	83.84	88.73
31-Mar-16 02:00:00	31-Mar-16 03:00:00		0.00	0.00	0.00	6.28	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	31-Mar-16 02:00:00		10.35	18.92	83.84	88.75
31-Mar-16 03:00:00	31-Mar-16 04:00:00		0.00	0.00	0.00	6.34	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	31-Mar-16 03:00:00		10.35	18.92	83.84	88.77
31-Mar-16 04:00:00	31-Mar-16 05:00:00		0.00	0.00	0.00	6.40	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	31-Mar-16 04:00:00		10.35	18.92	83.84	88.79
31-Mar-16 05:00:00	31-Mar-16 06:00:00		0.00	0.00	0.00	6.37	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	31-Mar-16 05:00:00		10.35	18.92	83.84	88.78
31-Mar-16 06:00:00	31-Mar-16 07:00:00		0.00	0.00	0.00	6.29	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	31-Mar-16 06:00:00		10.35	18.92	83.84	88.75
31-Mar-16 07:00:00	31-Mar-16 08:00:00		0.00	0.00	0.00	6.26	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	31-Mar-16 07:00:00		10.35	18.92	83.84	88.75
31-Mar-16 08:00:00	31-Mar-16 09:00:00		0.00	0.00	0.00	6.24	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	31-Mar-16 08:00:00		10.35	18.92	83.84	88.74
31-Mar-16 09:00:00	31-Mar-16 10:00:00		0.00	0.00	0.00	6.16	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	31-Mar-16 09:00:00		10.35	18.92	83.84	88.71
31-Mar-16 10:00:00	31-Mar-16 11:00:00		0.00	0.00	0.00	5.90	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	31-Mar-16 10:00:00		10.35	18.92	83.84	88.63
31-Mar-16 11:00:00	31-Mar-16 12:00:00		0.00	0.00	0.00	5.62	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	31-Mar-16 11:00:00		10.35	18.92	83.84	88.53
31-Mar-16 12:00:00	31-Mar-16 13:00:00		0.00	0.00	0.00	5.34	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	31-Mar-16 12:00:00		10.35	18.92	83.84	88.44
31-Mar-16 13:00:00	31-Mar-16 14:00:00		1.95	0.00	0.00	5.13	2.1	329.7		0.64	0.00	0.00	1.69		10.35	18.92	83.84	86.68	31-Mar-16 13:00:00		10.99	18.92	83.84	88.37
31-Mar-16 14:00:00	31-Mar-16 15:00:00		0.84	0.00	0.00	5.05	2.1	329.7		0.28	0.00	0.00	1.67		10.35	18.92	83.84	86.68	31-Mar-16 14:00:00		10.63	18.92	83.84	88.35
31-Mar-16 15:00:00	31-Mar-16 16:00:00		1.88	0.00	0.00	4.97	2.1	329.7		0.62	0.00	0.00	1.64		10.35	18.92	83.84	86.68	31-Mar-16 15:00:00		10.97	18.92	83.84	88.32
31-Mar-16 16:00:00	31-Mar-16 17:00:00		1.84	0.00	0.00	4.88	2.1	329.7		0.61	0.00	0.00	1.61		10.35	18.92	83.84	86.68	31-Mar-16 16:00:00		10.96	18.92	83.84	88.29
31-Mar-16 17:00:00	31-Mar-16 18:00:00		0.00	0.00	0.00	4.83	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	31-Mar-16 17:00:00		10.35	18.92	83.84	88.27
31-Mar-16 18:00:00	31-Mar-16 19:00:00		0.00	0.00	0.00	4.89	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	31-Mar-16 18:00:00		10.35	18.92	83.84	88.29
31-Mar-16 19:00:00	31-Mar-16 20:00:00		0.00	0.00	0.00	4.95	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	31-Mar-16 19:00:00		10.35	18.92	83.84	88.31
31-Mar-16 20:00:00	31-Mar-16 21:00:00		0.00	0.00	0.00	5.02	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	31-Mar-16 20:00:00		10.35	18.92	83.84	88.34
31-Mar-16 21:00:00	31-Mar-16 22:00:00		0.38	0.00	0.00	5.10	2.1	329.7		0.13	0.00	0.00	1.68		10.35	18.92	83.84	86.68	31-Mar-16 21:00:00		10.48	18.92	83.84	88.36
31-Mar-16 22:00:00	31-Mar-16 23:00:00		6.00	0.00	0.00	5.24	2.1	329.7		1.98	0.00	0.00	1.73		10.35	18.92	83.84	86.68	31-Mar-16 22:00:00		12.33	18.92	83.84	88.41
31-Mar-16 23:00:00	01-Apr-16 00:00:00		0.75	0.00	0.00	5.38	2.1	329.7		0.25	0.00	0.00	1.77		10.35	18.92	83.84	86.68	31-Mar-16 23:00:00		10.60	18.92	83.84	88.45
01-Apr-16 00:00:00	01-Apr-16 01:00:00		0.00	0.00	0.00	5.52	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	01-Apr-16 00:00:00		10.35	18.92	83.84	88.50
01-Apr-16 01:00:00	01-Apr-16 02:00:00		0.00	0.00	0.00	5.64	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	01-Apr-16 01:00:00		10.35	18.92	83.84	88.54
01-Apr-16 02:00:00	01-Apr-16 03:00:00		36.08	0.00	0.00	5.65	2.1	329.7		11.90	0.00	0.00	1.86		10.35	18.92	83.84	86.68	01-Apr-16 02:00:00		22.25	18.92	83.84	88.54
01-Apr-16 03:00:00	01-Apr-16 04:00:00		818.22	0.00	0.00	5.65	2.1	329.7		269.77	0.00	0.00	1.86		10.35	18.92	83.84	86.68	01-Apr-16 03:00:00		280.12	18.92	83.84	88.54
01-Apr-16 04:00:00	01-Apr-16 05:00:00		261.95	0.00	0.00	5.65	2.1	329.7		86.36	0.00	0.00	1.86		10.35	18.92	83.84	86.68	01-Apr-16 04:00:00		96.71	18.92	83.84	88.54
01-Apr-16 05:00:00	01-Apr-16 06:00:00		0.00	0.00	0.00	5.65	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	01-Apr-16 05:00:00		10.35	18.92	83.84	88.54
01-Apr-16 06:00:00	01-Apr-16 07:00:00		0.00	0.00	0.00	5.65	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	01-Apr-16 06:00:00		10.35	18.92	83.84	88.54
01-Apr-16 07:00:00	01-Apr-16 08:00:00		0.11	0.00	0.00	5.65	2.1	329.7		0.04	0.00	0.00	1.86		10.35	18.92	83.84	86.68	01-Apr-16 07:00:00		10.39	18.92	83.84	88.54
01-Apr-16 08:00:00	01-Apr-16 09:00:00		0.00	0.00	0.00	5.65	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	01-Apr-16 08:00:00		10.35	18.92	83.84	88.54
01-Apr-16 09:00:00	01-Apr-16 10:00:00		0.00	0.00	0.00	5.64	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	01-Apr-16 09:00:00		10.35	18.92	83.84	88.54
01-Apr-16 10:00:00	01-Apr-16 11:00:00		0.00	0.00	0.00	5.55	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	01-Apr-16 10:00:00		10.35	18.92	83.84	88.51
01-Apr-16 11:00:00	01-Apr-16 12:00:00		0.00	0.00	0.00	5.46	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	01-Apr-16 11:00:00		10.35	18.92	83.84	88.48
01-Apr-16 12:00:00	01-Apr-16 13:00:00		0.00	0.00	0.00	5.37	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	01-Apr-16 12:00:00		10.35	18.92	83.84	88.45
01-Apr-16 13:00:00	01-Apr-16 14:00:00		3.45	0.00	0.00	5.24	2.1	329.7		1.14	0.00	0.00	1.73		10.35	18.92	83.84	86.68	01-Apr-16 13:00:00		11.49	18.92	83.84	88.41
01-Apr-16 14:00:00	01-Apr-16 15:00:00		22.61	0.00	0.00	5.16	2.1	329.7		7.45	0.00	0.00	1.70		10.35	18.92	83.84	86.68	01-Apr-16 14:00:00		17.80	18.92	83.84	88.38
01-Apr-16 15:00:00	01-Apr-16 16:00:00		18.71	0.00	0.00	5.14	2.1	329.7		6.17	0.00	0.00	1.69		10.35	18.92	83.84	86.68	01-Apr-16 15:00:00		16.52	18.92	83.84	88.37
01-Apr-16 16:00:00	01-Apr-16 17:00:00		18.22	0.00	0.00	5.11	2.1	329.7		6.01	0.00	0.00	1.68		10.35	18.92	83.84	86.68	01-Apr-16 16:00:00		16.36	18.92	83.84	88.36
01-Apr-16 17:00:00	01-Apr-16 18:00:00		18.18	0.00	0.00	5.10	2.1	329.7		5.99	0.00	0.00	1.68		10.35	18.92	83.84	86.68	01-Apr-16 17:00:00		16.34	18.92	83.84	88.36
01-Apr-16 18:00:00	01-Apr-16 19:00:00		16.74	0.00	0.00	5.23	2.1	329.7		5.52	0.00	0.00	1.72		10.35	18.92	83.84	86.68	01-Apr-16 18:00:00		15.87	18.92	83.84	88.40
01-Apr-16 19:00:00	01-Apr-16 20:00:00		9.95	0.00	0.00	5.37	2.1	329.7		3.28	0.00	0.00	1.77		10.35	18.92	83.84	86.68	01-Apr-16 19:00:00		13.63	18.92	83.84	88.45
01-Apr-16 20:00:00	01-Apr-16 21:00:00		7.26	0.00	0.00	5.51	2.1	329.7		2.39	0.00	0.00	1.82		10.35	18.92	83.84	86.68	01-Apr-16 20:00:00		12.74	18.92	83.84	88.50
01-Apr-16 21:00:00	01-Apr-16 22:00:00		3.87	0.00	0.00	5.64	2.1	329.7		1.28	0.00	0.00	1.86		10.35	18.92	83.84	86.68	01-Apr-16 21:00:00		11.63	18.92	83.84	88.54
01-Apr-16 22:00:00	01-Apr-16 23:00:00		1.04	0.00	0.00	5.68	2.1	329.7		0.34	0.00	0.00	1.87		10.35	18.92	83.84	86.68	01-Apr-16 22:00:00		10.69	18.92	83.84	88.55
01-Apr-16 23:00:00	02-Apr-16 00:00:00		0.00	0.00	0.00	5.71	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	01-Apr-16 23:00:00		10.35	18.92	83.84	88.56
02-Apr-16 00:00:00	02-Apr-16 01:00:00		0.00	0.00	0.00	5.74	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	02-Apr-16 00:00:00		10.35	18.92	83.84	88.57
02-Apr-16 01:00:00	02-Apr-16 02:00:00		0.00	0.00	0.00	5.73	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	02-Apr-16 01:00:00		10.35	18.92	83.84	88.57
02-Apr-16 02:00:00	02-Apr-16 03:00:00		0.00	0.00	0.00	5.69	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	02-Apr-16 02:00:00		10.35	18.92	83.84	88.55
02-Apr-16 03:00:00	02-Apr-16 04:00:00		0.00	0.00	0.00	5.67	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	02-Apr-16 03:00:00		10.35	18.92	83.84	88.55
02-Apr-16 04:00:00	02-Apr-16 05:00:00		0.00	0.00	0.00	5.66	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	02-Apr-16 04:00:00		10.35	18.92	83.84	88.55
02-Apr-16 05:00:00	02-Apr-16 06:00:00		0.00	0.00	0.00	5.66	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	02-Apr-16 05:00:00		10.35	18.92	83.84	88.54
02-Apr-16 06:00:00	02-Apr-16 07:00:00		0.00	0.00	0.00	5.71	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	02-Apr-16 06:00:00		10.35	18.92	83.84	88.56
02-Apr-16 07:00:00	02-Apr-16 08:00:00		0.00	0.00	0.00	5.77	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	02-Apr-16 07:00:00		10.35	18.92	83.84	88.58
02-Apr-16 08:00:00	02-Apr-16 09:00:00		0.00	0.00	0.00	5.83	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	02-Apr-16 08:00:00		10.35	18.92	83.84	88.60
02-Apr-16 09:00:00	02-Apr-16 10:00:00		0.00	0.00	0.00	5.80	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	02-Apr-16 09:00:00		10.35	18.92	83.84	88.59
02-Apr-16 10:00:00	02-Apr-16 11:00:00		0.00	0.00	0.00	5.72	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	02-Apr-16 10:00:00		10.35	18.92	83.84	88.57
02-Apr-16 11:00:00	02-Apr-16 12:00:00		0.00	0.00	0.00	5.73	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	02-Apr-16 11:00:00		10.35	18.92	83.84	88.57
02-Apr-16 12:00:00	02-Apr-16 13:00:00		0.00	0.00	0.00	5.74	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	02-Apr-16 12:00:00		10.35	18.92	83.84	88.57
02-Apr-16 13:00:00	02-Apr-16 14:00:00		0.46	0.00	0.00	5.70	2.1	329.7		0.15	0.00	0.00	1.88		10.35	18.92	83.84	86.68	02-Apr-16 13:00:00		10.50	18.92	83.84	88.56
02-Apr-16 14:00:00	02-Apr-16 15:00:00		7.03	0.00	0.00	5.67	2.1	329.7		2.32	0.00	0.00	1.87		10.35	18.92	83.84	86.68	02-Apr-16 14:00:00		12.67	18.92	83.84	88.55
02-Apr-16 15:00:00	02-Apr-16 16:00:00		13.92	0.00	0.00	5.68	2.1	329.7		4.59	0.00	0.00	1.87		10.35	18.92	83.84	86.68	02-Apr-16 15:00:00		14.94	18.92	83.84	88.55
02-Apr-16 16:00:00	02-Apr-16 17:00:00		5.19	0.00	0.00	5.70	2.1	329.7		1.71	0.00	0.00	1.88		10.35	18.92	83.84	86.68	02-Apr-16 16:00:00		12.06	18.92	83.84	88.56
02-Apr-16 17:00:00	02-Apr-16 18:00:00		0.00	0.00	0.00	5.75	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	02-Apr-16 17:00:00		10.35	18.92	83.84	88.58
02-Apr-16 18:00:00	02-Apr-16 19:00:00		3.60	0.00	0.00	5.87	2.1	329.7		1.19	0.00	0.00	1.94		10.35	18.92	83.84	86.68	02-Apr-16 18:00:00		11.54	18.92	83.84	88.62
02-Apr-16 19:00:00	02-Apr-16 20:00:00		13.36	0.00	0.00	5.98	2.1	329.7		4.41	0.00	0.00	1.97		10.35	18.92	83.84	86.68	02-Apr-16 19:00:00		14.76	18.92	83.84	88.65
02-Apr-16 20:00:00	02-Apr-16 21:00:00		14.13	0.00	0.00	6.10	2.1	329.7		4.66	0.00	0.00	2.01		10.35	18.92	83.84	86.68	02-Apr-16 20:00:00		15.01	18.92	83.84	88.69
02-Apr-16 21:00:00	02-Apr-16 22:00:00		11.05	0.00	0.00	6.23	2.1	329.7		3.64	0.00	0.00	2.05		10.35	18.92	83.84	86.68	02-Apr-16 21:00:00		13.99	18.92	83.84	88.73
02-Apr-16 22:00:00	02-Apr-16 23:00:00		0.11	0.00	0.00	6.37	2.1	329.7		0.04	0.00	0.00	2.10		10.35	18.92	83.84	86.68	02-Apr-16 22:00:00		10.39	18.92	83.84	88.78
02-Apr-16 23:00:00	03-Apr-16 00:00:00		0.20	0.00	0.00	6.50	2.1	329.7		0.07	0.00	0.00	2.14		10.35	18.92	83.84	86.68	02-Apr-16 23:00:00		10.42	18.92	83.84	88.82
03-Apr-16 00:00:00	03-Apr-16 01:00:00		0.43	0.00	0.00	6.63	2.1	329.7		0.14	0.00	0.00	2.19		10.35	18.92	83.84	86.68	03-Apr-16 00:00:00		10.49	18.92	83.84	88.87
03-Apr-16 01:00:00	03-Apr-16 02:00:00		0.00	0.00	0.00	6.74	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	03-Apr-16 01:00:00		10.35	18.92	83.84	88.90
03-Apr-16 02:00:00	03-Apr-16 03:00:00		0.00	0.00	0.00	6.75	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	03-Apr-16 02:00:00		10.35	18.92	83.84	88.91
03-Apr-16 03:00:00	03-Apr-16 04:00:00		0.00	0.00	0.00	6.76	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	03-Apr-16 03:00:00		10.35	18.92	83.84	88.91
03-Apr-16 04:00:00	03-Apr-16 05:00:00		0.00	0.00	34.51	6.77	2.1	329.7		0.00	0.00	11.38	2.23		10.35	18.92	83.84	86.68	03-Apr-16 04:00:00		10.35	18.92	95.22	88.91
03-Apr-16 05:00:00	03-Apr-16 06:00:00		376.42	0.00	838.34	6.79	2.1	329.7		124.11	0.00	276.40	2.24		10.35	18.92	83.84	86.68	03-Apr-16 05:00:00		134.46	18.92	360.24	88.92
03-Apr-16 06:00:00	03-Apr-16 07:00:00		894.56	0.00	991.22	6.73	2.1	329.7		294.94	0.00	326.81	2.22		10.35	18.92	83.84	86.68	03-Apr-16 06:00:00		305.29	18.92	410.65	88.90
03-Apr-16 07:00:00	03-Apr-16 08:00:00		833.10	0.00	741.03

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
05-Apr-16 09:00:00	05-Apr-16 10:00:00		0.00	0.00	0.00	7.61	2.1	329.7		0.00	0.00	0.00	2.51		10.35	18.92	83.84	86.68	05-Apr-16 09:00:00		10.35	18.92	83.84	89.19
05-Apr-16 10:00:00	05-Apr-16 11:00:00		0.00	0.00	0.00	7.59	2.1	329.7		0.00	0.00	0.00	2.50		10.35	18.92	83.84	86.68	05-Apr-16 10:00:00		10.35	18.92	83.84	89.18
05-Apr-16 11:00:00	05-Apr-16 12:00:00		0.00	0.00	0.00	7.51	2.1	329.7		0.00	0.00	0.00	2.48		10.35	18.92	83.84	86.68	05-Apr-16 11:00:00		10.35	18.92	83.84	89.16
05-Apr-16 12:00:00	05-Apr-16 13:00:00		0.00	0.00	0.00	7.43	2.1	329.7		0.00	0.00	0.00	2.45		10.35	18.92	83.84	86.68	05-Apr-16 12:00:00		10.35	18.92	83.84	89.13
05-Apr-16 13:00:00	05-Apr-16 14:00:00		0.00	0.00	0.00	7.35	2.1	329.7		0.00	0.00	0.00	2.42		10.35	18.92	83.84	86.68	05-Apr-16 13:00:00		10.35	18.92	83.84	89.10
05-Apr-16 14:00:00	05-Apr-16 15:00:00		0.00	0.00	0.00	7.23	2.1	329.7		0.00	0.00	0.00	2.38		10.35	18.92	83.84	86.68	05-Apr-16 14:00:00		10.35	18.92	83.84	89.06
05-Apr-16 15:00:00	05-Apr-16 16:00:00		0.00	0.00	0.00	7.09	2.1	329.7		0.00	0.00	0.00	2.34		10.35	18.92	83.84	86.68	05-Apr-16 15:00:00		10.35	18.92	83.84	89.02
05-Apr-16 16:00:00	05-Apr-16 17:00:00		0.00	0.00	0.00	6.95	2.1	329.7		0.00	0.00	0.00	2.29		10.35	18.92	83.84	86.68	05-Apr-16 16:00:00		10.35	18.92	83.84	88.97
05-Apr-16 17:00:00	05-Apr-16 18:00:00		0.00	0.00	0.00	6.81	2.1	329.7		0.00	0.00	0.00	2.25		10.35	18.92	83.84	86.68	05-Apr-16 17:00:00		10.35	18.92	83.84	88.93
05-Apr-16 18:00:00	05-Apr-16 19:00:00		0.00	0.00	0.00	6.81	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	05-Apr-16 18:00:00		10.35	18.92	83.84	88.92
05-Apr-16 19:00:00	05-Apr-16 20:00:00		0.00	0.00	0.00	6.85	2.1	329.7		0.00	0.00	0.00	2.26		10.35	18.92	83.84	86.68	05-Apr-16 19:00:00		10.35	18.92	83.84	88.94
05-Apr-16 20:00:00	05-Apr-16 21:00:00		0.00	0.00	0.00	6.88	2.1	329.7		0.00	0.00	0.00	2.27		10.35	18.92	83.84	86.68	05-Apr-16 20:00:00		10.35	18.92	83.84	88.95
05-Apr-16 21:00:00	05-Apr-16 22:00:00		0.00	0.00	0.00	6.95	2.1	329.7		0.00	0.00	0.00	2.29		10.35	18.92	83.84	86.68	05-Apr-16 21:00:00		10.35	18.92	83.84	88.97
05-Apr-16 22:00:00	05-Apr-16 23:00:00		0.52	0.00	0.00	7.19	2.1	329.7		0.17	0.00	0.00	2.37		10.35	18.92	83.84	86.68	05-Apr-16 22:00:00		10.52	18.92	83.84	89.05
05-Apr-16 23:00:00	06-Apr-16 00:00:00		0.00	0.00	0.00	7.41	2.1	329.7		0.00	0.00	0.00	2.44		10.35	18.92	83.84	86.68	05-Apr-16 23:00:00		10.35	18.92	83.84	89.12
06-Apr-16 00:00:00	06-Apr-16 01:00:00		0.00	0.00	0.00	7.63	2.1	329.7		0.00	0.00	0.00	2.52		10.35	18.92	83.84	86.68	06-Apr-16 00:00:00		10.35	18.92	83.84	89.20
06-Apr-16 01:00:00	06-Apr-16 02:00:00		1.06	0.00	0.00	7.79	2.1	329.7		0.35	0.00	0.00	2.57		10.35	18.92	83.84	86.68	06-Apr-16 01:00:00		10.70	18.92	83.84	89.25
06-Apr-16 02:00:00	06-Apr-16 03:00:00		0.52	0.00	0.00	7.71	2.1	329.7		0.17	0.00	0.00	2.54		10.35	18.92	83.84	86.68	06-Apr-16 02:00:00		10.52	18.92	83.84	89.22
06-Apr-16 03:00:00	06-Apr-16 04:00:00		0.00	0.00	0.00	7.73	2.1	329.7		0.00	0.00	0.00	2.55		10.35	18.92	83.84	86.68	06-Apr-16 03:00:00		10.35	18.92	83.84	89.23
06-Apr-16 04:00:00	06-Apr-16 05:00:00		0.00	0.00	0.00	7.74	2.1	329.7		0.00	0.00	0.00	2.55		10.35	18.92	83.84	86.68	06-Apr-16 04:00:00		10.35	18.92	83.84	89.23
06-Apr-16 05:00:00	06-Apr-16 06:00:00		0.00	0.00	0.00	7.77	2.1	329.7		0.00	0.00	0.00	2.56		10.35	18.92	83.84	86.68	06-Apr-16 05:00:00		10.35	18.92	83.84	89.24
06-Apr-16 06:00:00	06-Apr-16 07:00:00		0.00	0.00	0.00	7.81	2.1	329.7		0.00	0.00	0.00	2.58		10.35	18.92	83.84	86.68	06-Apr-16 06:00:00		10.35	18.92	83.84	89.26
06-Apr-16 07:00:00	06-Apr-16 08:00:00		0.28	0.00	0.00	7.78	2.1	329.7		0.09	0.00	0.00	2.57		10.35	18.92	83.84	86.68	06-Apr-16 07:00:00		10.44	18.92	83.84	89.25
06-Apr-16 08:00:00	06-Apr-16 09:00:00		0.35	0.00	0.00	7.75	2.1	329.7		0.11	0.00	0.00	2.55		10.35	18.92	83.84	86.68	06-Apr-16 08:00:00		10.46	18.92	83.84	89.23
06-Apr-16 09:00:00	06-Apr-16 10:00:00		0.21	0.00	0.00	7.70	2.1	329.7		0.07	0.00	0.00	2.54		10.35	18.92	83.84	86.68	06-Apr-16 09:00:00		10.42	18.92	83.84	89.22
06-Apr-16 10:00:00	06-Apr-16 11:00:00		1.15	0.00	0.00	7.41	2.1	329.7		0.38	0.00	0.00	2.44		10.35	18.92	83.84	86.68	06-Apr-16 10:00:00		10.73	18.92	83.84	89.12
06-Apr-16 11:00:00	06-Apr-16 12:00:00		0.22	0.00	0.00	7.02	2.1	329.7		0.07	0.00	0.00	2.32		10.35	18.92	83.84	86.68	06-Apr-16 11:00:00		10.42	18.92	83.84	89.00
06-Apr-16 12:00:00	06-Apr-16 13:00:00		0.82	0.00	0.00	6.64	2.1	329.7		0.27	0.00	0.00	2.19		10.35	18.92	83.84	86.68	06-Apr-16 12:00:00		10.62	18.92	83.84	88.87
06-Apr-16 13:00:00	06-Apr-16 14:00:00		0.91	0.00	0.00	6.24	2.1	329.7		0.30	0.00	0.00	2.06		10.35	18.92	83.84	86.68	06-Apr-16 13:00:00		10.65	18.92	83.84	88.74
06-Apr-16 14:00:00	06-Apr-16 15:00:00		2.42	0.00	0.00	5.99	2.1	329.7		0.80	0.00	0.00	1.98		10.35	18.92	83.84	86.68	06-Apr-16 14:00:00		11.15	18.92	83.84	88.66
06-Apr-16 15:00:00	06-Apr-16 16:00:00		1.73	0.00	0.00	5.89	2.1	329.7		0.57	0.00	0.00	1.94		10.35	18.92	83.84	86.68	06-Apr-16 15:00:00		10.92	18.92	83.84	88.62
06-Apr-16 16:00:00	06-Apr-16 17:00:00		1.12	0.00	0.00	5.78	2.1	329.7		0.37	0.00	0.00	1.91		10.35	18.92	83.84	86.68	06-Apr-16 16:00:00		10.72	18.92	83.84	88.59
06-Apr-16 17:00:00	06-Apr-16 18:00:00		0.52	0.00	0.00	5.70	2.1	329.7		0.17	0.00	0.00	1.88		10.35	18.92	83.84	86.68	06-Apr-16 17:00:00		10.52	18.92	83.84	88.56
06-Apr-16 18:00:00	06-Apr-16 19:00:00		0.14	0.00	0.00	5.82	2.1	329.7		0.05	0.00	0.00	1.92		10.35	18.92	83.84	86.68	06-Apr-16 18:00:00		10.40	18.92	83.84	88.60
06-Apr-16 19:00:00	06-Apr-16 20:00:00		0.00	0.00	0.00	5.92	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	06-Apr-16 19:00:00		10.35	18.92	83.84	88.63
06-Apr-16 20:00:00	06-Apr-16 21:00:00		0.00	0.00	0.00	6.02	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	06-Apr-16 20:00:00		10.35	18.92	83.84	88.66
06-Apr-16 21:00:00	06-Apr-16 22:00:00		0.00	0.00	0.00	6.12	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	06-Apr-16 21:00:00		10.35	18.92	83.84	88.70
06-Apr-16 22:00:00	06-Apr-16 23:00:00		0.00	0.00	0.00	6.17	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	06-Apr-16 22:00:00		10.35	18.92	83.84	88.71
06-Apr-16 23:00:00	07-Apr-16 00:00:00		0.00	0.00	0.00	6.18	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	06-Apr-16 23:00:00		10.35	18.92	83.84	88.72
07-Apr-16 00:00:00	07-Apr-16 01:00:00		0.00	0.00	0.00	6.19	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	07-Apr-16 00:00:00		10.35	18.92	83.84	88.72
07-Apr-16 01:00:00	07-Apr-16 02:00:00		0.00	0.00	0.00	6.19	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	07-Apr-16 01:00:00		10.35	18.92	83.84	88.72
07-Apr-16 02:00:00	07-Apr-16 03:00:00		0.05	0.00	0.00	6.18	2.1	329.7		0.02	0.00	0.00	2.04		10.35	18.92	83.84	86.68	07-Apr-16 02:00:00		10.37	18.92	83.84	88.72
07-Apr-16 03:00:00	07-Apr-16 04:00:00		0.00	0.00	0.00	6.19	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	07-Apr-16 03:00:00		10.35	18.92	83.84	88.72
07-Apr-16 04:00:00	07-Apr-16 05:00:00		0.00	0.00	0.00	6.20	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	07-Apr-16 04:00:00		10.35	18.92	83.84	88.72
07-Apr-16 05:00:00	07-Apr-16 06:00:00		0.00	0.00	0.00	6.20	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	07-Apr-16 05:00:00		10.35	18.92	83.84	88.73
07-Apr-16 06:00:00	07-Apr-16 07:00:00		0.00	0.00	0.00	6.19	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	07-Apr-16 06:00:00		10.35	18.92	83.84	88.72
07-Apr-16 07:00:00	07-Apr-16 08:00:00		0.00	0.00	0.00	6.19	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	07-Apr-16 07:00:00		10.35	18.92	83.84	88.72
07-Apr-16 08:00:00	07-Apr-16 09:00:00		0.00	0.00	0.00	6.19	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	07-Apr-16 08:00:00		10.35	18.92	83.84	88.72
07-Apr-16 09:00:00	07-Apr-16 10:00:00		0.00	0.00	0.00	6.20	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	07-Apr-16 09:00:00		10.35	18.92	83.84	88.72
07-Apr-16 10:00:00	07-Apr-16 11:00:00		0.00	0.00	0.00	6.11	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	07-Apr-16 10:00:00		10.35	18.92	83.84	88.69
07-Apr-16 11:00:00	07-Apr-16 12:00:00		0.00	0.00	0.00	5.97	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	07-Apr-16 11:00:00		10.35	18.92	83.84	88.65
07-Apr-16 12:00:00	07-Apr-16 13:00:00		0.00	0.00	0.00	5.84	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	07-Apr-16 12:00:00		10.35	18.92	83.84	88.61
07-Apr-16 13:00:00	07-Apr-16 14:00:00		0.00	0.00	0.00	5.75	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	07-Apr-16 13:00:00		10.35	18.92	83.84	88.58
07-Apr-16 14:00:00	07-Apr-16 15:00:00		1.28	0.00	0.00	5.58	2.1	329.7		0.42	0.00	0.00	1.84		10.35	18.92	83.84	86.68	07-Apr-16 14:00:00		10.77	18.92	83.84	88.52
07-Apr-16 15:00:00	07-Apr-16 16:00:00		0.30	0.00	0.00	5.45	2.1	329.7		0.10	0.00	0.00	1.80		10.35	18.92	83.84	86.68	07-Apr-16 15:00:00		10.45	18.92	83.84	88.48
07-Apr-16 16:00:00	07-Apr-16 17:00:00		4.08	0.00	0.00	5.31	2.1	329.7		1.35	0.00	0.00	1.75		10.35	18.92	83.84	86.68	07-Apr-16 16:00:00		11.70	18.92	83.84	88.43
07-Apr-16 17:00:00	07-Apr-16 18:00:00		15.84	0.00	0.00	5.18	2.1	329.7		5.22	0.00	0.00	1.71		10.35	18.92	83.84	86.68	07-Apr-16 17:00:00		15.57	18.92	83.84	88.39
07-Apr-16 18:00:00	07-Apr-16 19:00:00		6.36	0.00	0.00	5.26	2.1	329.7		2.10	0.00	0.00	1.73		10.35	18.92	83.84	86.68	07-Apr-16 18:00:00		12.45	18.92	83.84	88.41
07-Apr-16 19:00:00	07-Apr-16 20:00:00		4.64	0.00	0.00	5.37	2.1	329.7		1.53	0.00	0.00	1.77		10.35	18.92	83.84	86.68	07-Apr-16 19:00:00		11.88	18.92	83.84	88.45
07-Apr-16 20:00:00	07-Apr-16 21:00:00		7.69	0.00	0.00	5.48	2.1	329.7		2.53	0.00	0.00	1.81		10.35	18.92	83.84	86.68	07-Apr-16 20:00:00		12.88	18.92	83.84	88.49
07-Apr-16 21:00:00	07-Apr-16 22:00:00		3.65	0.00	0.00	5.59	2.1	329.7		1.20	0.00	0.00	1.84		10.35	18.92	83.84	86.68	07-Apr-16 21:00:00		11.55	18.92	83.84	88.52
07-Apr-16 22:00:00	07-Apr-16 23:00:00		4.57	0.00	0.00	5.66	2.1	329.7		1.51	0.00	0.00	1.87		10.35	18.92	83.84	86.68	07-Apr-16 22:00:00		11.86	18.92	83.84	88.55
07-Apr-16 23:00:00	08-Apr-16 00:00:00		0.49	0.00	0.00	5.68	2.1	329.7		0.16	0.00	0.00	1.87		10.35	18.92	83.84	86.68	07-Apr-16 23:00:00		10.51	18.92	83.84	88.55
08-Apr-16 00:00:00	08-Apr-16 01:00:00		0.00	0.00	0.00	5.70	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	08-Apr-16 00:00:00		10.35	18.92	83.84	88.56
08-Apr-16 01:00:00	08-Apr-16 02:00:00		0.00	0.00	0.00	5.72	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	08-Apr-16 01:00:00		10.35	18.92	83.84	88.56
08-Apr-16 02:00:00	08-Apr-16 03:00:00		0.00	0.00	0.00	5.88	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	08-Apr-16 02:00:00		10.35	18.92	83.84	88.62
08-Apr-16 03:00:00	08-Apr-16 04:00:00		0.00	0.00	0.00	6.08	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	08-Apr-16 03:00:00		10.35	18.92	83.84	88.69
08-Apr-16 04:00:00	08-Apr-16 05:00:00		0.00	0.00	0.00	6.28	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	08-Apr-16 04:00:00		10.35	18.92	83.84	88.75
08-Apr-16 05:00:00	08-Apr-16 06:00:00		0.00	0.00	0.00	6.49	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	08-Apr-16 05:00:00		10.35	18.92	83.84	88.82
08-Apr-16 06:00:00	08-Apr-16 07:00:00		0.00	0.00	0.00	6.50	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	08-Apr-16 06:00:00		10.35	18.92	83.84	88.82
08-Apr-16 07:00:00	08-Apr-16 08:00:00		0.00	0.00	0.00	6.42	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	08-Apr-16 07:00:00		10.35	18.92	83.84	88.80
08-Apr-16 08:00:00	08-Apr-16 09:00:00		0.00	0.00	0.00	6.34	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	08-Apr-16 08:00:00		10.35	18.92	83.84	88.77
08-Apr-16 09:00:00	08-Apr-16 10:00:00		0.00	0.00	0.00	6.25	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	08-Apr-16 09:00:00		10.35	18.92	83.84	88.74
08-Apr-16 10:00:00	08-Apr-16 11:00:00		0.00	0.00	0.00	6.16	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	08-Apr-16 10:00:00		10.35	18.92	83.84	88.71
08-Apr-16 11:00:00	08-Apr-16 12:00:00		0.00	0.00	0.00	6.06	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	08-Apr-16 11:00:00		10.35	18.92	83.84	88.68
08-Apr-16 12:00:00	08-Apr-16 13:00:00		0.00	0.00	0.00	5.96	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	08-Apr-16 12:00:00		10.35	18.92	83.84	88.65
08-Apr-16 13:00:00	08-Apr-16 14:00:00		0.00	0.00	0.00	5.86	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	08-Apr-16 13:00:00		10.35	18.92	83.84	88.61
08-Apr-16 14:00:00	08-Apr-16 15:00:00		0.00	0.00	0.00	5.74	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	08-Apr-16 14:00:00		10.35	18.92	83.84	88.57
08-Apr-16 15:00:00	08-Apr-16 16:00:00		0.00	0.00	0.00	5.71	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	08-Apr-16 15:00:00		10.35	18.92	83.84	88.56
08-Apr-16 16:00:00	08-Apr-16 17:00:00		0.00	0.00	0.00	5.69	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	08-Apr-16 16:00:00		10.35	18.92	83.84	88.55
08-Apr-16 17:00:00	08-Apr-16 18:00:00		0.00	0.00	0.00	5.66	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	08-Apr-16 17:00:00		10.35	18.92	83.84	88.55
08-Apr-16 18:00:00	08-Apr-16 19:00:00		0.00	0.00	0.00	5.70	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	08-Apr-16 18:00:00		10.35	18.92	83.84	88.56
08-Apr-16 19:00:00	08-Apr-16 20:00:00		1.19	0.00	0.00	5.80	2.1	329.7		0.39	0.00	0.00	1.91		10.35	18.92	83.84	86.68	08-Apr-16 19:00:00		10.74	18.92	83.84	88.59
08-Apr-16 20:00:00	08-Apr-16 21:00:00		0.00	0.00	0.00	5.91	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	08-Apr-16 20:00:00		10.35	18.92	83.84	88.63
08-Apr-16 21:00:00	08-Apr-16 22:00:00		0.00	0.00	0.00	6.01	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	08-Apr-16 21:00:00		10.35	18.92	83.84	88.66
08-Apr-16 22:00:00	08-Apr-16 23:00:00		0.00	0.00	0.00	6.14	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	08-Apr-16 22:00:00		10.35	18.92	83.84	88.71
08-Apr-16 23:00:00	09-Apr-16 00:00:00		0.00	0.00	0.00	6.27	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	08-Apr-16 23:00:00		10.35	18.92	83.84	88.75
09-Apr-16 00:00:00	09-Apr-16 01:00:00		0.00	0.00	0.00	6.39	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	09-Apr-16 00:00:00		10.35	18.92	83.84	88.79
09-Apr-16 01:00:00	09-Apr-16 02:00:00		0.00	0.00	0.00	6.51	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	09-Apr-16 01:00:00		10.35	18.92	83.84	88.83
09-Apr-16 02:00:00	09-Apr-16 03:00:00		0.00	0.00	0.00	6.56	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	09-Apr-16 02:00:00		10.35	18.92	83.84	88.84
09-Apr-16 03:00:00	09-Apr-16 04:00:00		0.00	0.00	0.00	6.61	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	09-Apr-16 03:00:00		10.35	18.92	83.84	88.86
09-Apr-16 04:00:00	09-Apr-16 05:00:00		0.00	0.00	0.00	6.67	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	09-Apr-16 04:00:00		10.35	18.92	83.84	88.88
09-Apr-16 05:00:00	09-Apr-16 06:00:00		0.00	0.00	0.00	6.74	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	09-Apr-16 05:00:00		10.35	18.92	83.84	88.90
09-Apr-16 06:00:00	09-Apr-16 07:00:00		0.00	0.00	0.00	6.77

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
11-Apr-16 08:00:00	11-Apr-16 09:00:00		562.03	0.00	0.00	6.27	2.1	329.7		185.30	0.00	0.00	2.07		10.35	18.92	83.84	86.68	11-Apr-16 08:00:00		**195.65**	**18.92**	**83.84**	**88.75**
11-Apr-16 09:00:00	11-Apr-16 10:00:00		564.34	0.00	0.00	6.21	2.1	329.7		186.06	0.00	0.00	2.05		10.35	18.92	83.84	86.68	11-Apr-16 09:00:00		**196.41**	**18.92**	**83.84**	**88.73**
11-Apr-16 10:00:00	11-Apr-16 11:00:00		558.33	0.00	0.00	5.98	2.1	329.7		184.08	0.00	0.00	1.97		10.35	18.92	83.84	86.68	11-Apr-16 10:00:00		**194.43**	**18.92**	**83.84**	**88.65**
11-Apr-16 11:00:00	11-Apr-16 12:00:00		617.40	920.31	0.00	5.64	2.1	329.7		203.56	303.43	0.00	1.86		10.35	18.92	83.84	86.68	11-Apr-16 11:00:00		**213.91**	**322.35**	**83.84**	**88.54**
11-Apr-16 12:00:00	11-Apr-16 13:00:00		561.56	937.12	0.00	5.32	2.1	329.7		185.15	308.97	0.00	1.75		10.35	18.92	83.84	86.68	11-Apr-16 12:00:00		**195.50**	**327.89**	**83.84**	**88.43**
11-Apr-16 13:00:00	11-Apr-16 14:00:00		573.67	989.07	0.00	5.00	2.1	329.7		189.14	326.10	0.00	1.65		10.35	18.92	83.84	86.68	11-Apr-16 13:00:00		**199.49**	**345.02**	**83.84**	**88.33**
11-Apr-16 14:00:00	11-Apr-16 15:00:00		569.97	974.64	0.00	5.01	2.1	329.7		187.92	321.34	0.00	1.65		10.35	18.92	83.84	86.68	11-Apr-16 14:00:00		**198.27**	**340.26**	**83.84**	**88.33**
11-Apr-16 15:00:00	11-Apr-16 16:00:00		651.21	965.51	0.00	5.31	2.1	329.7		214.70	318.33	0.00	1.75		10.35	18.92	83.84	86.68	11-Apr-16 15:00:00		**225.05**	**337.25**	**83.84**	**88.43**
11-Apr-16 16:00:00	11-Apr-16 17:00:00		695.10	1,007.78	0.00	5.58	2.1	329.7		229.17	332.27	0.00	1.84		10.35	18.92	83.84	86.68	11-Apr-16 16:00:00		**239.52**	**351.19**	**83.84**	**88.52**
11-Apr-16 17:00:00	11-Apr-16 18:00:00		620.94	930.00	0.00	5.86	2.1	329.7		204.72	306.62	0.00	1.93		10.35	18.92	83.84	86.68	11-Apr-16 17:00:00		**215.07**	**325.54**	**83.84**	**88.61**
11-Apr-16 18:00:00	11-Apr-16 19:00:00		683.97	1,006.30	0.00	6.03	2.1	329.7		225.51	331.78	0.00	1.99		10.35	18.92	83.84	86.68	11-Apr-16 18:00:00		**235.86**	**350.70**	**83.84**	**88.67**
11-Apr-16 19:00:00	11-Apr-16 20:00:00		674.61	938.32	0.00	6.08	2.1	329.7		222.42	309.37	0.00	2.00		10.35	18.92	83.84	86.68	11-Apr-16 19:00:00		**232.77**	**328.29**	**83.84**	**88.68**
11-Apr-16 20:00:00	11-Apr-16 21:00:00		731.62	491.70	0.00	6.13	2.1	329.7		241.22	162.11	0.00	2.02		10.35	18.92	83.84	86.68	11-Apr-16 20:00:00		**251.57**	**181.03**	**83.84**	**88.70**
11-Apr-16 21:00:00	11-Apr-16 22:00:00		744.55	506.27	0.00	6.18	2.1	329.7		245.48	166.92	0.00	2.04		10.35	18.92	83.84	86.68	11-Apr-16 21:00:00		**255.83**	**185.84**	**83.84**	**88.72**
11-Apr-16 22:00:00	11-Apr-16 23:00:00		771.71	523.41	0.00	6.18	2.1	329.7		254.43	172.57	0.00	2.04		10.35	18.92	83.84	86.68	11-Apr-16 22:00:00		**264.78**	**191.49**	**83.84**	**88.72**
11-Apr-16 23:00:00	12-Apr-16 00:00:00		744.43	536.84	0.00	6.14	2.1	329.7		245.44	176.99	0.00	2.02		10.35	18.92	83.84	86.68	11-Apr-16 23:00:00		**255.79**	**195.91**	**83.84**	**88.70**
12-Apr-16 00:00:00	12-Apr-16 01:00:00		474.59	390.15	0.00	6.11	2.1	329.7		156.47	128.63	0.00	2.01		10.35	18.92	83.84	86.68	12-Apr-16 00:00:00		**166.82**	**147.55**	**83.84**	**88.69**
12-Apr-16 01:00:00	12-Apr-16 02:00:00		284.72	409.23	0.00	6.08	2.1	329.7		93.87	134.92	0.00	2.00		10.35	18.92	83.84	86.68	12-Apr-16 01:00:00		**104.22**	**153.84**	**83.84**	**88.68**
12-Apr-16 02:00:00	12-Apr-16 03:00:00		293.58	410.89	0.00	5.95	2.1	329.7		96.79	135.47	0.00	1.96		10.35	18.92	83.84	86.68	12-Apr-16 02:00:00		**107.14**	**154.39**	**83.84**	**88.64**
12-Apr-16 03:00:00	12-Apr-16 04:00:00		292.24	375.30	0.00	5.93	2.1	329.7		96.35	123.74	0.00	1.96		10.35	18.92	83.84	86.68	12-Apr-16 03:00:00		**106.70**	**142.66**	**83.84**	**88.64**
12-Apr-16 04:00:00	12-Apr-16 05:00:00		284.60	330.72	0.00	5.94	2.1	329.7		93.83	109.04	0.00	1.96		10.35	18.92	83.84	86.68	12-Apr-16 04:00:00		**104.18**	**127.96**	**83.84**	**88.64**
12-Apr-16 05:00:00	12-Apr-16 06:00:00		279.31	331.28	0.00	5.95	2.1	329.7		92.09	109.22	0.00	1.96		10.35	18.92	83.84	86.68	12-Apr-16 05:00:00		**102.44**	**128.14**	**83.84**	**88.64**
12-Apr-16 06:00:00	12-Apr-16 07:00:00		279.08	330.19	0.00	6.00	2.1	329.7		92.01	108.86	0.00	1.98		10.35	18.92	83.84	86.68	12-Apr-16 06:00:00		**102.36**	**127.78**	**83.84**	**88.66**
12-Apr-16 07:00:00	12-Apr-16 08:00:00		280.34	330.30	0.00	6.05	2.1	329.7		92.43	108.90	0.00	1.99		10.35	18.92	83.84	86.68	12-Apr-16 07:00:00		**102.78**	**127.82**	**83.84**	**88.67**
12-Apr-16 08:00:00	12-Apr-16 09:00:00		39.26	329.75	0.00	6.10	2.1	329.7		12.94	108.72	0.00	2.01		10.35	18.92	83.84	86.68	12-Apr-16 08:00:00		**23.29**	**127.64**	**83.84**	**88.69**
12-Apr-16 09:00:00	12-Apr-16 10:00:00		0.00	330.37	0.00	6.14	2.1	329.7		0.00	108.92	0.00	2.03		10.35	18.92	83.84	86.68	12-Apr-16 09:00:00		**10.35**	**127.84**	**83.84**	**88.71**
12-Apr-16 10:00:00	12-Apr-16 11:00:00		0.00	331.87	0.00	6.14	2.1	329.7		0.00	109.42	0.00	2.02		10.35	18.92	83.84	86.68	12-Apr-16 10:00:00		**10.35**	**128.34**	**83.84**	**88.70**
12-Apr-16 11:00:00	12-Apr-16 12:00:00		0.00	329.28	0.00	6.02	2.1	329.7		0.00	108.56	0.00	1.99		10.35	18.92	83.84	86.68	12-Apr-16 11:00:00		**10.35**	**127.48**	**83.84**	**88.67**
12-Apr-16 12:00:00	12-Apr-16 13:00:00		0.00	165.07	0.00	5.90	2.1	329.7		0.00	54.42	0.00	1.95		10.35	18.92	83.84	86.68	12-Apr-16 12:00:00		**10.35**	**73.34**	**83.84**	**88.63**
12-Apr-16 13:00:00	12-Apr-16 14:00:00		0.00	0.00	0.00	5.78	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	12-Apr-16 13:00:00		**10.35**	**18.92**	**83.84**	**88.59**
12-Apr-16 14:00:00	12-Apr-16 15:00:00		0.00	0.00	0.00	5.75	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	12-Apr-16 14:00:00		**10.35**	**18.92**	**83.84**	**88.58**
12-Apr-16 15:00:00	12-Apr-16 16:00:00		0.00	0.00	0.00	5.87	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	12-Apr-16 15:00:00		**10.35**	**18.92**	**83.84**	**88.62**
12-Apr-16 16:00:00	12-Apr-16 17:00:00		0.00	0.00	0.00	6.00	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	12-Apr-16 16:00:00		**10.35**	**18.92**	**83.84**	**88.66**
12-Apr-16 17:00:00	12-Apr-16 18:00:00		0.00	0.00	0.00	6.12	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	12-Apr-16 17:00:00		**10.35**	**18.92**	**83.84**	**88.70**
12-Apr-16 18:00:00	12-Apr-16 19:00:00		0.00	0.00	0.00	6.21	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	12-Apr-16 18:00:00		**10.35**	**18.92**	**83.84**	**88.73**
12-Apr-16 19:00:00	12-Apr-16 20:00:00		0.00	0.00	0.00	6.20	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	12-Apr-16 19:00:00		**10.35**	**18.92**	**83.84**	**88.72**
12-Apr-16 20:00:00	12-Apr-16 21:00:00		0.00	0.00	0.00	6.18	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	12-Apr-16 20:00:00		**10.35**	**18.92**	**83.84**	**88.72**
12-Apr-16 21:00:00	12-Apr-16 22:00:00		0.00	0.00	0.00	6.15	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	12-Apr-16 21:00:00		**10.35**	**18.92**	**83.84**	**88.71**
12-Apr-16 22:00:00	12-Apr-16 23:00:00		0.00	0.00	0.00	6.03	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	12-Apr-16 22:00:00		**10.35**	**18.92**	**83.84**	**88.67**
12-Apr-16 23:00:00	13-Apr-16 00:00:00		0.00	0.00	0.00	6.18	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	12-Apr-16 23:00:00		**10.35**	**18.92**	**83.84**	**88.72**
13-Apr-16 00:00:00	13-Apr-16 01:00:00		0.00	0.00	0.00	6.40	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	13-Apr-16 00:00:00		**10.35**	**18.92**	**83.84**	**88.79**
13-Apr-16 01:00:00	13-Apr-16 02:00:00		0.00	0.00	0.00	6.61	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	13-Apr-16 01:00:00		**10.35**	**18.92**	**83.84**	**88.86**
13-Apr-16 02:00:00	13-Apr-16 03:00:00		0.00	0.00	0.00	6.76	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	13-Apr-16 02:00:00		**10.35**	**18.92**	**83.84**	**88.91**
13-Apr-16 03:00:00	13-Apr-16 04:00:00		0.00	0.00	0.00	6.77	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	13-Apr-16 03:00:00		**10.35**	**18.92**	**83.84**	**88.91**
13-Apr-16 04:00:00	13-Apr-16 05:00:00		0.00	0.00	0.00	6.77	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	13-Apr-16 04:00:00		**10.35**	**18.92**	**83.84**	**88.91**
13-Apr-16 05:00:00	13-Apr-16 06:00:00		0.00	0.00	0.00	6.77	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	13-Apr-16 05:00:00		**10.35**	**18.92**	**83.84**	**88.91**
13-Apr-16 06:00:00	13-Apr-16 07:00:00		0.00	0.00	0.00	6.77	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	13-Apr-16 06:00:00		**10.35**	**18.92**	**83.84**	**88.91**
13-Apr-16 07:00:00	13-Apr-16 08:00:00		0.00	0.00	0.00	6.77	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	13-Apr-16 07:00:00		**10.35**	**18.92**	**83.84**	**88.91**
13-Apr-16 08:00:00	13-Apr-16 09:00:00		0.00	0.00	0.00	6.76	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	13-Apr-16 08:00:00		**10.35**	**18.92**	**83.84**	**88.91**
13-Apr-16 09:00:00	13-Apr-16 10:00:00		0.00	0.00	0.00	6.75	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	13-Apr-16 09:00:00		**10.35**	**18.92**	**83.84**	**88.90**
13-Apr-16 10:00:00	13-Apr-16 11:00:00		0.00	95.58	0.00	6.65	2.1	329.7		0.00	31.51	0.00	2.19		10.35	18.92	83.84	86.68	13-Apr-16 10:00:00		**10.35**	**50.43**	**83.84**	**88.87**
13-Apr-16 11:00:00	13-Apr-16 12:00:00		0.00	0.00	0.00	6.39	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	13-Apr-16 11:00:00		**10.35**	**18.92**	**83.84**	**88.79**
13-Apr-16 12:00:00	13-Apr-16 13:00:00		0.00	0.00	0.00	6.13	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	13-Apr-16 12:00:00		**10.35**	**18.92**	**83.84**	**88.70**
13-Apr-16 13:00:00	13-Apr-16 14:00:00		0.00	0.00	0.00	5.87	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	13-Apr-16 13:00:00		**10.35**	**18.92**	**83.84**	**88.61**
13-Apr-16 14:00:00	13-Apr-16 15:00:00		0.00	0.00	0.00	77.13	2.1	329.7		0.00	0.00	0.00	25.43		10.35	18.92	83.84	86.68	13-Apr-16 14:00:00		**10.35**	**18.92**	**83.84**	**112.11**
13-Apr-16 15:00:00	13-Apr-16 16:00:00		0.00	0.00	0.00	5.79	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	13-Apr-16 15:00:00		**10.35**	**18.92**	**83.84**	**88.59**
13-Apr-16 16:00:00	13-Apr-16 17:00:00		0.00	0.00	0.00	5.72	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	13-Apr-16 16:00:00		**10.35**	**18.92**	**83.84**	**88.57**
13-Apr-16 17:00:00	13-Apr-16 18:00:00		0.00	0.00	0.00	5.65	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	13-Apr-16 17:00:00		**10.35**	**18.92**	**83.84**	**88.54**
13-Apr-16 18:00:00	13-Apr-16 19:00:00		0.00	0.00	0.00	5.58	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	13-Apr-16 18:00:00		**10.35**	**18.92**	**83.84**	**88.52**
13-Apr-16 19:00:00	13-Apr-16 20:00:00		0.00	0.00	0.00	5.63	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	13-Apr-16 19:00:00		**10.35**	**18.92**	**83.84**	**88.54**
13-Apr-16 20:00:00	13-Apr-16 21:00:00		0.00	0.00	0.00	5.77	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	13-Apr-16 20:00:00		**10.35**	**18.92**	**83.84**	**88.58**
13-Apr-16 21:00:00	13-Apr-16 22:00:00		449.38	0.00	0.00	5.91	2.1	329.7		148.16	0.00	0.00	1.95		10.35	18.92	83.84	86.68	13-Apr-16 21:00:00		**158.51**	**18.92**	**83.84**	**88.63**
13-Apr-16 22:00:00	13-Apr-16 23:00:00		717.12	0.00	0.00	6.05	2.1	329.7		236.43	0.00	0.00	1.99		10.35	18.92	83.84	86.68	13-Apr-16 22:00:00		**246.78**	**18.92**	**83.84**	**88.67**
13-Apr-16 23:00:00	14-Apr-16 00:00:00		718.17	0.00	0.00	6.20	2.1	329.7		236.78	0.00	0.00	2.04		10.35	18.92	83.84	86.68	13-Apr-16 23:00:00		**247.13**	**18.92**	**83.84**	**88.72**
14-Apr-16 00:00:00	14-Apr-16 01:00:00		712.48	0.00	0.00	6.37	2.1	329.7		234.90	0.00	0.00	2.10		10.35	18.92	83.84	86.68	14-Apr-16 00:00:00		**245.25**	**18.92**	**83.84**	**88.78**
14-Apr-16 01:00:00	14-Apr-16 02:00:00		720.77	0.00	0.00	6.55	2.1	329.7		237.64	0.00	0.00	2.16		10.35	18.92	83.84	86.68	14-Apr-16 01:00:00		**247.99**	**18.92**	**83.84**	**88.84**
14-Apr-16 02:00:00	14-Apr-16 03:00:00		721.91	0.00	0.00	6.73	2.1	329.7		238.01	0.00	0.00	2.22		10.35	18.92	83.84	86.68	14-Apr-16 02:00:00		**248.36**	**18.92**	**83.84**	**88.90**
14-Apr-16 03:00:00	14-Apr-16 04:00:00		720.83	0.00	0.00	6.79	2.1	329.7		237.66	0.00	0.00	2.24		10.35	18.92	83.84	86.68	14-Apr-16 03:00:00		**248.01**	**18.92**	**83.84**	**88.92**
14-Apr-16 04:00:00	14-Apr-16 05:00:00		708.60	0.00	0.00	6.80	2.1	329.7		233.63	0.00	0.00	2.24		10.35	18.92	83.84	86.68	14-Apr-16 04:00:00		**243.98**	**18.92**	**83.84**	**88.92**
14-Apr-16 05:00:00	14-Apr-16 06:00:00		1,204.60	100.75	0.00	6.80	2.1	329.7		397.16	33.22	0.00	2.24		10.35	18.92	83.84	86.68	14-Apr-16 05:00:00		**407.51**	**52.14**	**83.84**	**88.92**
14-Apr-16 06:00:00	14-Apr-16 07:00:00		1,428.10	151.73	0.00	6.81	2.1	329.7		470.84	50.03	0.00	2.24		10.35	18.92	83.84	86.68	14-Apr-16 06:00:00		**481.19**	**68.95**	**83.84**	**88.92**
14-Apr-16 07:00:00	14-Apr-16 08:00:00		1,477.19	145.32	0.00	6.81	2.1	329.7		487.03	47.91	0.00	2.25		10.35	18.92	83.84	86.68	14-Apr-16 07:00:00		**497.38**	**66.83**	**83.84**	**88.93**
14-Apr-16 08:00:00	14-Apr-16 09:00:00		1,494.20	443.25	0.00	6.81	2.1	329.7		492.64	146.14	0.00	2.24		10.35	18.92	83.84	86.68	14-Apr-16 08:00:00		**502.99**	**165.06**	**83.84**	**88.92**
14-Apr-16 09:00:00	14-Apr-16 10:00:00		1,503.19	572.72	0.00	6.80	2.1	329.7		495.60	188.50	0.00	2.24		10.35	18.92	83.84	86.68	14-Apr-16 09:00:00		**505.95**	**207.42**	**83.84**	**88.92**
14-Apr-16 10:00:00	14-Apr-16 11:00:00		1,486.43	571.79	0.00	6.79	2.1	329.7		490.08	188.52	0.00	2.24		10.35	18.92	83.84	86.68	14-Apr-16 10:00:00		**500.43**	**207.44**	**83.84**	**88.92**
14-Apr-16 11:00:00	14-Apr-16 12:00:00		1,454.30	569.77	0.00	6.74	2.1	329.7		479.48	187.85	0.00	2.22		10.35	18.92	83.84	86.68	14-Apr-16 11:00:00		**489.83**	**206.77**	**83.84**	**88.90**
14-Apr-16 12:00:00	14-Apr-16 13:00:00		1,470.48	597.08	0.00	6.66	2.1	329.7		484.82	196.86	0.00	2.20		10.35	18.92	83.84	86.68	14-Apr-16 12:00:00		**495.17**	**215.78**	**83.84**	**88.88**
14-Apr-16 13:00:00	14-Apr-16 14:00:00		1,489.22	624.79	0.00	6.58	2.1	329.7		491.00	205.99	0.00	2.17		10.35	18.92	83.84	86.68	14-Apr-16 13:00:00		**501.35**	**224.91**	**83.84**	**88.85**
14-Apr-16 14:00:00	14-Apr-16 15:00:00		1,546.06	655.63	0.00	6.44	2.1	329.7		509.74	216.16	0.00	2.12		10.35	18.92	83.84	86.68	14-Apr-16 14:00:00		**520.09**	**235.08**	**83.84**	**88.80**
14-Apr-16 15:00:00	14-Apr-16 16:00:00		1,556.57	656.68	0.00	6.35	2.1	329.7		513.20	216.51	0.00	2.09		10.35	18.92	83.84	86.68	14-Apr-16 15:00:00		**523.55**	**235.43**	**83.84**	**88.77**
14-Apr-16 16:00:00	14-Apr-16 17:00:00		1,489.61	629.10	0.00	6.48	2.1	329.7		491.13	207.41	0.00	2.14		10.35	18.92	83.84	86.68	14-Apr-16 16:00:00		**501.48**	**226.33**	**83.84**	**88.82**
14-Apr-16 17:00:00	14-Apr-16 18:00:00		1,478.82	628.91	0.00	6.61	2.1	329.7		487.57	207.35	0.00	2.18		10.35	18.92	83.84	86.68	14-Apr-16 17:00:00		**497.92**	**226.27**	**83.84**	**88.86**
14-Apr-16 18:00:00	14-Apr-16 19:00:00		1,283.32	546.61	0.00	6.74	2.1	329.7		423.11	180.22	0.00	2.22		10.35	18.92	83.84	86.68	14-Apr-16 18:00:00		**433.46**	**199.14**	**83.84**	**88.90**
14-Apr-16 19:00:00	14-Apr-16 20:00:00		1,259.74	534.55	0.00	6.80	2.1	329.7		415.33	176.24	0.00	2.24		10.35	18.92	83.84	86.68	14-Apr-16 19:00:00		**425.68**	**195.16**	**83.84**	**88.92**
14-Apr-16 20:00:00	14-Apr-16 21:00:00		1,232.88	534.13	0.00	6.82	2.1	329.7		406.48	176.10	0.00	2.25		10.35	18.92	83.84	86.68	14-Apr-16 20:00:00		**416.83**	**195.02**	**83.84**	**88.93**
14-Apr-16 21:00:00	14-Apr-16 22:00:00		1,162.24	524.37	0.00	6.85	2.1	329.7		383.19	172.89	0.00	2.26		10.35	18.92	83.84	86.68	14-Apr-16 21:00:00		**393.54**	**191.81**	**83.84**	**88.94**
14-Apr-16 22:00:00	14-Apr-16 23:00:00		1,306.25	599.58	0.00	6.90	2.1	329.7		430.67	197.68	0.00	2.27		10.35	18.92	83.84	86.68	14-Apr-16 22:00:00		**441.02**	**216.60**	**83.84**	**88.95**
14-Apr-16 23:00:00	15-Apr-16 00:00:00		1,294.58	598.79	0.00	6.97	2.1	329.7		426.82	197.42	0.00	2.30		10.35	18.92	83.84	86.68	14-Apr-16 23:00:00		**437.17**	**216.34**	**83.84**	**88.98**
15-Apr-16 00:00:00	15-Apr-16 01:00:00		1,292.30	600.67	0.00	7.00	2.1	329.7		426.07	198.04	0.00	2.31		10.35	18.92	83.84	86.68	15-Apr-16 00:00:00		**436.42**	**216.96**	**83.84**	**88.99**
15-Apr-16 01:00:00	15-Apr-16 02:00:00		1,287.35	601.97	0.00	7.02	2.1	329.7		424.44	198.47	0.00	2.32		10.35	18.92	83.84	86.68	15-Apr-16 01:00:00		**434.79**	**217.39**	**83.84**	**89.00**
15-Apr-16 02:00:00	15-Apr-16 03:00:00		1,277.02	597.52	0.00	7.04	2.1	329.7		421.04	197.00	0.00	2.32		10.35	18.92	83.84	86.68	15-Apr-16 02:00:00		**431.39**	**215.92**	**83.84**	**89.00**
15-Apr-16 03:00:00	15-Apr-16 04:00:00		1,277.56	620.92	0.00	7.06	2.1	329.7		421.21	204.72	0.00	2.33		10.35	18.92	83.84	86.68	15-Apr-16 03:00:00		**431.56**	**223.64**	**83.84**	**89.01**
15-Apr-16 04:00:00	15-Apr-16 05:00:00		1,280.55	650.01	0.00	7.12	2.1	329.7		422.20	214.31	0.00	2.35		10.35	18.92	83.84	86.68	15-Apr-16 04:00:00		**432.55**	**233.23**	**83.84**	**89.03**
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Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
17-Apr-16 07:00:00	17-Apr-16 08:00:00		0.00	0.00	0.00	7.03	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	17-Apr-16 07:00:00		10.35	18.92	83.84	89.00
17-Apr-16 08:00:00	17-Apr-16 09:00:00		0.00	0.00	0.00	6.98	2.1	329.7		0.00	0.00	0.00	2.30		10.35	18.92	83.84	86.68	17-Apr-16 08:00:00		10.35	18.92	83.84	88.98
17-Apr-16 09:00:00	17-Apr-16 10:00:00		0.00	0.00	0.00	32.08	2.1	329.7		0.00	0.00	0.00	10.58		10.35	18.92	83.84	86.68	17-Apr-16 09:00:00		10.35	18.92	83.84	97.26
17-Apr-16 10:00:00	17-Apr-16 11:00:00		0.00	0.00	0.00	6.15	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	17-Apr-16 10:00:00		10.35	18.92	83.84	88.71
17-Apr-16 11:00:00	17-Apr-16 12:00:00		0.00	0.00	0.00	11.10	2.1	329.7		0.00	0.00	0.00	3.66		10.35	18.92	83.84	86.68	17-Apr-16 11:00:00		10.35	18.92	83.84	90.34
17-Apr-16 12:00:00	17-Apr-16 13:00:00		0.00	0.00	0.00	5.31	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	17-Apr-16 12:00:00		10.35	18.92	83.84	88.43
17-Apr-16 13:00:00	17-Apr-16 14:00:00		0.14	0.00	0.00	93.45	2.1	329.7		0.05	0.00	0.00	30.81		10.35	18.92	83.84	86.68	17-Apr-16 13:00:00		10.40	18.92	83.84	117.49
17-Apr-16 14:00:00	17-Apr-16 15:00:00		0.52	0.00	0.00	6.18	2.1	329.7		0.17	0.00	0.00	2.04		10.35	18.92	83.84	86.68	17-Apr-16 14:00:00		10.52	18.92	83.84	88.72
17-Apr-16 15:00:00	17-Apr-16 16:00:00		0.00	0.00	0.00	114.97	2.1	329.7		0.00	0.00	0.00	37.91		10.35	18.92	83.84	86.68	17-Apr-16 15:00:00		10.35	18.92	83.84	124.59
17-Apr-16 16:00:00	17-Apr-16 17:00:00		0.00	0.00	0.00	5.04	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	17-Apr-16 16:00:00		10.35	18.92	83.84	88.34
17-Apr-16 17:00:00	17-Apr-16 18:00:00		0.00	0.00	0.00	5.05	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	17-Apr-16 17:00:00		10.35	18.92	83.84	88.35
17-Apr-16 18:00:00	17-Apr-16 19:00:00		0.00	0.00	0.00	5.07	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	17-Apr-16 18:00:00		10.35	18.92	83.84	88.35
17-Apr-16 19:00:00	17-Apr-16 20:00:00		0.00	0.00	0.00	5.10	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	17-Apr-16 19:00:00		10.35	18.92	83.84	88.36
17-Apr-16 20:00:00	17-Apr-16 21:00:00		0.00	0.00	0.00	5.35	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	17-Apr-16 20:00:00		10.35	18.92	83.84	88.44
17-Apr-16 21:00:00	17-Apr-16 22:00:00		0.00	0.00	0.00	5.64	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	17-Apr-16 21:00:00		10.35	18.92	83.84	88.54
17-Apr-16 22:00:00	17-Apr-16 23:00:00		0.00	0.00	0.00	5.93	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	17-Apr-16 22:00:00		10.35	18.92	83.84	88.64
17-Apr-16 23:00:00	18-Apr-16 00:00:00		0.00	0.00	0.00	6.19	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	17-Apr-16 23:00:00		10.35	18.92	83.84	88.72
18-Apr-16 00:00:00	18-Apr-16 01:00:00		0.00	0.00	0.00	6.33	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	18-Apr-16 00:00:00		10.35	18.92	83.84	88.77
18-Apr-16 01:00:00	18-Apr-16 02:00:00		0.00	0.00	0.00	6.44	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	18-Apr-16 01:00:00		10.35	18.92	83.84	88.80
18-Apr-16 02:00:00	18-Apr-16 03:00:00		0.00	0.00	0.00	6.56	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	18-Apr-16 02:00:00		10.35	18.92	83.84	88.84
18-Apr-16 03:00:00	18-Apr-16 04:00:00		0.00	0.00	0.00	6.68	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	18-Apr-16 03:00:00		10.35	18.92	83.84	88.88
18-Apr-16 04:00:00	18-Apr-16 05:00:00		0.00	0.00	0.00	6.72	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	18-Apr-16 04:00:00		10.35	18.92	83.84	88.90
18-Apr-16 05:00:00	18-Apr-16 06:00:00		0.00	0.00	0.00	6.74	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	18-Apr-16 05:00:00		10.35	18.92	83.84	88.90
18-Apr-16 06:00:00	18-Apr-16 07:00:00		0.00	0.00	0.00	6.76	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	18-Apr-16 06:00:00		10.35	18.92	83.84	88.91
18-Apr-16 07:00:00	18-Apr-16 08:00:00		0.00	0.00	0.00	6.74	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	18-Apr-16 07:00:00		10.35	18.92	83.84	88.90
18-Apr-16 08:00:00	18-Apr-16 09:00:00		0.00	0.00	0.00	6.52	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	18-Apr-16 08:00:00		10.35	18.92	83.84	88.83
18-Apr-16 09:00:00	18-Apr-16 10:00:00		0.00	0.00	0.00	6.26	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	18-Apr-16 09:00:00		10.35	18.92	83.84	88.74
18-Apr-16 10:00:00	18-Apr-16 11:00:00		0.00	0.00	0.00	5.99	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	18-Apr-16 10:00:00		10.35	18.92	83.84	88.66
18-Apr-16 11:00:00	18-Apr-16 12:00:00		0.28	0.00	0.00	5.71	2.1	329.7		0.09	0.00	0.00	1.88		10.35	18.92	83.84	86.68	18-Apr-16 11:00:00		10.44	18.92	83.84	88.56
18-Apr-16 12:00:00	18-Apr-16 13:00:00		0.11	0.00	0.00	5.47	2.1	329.7		0.04	0.00	0.00	1.80		10.35	18.92	83.84	86.68	18-Apr-16 12:00:00		10.39	18.92	83.84	88.48
18-Apr-16 13:00:00	18-Apr-16 14:00:00		1.30	0.00	0.00	5.25	2.1	329.7		0.43	0.00	0.00	1.73		10.35	18.92	83.84	86.68	18-Apr-16 13:00:00		10.78	18.92	83.84	88.41
18-Apr-16 14:00:00	18-Apr-16 15:00:00		7.83	0.00	0.00	5.02	2.1	329.7		2.58	0.00	0.00	1.66		10.35	18.92	83.84	86.68	18-Apr-16 14:00:00		12.93	18.92	83.84	88.34
18-Apr-16 15:00:00	18-Apr-16 16:00:00		4.60	0.00	0.00	4.83	2.1	329.7		1.52	0.00	0.00	1.59		10.35	18.92	83.84	86.68	18-Apr-16 15:00:00		11.87	18.92	83.84	88.27
18-Apr-16 16:00:00	18-Apr-16 17:00:00		9.97	0.00	0.00	4.87	2.1	329.7		3.29	0.00	0.00	1.61		10.35	18.92	83.84	86.68	18-Apr-16 16:00:00		13.64	18.92	83.84	88.29
18-Apr-16 17:00:00	18-Apr-16 18:00:00		6.25	0.00	0.00	4.94	2.1	329.7		2.06	0.00	0.00	1.63		10.35	18.92	83.84	86.68	18-Apr-16 17:00:00		12.41	18.92	83.84	88.31
18-Apr-16 18:00:00	18-Apr-16 19:00:00		0.11	0.00	0.00	5.02	2.1	329.7		0.04	0.00	0.00	1.65		10.35	18.92	83.84	86.68	18-Apr-16 18:00:00		10.39	18.92	83.84	88.33
18-Apr-16 19:00:00	18-Apr-16 20:00:00		0.00	0.00	0.00	5.04	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	18-Apr-16 19:00:00		10.35	18.92	83.84	88.34
18-Apr-16 20:00:00	18-Apr-16 21:00:00		0.00	0.00	0.00	5.04	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	18-Apr-16 20:00:00		10.35	18.92	83.84	88.34
18-Apr-16 21:00:00	18-Apr-16 22:00:00		0.00	0.00	0.00	5.04	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	18-Apr-16 21:00:00		10.35	18.92	83.84	88.34
18-Apr-16 22:00:00	18-Apr-16 23:00:00		0.00	0.00	0.00	5.04	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	18-Apr-16 22:00:00		10.35	18.92	83.84	88.34
18-Apr-16 23:00:00	19-Apr-16 00:00:00		0.00	0.00	0.00	5.04	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	18-Apr-16 23:00:00		10.35	18.92	83.84	88.34
19-Apr-16 00:00:00	19-Apr-16 01:00:00		0.00	0.00	0.00	5.04	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	19-Apr-16 00:00:00		10.35	18.92	83.84	88.34
19-Apr-16 01:00:00	19-Apr-16 02:00:00		0.00	0.00	0.00	5.04	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	19-Apr-16 01:00:00		10.35	18.92	83.84	88.34
19-Apr-16 02:00:00	19-Apr-16 03:00:00		0.00	0.00	0.00	5.04	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	19-Apr-16 02:00:00		10.35	18.92	83.84	88.34
19-Apr-16 03:00:00	19-Apr-16 04:00:00		0.00	0.00	0.00	5.04	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	19-Apr-16 03:00:00		10.35	18.92	83.84	88.34
19-Apr-16 04:00:00	19-Apr-16 05:00:00		0.00	0.00	0.00	5.04	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	19-Apr-16 04:00:00		10.35	18.92	83.84	88.34
19-Apr-16 05:00:00	19-Apr-16 06:00:00		0.00	0.00	0.00	5.04	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	19-Apr-16 05:00:00		10.35	18.92	83.84	88.34
19-Apr-16 06:00:00	19-Apr-16 07:00:00		0.00	0.00	0.00	5.04	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	19-Apr-16 06:00:00		10.35	18.92	83.84	88.34
19-Apr-16 07:00:00	19-Apr-16 08:00:00		0.00	0.00	0.00	5.04	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	19-Apr-16 07:00:00		10.35	18.92	83.84	88.34
19-Apr-16 08:00:00	19-Apr-16 09:00:00		0.00	0.00	0.00	5.04	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	19-Apr-16 08:00:00		10.35	18.92	83.84	88.34
19-Apr-16 09:00:00	19-Apr-16 10:00:00		0.00	0.00	0.00	6.29	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	19-Apr-16 09:00:00		10.35	18.92	83.84	88.75
19-Apr-16 10:00:00	19-Apr-16 11:00:00		0.00	0.00	0.00	5.92	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	19-Apr-16 10:00:00		10.35	18.92	83.84	88.63
19-Apr-16 11:00:00	19-Apr-16 12:00:00		1.70	0.00	0.00	5.55	2.1	329.7		0.56	0.00	0.00	1.83		10.35	18.92	83.84	86.68	19-Apr-16 11:00:00		10.91	18.92	83.84	88.51
19-Apr-16 12:00:00	19-Apr-16 13:00:00		3.75	0.00	0.00	5.17	2.1	329.7		1.24	0.00	0.00	1.71		10.35	18.92	83.84	86.68	19-Apr-16 12:00:00		11.59	18.92	83.84	88.39
19-Apr-16 13:00:00	19-Apr-16 14:00:00		3.56	0.00	0.00	4.88	2.1	329.7		1.17	0.00	0.00	1.61		10.35	18.92	83.84	86.68	19-Apr-16 13:00:00		11.52	18.92	83.84	88.29
19-Apr-16 14:00:00	19-Apr-16 15:00:00		2.76	0.00	0.00	4.78	2.1	329.7		0.91	0.00	0.00	1.58		10.35	18.92	83.84	86.68	19-Apr-16 14:00:00		11.26	18.92	83.84	88.26
19-Apr-16 15:00:00	19-Apr-16 16:00:00		13.34	0.00	0.00	4.68	2.1	329.7		4.40	0.00	0.00	1.54		10.35	18.92	83.84	86.68	19-Apr-16 15:00:00		14.75	18.92	83.84	88.22
19-Apr-16 16:00:00	19-Apr-16 17:00:00		1.68	0.00	0.00	4.59	2.1	329.7		0.55	0.00	0.00	1.51		10.35	18.92	83.84	86.68	19-Apr-16 16:00:00		10.90	18.92	83.84	88.19
19-Apr-16 17:00:00	19-Apr-16 18:00:00		0.00	0.00	0.00	4.61	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	19-Apr-16 17:00:00		10.35	18.92	83.84	88.20
19-Apr-16 18:00:00	19-Apr-16 19:00:00		0.00	0.00	0.00	4.76	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	19-Apr-16 18:00:00		10.35	18.92	83.84	88.25
19-Apr-16 19:00:00	19-Apr-16 20:00:00		0.00	0.00	0.00	4.92	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	19-Apr-16 19:00:00		10.35	18.92	83.84	88.30
19-Apr-16 20:00:00	19-Apr-16 21:00:00		0.00	0.00	0.00	5.07	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	19-Apr-16 20:00:00		10.35	18.92	83.84	88.35
19-Apr-16 21:00:00	19-Apr-16 22:00:00		5.07	0.00	0.00	5.20	2.1	329.7		1.67	0.00	0.00	1.71		10.35	18.92	83.84	86.68	19-Apr-16 21:00:00		12.02	18.92	83.84	88.39
19-Apr-16 22:00:00	19-Apr-16 23:00:00		5.67	0.00	0.00	5.41	2.1	329.7		1.87	0.00	0.00	1.78		10.35	18.92	83.84	86.68	19-Apr-16 22:00:00		12.22	18.92	83.84	88.46
19-Apr-16 23:00:00	20-Apr-16 00:00:00		2.08	0.00	0.00	5.62	2.1	329.7		0.69	0.00	0.00	1.85		10.35	18.92	83.84	86.68	19-Apr-16 23:00:00		11.04	18.92	83.84	88.53
20-Apr-16 00:00:00	20-Apr-16 01:00:00		7.71	0.00	0.00	5.84	2.1	329.7		2.54	0.00	0.00	1.92		10.35	18.92	83.84	86.68	20-Apr-16 00:00:00		12.89	18.92	83.84	88.60
20-Apr-16 01:00:00	20-Apr-16 02:00:00		5.56	0.00	0.00	5.93	2.1	329.7		1.83	0.00	0.00	1.95		10.35	18.92	83.84	86.68	20-Apr-16 01:00:00		12.18	18.92	83.84	88.63
20-Apr-16 02:00:00	20-Apr-16 03:00:00		6.24	0.00	0.00	6.04	2.1	329.7		2.06	0.00	0.00	1.99		10.35	18.92	83.84	86.68	20-Apr-16 02:00:00		12.41	18.92	83.84	88.67
20-Apr-16 03:00:00	20-Apr-16 04:00:00		0.97	0.00	0.00	6.15	2.1	329.7		0.32	0.00	0.00	2.03		10.35	18.92	83.84	86.68	20-Apr-16 03:00:00		10.67	18.92	83.84	88.71
20-Apr-16 04:00:00	20-Apr-16 05:00:00		0.00	0.00	0.00	6.27	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	20-Apr-16 04:00:00		10.35	18.92	83.84	88.75
20-Apr-16 05:00:00	20-Apr-16 06:00:00		0.00	0.00	0.00	6.37	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	20-Apr-16 05:00:00		10.35	18.92	83.84	88.78
20-Apr-16 06:00:00	20-Apr-16 07:00:00		0.00	0.00	0.00	6.48	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	20-Apr-16 06:00:00		10.35	18.92	83.84	88.82
20-Apr-16 07:00:00	20-Apr-16 08:00:00		0.00	0.00	0.00	6.60	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	20-Apr-16 07:00:00		10.35	18.92	83.84	88.86
20-Apr-16 08:00:00	20-Apr-16 09:00:00		0.00	0.00	0.00	6.71	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	20-Apr-16 08:00:00		10.35	18.92	83.84	88.89
20-Apr-16 09:00:00	20-Apr-16 10:00:00		0.00	0.00	0.00	6.66	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	20-Apr-16 09:00:00		10.35	18.92	83.84	88.88
20-Apr-16 10:00:00	20-Apr-16 11:00:00		0.00	0.00	0.00	6.39	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	20-Apr-16 10:00:00		10.35	18.92	83.84	88.79
20-Apr-16 11:00:00	20-Apr-16 12:00:00		0.00	0.00	0.00	6.12	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	20-Apr-16 11:00:00		10.35	18.92	83.84	88.70
20-Apr-16 12:00:00	20-Apr-16 13:00:00		0.00	0.00	0.00	5.85	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	20-Apr-16 12:00:00		10.35	18.92	83.84	88.61
20-Apr-16 13:00:00	20-Apr-16 14:00:00		2.31	0.00	0.00	5.69	2.1	329.7		0.76	0.00	0.00	1.88		10.35	18.92	83.84	86.68	20-Apr-16 13:00:00		11.11	18.92	83.84	88.56
20-Apr-16 14:00:00	20-Apr-16 15:00:00		0.92	0.00	0.00	5.67	2.1	329.7		0.30	0.00	0.00	1.87		10.35	18.92	83.84	86.68	20-Apr-16 14:00:00		10.65	18.92	83.84	88.55
20-Apr-16 15:00:00	20-Apr-16 16:00:00		3.52	0.00	0.00	5.66	2.1	329.7		1.16	0.00	0.00	1.87		10.35	18.92	83.84	86.68	20-Apr-16 15:00:00		11.51	18.92	83.84	88.55
20-Apr-16 16:00:00	20-Apr-16 17:00:00		2.07	0.00	0.00	5.65	2.1	329.7		0.68	0.00	0.00	1.86		10.35	18.92	83.84	86.68	20-Apr-16 16:00:00		11.03	18.92	83.84	88.54
20-Apr-16 17:00:00	20-Apr-16 18:00:00		11.94	0.00	0.00	5.60	2.1	329.7		3.94	0.00	0.00	1.85		10.35	18.92	83.84	86.68	20-Apr-16 17:00:00		14.29	18.92	83.84	88.53
20-Apr-16 18:00:00	20-Apr-16 19:00:00		14.82	0.00	0.00	5.64	2.1	329.7		4.89	0.00	0.00	1.86		10.35	18.92	83.84	86.68	20-Apr-16 18:00:00		15.24	18.92	83.84	88.54
20-Apr-16 19:00:00	20-Apr-16 20:00:00		7.25	0.00	0.00	5.68	2.1	329.7		2.39	0.00	0.00	1.87		10.35	18.92	83.84	86.68	20-Apr-16 19:00:00		12.74	18.92	83.84	88.55
20-Apr-16 20:00:00	20-Apr-16 21:00:00		8.39	0.00	0.00	5.73	2.1	329.7		2.76	0.00	0.00	1.89		10.35	18.92	83.84	86.68	20-Apr-16 20:00:00		13.11	18.92	83.84	88.57
20-Apr-16 21:00:00	20-Apr-16 22:00:00		4.95	0.00	0.00	5.94	2.1	329.7		1.63	0.00	0.00	1.96		10.35	18.92	83.84	86.68	20-Apr-16 21:00:00		11.98	18.92	83.84	88.64
20-Apr-16 22:00:00	20-Apr-16 23:00:00		4.69	0.00	0.00	6.18	2.1	329.7		1.55	0.00	0.00	2.04		10.35	18.92	83.84	86.68	20-Apr-16 22:00:00		11.90	18.92	83.84	88.72
20-Apr-16 23:00:00	21-Apr-16 00:00:00		3.14	0.00	0.00	6.40	2.1	329.7		1.03	0.00	0.00	2.11		10.35	18.92	83.84	86.68	20-Apr-16 23:00:00		11.38	18.92	83.84	88.79
21-Apr-16 00:00:00	21-Apr-16 01:00:00		1.32	0.00	0.00	6.63	2.1	329.7		0.44	0.00	0.00	2.19		10.35	18.92	83.84	86.68	21-Apr-16 00:00:00		10.79	18.92	83.84	88.87
21-Apr-16 01:00:00	21-Apr-16 02:00:00		0.90	0.00	0.00	6.76	2.1	329.7		0.30	0.00	0.00	2.23		10.35	18.92	83.84	86.68	21-Apr-16 01:00:00		10.65	18.92	83.84	88.91
21-Apr-16 02:00:00	21-Apr-16 03:00:00		0.47	0.00	0.00	6.76	2.1	329.7		0.15	0.00	0.00	2.23		10.35	18.92	83.84	86.68	21-Apr-16 02:00:00		10.50	18.92	83.84	88.91
21-Apr-16 03:00:00	21-Apr-16 04:00:00		0.08	0.00	0.00	6.77	2.1	329.7		0.03	0.00	0.00	2.23		10.35	18.92	83.84	86.68	21-Apr-16 03:00:00		10.38	18.92	83.84	88.91
21-Apr-16 04:00:00	21-Apr-16 05:00:00		0.00	0.00	0.00	6.77

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
23-Apr-16 06:00:00	23-Apr-16 07:00:00		0.00	0.00	0.00	7.04	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	23-Apr-16 06:00:00		10.35	18.92	83.84	89.00
23-Apr-16 07:00:00	23-Apr-16 08:00:00		0.00	0.00	0.00	6.94	2.1	329.7		0.00	0.00	0.00	2.29		10.35	18.92	83.84	86.68	23-Apr-16 07:00:00		10.35	18.92	83.84	88.97
23-Apr-16 08:00:00	23-Apr-16 09:00:00		0.00	0.00	0.00	6.85	2.1	329.7		0.00	0.00	0.00	2.26		10.35	18.92	83.84	86.68	23-Apr-16 08:00:00		10.35	18.92	83.84	88.94
23-Apr-16 09:00:00	23-Apr-16 10:00:00		0.00	0.00	0.00	6.78	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	23-Apr-16 09:00:00		10.35	18.92	83.84	88.92
23-Apr-16 10:00:00	23-Apr-16 11:00:00		1.34	0.00	0.00	6.79	2.1	329.7		0.44	0.00	0.00	2.24		10.35	18.92	83.84	86.68	23-Apr-16 10:00:00		10.79	18.92	83.84	88.92
23-Apr-16 11:00:00	23-Apr-16 12:00:00		3.69	0.00	0.00	6.79	2.1	329.7		1.22	0.00	0.00	2.24		10.35	18.92	83.84	86.68	23-Apr-16 11:00:00		11.57	18.92	83.84	88.92
23-Apr-16 12:00:00	23-Apr-16 13:00:00		5.67	0.00	0.00	6.80	2.1	329.7		1.87	0.00	0.00	2.24		10.35	18.92	83.84	86.68	23-Apr-16 12:00:00		12.22	18.92	83.84	88.92
23-Apr-16 13:00:00	23-Apr-16 14:00:00		8.98	0.00	0.00	6.76	2.1	329.7		2.96	0.00	0.00	2.23		10.35	18.92	83.84	86.68	23-Apr-16 13:00:00		13.31	18.92	83.84	88.91
23-Apr-16 14:00:00	23-Apr-16 15:00:00		0.59	0.00	0.00	6.62	2.1	329.7		0.19	0.00	0.00	2.18		10.35	18.92	83.84	86.68	23-Apr-16 14:00:00		10.54	18.92	83.84	88.86
23-Apr-16 15:00:00	23-Apr-16 16:00:00		4.92	0.00	0.00	6.47	2.1	329.7		1.62	0.00	0.00	2.13		10.35	18.92	83.84	86.68	23-Apr-16 15:00:00		11.97	18.92	83.84	88.81
23-Apr-16 16:00:00	23-Apr-16 17:00:00		2.97	0.00	0.00	6.32	2.1	329.7		0.98	0.00	0.00	2.08		10.35	18.92	83.84	86.68	23-Apr-16 16:00:00		11.33	18.92	83.84	88.76
23-Apr-16 17:00:00	23-Apr-16 18:00:00		1.85	0.00	0.00	6.18	2.1	329.7		0.61	0.00	0.00	2.04		10.35	18.92	83.84	86.68	23-Apr-16 17:00:00		10.96	18.92	83.84	88.72
23-Apr-16 18:00:00	23-Apr-16 19:00:00		0.00	0.00	0.00	6.15	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	23-Apr-16 18:00:00		10.35	18.92	83.84	88.71
23-Apr-16 19:00:00	23-Apr-16 20:00:00		0.00	0.00	0.00	6.13	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	23-Apr-16 19:00:00		10.35	18.92	83.84	88.70
23-Apr-16 20:00:00	23-Apr-16 21:00:00		0.00	0.00	0.00	6.11	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	23-Apr-16 20:00:00		10.35	18.92	83.84	88.69
23-Apr-16 21:00:00	23-Apr-16 22:00:00		0.00	0.00	0.00	5.92	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	23-Apr-16 21:00:00		10.35	18.92	83.84	88.63
23-Apr-16 22:00:00	23-Apr-16 23:00:00		0.00	0.00	0.00	6.09	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	23-Apr-16 22:00:00		10.35	18.92	83.84	88.69
23-Apr-16 23:00:00	24-Apr-16 00:00:00		0.00	0.00	0.00	6.34	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	23-Apr-16 23:00:00		10.35	18.92	83.84	88.77
24-Apr-16 00:00:00	24-Apr-16 01:00:00		3.67	0.00	0.00	6.59	2.1	329.7		1.21	0.00	0.00	2.17		10.35	18.92	83.84	86.68	24-Apr-16 00:00:00		11.56	18.92	83.84	88.85
24-Apr-16 01:00:00	24-Apr-16 02:00:00		6.91	0.00	0.00	6.81	2.1	329.7		2.28	0.00	0.00	2.25		10.35	18.92	83.84	86.68	24-Apr-16 01:00:00		12.63	18.92	83.84	88.93
24-Apr-16 02:00:00	24-Apr-16 03:00:00		3.07	0.00	0.00	6.96	2.1	329.7		1.01	0.00	0.00	2.29		10.35	18.92	83.84	86.68	24-Apr-16 02:00:00		11.36	18.92	83.84	88.97
24-Apr-16 03:00:00	24-Apr-16 04:00:00		0.00	0.00	0.00	7.10	2.1	329.7		0.00	0.00	0.00	2.34		10.35	18.92	83.84	86.68	24-Apr-16 03:00:00		10.35	18.92	83.84	89.02
24-Apr-16 04:00:00	24-Apr-16 05:00:00		0.00	0.00	0.00	7.24	2.1	329.7		0.00	0.00	0.00	2.39		10.35	18.92	83.84	86.68	24-Apr-16 04:00:00		10.35	18.92	83.84	89.07
24-Apr-16 05:00:00	24-Apr-16 06:00:00		0.00	0.00	0.00	7.27	2.1	329.7		0.00	0.00	0.00	2.40		10.35	18.92	83.84	86.68	24-Apr-16 05:00:00		10.35	18.92	83.84	89.08
24-Apr-16 06:00:00	24-Apr-16 07:00:00		0.00	0.00	0.00	7.27	2.1	329.7		0.00	0.00	0.00	2.40		10.35	18.92	83.84	86.68	24-Apr-16 06:00:00		10.35	18.92	83.84	89.08
24-Apr-16 07:00:00	24-Apr-16 08:00:00		0.00	0.00	0.00	7.29	2.1	329.7		0.00	0.00	0.00	2.40		10.35	18.92	83.84	86.68	24-Apr-16 07:00:00		10.35	18.92	83.84	89.08
24-Apr-16 08:00:00	24-Apr-16 09:00:00		0.00	0.00	0.00	7.31	2.1	329.7		0.00	0.00	0.00	2.41		10.35	18.92	83.84	86.68	24-Apr-16 08:00:00		10.35	18.92	83.84	89.09
24-Apr-16 09:00:00	24-Apr-16 10:00:00		0.00	0.00	0.00	7.31	2.1	329.7		0.00	0.00	0.00	2.41		10.35	18.92	83.84	86.68	24-Apr-16 09:00:00		10.35	18.92	83.84	89.09
24-Apr-16 10:00:00	24-Apr-16 11:00:00		0.00	0.00	0.00	7.19	2.1	329.7		0.00	0.00	0.00	2.37		10.35	18.92	83.84	86.68	24-Apr-16 10:00:00		10.35	18.92	83.84	89.05
24-Apr-16 11:00:00	24-Apr-16 12:00:00		0.44	0.00	0.00	7.07	2.1	329.7		0.14	0.00	0.00	2.33		10.35	18.92	83.84	86.68	24-Apr-16 11:00:00		10.49	18.92	83.84	89.01
24-Apr-16 12:00:00	24-Apr-16 13:00:00		0.00	0.00	0.00	6.96	2.1	329.7		0.00	0.00	0.00	2.29		10.35	18.92	83.84	86.68	24-Apr-16 12:00:00		10.35	18.92	83.84	88.97
24-Apr-16 13:00:00	24-Apr-16 14:00:00		1.39	0.00	0.00	6.85	2.1	329.7		0.46	0.00	0.00	2.26		10.35	18.92	83.84	86.68	24-Apr-16 13:00:00		10.81	18.92	83.84	88.94
24-Apr-16 14:00:00	24-Apr-16 15:00:00		0.10	0.00	0.00	6.85	2.1	329.7		0.03	0.00	0.00	2.26		10.35	18.92	83.84	86.68	24-Apr-16 14:00:00		10.38	18.92	83.84	88.94
24-Apr-16 15:00:00	24-Apr-16 16:00:00		0.13	0.00	0.00	6.85	2.1	329.7		0.04	0.00	0.00	2.26		10.35	18.92	83.84	86.68	24-Apr-16 15:00:00		10.39	18.92	83.84	88.94
24-Apr-16 16:00:00	24-Apr-16 17:00:00		5.22	0.00	0.00	6.86	2.1	329.7		1.72	0.00	0.00	2.26		10.35	18.92	83.84	86.68	24-Apr-16 16:00:00		12.07	18.92	83.84	88.94
24-Apr-16 17:00:00	24-Apr-16 18:00:00		16.93	0.00	0.00	6.76	2.1	329.7		5.58	0.00	0.00	2.23		10.35	18.92	83.84	86.68	24-Apr-16 17:00:00		15.93	18.92	83.84	88.91
24-Apr-16 18:00:00	24-Apr-16 19:00:00		6.31	0.00	0.00	6.73	2.1	329.7		2.08	0.00	0.00	2.22		10.35	18.92	83.84	86.68	24-Apr-16 18:00:00		12.43	18.92	83.84	88.90
24-Apr-16 19:00:00	24-Apr-16 20:00:00		5.90	0.00	0.00	6.75	2.1	329.7		1.95	0.00	0.00	2.22		10.35	18.92	83.84	86.68	24-Apr-16 19:00:00		12.30	18.92	83.84	88.90
24-Apr-16 20:00:00	24-Apr-16 21:00:00		5.93	0.00	0.00	6.76	2.1	329.7		1.96	0.00	0.00	2.23		10.35	18.92	83.84	86.68	24-Apr-16 20:00:00		12.31	18.92	83.84	88.91
24-Apr-16 21:00:00	24-Apr-16 22:00:00		4.87	0.00	0.00	6.81	2.1	329.7		1.61	0.00	0.00	2.25		10.35	18.92	83.84	86.68	24-Apr-16 21:00:00		11.96	18.92	83.84	88.93
24-Apr-16 22:00:00	24-Apr-16 23:00:00		4.67	0.00	0.00	6.95	2.1	329.7		1.54	0.00	0.00	2.29		10.35	18.92	83.84	86.68	24-Apr-16 22:00:00		11.89	18.92	83.84	88.97
24-Apr-16 23:00:00	25-Apr-16 00:00:00		0.04	0.00	0.00	7.09	2.1	329.7		0.01	0.00	0.00	2.34		10.35	18.92	83.84	86.68	24-Apr-16 23:00:00		10.36	18.92	83.84	89.02
25-Apr-16 00:00:00	25-Apr-16 01:00:00		0.00	0.00	0.00	7.23	2.1	329.7		0.00	0.00	0.00	2.38		10.35	18.92	83.84	86.68	25-Apr-16 00:00:00		10.35	18.92	83.84	89.06
25-Apr-16 01:00:00	25-Apr-16 02:00:00		0.00	0.00	0.00	7.34	2.1	329.7		0.00	0.00	0.00	2.42		10.35	18.92	83.84	86.68	25-Apr-16 01:00:00		10.35	18.92	83.84	89.10
25-Apr-16 02:00:00	25-Apr-16 03:00:00		0.00	0.00	0.00	7.35	2.1	329.7		0.00	0.00	0.00	2.42		10.35	18.92	83.84	86.68	25-Apr-16 02:00:00		10.35	18.92	83.84	89.10
25-Apr-16 03:00:00	25-Apr-16 04:00:00		0.00	0.00	0.00	7.35	2.1	329.7		0.00	0.00	0.00	2.42		10.35	18.92	83.84	86.68	25-Apr-16 03:00:00		10.35	18.92	83.84	89.10
25-Apr-16 04:00:00	25-Apr-16 05:00:00		0.00	0.00	0.00	7.35	2.1	329.7		0.00	0.00	0.00	2.42		10.35	18.92	83.84	86.68	25-Apr-16 04:00:00		10.35	18.92	83.84	89.10
25-Apr-16 05:00:00	25-Apr-16 06:00:00		0.00	0.00	0.00	7.32	2.1	329.7		0.00	0.00	0.00	2.41		10.35	18.92	83.84	86.68	25-Apr-16 05:00:00		10.35	18.92	83.84	89.09
25-Apr-16 06:00:00	25-Apr-16 07:00:00		0.00	0.00	0.00	7.20	2.1	329.7		0.00	0.00	0.00	2.38		10.35	18.92	83.84	86.68	25-Apr-16 06:00:00		10.35	18.92	83.84	89.06
25-Apr-16 07:00:00	25-Apr-16 08:00:00		0.00	0.00	0.00	7.09	2.1	329.7		0.00	0.00	0.00	2.34		10.35	18.92	83.84	86.68	25-Apr-16 07:00:00		10.35	18.92	83.84	89.02
25-Apr-16 08:00:00	25-Apr-16 09:00:00		0.00	0.00	0.00	6.97	2.1	329.7		0.00	0.00	0.00	2.30		10.35	18.92	83.84	86.68	25-Apr-16 08:00:00		10.35	18.92	83.84	88.98
25-Apr-16 09:00:00	25-Apr-16 10:00:00		0.00	0.00	0.00	6.87	2.1	329.7		0.00	0.00	0.00	2.26		10.35	18.92	83.84	86.68	25-Apr-16 09:00:00		10.35	18.92	83.84	88.94
25-Apr-16 10:00:00	25-Apr-16 11:00:00		0.06	0.00	0.00	6.74	2.1	329.7		0.02	0.00	0.00	2.22		10.35	18.92	83.84	86.68	25-Apr-16 10:00:00		10.37	18.92	83.84	88.90
25-Apr-16 11:00:00	25-Apr-16 12:00:00		0.95	0.00	0.00	6.59	2.1	329.7		0.31	0.00	0.00	2.17		10.35	18.92	83.84	86.68	25-Apr-16 11:00:00		10.66	18.92	83.84	88.85
25-Apr-16 12:00:00	25-Apr-16 13:00:00		0.41	0.00	0.00	6.45	2.1	329.7		0.13	0.00	0.00	2.13		10.35	18.92	83.84	86.68	25-Apr-16 12:00:00		10.48	18.92	83.84	88.81
25-Apr-16 13:00:00	25-Apr-16 14:00:00		5.36	0.00	0.00	6.33	2.1	329.7		1.77	0.00	0.00	2.09		10.35	18.92	83.84	86.68	25-Apr-16 13:00:00		12.12	18.92	83.84	88.77
25-Apr-16 14:00:00	25-Apr-16 15:00:00		0.29	0.00	0.00	6.41	2.1	329.7		0.10	0.00	0.00	2.11		10.35	18.92	83.84	86.68	25-Apr-16 14:00:00		10.45	18.92	83.84	88.79
25-Apr-16 15:00:00	25-Apr-16 16:00:00		7.93	0.00	0.00	6.53	2.1	329.7		2.62	0.00	0.00	2.15		10.35	18.92	83.84	86.68	25-Apr-16 15:00:00		12.97	18.92	83.84	88.83
25-Apr-16 16:00:00	25-Apr-16 17:00:00		4.47	0.00	0.00	6.64	2.1	329.7		1.47	0.00	0.00	2.19		10.35	18.92	83.84	86.68	25-Apr-16 16:00:00		11.82	18.92	83.84	88.87
25-Apr-16 17:00:00	25-Apr-16 18:00:00		7.93	0.00	0.00	6.68	2.1	329.7		2.62	0.00	0.00	2.20		10.35	18.92	83.84	86.68	25-Apr-16 17:00:00		12.97	18.92	83.84	88.88
25-Apr-16 18:00:00	25-Apr-16 19:00:00		9.65	0.00	0.00	6.60	2.1	329.7		3.18	0.00	0.00	2.18		10.35	18.92	83.84	86.68	25-Apr-16 18:00:00		13.53	18.92	83.84	88.86
25-Apr-16 19:00:00	25-Apr-16 20:00:00		3.78	0.00	0.00	6.52	2.1	329.7		1.24	0.00	0.00	2.15		10.35	18.92	83.84	86.68	25-Apr-16 19:00:00		11.59	18.92	83.84	88.83
25-Apr-16 20:00:00	25-Apr-16 21:00:00		0.51	0.00	0.00	6.45	2.1	329.7		0.17	0.00	0.00	2.13		10.35	18.92	83.84	86.68	25-Apr-16 20:00:00		10.52	18.92	83.84	88.81
25-Apr-16 21:00:00	25-Apr-16 22:00:00		1.27	0.00	0.00	6.54	2.1	329.7		0.42	0.00	0.00	2.16		10.35	18.92	83.84	86.68	25-Apr-16 21:00:00		10.77	18.92	83.84	88.84
25-Apr-16 22:00:00	25-Apr-16 23:00:00		3.08	0.00	0.00	6.63	2.1	329.7		1.01	0.00	0.00	2.19		10.35	18.92	83.84	86.68	25-Apr-16 22:00:00		11.36	18.92	83.84	88.87
25-Apr-16 23:00:00	26-Apr-16 00:00:00		8.55	0.00	0.00	6.64	2.1	329.7		2.82	0.00	0.00	2.19		10.35	18.92	83.84	86.68	25-Apr-16 23:00:00		13.17	18.92	83.84	88.87
26-Apr-16 00:00:00	26-Apr-16 01:00:00		4.49	0.00	0.00	6.64	2.1	329.7		1.48	0.00	0.00	2.19		10.35	18.92	83.84	86.68	26-Apr-16 00:00:00		11.83	18.92	83.84	88.87
26-Apr-16 01:00:00	26-Apr-16 02:00:00		0.73	0.00	0.00	6.67	2.1	329.7		0.24	0.00	0.00	2.20		10.35	18.92	83.84	86.68	26-Apr-16 01:00:00		10.59	18.92	83.84	88.88
26-Apr-16 02:00:00	26-Apr-16 03:00:00		1.21	0.00	0.00	6.82	2.1	329.7		0.40	0.00	0.00	2.25		10.35	18.92	83.84	86.68	26-Apr-16 02:00:00		10.75	18.92	83.84	88.93
26-Apr-16 03:00:00	26-Apr-16 04:00:00		1.70	0.00	0.00	6.99	2.1	329.7		0.56	0.00	0.00	2.30		10.35	18.92	83.84	86.68	26-Apr-16 03:00:00		10.91	18.92	83.84	88.98
26-Apr-16 04:00:00	26-Apr-16 05:00:00		1.45	0.00	0.00	7.15	2.1	329.7		0.48	0.00	0.00	2.36		10.35	18.92	83.84	86.68	26-Apr-16 04:00:00		10.83	18.92	83.84	89.04
26-Apr-16 05:00:00	26-Apr-16 06:00:00		0.00	0.00	0.00	7.29	2.1	329.7		0.00	0.00	0.00	2.40		10.35	18.92	83.84	86.68	26-Apr-16 05:00:00		10.35	18.92	83.84	89.08
26-Apr-16 06:00:00	26-Apr-16 07:00:00		0.00	0.00	0.00	7.23	2.1	329.7		0.00	0.00	0.00	2.38		10.35	18.92	83.84	86.68	26-Apr-16 06:00:00		10.35	18.92	83.84	89.06
26-Apr-16 07:00:00	26-Apr-16 08:00:00		0.00	0.00	0.00	7.14	2.1	329.7		0.00	0.00	0.00	2.35		10.35	18.92	83.84	86.68	26-Apr-16 07:00:00		10.35	18.92	83.84	89.03
26-Apr-16 08:00:00	26-Apr-16 09:00:00		0.00	0.00	0.00	7.04	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	26-Apr-16 08:00:00		10.35	18.92	83.84	89.00
26-Apr-16 09:00:00	26-Apr-16 10:00:00		0.00	0.00	0.00	6.95	2.1	329.7		0.00	0.00	0.00	2.29		10.35	18.92	83.84	86.68	26-Apr-16 09:00:00		10.35	18.92	83.84	88.97
26-Apr-16 10:00:00	26-Apr-16 11:00:00		0.32	0.00	0.00	6.86	2.1	329.7		0.11	0.00	0.00	2.26		10.35	18.92	83.84	86.68	26-Apr-16 10:00:00		10.46	18.92	83.84	88.94
26-Apr-16 11:00:00	26-Apr-16 12:00:00		0.00	0.00	0.00	6.79	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	26-Apr-16 11:00:00		10.35	18.92	83.84	88.92
26-Apr-16 12:00:00	26-Apr-16 13:00:00		2.78	0.00	0.00	6.52	2.1	329.7		0.92	0.00	0.00	2.15		10.35	18.92	83.84	86.68	26-Apr-16 12:00:00		11.27	18.92	83.84	88.83
26-Apr-16 13:00:00	26-Apr-16 14:00:00		1.62	0.00	0.00	6.55	2.1	329.7		0.54	0.00	0.00	2.16		10.35	18.92	83.84	86.68	26-Apr-16 13:00:00		10.89	18.92	83.84	88.84
26-Apr-16 14:00:00	26-Apr-16 15:00:00		1.13	0.00	0.00	6.60	2.1	329.7		0.37	0.00	0.00	2.18		10.35	18.92	83.84	86.68	26-Apr-16 14:00:00		10.72	18.92	83.84	88.86
26-Apr-16 15:00:00	26-Apr-16 16:00:00		0.00	0.00	0.00	6.66	2.1	329.7		0.00	0.00	0.00	2.19		10.35	18.92	83.84	86.68	26-Apr-16 15:00:00		10.35	18.92	83.84	88.87
26-Apr-16 16:00:00	26-Apr-16 17:00:00		5.17	0.00	0.00	6.69	2.1	329.7		1.71	0.00	0.00	2.20		10.35	18.92	83.84	86.68	26-Apr-16 16:00:00		12.06	18.92	83.84	88.88
26-Apr-16 17:00:00	26-Apr-16 18:00:00		9.75	0.00	0.00	6.58	2.1	329.7		3.22	0.00	0.00	2.17		10.35	18.92	83.84	86.68	26-Apr-16 17:00:00		13.57	18.92	83.84	88.85
26-Apr-16 18:00:00	26-Apr-16 19:00:00		7.93	0.00	0.00	6.46	2.1	329.7		2.61	0.00	0.00	2.13		10.35	18.92	83.84	86.68	26-Apr-16 18:00:00		12.96	18.92	83.84	88.81
26-Apr-16 19:00:00	26-Apr-16 20:00:00		7.74	0.00	0.00	6.35	2.1	329.7		2.55	0.00	0.00	2.09		10.35	18.92	83.84	86.68	26-Apr-16 19:00:00		12.90	18.92	83.84	88.77
26-Apr-16 20:00:00	26-Apr-16 21:00:00		5.06	0.00	0.00	6.26	2.1	329.7		1.67	0.00	0.00	2.06		10.35	18.92	83.84	86.68	26-Apr-16 20:00:00		12.02	18.92	83.84	88.74
26-Apr-16 21:00:00	26-Apr-16 22:00:00		1.60	0.00	0.00	6.35	2.1	329.7		0.53	0.00	0.00	2.10		10.35	18.92	83.84	86.68	26-Apr-16 21:00:00		10.88	18.92	83.84	88.78
26-Apr-16 22:00:00	26-Apr-16 23:00:00		0.81	0.00	0.00	6.48	2.1	329.7		0.27	0.00	0.00	2.14		10.35	18.92	83.84	86.68	26-Apr-16 22:00:00		10.62	18.92	83.84	88.82
26-Apr-16 23:00:00	27-Apr-16 00:00:00		0.79	0.00	0.00	6.61	2.1	329.7		0.26	0.00	0.00	2.18		10.35	18.92	83.84	86.68	26-Apr-16 23:00:00		10.61	18.92	83.84	88.86
27-Apr-16 00:00:00	27-Apr-16 01:00:00		2.49	0.00	0.00	6.73	2.1	329.7		0.82	0.00	0.00	2.22		10.35	18.92	83.84	86.68	27-Apr-16 00:00:00		11.17	18.92	83.84	88.90
27-Apr-16 01:00:00	27-Apr-16 02:00:00		2.25	0.00	0.00	6.74	2.1	329.7		0.74	0.00	0.00	2.22		10.35	18.92	83.84	86.68	27-Apr-16 01:00:00		11.09	18.92	83.84	88.90
27-Apr-16 02:00:00	27-Apr-16 03:00:00		1.50	0.00	0.00	6.75	2.1	329.7		0.49	0.00	0.00	2.23		10.35	18.92	83.84	86.68	27-Apr-16 02:00:00		10.84	18.92	83.84	88.91
27-Apr-16 03:00:00	27-Apr-16 04:00:00		0.77	0.00	0.00	6.77

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
29-Apr-16 05:00:00	29-Apr-16 06:00:00		1.26	0.00	0.00	6.81	2.1	329.7		0.41	0.00	0.00	2.24		10.35	18.92	83.84	86.68	29-Apr-16 05:00:00		10.76	18.92	83.84	88.92
29-Apr-16 06:00:00	29-Apr-16 07:00:00		1.64	0.00	0.00	6.88	2.1	329.7		0.54	0.00	0.00	2.27		10.35	18.92	83.84	86.68	29-Apr-16 06:00:00		10.89	18.92	83.84	88.95
29-Apr-16 07:00:00	29-Apr-16 08:00:00		3.30	0.00	0.00	6.96	2.1	329.7		1.09	0.00	0.00	2.30		10.35	18.92	83.84	86.68	29-Apr-16 07:00:00		11.44	18.92	83.84	88.98
29-Apr-16 08:00:00	29-Apr-16 09:00:00		3.80	0.00	0.00	7.03	2.1	329.7		1.25	0.00	0.00	2.32		10.35	18.92	83.84	86.68	29-Apr-16 08:00:00		11.60	18.92	83.84	89.00
29-Apr-16 09:00:00	29-Apr-16 10:00:00		1.08	0.00	0.00	6.81	2.1	329.7		0.36	0.00	0.00	2.25		10.35	18.92	83.84	86.68	29-Apr-16 09:00:00		10.71	18.92	83.84	88.93
29-Apr-16 10:00:00	29-Apr-16 11:00:00		0.33	0.00	0.00	6.47	2.1	329.7		0.11	0.00	0.00	2.13		10.35	18.92	83.84	86.68	29-Apr-16 10:00:00		10.46	18.92	83.84	88.81
29-Apr-16 11:00:00	29-Apr-16 12:00:00		3.13	35.75	0.00	6.12	2.1	329.7		1.03	11.79	0.00	2.02		10.35	18.92	83.84	86.68	29-Apr-16 11:00:00		11.38	30.71	83.84	88.70
29-Apr-16 12:00:00	29-Apr-16 13:00:00		0.00	0.00	0.00	5.78	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	29-Apr-16 12:00:00		10.35	18.92	83.84	88.58
29-Apr-16 13:00:00	29-Apr-16 14:00:00		11.33	71.70	0.00	5.63	2.1	329.7		3.73	23.64	0.00	1.86		10.35	18.92	83.84	86.68	29-Apr-16 13:00:00		14.08	42.56	83.84	88.54
29-Apr-16 14:00:00	29-Apr-16 15:00:00		5.96	0.00	0.00	5.60	2.1	329.7		1.96	0.00	0.00	1.85		10.35	18.92	83.84	86.68	29-Apr-16 14:00:00		12.31	18.92	83.84	88.53
29-Apr-16 15:00:00	29-Apr-16 16:00:00		1.87	0.00	0.00	5.57	2.1	329.7		0.62	0.00	0.00	1.84		10.35	18.92	83.84	86.68	29-Apr-16 15:00:00		10.97	18.92	83.84	88.52
29-Apr-16 16:00:00	29-Apr-16 17:00:00		1.29	0.00	0.00	5.55	2.1	329.7		0.43	0.00	0.00	1.83		10.35	18.92	83.84	86.68	29-Apr-16 16:00:00		10.78	18.92	83.84	88.51
29-Apr-16 17:00:00	29-Apr-16 18:00:00		0.71	0.00	0.00	5.66	2.1	329.7		0.23	0.00	0.00	1.87		10.35	18.92	83.84	86.68	29-Apr-16 17:00:00		10.58	18.92	83.84	88.55
29-Apr-16 18:00:00	29-Apr-16 19:00:00		0.15	0.00	0.00	5.81	2.1	329.7		0.05	0.00	0.00	1.92		10.35	18.92	83.84	86.68	29-Apr-16 18:00:00		10.40	18.92	83.84	88.60
29-Apr-16 19:00:00	29-Apr-16 20:00:00		0.00	0.00	0.00	5.95	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	29-Apr-16 19:00:00		10.35	18.92	83.84	88.64
29-Apr-16 20:00:00	29-Apr-16 21:00:00		0.00	0.00	0.00	6.10	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	29-Apr-16 20:00:00		10.35	18.92	83.84	88.69
29-Apr-16 21:00:00	29-Apr-16 22:00:00		0.00	0.00	0.00	6.28	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	29-Apr-16 21:00:00		10.35	18.92	83.84	88.75
29-Apr-16 22:00:00	29-Apr-16 23:00:00		3.87	0.00	0.00	6.45	2.1	329.7		1.27	0.00	0.00	2.13		10.35	18.92	83.84	86.68	29-Apr-16 22:00:00		11.62	18.92	83.84	88.81
29-Apr-16 23:00:00	30-Apr-16 00:00:00		0.40	0.00	0.00	6.63	2.1	329.7		0.13	0.00	0.00	2.19		10.35	18.92	83.84	86.68	29-Apr-16 23:00:00		10.48	18.92	83.84	88.87
30-Apr-16 00:00:00	30-Apr-16 01:00:00		1.45	0.00	0.00	6.82	2.1	329.7		0.48	0.00	0.00	2.25		10.35	18.92	83.84	86.68	30-Apr-16 00:00:00		10.83	18.92	83.84	88.93
30-Apr-16 01:00:00	30-Apr-16 02:00:00		10.00	0.00	0.00	7.08	2.1	329.7		3.30	0.00	0.00	2.33		10.35	18.92	83.84	86.68	30-Apr-16 01:00:00		13.65	18.92	83.84	89.01
30-Apr-16 02:00:00	30-Apr-16 03:00:00		10.32	0.00	0.00	7.17	2.1	329.7		3.40	0.00	0.00	2.36		10.35	18.92	83.84	86.68	30-Apr-16 02:00:00		13.75	18.92	83.84	89.04
30-Apr-16 03:00:00	30-Apr-16 04:00:00		3.75	35.69	0.00	7.26	2.1	329.7		1.24	11.77	0.00	2.39		10.35	18.92	83.84	86.68	30-Apr-16 03:00:00		11.59	30.69	83.84	89.07
30-Apr-16 04:00:00	30-Apr-16 05:00:00		2.50	107.25	0.00	7.34	2.1	329.7		0.82	35.36	0.00	2.42		10.35	18.92	83.84	86.68	30-Apr-16 04:00:00		11.17	54.28	83.84	89.10
30-Apr-16 05:00:00	30-Apr-16 06:00:00		0.46	0.00	0.00	7.43	2.1	329.7		0.15	0.00	0.00	2.45		10.35	18.92	83.84	86.68	30-Apr-16 05:00:00		10.50	18.92	83.84	89.13
30-Apr-16 06:00:00	30-Apr-16 07:00:00		0.00	0.00	0.00	7.57	2.1	329.7		0.00	0.00	0.00	2.50		10.35	18.92	83.84	86.68	30-Apr-16 06:00:00		10.35	18.92	83.84	89.18
30-Apr-16 07:00:00	30-Apr-16 08:00:00		0.00	0.00	0.00	7.71	2.1	329.7		0.00	0.00	0.00	2.54		10.35	18.92	83.84	86.68	30-Apr-16 07:00:00		10.35	18.92	83.84	89.22
30-Apr-16 08:00:00	30-Apr-16 09:00:00		0.00	0.00	0.00	7.85	2.1	329.7		0.00	0.00	0.00	2.59		10.35	18.92	83.84	86.68	30-Apr-16 08:00:00		10.35	18.92	83.84	89.27
30-Apr-16 09:00:00	30-Apr-16 10:00:00		0.34	0.00	0.00	7.76	2.1	329.7		0.11	0.00	0.00	2.56		10.35	18.92	83.84	86.68	30-Apr-16 09:00:00		10.46	18.92	83.84	89.24
30-Apr-16 10:00:00	30-Apr-16 11:00:00		1.13	0.00	0.00	7.47	2.1	329.7		0.37	0.00	0.00	2.46		10.35	18.92	83.84	86.68	30-Apr-16 10:00:00		10.72	18.92	83.84	89.14
30-Apr-16 11:00:00	30-Apr-16 12:00:00		1.94	0.00	0.00	7.19	2.1	329.7		0.64	0.00	0.00	2.37		10.35	18.92	83.84	86.68	30-Apr-16 11:00:00		10.99	18.92	83.84	89.05
30-Apr-16 12:00:00	30-Apr-16 13:00:00		4.04	262.54	0.00	6.90	2.1	329.7		1.33	86.56	0.00	2.28		10.35	18.92	83.84	86.68	30-Apr-16 12:00:00		11.68	105.48	83.84	88.96
30-Apr-16 13:00:00	30-Apr-16 14:00:00		4.88	464.09	0.00	6.79	2.1	329.7		1.61	153.01	0.00	2.24		10.35	18.92	83.84	86.68	30-Apr-16 13:00:00		11.96	171.93	83.84	88.92
30-Apr-16 14:00:00	30-Apr-16 15:00:00		0.41	464.57	0.00	6.70	2.1	329.7		0.14	153.17	0.00	2.21		10.35	18.92	83.84	86.68	30-Apr-16 14:00:00		10.49	172.09	83.84	88.89
30-Apr-16 15:00:00	30-Apr-16 16:00:00		0.83	321.94	0.00	6.61	2.1	329.7		0.27	106.14	0.00	2.18		10.35	18.92	83.84	86.68	30-Apr-16 15:00:00		10.62	125.06	83.84	88.86
30-Apr-16 16:00:00	30-Apr-16 17:00:00		2.72	0.00	0.00	6.52	2.1	329.7		0.90	0.00	0.00	2.15		10.35	18.92	83.84	86.68	30-Apr-16 16:00:00		11.25	18.92	83.84	88.83
30-Apr-16 17:00:00	30-Apr-16 18:00:00		0.00	35.70	0.00	6.59	2.1	329.7		0.00	11.77	0.00	2.17		10.35	18.92	83.84	86.68	30-Apr-16 17:00:00		10.35	30.69	83.84	88.85
30-Apr-16 18:00:00	30-Apr-16 19:00:00		0.00	107.19	0.00	6.80	2.1	329.7		0.00	35.34	0.00	2.24		10.35	18.92	83.84	86.68	30-Apr-16 18:00:00		10.35	54.26	83.84	88.92
30-Apr-16 19:00:00	30-Apr-16 20:00:00		0.11	293.00	0.00	13.58	2.1	329.7		0.04	96.60	0.00	4.48		10.35	18.92	83.84	86.68	30-Apr-16 19:00:00		10.39	115.52	83.84	91.16
30-Apr-16 20:00:00	30-Apr-16 21:00:00		0.26	103.60	0.00	6.95	2.1	329.7		0.08	34.16	0.00	2.29		10.35	18.92	83.84	86.68	30-Apr-16 20:00:00		10.43	53.08	83.84	88.97
30-Apr-16 21:00:00	30-Apr-16 22:00:00		0.56	72.36	0.00	7.03	2.1	329.7		0.19	23.86	0.00	2.32		10.35	18.92	83.84	86.68	30-Apr-16 21:00:00		10.54	42.78	83.84	89.00
30-Apr-16 22:00:00	30-Apr-16 23:00:00		1.28	437.43	0.00	7.10	2.1	329.7		0.42	144.22	0.00	2.34		10.35	18.92	83.84	86.68	30-Apr-16 22:00:00		10.77	163.14	83.84	89.02
30-Apr-16 23:00:00	01-May-16 00:00:00		0.00	578.58	0.00	7.12	2.1	329.7		0.00	190.76	0.00	2.35		10.35	18.92	83.84	86.68	30-Apr-16 23:00:00		10.35	209.68	83.84	89.03
01-May-16 00:00:00	01-May-16 01:00:00		4.12	71.51	0.00	7.15	2.1	329.7		1.36	23.58	0.00	2.36		10.35	18.92	83.84	86.68	01-May-16 00:00:00		11.71	42.50	83.84	89.04
01-May-16 01:00:00	01-May-16 02:00:00		2.62	71.48	0.00	7.21	2.1	329.7		0.86	23.57	0.00	2.38		10.35	18.92	83.84	86.68	01-May-16 01:00:00		11.21	42.49	83.84	89.06
01-May-16 02:00:00	01-May-16 03:00:00		0.29	250.82	0.00	7.28	2.1	329.7		0.10	82.69	0.00	2.40		10.35	18.92	83.84	86.68	01-May-16 02:00:00		10.45	101.61	83.84	89.08
01-May-16 03:00:00	01-May-16 04:00:00		9.06	146.38	0.00	7.33	2.1	329.7		2.99	48.26	0.00	2.42		10.35	18.92	83.84	86.68	01-May-16 03:00:00		13.34	67.18	83.84	89.10
01-May-16 04:00:00	01-May-16 05:00:00		11.29	210.98	0.00	7.35	2.1	329.7		3.72	69.56	0.00	2.42		10.35	18.92	83.84	86.68	01-May-16 04:00:00		14.07	88.48	83.84	89.10
01-May-16 05:00:00	01-May-16 06:00:00		1.76	42.43	0.00	7.36	2.1	329.7		0.58	13.99	0.00	2.43		10.35	18.92	83.84	86.68	01-May-16 05:00:00		10.93	32.91	83.84	89.11
01-May-16 06:00:00	01-May-16 07:00:00		0.84	207.53	0.00	7.37	2.1	329.7		0.28	68.42	0.00	2.43		10.35	18.92	83.84	86.68	01-May-16 06:00:00		10.63	87.34	83.84	89.11
01-May-16 07:00:00	01-May-16 08:00:00		0.52	0.00	0.00	7.81	2.1	329.7		0.17	0.00	0.00	2.58		10.35	18.92	83.84	86.68	01-May-16 07:00:00		10.52	18.92	83.84	89.26
01-May-16 08:00:00	01-May-16 09:00:00		0.21	178.34	0.00	20.63	2.1	329.7		0.07	58.80	0.00	6.80		10.35	18.92	83.84	86.68	01-May-16 08:00:00		10.42	77.72	83.84	93.48
01-May-16 09:00:00	01-May-16 10:00:00		0.32	0.00	39.64	74.85	2.1	329.7		0.10	0.00	13.07	24.68		10.35	18.92	83.84	86.68	01-May-16 09:00:00		10.45	18.92	96.91	111.36
01-May-16 10:00:00	01-May-16 11:00:00		0.53	707.37	549.83	7.57	2.1	329.7		0.18	233.22	181.28	2.50		10.35	18.92	83.84	86.68	01-May-16 10:00:00		10.53	252.14	265.12	89.18
01-May-16 11:00:00	01-May-16 12:00:00		0.00	71.72	564.61	7.75	2.1	329.7		0.00	23.65	186.15	2.55		10.35	18.92	83.84	86.68	01-May-16 11:00:00		10.35	42.57	269.99	89.23
01-May-16 12:00:00	01-May-16 13:00:00		0.00	0.00	527.51	291.35	2.1	329.7		0.00	0.00	173.92	96.06		10.35	18.92	83.84	86.68	01-May-16 12:00:00		10.35	18.92	257.76	182.74
01-May-16 13:00:00	01-May-16 14:00:00		0.00	0.00	387.18	277.39	2.1	329.7		0.00	0.00	127.65	91.46		10.35	18.92	83.84	86.68	01-May-16 13:00:00		10.35	18.92	211.49	178.14
01-May-16 14:00:00	01-May-16 15:00:00		0.03	0.00	356.14	272.85	2.1	329.7		0.01	0.00	117.42	89.96		10.35	18.92	83.84	86.68	01-May-16 14:00:00		10.36	18.92	201.26	176.64
01-May-16 15:00:00	01-May-16 16:00:00		1.25	0.00	200.21	271.78	2.1	329.7		0.41	0.00	66.01	89.61		10.35	18.92	83.84	86.68	01-May-16 15:00:00		10.76	18.92	149.85	176.29
01-May-16 16:00:00	01-May-16 17:00:00		0.00	0.00	180.20	270.72	2.1	329.7		0.00	0.00	59.41	89.26		10.35	18.92	83.84	86.68	01-May-16 16:00:00		10.35	18.92	143.25	175.94
01-May-16 17:00:00	01-May-16 18:00:00		0.00	0.00	228.08	321.61	2.1	329.7		0.00	0.00	75.20	106.04		10.35	18.92	83.84	86.68	01-May-16 17:00:00		10.35	18.92	159.04	192.72
01-May-16 18:00:00	01-May-16 19:00:00		0.00	0.00	0.00	6.89	2.1	329.7		0.00	0.00	0.00	2.27		10.35	18.92	83.84	86.68	01-May-16 18:00:00		10.35	18.92	83.84	88.95
01-May-16 19:00:00	01-May-16 20:00:00		0.00	0.00	0.00	6.49	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	01-May-16 19:00:00		10.35	18.92	83.84	88.82
01-May-16 20:00:00	01-May-16 21:00:00		0.00	0.00	0.00	6.60	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	01-May-16 20:00:00		10.35	18.92	83.84	88.86
01-May-16 21:00:00	01-May-16 22:00:00		0.00	0.00	0.00	6.72	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	01-May-16 21:00:00		10.35	18.92	83.84	88.90
01-May-16 22:00:00	01-May-16 23:00:00		0.00	0.00	0.00	152.31	2.1	329.7		0.00	0.00	0.00	50.22		10.35	18.92	83.84	86.68	01-May-16 22:00:00		10.35	18.92	83.84	136.90
01-May-16 23:00:00	02-May-16 00:00:00		1.22	0.00	0.00	386.78	2.1	329.7		0.40	0.00	0.00	127.52		10.35	18.92	83.84	86.68	01-May-16 23:00:00		10.75	18.92	83.84	214.20
02-May-16 00:00:00	02-May-16 01:00:00		0.16	0.00	0.00	23.86	2.1	329.7		0.05	0.00	0.00	7.87		10.35	18.92	83.84	86.68	02-May-16 00:00:00		10.40	18.92	83.84	94.55
02-May-16 01:00:00	02-May-16 02:00:00		0.00	0.00	0.00	8.29	2.1	329.7		0.00	0.00	0.00	2.73		10.35	18.92	83.84	86.68	02-May-16 01:00:00		10.35	18.92	83.84	89.41
02-May-16 02:00:00	02-May-16 03:00:00		0.00	0.00	0.00	6.97	2.1	329.7		0.00	0.00	0.00	2.30		10.35	18.92	83.84	86.68	02-May-16 02:00:00		10.35	18.92	83.84	88.98
02-May-16 03:00:00	02-May-16 04:00:00		0.00	0.00	0.00	6.90	2.1	329.7		0.00	0.00	0.00	2.27		10.35	18.92	83.84	86.68	02-May-16 03:00:00		10.35	18.92	83.84	88.95
02-May-16 04:00:00	02-May-16 05:00:00		0.00	0.00	0.00	6.83	2.1	329.7		0.00	0.00	0.00	2.25		10.35	18.92	83.84	86.68	02-May-16 04:00:00		10.35	18.92	83.84	88.93
02-May-16 05:00:00	02-May-16 06:00:00		0.00	0.00	0.00	6.77	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	02-May-16 05:00:00		10.35	18.92	83.84	88.91
02-May-16 06:00:00	02-May-16 07:00:00		0.00	0.00	0.00	6.76	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	02-May-16 06:00:00		10.35	18.92	83.84	88.91
02-May-16 07:00:00	02-May-16 08:00:00		0.00	0.00	0.00	6.74	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	02-May-16 07:00:00		10.35	18.92	83.84	88.90
02-May-16 08:00:00	02-May-16 09:00:00		0.00	0.00	0.00	6.73	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	02-May-16 08:00:00		10.35	18.92	83.84	88.90
02-May-16 09:00:00	02-May-16 10:00:00		0.00	0.00	0.00	6.68	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	02-May-16 09:00:00		10.35	18.92	83.84	88.88
02-May-16 10:00:00	02-May-16 11:00:00		0.00	0.00	0.00	6.56	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	02-May-16 10:00:00		10.35	18.92	83.84	88.84
02-May-16 11:00:00	02-May-16 12:00:00		0.00	0.00	0.00	6.43	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	02-May-16 11:00:00		10.35	18.92	83.84	88.80
02-May-16 12:00:00	02-May-16 13:00:00		0.00	0.00	0.00	6.31	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	02-May-16 12:00:00		10.35	18.92	83.84	88.76
02-May-16 13:00:00	02-May-16 14:00:00		0.71	0.00	0.00	6.19	2.1	329.7		0.23	0.00	0.00	2.04		10.35	18.92	83.84	86.68	02-May-16 13:00:00		10.58	18.92	83.84	88.72
02-May-16 14:00:00	02-May-16 15:00:00		0.70	0.00	0.00	66.61	2.1	329.7		0.23	0.00	0.00	21.96		10.35	18.92	83.84	86.68	02-May-16 14:00:00		10.58	18.92	83.84	108.64
02-May-16 15:00:00	02-May-16 16:00:00		0.48	0.00	0.00	19.52	2.1	329.7		0.16	0.00	0.00	6.44		10.35	18.92	83.84	86.68	02-May-16 15:00:00		10.51	18.92	83.84	93.12
02-May-16 16:00:00	02-May-16 17:00:00		0.26	0.00	0.00	6.54	2.1	329.7		0.09	0.00	0.00	2.16		10.35	18.92	83.84	86.68	02-May-16 16:00:00		10.44	18.92	83.84	88.84
02-May-16 17:00:00	02-May-16 18:00:00		0.86	0.00	0.00	6.61	2.1	329.7		0.28	0.00	0.00	2.18		10.35	18.92	83.84	86.68	02-May-16 17:00:00		10.63	18.92	83.84	88.86
02-May-16 18:00:00	02-May-16 19:00:00		7.89	0.00	0.00	6.68	2.1	329.7		2.60	0.00	0.00	2.20		10.35	18.92	83.84	86.68	02-May-16 18:00:00		12.95	18.92	83.84	88.88
02-May-16 19:00:00	02-May-16 20:00:00		96.68	0.00	0.00	6.76	2.1	329.7		31.87	0.00	0.00	2.23		10.35	18.92	83.84	86.68	02-May-16 19:00:00		42.22	18.92	83.84	88.91
02-May-16 20:00:00	02-May-16 21:00:00		359.55	0.00	0.00	6.78	2.1	329.7		118.54	0.00	0.00	2.23		10.35	18.92	83.84	86.68	02-May-16 20:00:00		128.89	18.92	83.84	88.91
02-May-16 21:00:00	02-May-16 22:00:00		355.65	0.00	0.00	6.77	2.1	329.7		117.26	0.00	0.00	2.23		10.35	18.92	83.84	86.68	02-May-16 21:00:00		127.61	18.92	83.84	88.91
02-May-16 22:00:00	02-May-16 23:00:00		564.87	0.00	0.00	6.77	2.1	329.7		186.24	0.00	0.00	2.23		10.35	18.92	83.84	86.68	02-May-16 22:00:00		196.59	18.92	83.84	88.91
02-May-16 23:00:00	03-May-16 00:00:00		606.04	0.00	0.00	6.78	2.1	329.7		199.81	0.00	0.00	2.23		10.35	18.92	83.84	86.68	02-May-16 23:00:00		210.16	18.92	83.84	88.91
03-May-16 00:00:00	03-May-16 01:00:00		720.30	0.00	0.00	6.91	2.1	329.7		237.48	0.00	0.00	2.28		10.35	18.92	83.84	86.68	03-May-16 00:00:00		247.83	18.92	83.84	88.96
03-May-16 01:00:00	03-May-16 02:00:00		900.56	0.00	0.00	7.04	2.1	329.7		296.92	0.00	0.00	2.32		10.35	18.92	83.84	86.68	03-May-16 01:00:00		307.27	18.92	83.84	89.00
03-May-16 02:00:00	03-May-16 03:00:00		1,021.03	0.00	0.00	7.17	2.1	329.7		336.63	0.00	0.00	2.36		10.35	18.92	83.84	86.68	03-May-16 02:00:00		346.98	18.92	83.84	89.04
03-May-16 03:00:00	03-May-16 04:00:00		1,226.91	0.00	0.00	7.30	2.1	329.7		404.51	0.00	0.00	2.41		10.35	18.92	83.84	86.68	03-May-16 03:00:00		414.86	18.92	83.84	89.09
03-May-16 04:00:00	03-May-16 05:00:00		1,229.42	0.

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
05-May-16 04:00:00	05-May-16 05:00:00		0.00	0.00	0.00	344.41	2.1	329.7		0.00	0.00	0.00	113.55		10.35	18.92	83.84	86.68	05-May-16 04:00:00		10.35	18.92	83.84	200.23
05-May-16 05:00:00	05-May-16 06:00:00		0.00	0.00	0.00	273.33	2.1	329.7		0.00	0.00	0.00	90.12		10.35	18.92	83.84	86.68	05-May-16 05:00:00		10.35	18.92	83.84	176.80
05-May-16 06:00:00	05-May-16 07:00:00		0.00	0.00	0.00	270.48	2.1	329.7		0.00	0.00	0.00	89.18		10.35	18.92	83.84	86.68	05-May-16 06:00:00		10.35	18.92	83.84	175.86
05-May-16 07:00:00	05-May-16 08:00:00		0.00	0.00	0.00	269.71	2.1	329.7		0.00	0.00	0.00	88.92		10.35	18.92	83.84	86.68	05-May-16 07:00:00		10.35	18.92	83.84	175.60
05-May-16 08:00:00	05-May-16 09:00:00		0.00	0.00	0.00	354.66	2.1	329.7		0.00	0.00	0.00	116.93		10.35	18.92	83.84	86.68	05-May-16 08:00:00		10.35	18.92	83.84	203.61
05-May-16 09:00:00	05-May-16 10:00:00		0.00	0.00	0.00	446.26	2.1	329.7		0.00	0.00	0.00	147.13		10.35	18.92	83.84	86.68	05-May-16 09:00:00		10.35	18.92	83.84	233.81
05-May-16 10:00:00	05-May-16 11:00:00		0.00	0.00	0.00	480.54	2.1	329.7		0.00	0.00	0.00	158.44		10.35	18.92	83.84	86.68	05-May-16 10:00:00		10.35	18.92	83.84	245.12
05-May-16 11:00:00	05-May-16 12:00:00		0.00	0.00	0.00	547.84	2.1	329.7		0.00	0.00	0.00	180.62		10.35	18.92	83.84	86.68	05-May-16 11:00:00		10.35	18.92	83.84	267.30
05-May-16 12:00:00	05-May-16 13:00:00		0.00	0.00	0.00	443.22	2.1	329.7		0.00	0.00	0.00	146.13		10.35	18.92	83.84	86.68	05-May-16 12:00:00		10.35	18.92	83.84	232.81
05-May-16 13:00:00	05-May-16 14:00:00		0.00	0.00	0.00	332.01	2.1	329.7		0.00	0.00	0.00	109.46		10.35	18.92	83.84	86.68	05-May-16 13:00:00		10.35	18.92	83.84	196.14
05-May-16 14:00:00	05-May-16 15:00:00		0.00	0.00	0.00	332.60	2.1	329.7		0.00	0.00	0.00	109.66		10.35	18.92	83.84	86.68	05-May-16 14:00:00		10.35	18.92	83.84	196.34
05-May-16 15:00:00	05-May-16 16:00:00		0.00	0.00	0.00	379.34	2.1	329.7		0.00	0.00	0.00	125.07		10.35	18.92	83.84	86.68	05-May-16 15:00:00		10.35	18.92	83.84	211.75
05-May-16 16:00:00	05-May-16 17:00:00		0.00	0.00	0.00	536.77	2.1	329.7		0.00	0.00	0.00	176.97		10.35	18.92	83.84	86.68	05-May-16 16:00:00		10.35	18.92	83.84	263.65
05-May-16 17:00:00	05-May-16 18:00:00		0.00	0.00	0.00	357.48	2.1	329.7		0.00	0.00	0.00	117.86		10.35	18.92	83.84	86.68	05-May-16 17:00:00		10.35	18.92	83.84	204.54
05-May-16 18:00:00	05-May-16 19:00:00		0.00	0.00	0.00	538.15	2.1	329.7		0.00	0.00	0.00	177.43		10.35	18.92	83.84	86.68	05-May-16 18:00:00		10.35	18.92	83.84	264.11
05-May-16 19:00:00	05-May-16 20:00:00		0.00	0.00	0.00	588.78	2.1	329.7		0.00	0.00	0.00	194.12		10.35	18.92	83.84	86.68	05-May-16 19:00:00		10.35	18.92	83.84	280.80
05-May-16 20:00:00	05-May-16 21:00:00		0.00	0.00	0.00	609.63	2.1	329.7		0.00	0.00	0.00	201.00		10.35	18.92	83.84	86.68	05-May-16 20:00:00		10.35	18.92	83.84	287.68
05-May-16 21:00:00	05-May-16 22:00:00		0.00	0.00	0.00	82.14	2.1	329.7		0.00	0.00	0.00	27.08		10.35	18.92	83.84	86.68	05-May-16 21:00:00		10.35	18.92	83.84	113.76
05-May-16 22:00:00	05-May-16 23:00:00		0.00	0.00	0.00	8.00	2.1	329.7		0.00	0.00	0.00	2.64		10.35	18.92	83.84	86.68	05-May-16 22:00:00		10.35	18.92	83.84	89.32
05-May-16 23:00:00	06-May-16 00:00:00		0.00	0.00	0.00	8.15	2.1	329.7		0.00	0.00	0.00	2.69		10.35	18.92	83.84	86.68	05-May-16 23:00:00		10.35	18.92	83.84	89.37
06-May-16 00:00:00	06-May-16 01:00:00		0.00	0.00	0.00	8.29	2.1	329.7		0.00	0.00	0.00	2.73		10.35	18.92	83.84	86.68	06-May-16 00:00:00		10.35	18.92	83.84	89.41
06-May-16 01:00:00	06-May-16 02:00:00		0.00	0.00	0.00	8.35	2.1	329.7		0.00	0.00	0.00	2.75		10.35	18.92	83.84	86.68	06-May-16 01:00:00		10.35	18.92	83.84	89.43
06-May-16 02:00:00	06-May-16 03:00:00		0.00	0.00	0.00	8.39	2.1	329.7		0.00	0.00	0.00	2.77		10.35	18.92	83.84	86.68	06-May-16 02:00:00		10.35	18.92	83.84	89.45
06-May-16 03:00:00	06-May-16 04:00:00		0.00	0.00	0.00	8.45	2.1	329.7		0.00	0.00	0.00	2.79		10.35	18.92	83.84	86.68	06-May-16 03:00:00		10.35	18.92	83.84	89.47
06-May-16 04:00:00	06-May-16 05:00:00		0.00	0.00	0.00	8.51	2.1	329.7		0.00	0.00	0.00	2.81		10.35	18.92	83.84	86.68	06-May-16 04:00:00		10.35	18.92	83.84	89.49
06-May-16 05:00:00	06-May-16 06:00:00		0.00	0.00	0.00	8.44	2.1	329.7		0.00	0.00	0.00	2.78		10.35	18.92	83.84	86.68	06-May-16 05:00:00		10.35	18.92	83.84	89.46
06-May-16 06:00:00	06-May-16 07:00:00		1.24	0.00	0.00	8.29	2.1	329.7		0.41	0.00	0.00	2.73		10.35	18.92	83.84	86.68	06-May-16 06:00:00		10.76	18.92	83.84	89.41
06-May-16 07:00:00	06-May-16 08:00:00		9.30	0.00	0.00	8.15	2.1	329.7		3.07	0.00	0.00	2.69		10.35	18.92	83.84	86.68	06-May-16 07:00:00		13.42	18.92	83.84	89.37
06-May-16 08:00:00	06-May-16 09:00:00		9.79	0.00	0.00	8.00	2.1	329.7		3.23	0.00	0.00	2.64		10.35	18.92	83.84	86.68	06-May-16 08:00:00		13.58	18.92	83.84	89.32
06-May-16 09:00:00	06-May-16 10:00:00		2.82	0.00	0.00	7.82	2.1	329.7		0.93	0.00	0.00	2.58		10.35	18.92	83.84	86.68	06-May-16 09:00:00		11.28	18.92	83.84	89.26
06-May-16 10:00:00	06-May-16 11:00:00		1.21	0.00	0.00	7.54	2.1	329.7		0.40	0.00	0.00	2.49		10.35	18.92	83.84	86.68	06-May-16 10:00:00		10.75	18.92	83.84	89.17
06-May-16 11:00:00	06-May-16 12:00:00		2.24	0.00	0.00	7.26	2.1	329.7		0.74	0.00	0.00	2.39		10.35	18.92	83.84	86.68	06-May-16 11:00:00		11.09	18.92	83.84	89.07
06-May-16 12:00:00	06-May-16 13:00:00		1.38	0.00	0.00	6.98	2.1	329.7		0.46	0.00	0.00	2.30		10.35	18.92	83.84	86.68	06-May-16 12:00:00		10.81	18.92	83.84	88.98
06-May-16 13:00:00	06-May-16 14:00:00		0.36	0.00	0.00	6.88	2.1	329.7		0.12	0.00	0.00	2.27		10.35	18.92	83.84	86.68	06-May-16 13:00:00		10.47	18.92	83.84	88.95
06-May-16 14:00:00	06-May-16 15:00:00		0.00	0.00	0.00	6.90	2.1	329.7		0.00	0.00	0.00	2.27		10.35	18.92	83.84	86.68	06-May-16 14:00:00		10.35	18.92	83.84	88.95
06-May-16 15:00:00	06-May-16 16:00:00		3.63	0.00	0.00	6.89	2.1	329.7		1.20	0.00	0.00	2.27		10.35	18.92	83.84	86.68	06-May-16 15:00:00		11.55	18.92	83.84	88.95
06-May-16 16:00:00	06-May-16 17:00:00		3.60	0.00	0.00	6.88	2.1	329.7		1.19	0.00	0.00	2.27		10.35	18.92	83.84	86.68	06-May-16 16:00:00		11.54	18.92	83.84	88.95
06-May-16 17:00:00	06-May-16 18:00:00		0.72	0.00	0.00	6.98	2.1	329.7		0.24	0.00	0.00	2.30		10.35	18.92	83.84	86.68	06-May-16 17:00:00		10.59	18.92	83.84	88.98
06-May-16 18:00:00	06-May-16 19:00:00		0.00	0.00	0.00	7.08	2.1	329.7		0.00	0.00	0.00	2.33		10.35	18.92	83.84	86.68	06-May-16 18:00:00		10.35	18.92	83.84	89.01
06-May-16 19:00:00	06-May-16 20:00:00		0.00	0.00	0.00	7.15	2.1	329.7		0.00	0.00	0.00	2.36		10.35	18.92	83.84	86.68	06-May-16 19:00:00		10.35	18.92	83.84	89.04
06-May-16 20:00:00	06-May-16 21:00:00		0.00	0.00	0.00	7.23	2.1	329.7		0.00	0.00	0.00	2.38		10.35	18.92	83.84	86.68	06-May-16 20:00:00		10.35	18.92	83.84	89.06
06-May-16 21:00:00	06-May-16 22:00:00		0.26	0.00	0.00	7.29	2.1	329.7		0.09	0.00	0.00	2.40		10.35	18.92	83.84	86.68	06-May-16 21:00:00		10.44	18.92	83.84	89.08
06-May-16 22:00:00	06-May-16 23:00:00		2.52	0.00	0.00	7.45	2.1	329.7		0.83	0.00	0.00	2.46		10.35	18.92	83.84	86.68	06-May-16 22:00:00		11.18	18.92	83.84	89.14
06-May-16 23:00:00	07-May-16 00:00:00		1.78	0.00	0.00	7.61	2.1	329.7		0.59	0.00	0.00	2.51		10.35	18.92	83.84	86.68	06-May-16 23:00:00		10.94	18.92	83.84	89.19
07-May-16 00:00:00	07-May-16 01:00:00		1.14	0.00	0.00	7.78	2.1	329.7		0.38	0.00	0.00	2.57		10.35	18.92	83.84	86.68	07-May-16 00:00:00		10.73	18.92	83.84	89.25
07-May-16 01:00:00	07-May-16 02:00:00		0.51	0.00	0.00	7.94	2.1	329.7		0.17	0.00	0.00	2.62		10.35	18.92	83.84	86.68	07-May-16 01:00:00		10.52	18.92	83.84	89.30
07-May-16 02:00:00	07-May-16 03:00:00		0.03	0.00	0.00	8.08	2.1	329.7		0.01	0.00	0.00	2.66		10.35	18.92	83.84	86.68	07-May-16 02:00:00		10.36	18.92	83.84	89.34
07-May-16 03:00:00	07-May-16 04:00:00		0.00	0.00	0.00	8.22	2.1	329.7		0.00	0.00	0.00	2.71		10.35	18.92	83.84	86.68	07-May-16 03:00:00		10.35	18.92	83.84	89.39
07-May-16 04:00:00	07-May-16 05:00:00		0.00	0.00	0.00	8.37	2.1	329.7		0.00	0.00	0.00	2.76		10.35	18.92	83.84	86.68	07-May-16 04:00:00		10.35	18.92	83.84	89.44
07-May-16 05:00:00	07-May-16 06:00:00		0.00	0.00	0.00	8.44	2.1	329.7		0.00	0.00	0.00	2.78		10.35	18.92	83.84	86.68	07-May-16 05:00:00		10.35	18.92	83.84	89.46
07-May-16 06:00:00	07-May-16 07:00:00		0.00	0.00	0.00	8.33	2.1	329.7		0.00	0.00	0.00	2.75		10.35	18.92	83.84	86.68	07-May-16 06:00:00		10.35	18.92	83.84	89.43
07-May-16 07:00:00	07-May-16 08:00:00		0.00	0.00	0.00	8.21	2.1	329.7		0.00	0.00	0.00	2.71		10.35	18.92	83.84	86.68	07-May-16 07:00:00		10.35	18.92	83.84	89.39
07-May-16 08:00:00	07-May-16 09:00:00		0.00	0.00	0.00	8.08	2.1	329.7		0.00	0.00	0.00	2.67		10.35	18.92	83.84	86.68	07-May-16 08:00:00		10.35	18.92	83.84	89.35
07-May-16 09:00:00	07-May-16 10:00:00		0.00	0.00	0.00	7.89	2.1	329.7		0.00	0.00	0.00	2.60		10.35	18.92	83.84	86.68	07-May-16 09:00:00		10.35	18.92	83.84	89.28
07-May-16 10:00:00	07-May-16 11:00:00		0.77	0.00	0.00	7.67	2.1	329.7		0.25	0.00	0.00	2.53		10.35	18.92	83.84	86.68	07-May-16 10:00:00		10.60	18.92	83.84	89.21
07-May-16 11:00:00	07-May-16 12:00:00		0.00	0.00	0.00	7.47	2.1	329.7		0.00	0.00	0.00	2.46		10.35	18.92	83.84	86.68	07-May-16 11:00:00		10.35	18.92	83.84	89.14
07-May-16 12:00:00	07-May-16 13:00:00		1.79	0.00	0.00	7.27	2.1	329.7		0.59	0.00	0.00	2.40		10.35	18.92	83.84	86.68	07-May-16 12:00:00		10.94	18.92	83.84	89.08
07-May-16 13:00:00	07-May-16 14:00:00		12.75	0.00	0.00	7.03	2.1	329.7		4.20	0.00	0.00	2.32		10.35	18.92	83.84	86.68	07-May-16 13:00:00		14.55	18.92	83.84	89.00
07-May-16 14:00:00	07-May-16 15:00:00		6.48	0.00	0.00	6.96	2.1	329.7		2.14	0.00	0.00	2.29		10.35	18.92	83.84	86.68	07-May-16 14:00:00		12.49	18.92	83.84	88.97
07-May-16 15:00:00	07-May-16 16:00:00		2.80	0.00	0.00	6.93	2.1	329.7		0.92	0.00	0.00	2.28		10.35	18.92	83.84	86.68	07-May-16 15:00:00		11.27	18.92	83.84	88.96
07-May-16 16:00:00	07-May-16 17:00:00		0.94	0.00	0.00	6.90	2.1	329.7		0.31	0.00	0.00	2.27		10.35	18.92	83.84	86.68	07-May-16 16:00:00		10.66	18.92	83.84	88.95
07-May-16 17:00:00	07-May-16 18:00:00		5.32	0.00	0.00	6.80	2.1	329.7		1.75	0.00	0.00	2.24		10.35	18.92	83.84	86.68	07-May-16 17:00:00		12.10	18.92	83.84	88.92
07-May-16 18:00:00	07-May-16 19:00:00		0.00	0.00	0.00	6.77	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	07-May-16 18:00:00		10.35	18.92	83.84	88.91
07-May-16 19:00:00	07-May-16 20:00:00		0.00	0.00	0.00	6.77	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	07-May-16 19:00:00		10.35	18.92	83.84	88.91
07-May-16 20:00:00	07-May-16 21:00:00		2.86	0.00	0.00	6.77	2.1	329.7		0.94	0.00	0.00	2.23		10.35	18.92	83.84	86.68	07-May-16 20:00:00		11.29	18.92	83.84	88.91
07-May-16 21:00:00	07-May-16 22:00:00		2.84	0.00	0.00	6.82	2.1	329.7		0.94	0.00	0.00	2.25		10.35	18.92	83.84	86.68	07-May-16 21:00:00		11.29	18.92	83.84	88.93
07-May-16 22:00:00	07-May-16 23:00:00		6.51	0.00	0.00	6.98	2.1	329.7		2.15	0.00	0.00	2.30		10.35	18.92	83.84	86.68	07-May-16 22:00:00		12.50	18.92	83.84	88.98
07-May-16 23:00:00	08-May-16 00:00:00		11.07	0.00	0.00	7.15	2.1	329.7		3.65	0.00	0.00	2.36		10.35	18.92	83.84	86.68	07-May-16 23:00:00		14.00	18.92	83.84	89.04
08-May-16 00:00:00	08-May-16 01:00:00		14.74	0.00	0.00	7.32	2.1	329.7		4.86	0.00	0.00	2.41		10.35	18.92	83.84	86.68	08-May-16 00:00:00		15.21	18.92	83.84	89.09
08-May-16 01:00:00	08-May-16 02:00:00		21.62	0.00	0.00	7.43	2.1	329.7		7.13	0.00	0.00	2.45		10.35	18.92	83.84	86.68	08-May-16 01:00:00		17.48	18.92	83.84	89.13
08-May-16 02:00:00	08-May-16 03:00:00		14.52	0.00	0.00	7.54	2.1	329.7		4.79	0.00	0.00	2.48		10.35	18.92	83.84	86.68	08-May-16 02:00:00		15.14	18.92	83.84	89.16
08-May-16 03:00:00	08-May-16 04:00:00		1.59	0.00	0.00	7.66	2.1	329.7		0.53	0.00	0.00	2.52		10.35	18.92	83.84	86.68	08-May-16 03:00:00		10.88	18.92	83.84	89.20
08-May-16 04:00:00	08-May-16 05:00:00		0.00	0.00	0.00	7.78	2.1	329.7		0.00	0.00	0.00	2.56		10.35	18.92	83.84	86.68	08-May-16 04:00:00		10.35	18.92	83.84	89.24
08-May-16 05:00:00	08-May-16 06:00:00		0.00	0.00	0.00	7.79	2.1	329.7		0.00	0.00	0.00	2.57		10.35	18.92	83.84	86.68	08-May-16 05:00:00		10.35	18.92	83.84	89.25
08-May-16 06:00:00	08-May-16 07:00:00		0.00	0.00	0.00	7.72	2.1	329.7		0.00	0.00	0.00	2.55		10.35	18.92	83.84	86.68	08-May-16 06:00:00		10.35	18.92	83.84	89.23
08-May-16 07:00:00	08-May-16 08:00:00		0.05	0.00	0.00	7.66	2.1	329.7		0.02	0.00	0.00	2.53		10.35	18.92	83.84	86.68	08-May-16 07:00:00		10.37	18.92	83.84	89.21
08-May-16 08:00:00	08-May-16 09:00:00		0.35	0.00	0.00	7.61	2.1	329.7		0.11	0.00	0.00	2.51		10.35	18.92	83.84	86.68	08-May-16 08:00:00		10.46	18.92	83.84	89.19
08-May-16 09:00:00	08-May-16 10:00:00		1.33	0.00	0.00	7.54	2.1	329.7		0.44	0.00	0.00	2.49		10.35	18.92	83.84	86.68	08-May-16 09:00:00		10.79	18.92	83.84	89.17
08-May-16 10:00:00	08-May-16 11:00:00		5.61	0.00	0.00	7.35	2.1	329.7		1.85	0.00	0.00	2.42		10.35	18.92	83.84	86.68	08-May-16 10:00:00		12.20	18.92	83.84	89.10
08-May-16 11:00:00	08-May-16 12:00:00		3.88	0.00	0.00	7.14	2.1	329.7		1.28	0.00	0.00	2.35		10.35	18.92	83.84	86.68	08-May-16 11:00:00		11.63	18.92	83.84	89.03
08-May-16 12:00:00	08-May-16 13:00:00		14.78	0.00	0.00	6.93	2.1	329.7		4.87	0.00	0.00	2.28		10.35	18.92	83.84	86.68	08-May-16 12:00:00		15.22	18.92	83.84	88.96
08-May-16 13:00:00	08-May-16 14:00:00		3.67	0.00	0.00	6.63	2.1	329.7		1.21	0.00	0.00	2.19		10.35	18.92	83.84	86.68	08-May-16 13:00:00		11.56	18.92	83.84	88.87
08-May-16 14:00:00	08-May-16 15:00:00		19.81	0.00	0.00	6.48	2.1	329.7		6.53	0.00	0.00	2.13		10.35	18.92	83.84	86.68	08-May-16 14:00:00		16.88	18.92	83.84	88.81
08-May-16 15:00:00	08-May-16 16:00:00		24.82	0.00	0.00	6.38	2.1	329.7		8.18	0.00	0.00	2.10		10.35	18.92	83.84	86.68	08-May-16 15:00:00		18.53	18.92	83.84	88.78
08-May-16 16:00:00	08-May-16 17:00:00		23.24	0.00	0.00	6.29	2.1	329.7		7.66	0.00	0.00	2.07		10.35	18.92	83.84	86.68	08-May-16 16:00:00		18.01	18.92	83.84	88.75
08-May-16 17:00:00	08-May-16 18:00:00		24.26	0.00	0.00	6.25	2.1	329.7		8.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	08-May-16 17:00:00		18.35	18.92	83.84	88.74
08-May-16 18:00:00	08-May-16 19:00:00		18.48	0.00	0.00	6.38	2.1	329.7		6.09	0.00	0.00	2.10		10.35	18.92	83.84	86.68	08-May-16 18:00:00		16.44	18.92	83.84	88.78
08-May-16 19:00:00	08-May-16 20:00:00		13.34	0.00	0.00	6.52	2.1	329.7		4.40	0.00	0.00	2.15		10.35	18.92	83.84	86.68	08-May-16 19:00:00		14.75	18.92	83.84	88.83
08-May-16 20:00:00	08-May-16 21:00:00		13.50	0.00	0.00	6.66	2.1	329.7		4.45	0.00	0.00	2.20		10.35	18.92	83.84	86.68	08-May-16 20:00:00		14.80	18.92	83.84	88.88
08-May-16 21:00:00	08-May-16 22:00:00		8.55	0.00	0.00	6.82	2.1	329.7		2.82	0.00	0.00	2.25		10.35	18.92	83.84	86.68	08-May-16 21:00:00		13.17	18.92	83.84	88.93
08-May-16 22:00:00	08-May-16 23:00:00		0.44	0.00	0.00	7.02	2.1	329.7		0.14	0.00	0.00	2.31		10.35	18.92	83.84	86.68	08-May-16 22:00:00		10.49	18.92	83.84	88.99
08-May-16 23:00:00	09-May-16 00:00:00		10.91	0.00	0.00	7.23	2.1	329.7		3.60	0.00	0.00	2.38		10.35	18.92	83.84	86.68	08-May-16 23:00:00		13.95	18.92	83.84	89.06
09-May-16 00:00:00	09-May-16 01:00:00		10.40	0.00	0.00	7.44	2.1	329.7		3.43	0.00	0.00	2.45		10.35	18.92	83.84	86.68	09-May-16 00:00:00		13.78	18.92	83.84	89.13
09-May-16 01:00:00	09-May-16 02:00:00		0.71	0.00	0.00	7.59	2.1	329.7		0.23	0.00	0.00	2.50		10.35	18.92	83.84	86.68	09-May-16 01:00:00		10.58	18.92	83.84	89.18
09-May-16 02:00:00	09-May-16 03:00:00		7.87	0.00	0.00	7.67	2.1	329.7		2.60	0.00	0.00	2.53		10.35	18.92	83.84	86.68	09-May-16 02:00:00		12.95	18.92	83.84	89.21
09-May-16 03:00:00	09-May-16 04:00:00		3.61	0.00	0.00	7.75	2.1	329.7		1.19	0.00	0.00	2.56		10.35	18.92	83.84	86.68	09-May-16 03:00:00		11.54	18.92	83.84	89.24
09-May-16 04:00:00	09-May-16 05:00:00		4.50	0.00	0.00	7.83	2.1	329.7		1.48	0.00	0.00	2.58		10.35	18.92	83.84	86.68	09-May-16 04:00:00		11.83	18.92	83

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
11-May-16 03:00:00	11-May-16 04:00:00		3.70	0.00	0.00	8.43	2.1	329.7		1.22	0.00	0.00	2.78		10.35	18.92	83.84	86.68	11-May-16 03:00:00		**11.57**	**18.92**	**83.84**	**89.46**
11-May-16 04:00:00	11-May-16 05:00:00		5.66	0.00	0.00	8.44	2.1	329.7		1.87	0.00	0.00	2.78		10.35	18.92	83.84	86.68	11-May-16 04:00:00		**12.22**	**18.92**	**83.84**	**89.46**
11-May-16 05:00:00	11-May-16 06:00:00		1.31	0.00	0.00	8.45	2.1	329.7		0.43	0.00	0.00	2.78		10.35	18.92	83.84	86.68	11-May-16 05:00:00		**10.78**	**18.92**	**83.84**	**89.46**
11-May-16 06:00:00	11-May-16 07:00:00		0.92	0.00	0.00	8.46	2.1	329.7		0.30	0.00	0.00	2.79		10.35	18.92	83.84	86.68	11-May-16 06:00:00		**10.65**	**18.92**	**83.84**	**89.47**
11-May-16 07:00:00	11-May-16 08:00:00		0.52	0.00	0.00	310.36	2.1	329.7		0.17	0.00	0.00	102.33		10.35	18.92	83.84	86.68	11-May-16 07:00:00		**10.52**	**18.92**	**83.84**	**189.01**
11-May-16 08:00:00	11-May-16 09:00:00		0.14	0.00	0.00	415.98	2.1	329.7		0.05	0.00	0.00	137.15		10.35	18.92	83.84	86.68	11-May-16 08:00:00		**10.40**	**18.92**	**83.84**	**223.83**
11-May-16 09:00:00	11-May-16 10:00:00		0.00	0.00	0.00	392.62	2.1	329.7		0.00	0.00	0.00	129.45		10.35	18.92	83.84	86.68	11-May-16 09:00:00		**10.35**	**18.92**	**83.84**	**216.13**
11-May-16 10:00:00	11-May-16 11:00:00		0.40	0.00	0.00	1,708.40	2.1	329.7		0.13	0.00	0.00	563.26		10.35	18.92	83.84	86.68	11-May-16 10:00:00		**10.48**	**18.92**	**83.84**	**649.94**
11-May-16 11:00:00	11-May-16 12:00:00		6.83	0.00	0.00	1,705.92	2.1	329.7		2.25	0.00	0.00	562.44		10.35	18.92	83.84	86.68	11-May-16 11:00:00		**12.60**	**18.92**	**83.84**	**649.12**
11-May-16 12:00:00	11-May-16 13:00:00		4.91	0.00	0.00	1,680.57	2.1	329.7		1.62	0.00	0.00	554.08		10.35	18.92	83.84	86.68	11-May-16 12:00:00		**11.97**	**18.92**	**83.84**	**640.76**
11-May-16 13:00:00	11-May-16 14:00:00		14.33	0.00	0.00	840.36	2.1	329.7		4.72	0.00	0.00	277.07		10.35	18.92	83.84	86.68	11-May-16 13:00:00		**15.07**	**18.92**	**83.84**	**363.75**
11-May-16 14:00:00	11-May-16 15:00:00		9.01	0.00	0.00	7.91	2.1	329.7		2.97	0.00	0.00	2.61		10.35	18.92	83.84	86.68	11-May-16 14:00:00		**13.32**	**18.92**	**83.84**	**89.29**
11-May-16 15:00:00	11-May-16 16:00:00		0.10	0.00	0.00	7.93	2.1	329.7		0.03	0.00	0.00	2.61		10.35	18.92	83.84	86.68	11-May-16 15:00:00		**10.38**	**18.92**	**83.84**	**89.29**
11-May-16 16:00:00	11-May-16 17:00:00		0.00	0.00	0.00	7.94	2.1	329.7		0.00	0.00	0.00	2.62		10.35	18.92	83.84	86.68	11-May-16 16:00:00		**10.35**	**18.92**	**83.84**	**89.30**
11-May-16 17:00:00	11-May-16 18:00:00		0.00	0.00	0.00	7.95	2.1	329.7		0.00	0.00	0.00	2.62		10.35	18.92	83.84	86.68	11-May-16 17:00:00		**10.35**	**18.92**	**83.84**	**89.30**
11-May-16 18:00:00	11-May-16 19:00:00		0.00	0.00	0.00	7.96	2.1	329.7		0.00	0.00	0.00	2.62		10.35	18.92	83.84	86.68	11-May-16 18:00:00		**10.35**	**18.92**	**83.84**	**89.30**
11-May-16 19:00:00	11-May-16 20:00:00		0.78	0.00	0.00	7.94	2.1	329.7		0.26	0.00	0.00	2.62		10.35	18.92	83.84	86.68	11-May-16 19:00:00		**10.61**	**18.92**	**83.84**	**89.30**
11-May-16 20:00:00	11-May-16 21:00:00		0.99	0.00	0.00	7.93	2.1	329.7		0.32	0.00	0.00	2.61		10.35	18.92	83.84	86.68	11-May-16 20:00:00		**10.67**	**18.92**	**83.84**	**89.29**
11-May-16 21:00:00	11-May-16 22:00:00		1.14	0.00	0.00	7.93	2.1	329.7		0.37	0.00	0.00	2.62		10.35	18.92	83.84	86.68	11-May-16 21:00:00		**10.72**	**18.92**	**83.84**	**89.30**
11-May-16 22:00:00	11-May-16 23:00:00		4.21	0.00	0.00	7.99	2.1	329.7		1.39	0.00	0.00	2.63		10.35	18.92	83.84	86.68	11-May-16 22:00:00		**11.74**	**18.92**	**83.84**	**89.31**
11-May-16 23:00:00	12-May-16 00:00:00		5.84	0.00	0.00	7.99	2.1	329.7		1.93	0.00	0.00	2.63		10.35	18.92	83.84	86.68	11-May-16 23:00:00		**12.28**	**18.92**	**83.84**	**89.31**
12-May-16 00:00:00	12-May-16 01:00:00		9.22	0.00	0.00	7.99	2.1	329.7		3.04	0.00	0.00	2.63		10.35	18.92	83.84	86.68	12-May-16 00:00:00		**13.39**	**18.92**	**83.84**	**89.31**
12-May-16 01:00:00	12-May-16 02:00:00		0.00	0.00	0.00	7.98	2.1	329.7		0.00	0.00	0.00	2.63		10.35	18.92	83.84	86.68	12-May-16 01:00:00		**10.35**	**18.92**	**83.84**	**89.31**
12-May-16 02:00:00	12-May-16 03:00:00		0.00	0.00	0.00	7.98	2.1	329.7		0.00	0.00	0.00	2.63		10.35	18.92	83.84	86.68	12-May-16 02:00:00		**10.35**	**18.92**	**83.84**	**89.31**
12-May-16 03:00:00	12-May-16 04:00:00		0.59	0.00	0.00	8.02	2.1	329.7		0.19	0.00	0.00	2.64		10.35	18.92	83.84	86.68	12-May-16 03:00:00		**10.54**	**18.92**	**83.84**	**89.32**
12-May-16 04:00:00	12-May-16 05:00:00		5.52	0.00	0.00	8.05	2.1	329.7		1.82	0.00	0.00	2.66		10.35	18.92	83.84	86.68	12-May-16 04:00:00		**12.17**	**18.92**	**83.84**	**89.34**
12-May-16 05:00:00	12-May-16 06:00:00		5.19	0.00	0.00	8.09	2.1	329.7		1.71	0.00	0.00	2.67		10.35	18.92	83.84	86.68	12-May-16 05:00:00		**12.06**	**18.92**	**83.84**	**89.35**
12-May-16 06:00:00	12-May-16 07:00:00		5.20	0.00	0.00	8.07	2.1	329.7		1.71	0.00	0.00	2.66		10.35	18.92	83.84	86.68	12-May-16 06:00:00		**12.06**	**18.92**	**83.84**	**89.34**
12-May-16 07:00:00	12-May-16 08:00:00		0.46	0.00	0.00	8.02	2.1	329.7		0.15	0.00	0.00	2.64		10.35	18.92	83.84	86.68	12-May-16 07:00:00		**10.50**	**18.92**	**83.84**	**89.32**
12-May-16 08:00:00	12-May-16 09:00:00		0.40	0.00	0.00	7.96	2.1	329.7		0.13	0.00	0.00	2.63		10.35	18.92	83.84	86.68	12-May-16 08:00:00		**10.48**	**18.92**	**83.84**	**89.31**
12-May-16 09:00:00	12-May-16 10:00:00		0.00	0.00	0.00	7.92	2.1	329.7		0.00	0.00	0.00	2.61		10.35	18.92	83.84	86.68	12-May-16 09:00:00		**10.35**	**18.92**	**83.84**	**89.29**
12-May-16 10:00:00	12-May-16 11:00:00		3.42	0.00	0.00	7.84	2.1	329.7		1.13	0.00	0.00	2.59		10.35	18.92	83.84	86.68	12-May-16 10:00:00		**11.48**	**18.92**	**83.84**	**89.27**
12-May-16 11:00:00	12-May-16 12:00:00		4.88	0.00	0.00	7.68	2.1	329.7		1.61	0.00	0.00	2.53		10.35	18.92	83.84	86.68	12-May-16 11:00:00		**11.96**	**18.92**	**83.84**	**89.21**
12-May-16 12:00:00	12-May-16 13:00:00		1.63	0.00	0.00	7.52	2.1	329.7		0.54	0.00	0.00	2.48		10.35	18.92	83.84	86.68	12-May-16 12:00:00		**10.89**	**18.92**	**83.84**	**89.16**
12-May-16 13:00:00	12-May-16 14:00:00		0.58	0.00	0.00	7.36	2.1	329.7		0.19	0.00	0.00	2.43		10.35	18.92	83.84	86.68	12-May-16 13:00:00		**10.54**	**18.92**	**83.84**	**89.11**
12-May-16 14:00:00	12-May-16 15:00:00		0.23	0.00	0.00	7.31	2.1	329.7		0.08	0.00	0.00	2.41		10.35	18.92	83.84	86.68	12-May-16 14:00:00		**10.43**	**18.92**	**83.84**	**89.09**
12-May-16 15:00:00	12-May-16 16:00:00		0.96	0.00	0.00	7.35	2.1	329.7		0.32	0.00	0.00	2.42		10.35	18.92	83.84	86.68	12-May-16 15:00:00		**10.67**	**18.92**	**83.84**	**89.10**
12-May-16 16:00:00	12-May-16 17:00:00		0.00	0.00	0.00	7.40	2.1	329.7		0.00	0.00	0.00	2.44		10.35	18.92	83.84	86.68	12-May-16 16:00:00		**10.35**	**18.92**	**83.84**	**89.12**
12-May-16 17:00:00	12-May-16 18:00:00		0.09	0.00	0.00	7.44	2.1	329.7		0.03	0.00	0.00	2.45		10.35	18.92	83.84	86.68	12-May-16 17:00:00		**10.38**	**18.92**	**83.84**	**89.13**
12-May-16 18:00:00	12-May-16 19:00:00		0.00	0.00	0.00	72.43	2.1	329.7		0.00	0.00	0.00	23.88		10.35	18.92	83.84	86.68	12-May-16 18:00:00		**10.35**	**18.92**	**83.84**	**110.56**
12-May-16 19:00:00	12-May-16 20:00:00		0.00	0.00	0.00	8.18	2.1	329.7		0.00	0.00	0.00	2.70		10.35	18.92	83.84	86.68	12-May-16 19:00:00		**10.35**	**18.92**	**83.84**	**89.38**
12-May-16 20:00:00	12-May-16 21:00:00		0.00	0.00	0.00	117.89	2.1	329.7		0.00	0.00	0.00	38.87		10.35	18.92	83.84	86.68	12-May-16 20:00:00		**10.35**	**18.92**	**83.84**	**125.55**
12-May-16 21:00:00	12-May-16 22:00:00		1.49	0.00	0.00	8.16	2.1	329.7		0.49	0.00	0.00	2.69		10.35	18.92	83.84	86.68	12-May-16 21:00:00		**10.84**	**18.92**	**83.84**	**89.37**
12-May-16 22:00:00	12-May-16 23:00:00		4.37	0.00	0.00	8.28	2.1	329.7		1.44	0.00	0.00	2.73		10.35	18.92	83.84	86.68	12-May-16 22:00:00		**11.79**	**18.92**	**83.84**	**89.41**
12-May-16 23:00:00	13-May-16 00:00:00		1.30	0.00	0.00	8.39	2.1	329.7		0.43	0.00	0.00	2.77		10.35	18.92	83.84	86.68	12-May-16 23:00:00		**10.78**	**18.92**	**83.84**	**89.45**
13-May-16 00:00:00	13-May-16 01:00:00		4.03	0.00	0.00	8.45	2.1	329.7		1.33	0.00	0.00	2.79		10.35	18.92	83.84	86.68	13-May-16 00:00:00		**11.68**	**18.92**	**83.84**	**89.47**
13-May-16 01:00:00	13-May-16 02:00:00		7.81	0.00	0.00	8.40	2.1	329.7		2.57	0.00	0.00	2.77		10.35	18.92	83.84	86.68	13-May-16 01:00:00		**12.92**	**18.92**	**83.84**	**89.45**
13-May-16 02:00:00	13-May-16 03:00:00		17.05	0.00	0.00	8.35	2.1	329.7		5.62	0.00	0.00	2.75		10.35	18.92	83.84	86.68	13-May-16 02:00:00		**15.97**	**18.92**	**83.84**	**89.43**
13-May-16 03:00:00	13-May-16 04:00:00		17.87	0.00	0.00	8.29	2.1	329.7		5.89	0.00	0.00	2.73		10.35	18.92	83.84	86.68	13-May-16 03:00:00		**16.24**	**18.92**	**83.84**	**89.41**
13-May-16 04:00:00	13-May-16 05:00:00		18.41	0.00	0.00	8.24	2.1	329.7		6.07	0.00	0.00	2.72		10.35	18.92	83.84	86.68	13-May-16 04:00:00		**16.42**	**18.92**	**83.84**	**89.40**
13-May-16 05:00:00	13-May-16 06:00:00		17.12	0.00	0.00	8.19	2.1	329.7		5.64	0.00	0.00	2.70		10.35	18.92	83.84	86.68	13-May-16 05:00:00		**15.99**	**18.92**	**83.84**	**89.38**
13-May-16 06:00:00	13-May-16 07:00:00		15.04	0.00	0.00	8.13	2.1	329.7		4.96	0.00	0.00	2.68		10.35	18.92	83.84	86.68	13-May-16 06:00:00		**15.31**	**18.92**	**83.84**	**89.36**
13-May-16 07:00:00	13-May-16 08:00:00		10.40	0.00	0.00	8.08	2.1	329.7		3.43	0.00	0.00	2.66		10.35	18.92	83.84	86.68	13-May-16 07:00:00		**13.78**	**18.92**	**83.84**	**89.34**
13-May-16 08:00:00	13-May-16 09:00:00		14.83	0.00	0.00	8.07	2.1	329.7		4.89	0.00	0.00	2.66		10.35	18.92	83.84	86.68	13-May-16 08:00:00		**15.24**	**18.92**	**83.84**	**89.34**
13-May-16 09:00:00	13-May-16 10:00:00		17.46	0.00	0.00	8.04	2.1	329.7		5.76	0.00	0.00	2.65		10.35	18.92	83.84	86.68	13-May-16 09:00:00		**16.11**	**18.92**	**83.84**	**89.33**
13-May-16 10:00:00	13-May-16 11:00:00		15.55	0.00	0.00	7.99	2.1	329.7		5.13	0.00	0.00	2.64		10.35	18.92	83.84	86.68	13-May-16 10:00:00		**15.48**	**18.92**	**83.84**	**89.32**
13-May-16 11:00:00	13-May-16 12:00:00		8.48	0.00	0.00	7.94	2.1	329.7		2.80	0.00	0.00	2.62		10.35	18.92	83.84	86.68	13-May-16 11:00:00		**13.15**	**18.92**	**83.84**	**89.30**
13-May-16 12:00:00	13-May-16 13:00:00		6.53	0.00	0.00	7.89	2.1	329.7		2.15	0.00	0.00	2.60		10.35	18.92	83.84	86.68	13-May-16 12:00:00		**12.50**	**18.92**	**83.84**	**89.28**
13-May-16 13:00:00	13-May-16 14:00:00		7.06	0.00	0.00	7.80	2.1	329.7		2.33	0.00	0.00	2.57		10.35	18.92	83.84	86.68	13-May-16 13:00:00		**12.68**	**18.92**	**83.84**	**89.25**
13-May-16 14:00:00	13-May-16 15:00:00		10.71	0.00	0.00	7.71	2.1	329.7		3.53	0.00	0.00	2.54		10.35	18.92	83.84	86.68	13-May-16 14:00:00		**13.88**	**18.92**	**83.84**	**89.22**
13-May-16 15:00:00	13-May-16 16:00:00		1.85	0.00	0.00	7.62	2.1	329.7		0.61	0.00	0.00	2.51		10.35	18.92	83.84	86.68	13-May-16 15:00:00		**10.96**	**18.92**	**83.84**	**89.19**
13-May-16 16:00:00	13-May-16 17:00:00		1.12	0.00	0.00	7.67	2.1	329.7		0.37	0.00	0.00	2.53		10.35	18.92	83.84	86.68	13-May-16 16:00:00		**10.72**	**18.92**	**83.84**	**89.21**
13-May-16 17:00:00	13-May-16 18:00:00		1.42	0.00	0.00	7.62	2.1	329.7		0.47	0.00	0.00	2.51		10.35	18.92	83.84	86.68	13-May-16 17:00:00		**10.82**	**18.92**	**83.84**	**89.19**
13-May-16 18:00:00	13-May-16 19:00:00		0.00	0.00	0.00	7.52	2.1	329.7		0.00	0.00	0.00	2.48		10.35	18.92	83.84	86.68	13-May-16 18:00:00		**10.35**	**18.92**	**83.84**	**89.16**
13-May-16 19:00:00	13-May-16 20:00:00		0.40	0.00	0.00	7.42	2.1	329.7		0.13	0.00	0.00	2.45		10.35	18.92	83.84	86.68	13-May-16 19:00:00		**10.48**	**18.92**	**83.84**	**89.13**
13-May-16 20:00:00	13-May-16 21:00:00		0.00	0.00	0.00	7.42	2.1	329.7		0.00	0.00	0.00	2.45		10.35	18.92	83.84	86.68	13-May-16 20:00:00		**10.35**	**18.92**	**83.84**	**89.13**
13-May-16 21:00:00	13-May-16 22:00:00		0.09	0.00	0.00	7.62	2.1	329.7		0.03	0.00	0.00	2.51		10.35	18.92	83.84	86.68	13-May-16 21:00:00		**10.38**	**18.92**	**83.84**	**89.19**
13-May-16 22:00:00	13-May-16 23:00:00		1.63	0.00	0.00	7.82	2.1	329.7		0.54	0.00	0.00	2.58		10.35	18.92	83.84	86.68	13-May-16 22:00:00		**10.89**	**18.92**	**83.84**	**89.26**
13-May-16 23:00:00	14-May-16 00:00:00		3.04	0.00	0.00	8.03	2.1	329.7		1.00	0.00	0.00	2.65		10.35	18.92	83.84	86.68	13-May-16 23:00:00		**11.35**	**18.92**	**83.84**	**89.33**
14-May-16 00:00:00	14-May-16 01:00:00		3.14	0.00	0.00	8.10	2.1	329.7		1.03	0.00	0.00	2.67		10.35	18.92	83.84	86.68	14-May-16 00:00:00		**11.38**	**18.92**	**83.84**	**89.35**
14-May-16 01:00:00	14-May-16 02:00:00		1.75	0.00	0.00	8.16	2.1	329.7		0.58	0.00	0.00	2.69		10.35	18.92	83.84	86.68	14-May-16 01:00:00		**10.93**	**18.92**	**83.84**	**89.37**
14-May-16 02:00:00	14-May-16 03:00:00		0.89	0.00	0.00	8.27	2.1	329.7		0.29	0.00	0.00	2.73		10.35	18.92	83.84	86.68	14-May-16 02:00:00		**10.64**	**18.92**	**83.84**	**89.41**
14-May-16 03:00:00	14-May-16 04:00:00		0.23	0.00	0.00	8.38	2.1	329.7		0.08	0.00	0.00	2.76		10.35	18.92	83.84	86.68	14-May-16 03:00:00		**10.43**	**18.92**	**83.84**	**89.44**
14-May-16 04:00:00	14-May-16 05:00:00		4.72	0.00	0.00	8.46	2.1	329.7		1.56	0.00	0.00	2.79		10.35	18.92	83.84	86.68	14-May-16 04:00:00		**11.91**	**18.92**	**83.84**	**89.47**
14-May-16 05:00:00	14-May-16 06:00:00		0.00	0.00	0.00	8.45	2.1	329.7		0.00	0.00	0.00	2.78		10.35	18.92	83.84	86.68	14-May-16 05:00:00		**10.35**	**18.92**	**83.84**	**89.46**
14-May-16 06:00:00	14-May-16 07:00:00		0.19	0.00	0.00	8.43	2.1	329.7		0.06	0.00	0.00	2.78		10.35	18.92	83.84	86.68	14-May-16 06:00:00		**10.41**	**18.92**	**83.84**	**89.46**
14-May-16 07:00:00	14-May-16 08:00:00		2.18	0.00	0.00	8.41	2.1	329.7		0.72	0.00	0.00	2.77		10.35	18.92	83.84	86.68	14-May-16 07:00:00		**11.07**	**18.92**	**83.84**	**89.45**
14-May-16 08:00:00	14-May-16 09:00:00		0.52	0.00	0.00	8.38	2.1	329.7		0.17	0.00	0.00	2.76		10.35	18.92	83.84	86.68	14-May-16 08:00:00		**10.52**	**18.92**	**83.84**	**89.44**
14-May-16 09:00:00	14-May-16 10:00:00		0.34	0.00	0.00	8.13	2.1	329.7		0.11	0.00	0.00	2.68		10.35	18.92	83.84	86.68	14-May-16 09:00:00		**10.46**	**18.92**	**83.84**	**89.36**
14-May-16 10:00:00	14-May-16 11:00:00		0.16	0.00	0.00	7.85	2.1	329.7		0.05	0.00	0.00	2.59		10.35	18.92	83.84	86.68	14-May-16 10:00:00		**10.40**	**18.92**	**83.84**	**89.27**
14-May-16 11:00:00	14-May-16 12:00:00		0.01	0.00	0.00	7.57	2.1	329.7		0.00	0.00	0.00	2.50		10.35	18.92	83.84	86.68	14-May-16 11:00:00		**10.35**	**18.92**	**83.84**	**89.18**
14-May-16 12:00:00	14-May-16 13:00:00		10.08	0.00	0.00	7.37	2.1	329.7		3.32	0.00	0.00	2.43		10.35	18.92	83.84	86.68	14-May-16 12:00:00		**13.67**	**18.92**	**83.84**	**89.11**
14-May-16 13:00:00	14-May-16 14:00:00		0.93	0.00	0.00	7.41	2.1	329.7		0.31	0.00	0.00	2.44		10.35	18.92	83.84	86.68	14-May-16 13:00:00		**10.66**	**18.92**	**83.84**	**89.12**
14-May-16 14:00:00	14-May-16 15:00:00		13.86	0.00	0.00	7.47	2.1	329.7		4.57	0.00	0.00	2.46		10.35	18.92	83.84	86.68	14-May-16 14:00:00		**14.92**	**18.92**	**83.84**	**89.14**
14-May-16 15:00:00	14-May-16 16:00:00		5.39	0.00	0.00	7.53	2.1	329.7		1.78	0.00	0.00	2.48		10.35	18.92	83.84	86.68	14-May-16 15:00:00		**12.13**	**18.92**	**83.84**	**89.16**
14-May-16 16:00:00	14-May-16 17:00:00		0.00	0.00	0.00	7.59	2.1	329.7		0.00	0.00	0.00	2.50		10.35	18.92	83.84	86.68	14-May-16 16:00:00		**10.35**	**18.92**	**83.84**	**89.18**
14-May-16 17:00:00	14-May-16 18:00:00		0.00	0.00	0.00	7.55	2.1	329.7		0.00	0.00	0.00	2.49		10.35	18.92	83.84	86.68	14-May-16 17:00:00		**10.35**	**18.92**	**83.84**	**89.17**
14-May-16 18:00:00	14-May-16 19:00:00		0.00	0.00	0.00	7.47	2.1	329.7		0.00	0.00	0.00	2.46		10.35	18.92	83.84	86.68	14-May-16 18:00:00		**10.35**	**18.92**	**83.84**	**89.14**
14-May-16 19:00:00	14-May-16 20:00:00		0.00	0.00	0.00	7.40	2.1	329.7		0.00	0.00	0.00	2.44		10.35	18.92	83.84	86.68	14-May-16 19:00:00		**10.35**	**18.92**	**83.84**	**89.12**
14-May-16 20:00:00	14-May-16 21:00:00		0.00	0.00	0.00	7.38	2.1	329.7		0.00	0.00	0.00	2.43		10.35	18.92	83.84	86.68	14-May-16 20:00:00		**10.35**	**18.92**	**83.84**	**89.11**
14-May-16 21:00:00	14-May-16 22:00:00		0.00	0.00	0.00	7.49	2.1	329.7		0.00	0.00	0.00	2.47		10.35	18.92	83.84	86.68	14-May-16 21:00:00		**10.35**	**18.92**	**83.84**	**89.15**
14-May-16 22:00:00	14-May-16 23:00:00		0.00	0.00	0.00	7.60	2.1	329.7		0.00	0.00	0.00	2.50		10.35	18.92	83.84	86.68	14-May-16 22:00:00		**10.35**	**18.92**	**83.84**	**89.18**
14-May-16 23:00:00	15-May-16 00:00:00		0.00	0.00	0.00	7.71	2.1	329.7		0.00	0.00	0.00	2.54		10.35	18.92	83.84	86.68	14-May-16 23:00:00		**10.35**	**18.92**	**83.84**	**89.22**
15-May-16 00:00:00	15-May-16 01:00:00		2.00	0.00	0.00	7.87	2.1	329.7		0.66	0.00	0.00	2.60		10.35	18.92	83.84	86.68	15-May-16 00:00:00		**11.01**	**18.92**	**83.84**	**89.28**
15-May-16 01:00:00	15-May-16 02:00:00		3.09	0.00	0.00	8.05	2.1	329.7		1.02	0.00	0.00	2.65		10.35	18.92	83.84	86.68	15-May-16 01:00:00		**11.37**	**18.92**	**83.84**	**89.33**
15-May-16 02:00:00	15-May-16 03:00:00		7.06	0.00	0.00	8.20	2.1	329.7		2.33	0.00	0.00	2.70		10.35	18.92	83.84	86.68	15-May-16 02:00:00		**12.68**	**18.92**	**83.84**	**89.38**
15-May-16 03:00:00	15-May-16 04:00:00		4.79	0.00	0.00	8.35	2.1	329.7		1.58	0.00	0.00	2.75		10.35	18.92	83.84	86.68	15-May-16 03:00:00		**11.93**	**18.92**

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
17-May-16 02:00:00	17-May-16 03:00:00		0.00	0.00	0.00	8.42	2.1	329.7		0.00	0.00	0.00	2.78		10.35	18.92	83.84	86.68	17-May-16 02:00:00		10.35	18.92	83.84	89.46
17-May-16 03:00:00	17-May-16 04:00:00		0.00	0.00	0.00	8.40	2.1	329.7		0.00	0.00	0.00	2.77		10.35	18.92	83.84	86.68	17-May-16 03:00:00		10.35	18.92	83.84	89.45
17-May-16 04:00:00	17-May-16 05:00:00		0.00	0.00	0.00	8.34	2.1	329.7		0.00	0.00	0.00	2.75		10.35	18.92	83.84	86.68	17-May-16 04:00:00		10.35	18.92	83.84	89.43
17-May-16 05:00:00	17-May-16 06:00:00		0.00	0.00	0.00	8.21	2.1	329.7		0.00	0.00	0.00	2.71		10.35	18.92	83.84	86.68	17-May-16 05:00:00		10.35	18.92	83.84	89.39
17-May-16 06:00:00	17-May-16 07:00:00		0.00	0.00	0.00	8.12	2.1	329.7		0.00	0.00	0.00	2.68		10.35	18.92	83.84	86.68	17-May-16 06:00:00		10.35	18.92	83.84	89.36
17-May-16 07:00:00	17-May-16 08:00:00		0.00	0.00	0.00	8.02	2.1	329.7		0.00	0.00	0.00	2.64		10.35	18.92	83.84	86.68	17-May-16 07:00:00		10.35	18.92	83.84	89.32
17-May-16 08:00:00	17-May-16 09:00:00		0.00	0.00	0.00	7.93	2.1	329.7		0.00	0.00	0.00	2.61		10.35	18.92	83.84	86.68	17-May-16 08:00:00		10.35	18.92	83.84	89.29
17-May-16 09:00:00	17-May-16 10:00:00		0.00	0.00	0.00	7.86	2.1	329.7		0.00	0.00	0.00	2.59		10.35	18.92	83.84	86.68	17-May-16 09:00:00		10.35	18.92	83.84	89.27
17-May-16 10:00:00	17-May-16 11:00:00		0.00	0.00	0.00	7.80	2.1	329.7		0.00	0.00	0.00	2.57		10.35	18.92	83.84	86.68	17-May-16 10:00:00		10.35	18.92	83.84	89.25
17-May-16 11:00:00	17-May-16 12:00:00		0.00	0.00	0.00	7.74	2.1	329.7		0.00	0.00	0.00	2.55		10.35	18.92	83.84	86.68	17-May-16 11:00:00		10.35	18.92	83.84	89.23
17-May-16 12:00:00	17-May-16 13:00:00		0.00	0.00	0.00	7.69	2.1	329.7		0.00	0.00	0.00	2.53		10.35	18.92	83.84	86.68	17-May-16 12:00:00		10.35	18.92	83.84	89.21
17-May-16 13:00:00	17-May-16 14:00:00		0.00	0.00	0.00	7.65	2.1	329.7		0.00	0.00	0.00	2.52		10.35	18.92	83.84	86.68	17-May-16 13:00:00		10.35	18.92	83.84	89.20
17-May-16 14:00:00	17-May-16 15:00:00		0.00	0.00	0.00	7.58	2.1	329.7		0.00	0.00	0.00	2.50		10.35	18.92	83.84	86.68	17-May-16 14:00:00		10.35	18.92	83.84	89.18
17-May-16 15:00:00	17-May-16 16:00:00		0.00	0.00	0.00	7.51	2.1	329.7		0.00	0.00	0.00	2.48		10.35	18.92	83.84	86.68	17-May-16 15:00:00		10.35	18.92	83.84	89.16
17-May-16 16:00:00	17-May-16 17:00:00		0.00	0.00	0.00	7.44	2.1	329.7		0.00	0.00	0.00	2.45		10.35	18.92	83.84	86.68	17-May-16 16:00:00		10.35	18.92	83.84	89.13
17-May-16 17:00:00	17-May-16 18:00:00		0.00	0.00	0.00	7.52	2.1	329.7		0.00	0.00	0.00	2.48		10.35	18.92	83.84	86.68	17-May-16 17:00:00		10.35	18.92	83.84	89.16
17-May-16 18:00:00	17-May-16 19:00:00		0.00	0.00	0.00	7.66	2.1	329.7		0.00	0.00	0.00	2.53		10.35	18.92	83.84	86.68	17-May-16 18:00:00		10.35	18.92	83.84	89.21
17-May-16 19:00:00	17-May-16 20:00:00		0.00	0.00	0.00	7.81	2.1	329.7		0.00	0.00	0.00	2.57		10.35	18.92	83.84	86.68	17-May-16 19:00:00		10.35	18.92	83.84	89.25
17-May-16 20:00:00	17-May-16 21:00:00		0.00	0.00	0.00	7.93	2.1	329.7		0.00	0.00	0.00	2.61		10.35	18.92	83.84	86.68	17-May-16 20:00:00		10.35	18.92	83.84	89.29
17-May-16 21:00:00	17-May-16 22:00:00		0.00	0.00	0.00	7.94	2.1	329.7		0.00	0.00	0.00	2.62		10.35	18.92	83.84	86.68	17-May-16 21:00:00		10.35	18.92	83.84	89.30
17-May-16 22:00:00	17-May-16 23:00:00		0.00	0.00	0.00	7.96	2.1	329.7		0.00	0.00	0.00	2.62		10.35	18.92	83.84	86.68	17-May-16 22:00:00		10.35	18.92	83.84	89.30
17-May-16 23:00:00	18-May-16 00:00:00		0.00	0.00	0.00	7.97	2.1	329.7		0.00	0.00	0.00	2.63		10.35	18.92	83.84	86.68	17-May-16 23:00:00		10.35	18.92	83.84	89.31
18-May-16 00:00:00	18-May-16 01:00:00		0.00	0.00	0.00	7.97	2.1	329.7		0.00	0.00	0.00	2.63		10.35	18.92	83.84	86.68	18-May-16 00:00:00		10.35	18.92	83.84	89.31
18-May-16 01:00:00	18-May-16 02:00:00		0.00	0.00	0.00	7.95	2.1	329.7		0.00	0.00	0.00	2.62		10.35	18.92	83.84	86.68	18-May-16 01:00:00		10.35	18.92	83.84	89.30
18-May-16 02:00:00	18-May-16 03:00:00		0.00	0.00	0.00	7.96	2.1	329.7		0.00	0.00	0.00	2.63		10.35	18.92	83.84	86.68	18-May-16 02:00:00		10.35	18.92	83.84	89.31
18-May-16 03:00:00	18-May-16 04:00:00		0.00	0.00	0.00	7.98	2.1	329.7		0.00	0.00	0.00	2.63		10.35	18.92	83.84	86.68	18-May-16 03:00:00		10.35	18.92	83.84	89.31
18-May-16 04:00:00	18-May-16 05:00:00		0.00	0.00	0.00	8.00	2.1	329.7		0.00	0.00	0.00	2.64		10.35	18.92	83.84	86.68	18-May-16 04:00:00		10.35	18.92	83.84	89.32
18-May-16 05:00:00	18-May-16 06:00:00		0.00	0.00	0.00	8.00	2.1	329.7		0.00	0.00	0.00	2.64		10.35	18.92	83.84	86.68	18-May-16 05:00:00		10.35	18.92	83.84	89.32
18-May-16 06:00:00	18-May-16 07:00:00		0.00	0.00	0.00	7.99	2.1	329.7		0.00	0.00	0.00	2.63		10.35	18.92	83.84	86.68	18-May-16 06:00:00		10.35	18.92	83.84	89.31
18-May-16 07:00:00	18-May-16 08:00:00		0.00	0.00	0.00	7.98	2.1	329.7		0.00	0.00	0.00	2.63		10.35	18.92	83.84	86.68	18-May-16 07:00:00		10.35	18.92	83.84	89.31
18-May-16 08:00:00	18-May-16 09:00:00		0.00	0.00	0.00	8.02	2.1	329.7		0.00	0.00	0.00	2.65		10.35	18.92	83.84	86.68	18-May-16 08:00:00		10.35	18.92	83.84	89.33
18-May-16 09:00:00	18-May-16 10:00:00		0.00	0.00	0.00	8.18	2.1	329.7		0.00	0.00	0.00	2.70		10.35	18.92	83.84	86.68	18-May-16 09:00:00		10.35	18.92	83.84	89.38
18-May-16 10:00:00	18-May-16 11:00:00		0.00	0.00	0.00	8.27	2.1	329.7		0.00	0.00	0.00	2.73		10.35	18.92	83.84	86.68	18-May-16 10:00:00		10.35	18.92	83.84	89.41
18-May-16 11:00:00	18-May-16 12:00:00		0.00	0.00	0.00	8.37	2.1	329.7		0.00	0.00	0.00	2.76		10.35	18.92	83.84	86.68	18-May-16 11:00:00		10.35	18.92	83.84	89.44
18-May-16 12:00:00	18-May-16 13:00:00		0.00	0.00	0.00	8.45	2.1	329.7		0.00	0.00	0.00	2.79		10.35	18.92	83.84	86.68	18-May-16 12:00:00		10.35	18.92	83.84	89.47
18-May-16 13:00:00	18-May-16 14:00:00		0.00	0.00	0.00	8.39	2.1	329.7		0.00	0.00	0.00	2.77		10.35	18.92	83.84	86.68	18-May-16 13:00:00		10.35	18.92	83.84	89.45
18-May-16 14:00:00	18-May-16 15:00:00		0.00	0.00	0.00	8.28	2.1	329.7		0.00	0.00	0.00	2.73		10.35	18.92	83.84	86.68	18-May-16 14:00:00		10.35	18.92	83.84	89.41
18-May-16 15:00:00	18-May-16 16:00:00		0.00	0.00	0.00	8.17	2.1	329.7		0.00	0.00	0.00	2.69		10.35	18.92	83.84	86.68	18-May-16 15:00:00		10.35	18.92	83.84	89.37
18-May-16 16:00:00	18-May-16 17:00:00		0.00	0.00	0.00	8.07	2.1	329.7		0.00	0.00	0.00	2.66		10.35	18.92	83.84	86.68	18-May-16 16:00:00		10.35	18.92	83.84	89.34
18-May-16 17:00:00	18-May-16 18:00:00		0.00	0.00	0.00	8.08	2.1	329.7		0.00	0.00	0.00	2.66		10.35	18.92	83.84	86.68	18-May-16 17:00:00		10.35	18.92	83.84	89.34
18-May-16 18:00:00	18-May-16 19:00:00		0.00	0.00	0.00	8.08	2.1	329.7		0.00	0.00	0.00	2.66		10.35	18.92	83.84	86.68	18-May-16 18:00:00		10.35	18.92	83.84	89.34
18-May-16 19:00:00	18-May-16 20:00:00		0.00	0.00	0.00	8.08	2.1	329.7		0.00	0.00	0.00	2.67		10.35	18.92	83.84	86.68	18-May-16 19:00:00		10.35	18.92	83.84	89.35
18-May-16 20:00:00	18-May-16 21:00:00		0.12	0.00	0.00	8.11	2.1	329.7		0.04	0.00	0.00	2.67		10.35	18.92	83.84	86.68	18-May-16 20:00:00		10.39	18.92	83.84	89.35
18-May-16 21:00:00	18-May-16 22:00:00		0.00	0.00	0.00	8.21	2.1	329.7		0.00	0.00	0.00	2.71		10.35	18.92	83.84	86.68	18-May-16 21:00:00		10.35	18.92	83.84	89.39
18-May-16 22:00:00	18-May-16 23:00:00		0.00	0.00	0.00	8.30	2.1	329.7		0.00	0.00	0.00	2.74		10.35	18.92	83.84	86.68	18-May-16 22:00:00		10.35	18.92	83.84	89.42
18-May-16 23:00:00	19-May-16 00:00:00		0.00	0.00	0.00	8.38	2.1	329.7		0.00	0.00	0.00	2.76		10.35	18.92	83.84	86.68	18-May-16 23:00:00		10.35	18.92	83.84	89.44
19-May-16 00:00:00	19-May-16 01:00:00		0.00	0.00	0.00	8.46	2.1	329.7		0.00	0.00	0.00	2.79		10.35	18.92	83.84	86.68	19-May-16 00:00:00		10.35	18.92	83.84	89.47
19-May-16 01:00:00	19-May-16 02:00:00		0.00	0.00	0.00	8.47	2.1	329.7		0.00	0.00	0.00	2.79		10.35	18.92	83.84	86.68	19-May-16 01:00:00		10.35	18.92	83.84	89.47
19-May-16 02:00:00	19-May-16 03:00:00		0.00	0.00	0.00	8.47	2.1	329.7		0.00	0.00	0.00	2.79		10.35	18.92	83.84	86.68	19-May-16 02:00:00		10.35	18.92	83.84	89.47
19-May-16 03:00:00	19-May-16 04:00:00		0.00	0.00	0.00	8.48	2.1	329.7		0.00	0.00	0.00	2.80		10.35	18.92	83.84	86.68	19-May-16 03:00:00		10.35	18.92	83.84	89.48
19-May-16 04:00:00	19-May-16 05:00:00		0.00	0.00	0.00	8.49	2.1	329.7		0.00	0.00	0.00	2.80		10.35	18.92	83.84	86.68	19-May-16 04:00:00		10.35	18.92	83.84	89.48
19-May-16 05:00:00	19-May-16 06:00:00		0.00	0.00	0.00	8.52	2.1	329.7		0.00	0.00	0.00	2.81		10.35	18.92	83.84	86.68	19-May-16 05:00:00		10.35	18.92	83.84	89.49
19-May-16 06:00:00	19-May-16 07:00:00		0.00	0.00	0.00	8.51	2.1	329.7		0.00	0.00	0.00	2.81		10.35	18.92	83.84	86.68	19-May-16 06:00:00		10.35	18.92	83.84	89.49
19-May-16 07:00:00	19-May-16 08:00:00		0.00	0.00	0.00	8.51	2.1	329.7		0.00	0.00	0.00	2.80		10.35	18.92	83.84	86.68	19-May-16 07:00:00		10.35	18.92	83.84	89.48
19-May-16 08:00:00	19-May-16 09:00:00		0.00	0.00	0.00	8.50	2.1	329.7		0.00	0.00	0.00	2.80		10.35	18.92	83.84	86.68	19-May-16 08:00:00		10.35	18.92	83.84	89.48
19-May-16 09:00:00	19-May-16 10:00:00		0.00	0.00	0.00	8.48	2.1	329.7		0.00	0.00	0.00	2.80		10.35	18.92	83.84	86.68	19-May-16 09:00:00		10.35	18.92	83.84	89.48
19-May-16 10:00:00	19-May-16 11:00:00		0.00	0.00	0.00	8.48	2.1	329.7		0.00	0.00	0.00	2.80		10.35	18.92	83.84	86.68	19-May-16 10:00:00		10.35	18.92	83.84	89.48
19-May-16 11:00:00	19-May-16 12:00:00		0.00	0.00	0.00	8.47	2.1	329.7		0.00	0.00	0.00	2.79		10.35	18.92	83.84	86.68	19-May-16 11:00:00		10.35	18.92	83.84	89.47
19-May-16 12:00:00	19-May-16 13:00:00		0.00	0.00	0.00	8.47	2.1	329.7		0.00	0.00	0.00	2.79		10.35	18.92	83.84	86.68	19-May-16 12:00:00		10.35	18.92	83.84	89.47
19-May-16 13:00:00	19-May-16 14:00:00		0.00	0.00	0.00	8.45	2.1	329.7		0.00	0.00	0.00	2.79		10.35	18.92	83.84	86.68	19-May-16 13:00:00		10.35	18.92	83.84	89.47
19-May-16 14:00:00	19-May-16 15:00:00		0.00	0.00	0.00	8.41	2.1	329.7		0.00	0.00	0.00	2.77		10.35	18.92	83.84	86.68	19-May-16 14:00:00		10.35	18.92	83.84	89.45
19-May-16 15:00:00	19-May-16 16:00:00		0.00	0.00	0.00	8.37	2.1	329.7		0.00	0.00	0.00	2.76		10.35	18.92	83.84	86.68	19-May-16 15:00:00		10.35	18.92	83.84	89.44
19-May-16 16:00:00	19-May-16 17:00:00		0.00	0.00	0.00	8.35	2.1	329.7		0.00	0.00	0.00	2.75		10.35	18.92	83.84	86.68	19-May-16 16:00:00		10.35	18.92	83.84	89.43
19-May-16 17:00:00	19-May-16 18:00:00		0.00	0.00	0.00	8.41	2.1	329.7		0.00	0.00	0.00	2.77		10.35	18.92	83.84	86.68	19-May-16 17:00:00		10.35	18.92	83.84	89.45
19-May-16 18:00:00	19-May-16 19:00:00		0.00	0.00	0.00	8.44	2.1	329.7		0.00	0.00	0.00	2.78		10.35	18.92	83.84	86.68	19-May-16 18:00:00		10.35	18.92	83.84	89.46
19-May-16 19:00:00	19-May-16 20:00:00		0.00	0.00	0.00	8.46	2.1	329.7		0.00	0.00	0.00	2.79		10.35	18.92	83.84	86.68	19-May-16 19:00:00		10.35	18.92	83.84	89.47
19-May-16 20:00:00	19-May-16 21:00:00		0.00	0.00	0.00	8.48	2.1	329.7		0.00	0.00	0.00	2.79		10.35	18.92	83.84	86.68	19-May-16 20:00:00		10.35	18.92	83.84	89.47
19-May-16 21:00:00	19-May-16 22:00:00		0.00	0.00	0.00	8.44	2.1	329.7		0.00	0.00	0.00	2.78		10.35	18.92	83.84	86.68	19-May-16 21:00:00		10.35	18.92	83.84	89.46
19-May-16 22:00:00	19-May-16 23:00:00		0.00	0.00	0.00	8.45	2.1	329.7		0.00	0.00	0.00	2.79		10.35	18.92	83.84	86.68	19-May-16 22:00:00		10.35	18.92	83.84	89.47
19-May-16 23:00:00	20-May-16 00:00:00		0.00	0.00	0.00	8.46	2.1	329.7		0.00	0.00	0.00	2.79		10.35	18.92	83.84	86.68	19-May-16 23:00:00		10.35	18.92	83.84	89.47
20-May-16 00:00:00	20-May-16 01:00:00		0.00	0.00	0.00	8.45	2.1	329.7		0.00	0.00	0.00	2.79		10.35	18.92	83.84	86.68	20-May-16 00:00:00		10.35	18.92	83.84	89.47
20-May-16 01:00:00	20-May-16 02:00:00		0.00	0.00	0.00	8.48	2.1	329.7		0.00	0.00	0.00	2.80		10.35	18.92	83.84	86.68	20-May-16 01:00:00		10.35	18.92	83.84	89.48
20-May-16 02:00:00	20-May-16 03:00:00		0.00	0.00	0.00	8.62	2.1	329.7		0.00	0.00	0.00	2.84		10.35	18.92	83.84	86.68	20-May-16 02:00:00		10.35	18.92	83.84	89.52
20-May-16 03:00:00	20-May-16 04:00:00		0.00	0.00	0.00	8.75	2.1	329.7		0.00	0.00	0.00	2.88		10.35	18.92	83.84	86.68	20-May-16 03:00:00		10.35	18.92	83.84	89.56
20-May-16 04:00:00	20-May-16 05:00:00		0.00	0.00	0.00	8.89	2.1	329.7		0.00	0.00	0.00	2.93		10.35	18.92	83.84	86.68	20-May-16 04:00:00		10.35	18.92	83.84	89.61
20-May-16 05:00:00	20-May-16 06:00:00		0.00	0.00	0.00	8.90	2.1	329.7		0.00	0.00	0.00	2.93		10.35	18.92	83.84	86.68	20-May-16 05:00:00		10.35	18.92	83.84	89.61
20-May-16 06:00:00	20-May-16 07:00:00		0.00	0.00	0.00	8.79	2.1	329.7		0.00	0.00	0.00	2.90		10.35	18.92	83.84	86.68	20-May-16 06:00:00		10.35	18.92	83.84	89.58
20-May-16 07:00:00	20-May-16 08:00:00		0.00	0.00	0.00	8.69	2.1	329.7		0.00	0.00	0.00	2.87		10.35	18.92	83.84	86.68	20-May-16 07:00:00		10.35	18.92	83.84	89.55
20-May-16 08:00:00	20-May-16 09:00:00		0.00	0.00	0.00	8.58	2.1	329.7		0.00	0.00	0.00	2.83		10.35	18.92	83.84	86.68	20-May-16 08:00:00		10.35	18.92	83.84	89.51
20-May-16 09:00:00	20-May-16 10:00:00		0.00	0.00	0.00	8.48	2.1	329.7		0.00	0.00	0.00	2.80		10.35	18.92	83.84	86.68	20-May-16 09:00:00		10.35	18.92	83.84	89.48
20-May-16 10:00:00	20-May-16 11:00:00		0.00	0.00	0.00	8.48	2.1	329.7		0.00	0.00	0.00	2.80		10.35	18.92	83.84	86.68	20-May-16 10:00:00		10.35	18.92	83.84	89.48
20-May-16 11:00:00	20-May-16 12:00:00		0.00	0.00	0.00	8.48	2.1	329.7		0.00	0.00	0.00	2.79		10.35	18.92	83.84	86.68	20-May-16 11:00:00		10.35	18.92	83.84	89.47
20-May-16 12:00:00	20-May-16 13:00:00		0.00	0.00	0.00	8.48	2.1	329.7		0.00	0.00	0.00	2.80		10.35	18.92	83.84	86.68	20-May-16 12:00:00		10.35	18.92	83.84	89.48
20-May-16 13:00:00	20-May-16 14:00:00		0.00	0.00	0.00	8.49	2.1	329.7		0.00	0.00	0.00	2.80		10.35	18.92	83.84	86.68	20-May-16 13:00:00		10.35	18.92	83.84	89.48
20-May-16 14:00:00	20-May-16 15:00:00		0.00	0.00	0.00	8.46	2.1	329.7		0.00	0.00	0.00	2.79		10.35	18.92	83.84	86.68	20-May-16 14:00:00		10.35	18.92	83.84	89.47
20-May-16 15:00:00	20-May-16 16:00:00		0.00	0.00	0.00	8.43	2.1	329.7		0.00	0.00	0.00	2.78		10.35	18.92	83.84	86.68	20-May-16 15:00:00		10.35	18.92	83.84	89.46
20-May-16 16:00:00	20-May-16 17:00:00		0.00	0.00	0.00	8.41	2.1	329.7		0.00	0.00	0.00	2.77		10.35	18.92	83.84	86.68	20-May-16 16:00:00		10.35	18.92	83.84	89.45
20-May-16 17:00:00	20-May-16 18:00:00		0.00	0.00	0.00	8.46	2.1	329.7		0.00	0.00	0.00	2.79		10.35	18.92	83.84	86.68	20-May-16 17:00:00		10.35	18.92	83.84	89.47
20-May-16 18:00:00	20-May-16 19:00:00		0.00	0.00	0.00	8.47	2.1	329.7		0.00	0.00	0.00	2.79		10.35	18.92	83.84	86.68	20-May-16 18:00:00		10.35	18.92	83.84	89.47
20-May-16 19:00:00	20-May-16 20:00:00		0.00	0.00	0.00	8.49	2.1	329.7		0.00	0.00	0.00	2.80		10.35	18.92	83.84	86.68	20-May-16 19:00:00		10.35	18.92	83.84	89.48
20-May-16 20:00:00	20-May-16 21:00:00		0.00	0.00	0.00	8.53	2.1	329.7		0.00	0.00	0.00	2.81		10.35	18.92	83.84	86.68	20-May-16 20:00:00		10.35	18.92	83.84	89.49
20-May-16 21:00:00	20-May-16 22:00:00		0.00	0.00	0.00	8.54	2.1	329.7		0.00	0.00	0.00	2.82		10.35	18.92	83.84	86.68	20-May-16 21:00:00		10.35	18.92	83.84	89.50
20-May-16 22:00:00	20-May-16 23:00:00		0.00	0.00	0.00	8.36	2.1	329.7		0.00	0.00	0.00	2.76		10.35	18.92	83.84	86.68	20-May-16 22:00:00		10.35	18.92	83.84	89.44
20-May-16 23:00:00	21-May-16 00:00:00		0.00	0.00	0.00	8.18	2.1	329.7		0.00	0.00	0.00	2.70		10.35	18.92	83.84	86.68	20-May-16 23:00:00		10.35	18.92	83.84	89.38
21-May-16 00:00:00	21-May-16 01:00:00		0.00	0.00	0.00	8.00	2.1	329.7		0.00	0.00	0.00	2.64		10.35	18.92	83.84	86.68	21-May-16 00:00:00		10.35	18.92	83.84	89.32
21-May-16 01:00:00	21-May-16 02:00:00		0.00	0.00	0.00	7.94	2.1	329.7		0.00	0.00	0.00	2.62		10.35	18.92	83.84	86.68	21-May-16 01:00:00		10.35	18.92	83.84	89.30
21-May-16 02:00:00	21-May-16 03:00:00		0.00	0.00	0.00	7.93	2.1	329.7		0.00	0.00	0.00	2.61		10.35	18.92	83.84	86.68	21-May-16 02:00:00		10.35	18.92	83

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10³ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
23-May-16 01:00:00	23-May-16 02:00:00		4.09	0.00	0.00	8.74	2.1	329.7		1.35	0.00	0.00	2.88		10.35	18.92	83.84	86.68	23-May-16 01:00:00		**11.70**	**18.92**	**83.84**	**89.56**
23-May-16 02:00:00	23-May-16 03:00:00		0.39	0.00	0.00	8.83	2.1	329.7		0.13	0.00	0.00	2.91		10.35	18.92	83.84	86.68	23-May-16 02:00:00		**10.48**	**18.92**	**83.84**	**89.59**
23-May-16 03:00:00	23-May-16 04:00:00		0.00	0.00	0.00	8.92	2.1	329.7		0.00	0.00	0.00	2.94		10.35	18.92	83.84	86.68	23-May-16 03:00:00		**10.35**	**18.92**	**83.84**	**89.62**
23-May-16 04:00:00	23-May-16 05:00:00		0.00	0.00	0.00	9.00	2.1	329.7		0.00	0.00	0.00	2.97		10.35	18.92	83.84	86.68	23-May-16 04:00:00		**10.35**	**18.92**	**83.84**	**89.65**
23-May-16 05:00:00	23-May-16 06:00:00		0.00	0.00	0.00	8.92	2.1	329.7		0.00	0.00	0.00	2.94		10.35	18.92	83.84	86.68	23-May-16 05:00:00		**10.35**	**18.92**	**83.84**	**89.62**
23-May-16 06:00:00	23-May-16 07:00:00		0.00	0.00	0.00	8.79	2.1	329.7		0.00	0.00	0.00	2.90		10.35	18.92	83.84	86.68	23-May-16 06:00:00		**10.35**	**18.92**	**83.84**	**89.58**
23-May-16 07:00:00	23-May-16 08:00:00		0.00	0.00	0.00	8.67	2.1	329.7		0.00	0.00	0.00	2.86		10.35	18.92	83.84	86.68	23-May-16 07:00:00		**10.35**	**18.92**	**83.84**	**89.54**
23-May-16 08:00:00	23-May-16 09:00:00		0.00	0.00	0.00	8.54	2.1	329.7		0.00	0.00	0.00	2.81		10.35	18.92	83.84	86.68	23-May-16 08:00:00		**10.35**	**18.92**	**83.84**	**89.49**
23-May-16 09:00:00	23-May-16 10:00:00		0.00	0.00	0.00	8.39	2.1	329.7		0.00	0.00	0.00	2.77		10.35	18.92	83.84	86.68	23-May-16 09:00:00		**10.35**	**18.92**	**83.84**	**89.45**
23-May-16 10:00:00	23-May-16 11:00:00		0.00	0.00	0.00	8.25	2.1	329.7		0.00	0.00	0.00	2.72		10.35	18.92	83.84	86.68	23-May-16 10:00:00		**10.35**	**18.92**	**83.84**	**89.40**
23-May-16 11:00:00	23-May-16 12:00:00		0.08	0.00	0.00	8.10	2.1	329.7		0.03	0.00	0.00	2.67		10.35	18.92	83.84	86.68	23-May-16 11:00:00		**10.38**	**18.92**	**83.84**	**89.35**
23-May-16 12:00:00	23-May-16 13:00:00		3.17	0.00	0.00	7.95	2.1	329.7		1.05	0.00	0.00	2.62		10.35	18.92	83.84	86.68	23-May-16 12:00:00		**11.40**	**18.92**	**83.84**	**89.30**
23-May-16 13:00:00	23-May-16 14:00:00		11.92	0.00	0.00	7.79	2.1	329.7		3.93	0.00	0.00	2.57		10.35	18.92	83.84	86.68	23-May-16 13:00:00		**14.28**	**18.92**	**83.84**	**89.25**
23-May-16 14:00:00	23-May-16 15:00:00		3.23	0.00	0.00	7.76	2.1	329.7		1.06	0.00	0.00	2.56		10.35	18.92	83.84	86.68	23-May-16 14:00:00		**11.41**	**18.92**	**83.84**	**89.24**
23-May-16 15:00:00	23-May-16 16:00:00		0.00	0.00	0.00	7.73	2.1	329.7		0.00	0.00	0.00	2.55		10.35	18.92	83.84	86.68	23-May-16 15:00:00		**10.35**	**18.92**	**83.84**	**89.23**
23-May-16 16:00:00	23-May-16 17:00:00		0.00	0.00	0.00	7.70	2.1	329.7		0.00	0.00	0.00	2.54		10.35	18.92	83.84	86.68	23-May-16 16:00:00		**10.35**	**18.92**	**83.84**	**89.22**
23-May-16 17:00:00	23-May-16 18:00:00		0.00	0.00	0.00	7.65	2.1	329.7		0.00	0.00	0.00	2.52		10.35	18.92	83.84	86.68	23-May-16 17:00:00		**10.35**	**18.92**	**83.84**	**89.20**
23-May-16 18:00:00	23-May-16 19:00:00		0.07	0.00	0.00	7.77	2.1	329.7		0.02	0.00	0.00	2.56		10.35	18.92	83.84	86.68	23-May-16 18:00:00		**10.37**	**18.92**	**83.84**	**89.24**
23-May-16 19:00:00	23-May-16 20:00:00		0.62	0.00	0.00	7.89	2.1	329.7		0.21	0.00	0.00	2.60		10.35	18.92	83.84	86.68	23-May-16 19:00:00		**10.56**	**18.92**	**83.84**	**89.28**
23-May-16 20:00:00	23-May-16 21:00:00		1.28	0.00	0.00	8.01	2.1	329.7		0.42	0.00	0.00	2.64		10.35	18.92	83.84	86.68	23-May-16 20:00:00		**10.77**	**18.92**	**83.84**	**89.32**
23-May-16 21:00:00	23-May-16 22:00:00		2.98	0.00	0.00	8.13	2.1	329.7		0.98	0.00	0.00	2.68		10.35	18.92	83.84	86.68	23-May-16 21:00:00		**11.33**	**18.92**	**83.84**	**89.36**
23-May-16 22:00:00	23-May-16 23:00:00		1.99	0.00	0.00	8.26	2.1	329.7		0.66	0.00	0.00	2.72		10.35	18.92	83.84	86.68	23-May-16 22:00:00		**11.01**	**18.92**	**83.84**	**89.40**
23-May-16 23:00:00	24-May-16 00:00:00		2.31	0.00	0.00	8.38	2.1	329.7		0.76	0.00	0.00	2.76		10.35	18.92	83.84	86.68	23-May-16 23:00:00		**11.11**	**18.92**	**83.84**	**89.44**
24-May-16 00:00:00	24-May-16 01:00:00		1.66	0.00	0.00	8.51	2.1	329.7		0.55	0.00	0.00	2.81		10.35	18.92	83.84	86.68	24-May-16 00:00:00		**10.90**	**18.92**	**83.84**	**89.49**
24-May-16 01:00:00	24-May-16 02:00:00		1.01	0.00	0.00	8.53	2.1	329.7		0.33	0.00	0.00	2.81		10.35	18.92	83.84	86.68	24-May-16 01:00:00		**10.68**	**18.92**	**83.84**	**89.49**
24-May-16 02:00:00	24-May-16 03:00:00		0.36	0.00	0.00	8.57	2.1	329.7		0.12	0.00	0.00	2.83		10.35	18.92	83.84	86.68	24-May-16 02:00:00		**10.47**	**18.92**	**83.84**	**89.51**
24-May-16 03:00:00	24-May-16 04:00:00		0.00	0.00	0.00	8.61	2.1	329.7		0.00	0.00	0.00	2.84		10.35	18.92	83.84	86.68	24-May-16 03:00:00		**10.35**	**18.92**	**83.84**	**89.52**
24-May-16 04:00:00	24-May-16 05:00:00		0.00	0.00	0.00	8.65	2.1	329.7		0.00	0.00	0.00	2.85		10.35	18.92	83.84	86.68	24-May-16 04:00:00		**10.35**	**18.92**	**83.84**	**89.53**
24-May-16 05:00:00	24-May-16 06:00:00		0.00	0.00	0.00	8.58	2.1	329.7		0.00	0.00	0.00	2.83		10.35	18.92	83.84	86.68	24-May-16 05:00:00		**10.35**	**18.92**	**83.84**	**89.51**
24-May-16 06:00:00	24-May-16 07:00:00		0.00	0.00	0.00	8.54	2.1	329.7		0.00	0.00	0.00	2.82		10.35	18.92	83.84	86.68	24-May-16 06:00:00		**10.35**	**18.92**	**83.84**	**89.50**
24-May-16 07:00:00	24-May-16 08:00:00		0.00	0.00	0.00	8.50	2.1	329.7		0.00	0.00	0.00	2.80		10.35	18.92	83.84	86.68	24-May-16 07:00:00		**10.35**	**18.92**	**83.84**	**89.48**
24-May-16 08:00:00	24-May-16 09:00:00		0.00	0.00	11.51	8.45	2.1	329.7		0.00	0.00	3.79	2.79		10.35	18.92	83.84	86.68	24-May-16 08:00:00		**10.35**	**18.92**	**87.63**	**89.47**
24-May-16 09:00:00	24-May-16 10:00:00		0.00	0.00	0.00	8.34	2.1	329.7		0.00	0.00	0.00	2.75		10.35	18.92	83.84	86.68	24-May-16 09:00:00		**10.35**	**18.92**	**83.84**	**89.43**
24-May-16 10:00:00	24-May-16 11:00:00		0.00	0.00	0.00	8.06	2.1	329.7		0.00	0.00	0.00	2.66		10.35	18.92	83.84	86.68	24-May-16 10:00:00		**10.35**	**18.92**	**83.84**	**89.34**
24-May-16 11:00:00	24-May-16 12:00:00		0.90	0.00	0.00	7.79	2.1	329.7		0.30	0.00	0.00	2.57		10.35	18.92	83.84	86.68	24-May-16 11:00:00		**10.65**	**18.92**	**83.84**	**89.25**
24-May-16 12:00:00	24-May-16 13:00:00		9.60	0.00	0.00	7.51	2.1	329.7		3.17	0.00	0.00	2.48		10.35	18.92	83.84	86.68	24-May-16 12:00:00		**13.52**	**18.92**	**83.84**	**89.16**
24-May-16 13:00:00	24-May-16 14:00:00		2.12	0.00	0.00	7.38	2.1	329.7		0.70	0.00	0.00	2.43		10.35	18.92	83.84	86.68	24-May-16 13:00:00		**11.05**	**18.92**	**83.84**	**89.11**
24-May-16 14:00:00	24-May-16 15:00:00		8.75	0.00	0.00	7.47	2.1	329.7		2.88	0.00	0.00	2.46		10.35	18.92	83.84	86.68	24-May-16 14:00:00		**13.23**	**18.92**	**83.84**	**89.14**
24-May-16 15:00:00	24-May-16 16:00:00		7.02	0.00	0.00	7.56	2.1	329.7		2.31	0.00	0.00	2.49		10.35	18.92	83.84	86.68	24-May-16 15:00:00		**12.66**	**18.92**	**83.84**	**89.17**
24-May-16 16:00:00	24-May-16 17:00:00		0.00	0.00	0.00	7.64	2.1	329.7		0.00	0.00	0.00	2.52		10.35	18.92	83.84	86.68	24-May-16 16:00:00		**10.35**	**18.92**	**83.84**	**89.20**
24-May-16 17:00:00	24-May-16 18:00:00		0.00	0.00	0.00	7.68	2.1	329.7		0.00	0.00	0.00	2.53		10.35	18.92	83.84	86.68	24-May-16 17:00:00		**10.35**	**18.92**	**83.84**	**89.21**
24-May-16 18:00:00	24-May-16 19:00:00		0.00	0.00	0.00	7.62	2.1	329.7		0.00	0.00	0.00	2.51		10.35	18.92	83.84	86.68	24-May-16 18:00:00		**10.35**	**18.92**	**83.84**	**89.19**
24-May-16 19:00:00	24-May-16 20:00:00		0.02	0.00	0.00	7.57	2.1	329.7		0.01	0.00	0.00	2.50		10.35	18.92	83.84	86.68	24-May-16 19:00:00		**10.36**	**18.92**	**83.84**	**89.18**
24-May-16 20:00:00	24-May-16 21:00:00		0.87	0.00	0.00	7.52	2.1	329.7		0.29	0.00	0.00	2.48		10.35	18.92	83.84	86.68	24-May-16 20:00:00		**10.64**	**18.92**	**83.84**	**89.16**
24-May-16 21:00:00	24-May-16 22:00:00		3.08	0.00	0.00	7.69	2.1	329.7		1.02	0.00	0.00	2.53		10.35	18.92	83.84	86.68	24-May-16 21:00:00		**11.37**	**18.92**	**83.84**	**89.21**
24-May-16 22:00:00	24-May-16 23:00:00		3.27	0.00	0.00	7.92	2.1	329.7		1.08	0.00	0.00	2.61		10.35	18.92	83.84	86.68	24-May-16 22:00:00		**11.43**	**18.92**	**83.84**	**89.29**
24-May-16 23:00:00	25-May-16 00:00:00		0.96	0.00	0.00	8.15	2.1	329.7		0.32	0.00	0.00	2.69		10.35	18.92	83.84	86.68	24-May-16 23:00:00		**10.67**	**18.92**	**83.84**	**89.37**
25-May-16 00:00:00	25-May-16 01:00:00		9.30	0.00	0.00	8.38	2.1	329.7		3.07	0.00	0.00	2.76		10.35	18.92	83.84	86.68	25-May-16 00:00:00		**13.42**	**18.92**	**83.84**	**89.44**
25-May-16 01:00:00	25-May-16 02:00:00		7.53	0.00	0.00	8.46	2.1	329.7		2.48	0.00	0.00	2.79		10.35	18.92	83.84	86.68	25-May-16 01:00:00		**12.83**	**18.92**	**83.84**	**89.47**
25-May-16 02:00:00	25-May-16 03:00:00		0.67	0.00	0.00	8.41	2.1	329.7		0.22	0.00	0.00	2.77		10.35	18.92	83.84	86.68	25-May-16 02:00:00		**10.57**	**18.92**	**83.84**	**89.45**
25-May-16 03:00:00	25-May-16 04:00:00		2.15	0.00	0.00	8.36	2.1	329.7		0.71	0.00	0.00	2.76		10.35	18.92	83.84	86.68	25-May-16 03:00:00		**11.06**	**18.92**	**83.84**	**89.44**
25-May-16 04:00:00	25-May-16 05:00:00		2.25	0.00	0.00	8.31	2.1	329.7		0.74	0.00	0.00	2.74		10.35	18.92	83.84	86.68	25-May-16 04:00:00		**11.09**	**18.92**	**83.84**	**89.42**
25-May-16 05:00:00	25-May-16 06:00:00		1.52	0.00	0.00	8.37	2.1	329.7		0.50	0.00	0.00	2.76		10.35	18.92	83.84	86.68	25-May-16 05:00:00		**10.85**	**18.92**	**83.84**	**89.44**
25-May-16 06:00:00	25-May-16 07:00:00		0.79	0.00	0.00	8.25	2.1	329.7		0.26	0.00	0.00	2.72		10.35	18.92	83.84	86.68	25-May-16 06:00:00		**10.61**	**18.92**	**83.84**	**89.40**
25-May-16 07:00:00	25-May-16 08:00:00		0.13	0.00	0.00	8.11	2.1	329.7		0.04	0.00	0.00	2.68		10.35	18.92	83.84	86.68	25-May-16 07:00:00		**10.39**	**18.92**	**83.84**	**89.36**
25-May-16 08:00:00	25-May-16 09:00:00		0.00	0.00	0.00	7.98	2.1	329.7		0.00	0.00	0.00	2.63		10.35	18.92	83.84	86.68	25-May-16 08:00:00		**10.35**	**18.92**	**83.84**	**89.31**
25-May-16 09:00:00	25-May-16 10:00:00		0.00	0.00	0.00	7.87	2.1	329.7		0.00	0.00	0.00	2.60		10.35	18.92	83.84	86.68	25-May-16 09:00:00		**10.35**	**18.92**	**83.84**	**89.28**
25-May-16 10:00:00	25-May-16 11:00:00		1.02	0.00	0.00	7.72	2.1	329.7		0.34	0.00	0.00	2.55		10.35	18.92	83.84	86.68	25-May-16 10:00:00		**10.69**	**18.92**	**83.84**	**89.23**
25-May-16 11:00:00	25-May-16 12:00:00		3.23	0.00	0.00	7.57	2.1	329.7		1.07	0.00	0.00	2.50		10.35	18.92	83.84	86.68	25-May-16 11:00:00		**11.42**	**18.92**	**83.84**	**89.18**
25-May-16 12:00:00	25-May-16 13:00:00		3.44	0.00	0.00	7.42	2.1	329.7		1.14	0.00	0.00	2.45		10.35	18.92	83.84	86.68	25-May-16 12:00:00		**11.49**	**18.92**	**83.84**	**89.13**
25-May-16 13:00:00	25-May-16 14:00:00		0.24	0.00	0.00	7.31	2.1	329.7		0.08	0.00	0.00	2.41		10.35	18.92	83.84	86.68	25-May-16 13:00:00		**10.43**	**18.92**	**83.84**	**89.09**
25-May-16 14:00:00	25-May-16 15:00:00		0.00	0.00	0.00	7.16	2.1	329.7		0.00	0.00	0.00	2.36		10.35	18.92	83.84	86.68	25-May-16 14:00:00		**10.35**	**18.92**	**83.84**	**89.04**
25-May-16 15:00:00	25-May-16 16:00:00		0.00	0.00	0.00	7.01	2.1	329.7		0.00	0.00	0.00	2.31		10.35	18.92	83.84	86.68	25-May-16 15:00:00		**10.35**	**18.92**	**83.84**	**88.99**
25-May-16 16:00:00	25-May-16 17:00:00		0.00	0.00	0.00	6.86	2.1	329.7		0.00	0.00	0.00	2.26		10.35	18.92	83.84	86.68	25-May-16 16:00:00		**10.35**	**18.92**	**83.84**	**88.94**
25-May-16 17:00:00	25-May-16 18:00:00		0.00	0.00	0.00	6.91	2.1	329.7		0.00	0.00	0.00	2.28		10.35	18.92	83.84	86.68	25-May-16 17:00:00		**10.35**	**18.92**	**83.84**	**88.96**
25-May-16 18:00:00	25-May-16 19:00:00		0.01	0.00	0.00	7.16	2.1	329.7		0.00	0.00	0.00	2.36		10.35	18.92	83.84	86.68	25-May-16 18:00:00		**10.35**	**18.92**	**83.84**	**89.04**
25-May-16 19:00:00	25-May-16 20:00:00		0.02	0.00	0.00	7.40	2.1	329.7		0.01	0.00	0.00	2.44		10.35	18.92	83.84	86.68	25-May-16 19:00:00		**10.36**	**18.92**	**83.84**	**89.12**
25-May-16 20:00:00	25-May-16 21:00:00		0.34	0.00	0.00	7.65	2.1	329.7		0.11	0.00	0.00	2.52		10.35	18.92	83.84	86.68	25-May-16 20:00:00		**10.46**	**18.92**	**83.84**	**89.20**
25-May-16 21:00:00	25-May-16 22:00:00		0.11	0.00	0.00	7.89	2.1	329.7		0.04	0.00	0.00	2.60		10.35	18.92	83.84	86.68	25-May-16 21:00:00		**10.39**	**18.92**	**83.84**	**89.28**
25-May-16 22:00:00	25-May-16 23:00:00		1.26	0.00	0.00	7.98	2.1	329.7		0.42	0.00	0.00	2.63		10.35	18.92	83.84	86.68	25-May-16 22:00:00		**10.77**	**18.92**	**83.84**	**89.31**
25-May-16 23:00:00	26-May-16 00:00:00		5.29	0.00	0.00	8.06	2.1	329.7		1.74	0.00	0.00	2.66		10.35	18.92	83.84	86.68	25-May-16 23:00:00		**12.09**	**18.92**	**83.84**	**89.34**
26-May-16 00:00:00	26-May-16 01:00:00		1.16	0.00	0.00	8.14	2.1	329.7		0.38	0.00	0.00	2.68		10.35	18.92	83.84	86.68	26-May-16 00:00:00		**10.73**	**18.92**	**83.84**	**89.36**
26-May-16 01:00:00	26-May-16 02:00:00		3.38	0.00	0.00	8.25	2.1	329.7		1.11	0.00	0.00	2.72		10.35	18.92	83.84	86.68	26-May-16 01:00:00		**11.46**	**18.92**	**83.84**	**89.40**
26-May-16 02:00:00	26-May-16 03:00:00		4.54	0.00	0.00	8.25	2.1	329.7		1.50	0.00	0.00	2.72		10.35	18.92	83.84	86.68	26-May-16 02:00:00		**11.85**	**18.92**	**83.84**	**89.40**
26-May-16 03:00:00	26-May-16 04:00:00		5.65	0.00	0.00	8.23	2.1	329.7		1.86	0.00	0.00	2.71		10.35	18.92	83.84	86.68	26-May-16 03:00:00		**12.21**	**18.92**	**83.84**	**89.39**
26-May-16 04:00:00	26-May-16 05:00:00		6.63	0.00	0.00	8.22	2.1	329.7		2.18	0.00	0.00	2.71		10.35	18.92	83.84	86.68	26-May-16 04:00:00		**12.53**	**18.92**	**83.84**	**89.39**
26-May-16 05:00:00	26-May-16 06:00:00		3.88	0.00	0.00	8.10	2.1	329.7		1.28	0.00	0.00	2.67		10.35	18.92	83.84	86.68	26-May-16 05:00:00		**11.63**	**18.92**	**83.84**	**89.35**
26-May-16 06:00:00	26-May-16 07:00:00		1.11	0.00	0.00	8.04	2.1	329.7		0.37	0.00	0.00	2.65		10.35	18.92	83.84	86.68	26-May-16 06:00:00		**10.72**	**18.92**	**83.84**	**89.33**
26-May-16 07:00:00	26-May-16 08:00:00		0.69	0.00	0.00	7.99	2.1	329.7		0.23	0.00	0.00	2.63		10.35	18.92	83.84	86.68	26-May-16 07:00:00		**10.58**	**18.92**	**83.84**	**89.31**
26-May-16 08:00:00	26-May-16 09:00:00		0.42	0.00	0.00	7.94	2.1	329.7		0.14	0.00	0.00	2.62		10.35	18.92	83.84	86.68	26-May-16 08:00:00		**10.49**	**18.92**	**83.84**	**89.30**
26-May-16 09:00:00	26-May-16 10:00:00		0.16	0.00	0.00	7.82	2.1	329.7		0.05	0.00	0.00	2.58		10.35	18.92	83.84	86.68	26-May-16 09:00:00		**10.40**	**18.92**	**83.84**	**89.26**
26-May-16 10:00:00	26-May-16 11:00:00		1.46	0.00	0.00	7.59	2.1	329.7		0.48	0.00	0.00	2.50		10.35	18.92	83.84	86.68	26-May-16 10:00:00		**10.83**	**18.92**	**83.84**	**89.18**
26-May-16 11:00:00	26-May-16 12:00:00		5.12	0.00	0.00	7.36	2.1	329.7		1.69	0.00	0.00	2.43		10.35	18.92	83.84	86.68	26-May-16 11:00:00		**12.04**	**18.92**	**83.84**	**89.11**
26-May-16 12:00:00	26-May-16 13:00:00		3.97	0.00	0.00	7.13	2.1	329.7		1.31	0.00	0.00	2.35		10.35	18.92	83.84	86.68	26-May-16 12:00:00		**11.66**	**18.92**	**83.84**	**89.03**
26-May-16 13:00:00	26-May-16 14:00:00		3.46	0.00	0.00	7.08	2.1	329.7		1.14	0.00	0.00	2.34		10.35	18.92	83.84	86.68	26-May-16 13:00:00		**11.49**	**18.92**	**83.84**	**89.02**
26-May-16 14:00:00	26-May-16 15:00:00		1.36	0.00	0.00	7.01	2.1	329.7		0.45	0.00	0.00	2.31		10.35	18.92	83.84	86.68	26-May-16 14:00:00		**10.80**	**18.92**	**83.84**	**88.99**
26-May-16 15:00:00	26-May-16 16:00:00		0.63	0.00	0.00	6.92	2.1	329.7		0.21	0.00	0.00	2.28		10.35	18.92	83.84	86.68	26-May-16 15:00:00		**10.56**	**18.92**	**83.84**	**88.96**
26-May-16 16:00:00	26-May-16 17:00:00		0.00	0.00	0.00	6.83	2.1	329.7		0.00	0.00	0.00	2.25		10.35	18.92	83.84	86.68	26-May-16 16:00:00		**10.35**	**18.92**	**83.84**	**88.93**
26-May-16 17:00:00	26-May-16 18:00:00		0.00	0.00	0.00	6.96	2.1	329.7		0.00	0.00	0.00	2.30		10.35	18.92	83.84	86.68	26-May-16 17:00:00		**10.35**	**18.92**	**83.84**	**88.98**
26-May-16 18:00:00	26-May-16 19:00:00		0.00	0.00	0.00	7.48	2.1	329.7		0.00	0.00	0.00	2.47		10.35	18.92	83.84	86.68	26-May-16 18:00:00		**10.35**	**18.92**	**83.84**	**89.15**
26-May-16 19:00:00	26-May-16 20:00:00		0.06	0.00	0.00	8.00	2.1	329.7		0.02	0.00	0.00	2.64		10.35	18.92	83.84	86.68	26-May-16 19:00:00		**10.37**	**18.92**	**83.84**	**89.32**
26-May-16 20:00:00	26-May-16 21:00:00		0.31	0.00	0.00	8.52	2.1	329.7		0.10	0.00	0.00	2.81		10.35	18.92	83.84	86.68	26-May-16 20:00:00		**10.45**	**18.92**	**83.84**	**89.49**
26-May-16 21:00:00	26-May-16 22:00:00		0.58	0.00	0.00	8.94	2.1	329.7		0.19	0.00	0.00	2.95		10.35	18.92	83.84	86.68	26-May-16 21:00:00		**10.54**	**18.92**	**83.84**	**89.63**
26-May-16 22:00:00	26-May-16 23:00:00		0.88	0.00	0.00	8.98	2.1	329.7		0.29	0.00	0.00	2.96		10.35	18.92	83.84	86.68	26-May-16 22:00:00		**10.64**	**18.92**	**83.84**	**89.64**
26-May-16 23:00:00	27-May-16 00:00:00		1.09	0.00	0.00	9.00	2.1	329.7		0.36	0.00	0.00	2.97		10.35	18.92	83.84	86.68	26-May-16 23:00:00		**10.71**	**18.92**	**83.84**	**89.65**
27-May-16 00:00:00	27-May-16 01:00:00		1.82	0.00	0.00	9.02	2.1	329.7		0.60	0.00	0.00	2.97		10.35	18.92	83.84	86.68	27-May-16 00:00:00		**10.95**	**18.92**	**83.84**	**89.65**
27-May-16 01:00:00	27-May-16 02:00:00		5.08	0.00	0.00	9.03	2.1	329.7		1.67	0.00	0.00	2.98		10.35	18.92	83.84	86.68	27-May-16 01:00:00		**12.02**	**18.92**	**83.84**	**89

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
29-May-16 00:00:00	29-May-16 01:00:00		2.55	0.00	0.00	7.79	2.1	329.7		0.84	0.00	0.00	2.57		10.35	18.92	83.84	86.68	29-May-16 00:00:00		11.19	18.92	83.84	89.25
29-May-16 01:00:00	29-May-16 02:00:00		2.57	0.00	0.00	7.90	2.1	329.7		0.85	0.00	0.00	2.60		10.35	18.92	83.84	86.68	29-May-16 01:00:00		11.20	18.92	83.84	89.28
29-May-16 02:00:00	29-May-16 03:00:00		2.60	0.00	0.00	7.92	2.1	329.7		0.86	0.00	0.00	2.61		10.35	18.92	83.84	86.68	29-May-16 02:00:00		11.21	18.92	83.84	89.29
29-May-16 03:00:00	29-May-16 04:00:00		2.51	0.00	0.00	7.93	2.1	329.7		0.83	0.00	0.00	2.62		10.35	18.92	83.84	86.68	29-May-16 03:00:00		11.18	18.92	83.84	89.30
29-May-16 04:00:00	29-May-16 05:00:00		2.24	0.00	0.00	7.95	2.1	329.7		0.74	0.00	0.00	2.62		10.35	18.92	83.84	86.68	29-May-16 04:00:00		11.09	18.92	83.84	89.30
29-May-16 05:00:00	29-May-16 06:00:00		1.33	0.00	0.00	7.93	2.1	329.7		0.44	0.00	0.00	2.61		10.35	18.92	83.84	86.68	29-May-16 05:00:00		10.79	18.92	83.84	89.29
29-May-16 06:00:00	29-May-16 07:00:00		0.81	0.00	0.00	7.91	2.1	329.7		0.27	0.00	0.00	2.61		10.35	18.92	83.84	86.68	29-May-16 06:00:00		10.62	18.92	83.84	89.29
29-May-16 07:00:00	29-May-16 08:00:00		0.53	0.00	0.00	7.92	2.1	329.7		0.17	0.00	0.00	2.61		10.35	18.92	83.84	86.68	29-May-16 07:00:00		10.52	18.92	83.84	89.29
29-May-16 08:00:00	29-May-16 09:00:00		0.25	0.00	0.00	7.93	2.1	329.7		0.08	0.00	0.00	2.61		10.35	18.92	83.84	86.68	29-May-16 08:00:00		10.43	18.92	83.84	89.29
29-May-16 09:00:00	29-May-16 10:00:00		0.02	0.00	0.00	8.03	2.1	329.7		0.01	0.00	0.00	2.65		10.35	18.92	83.84	86.68	29-May-16 09:00:00		10.36	18.92	83.84	89.33
29-May-16 10:00:00	29-May-16 11:00:00		0.00	0.00	0.00	8.05	2.1	329.7		0.00	0.00	0.00	2.65		10.35	18.92	83.84	86.68	29-May-16 10:00:00		10.35	18.92	83.84	89.33
29-May-16 11:00:00	29-May-16 12:00:00		0.00	0.00	0.00	8.00	2.1	329.7		0.00	0.00	0.00	2.64		10.35	18.92	83.84	86.68	29-May-16 11:00:00		10.35	18.92	83.84	89.32
29-May-16 12:00:00	29-May-16 13:00:00		0.00	0.00	0.00	7.95	2.1	329.7		0.00	0.00	0.00	2.62		10.35	18.92	83.84	86.68	29-May-16 12:00:00		10.35	18.92	83.84	89.30
29-May-16 13:00:00	29-May-16 14:00:00		0.00	0.00	0.00	7.95	2.1	329.7		0.00	0.00	0.00	2.62		10.35	18.92	83.84	86.68	29-May-16 13:00:00		10.35	18.92	83.84	89.30
29-May-16 14:00:00	29-May-16 15:00:00		0.58	0.00	0.00	7.97	2.1	329.7		0.19	0.00	0.00	2.63		10.35	18.92	83.84	86.68	29-May-16 14:00:00		10.54	18.92	83.84	89.31
29-May-16 15:00:00	29-May-16 16:00:00		0.00	0.00	0.00	7.97	2.1	329.7		0.00	0.00	0.00	2.63		10.35	18.92	83.84	86.68	29-May-16 15:00:00		10.35	18.92	83.84	89.31
29-May-16 16:00:00	29-May-16 17:00:00		1.47	0.00	0.00	7.97	2.1	329.7		0.49	0.00	0.00	2.63		10.35	18.92	83.84	86.68	29-May-16 16:00:00		10.84	18.92	83.84	89.31
29-May-16 17:00:00	29-May-16 18:00:00		0.00	0.00	0.00	7.92	2.1	329.7		0.00	0.00	0.00	2.61		10.35	18.92	83.84	86.68	29-May-16 17:00:00		10.35	18.92	83.84	89.29
29-May-16 18:00:00	29-May-16 19:00:00		0.00	0.00	0.00	7.91	2.1	329.7		0.00	0.00	0.00	2.61		10.35	18.92	83.84	86.68	29-May-16 18:00:00		10.35	18.92	83.84	89.29
29-May-16 19:00:00	29-May-16 20:00:00		0.00	0.00	0.00	7.94	2.1	329.7		0.00	0.00	0.00	2.62		10.35	18.92	83.84	86.68	29-May-16 19:00:00		10.35	18.92	83.84	89.30
29-May-16 20:00:00	29-May-16 21:00:00		0.00	0.00	0.00	7.96	2.1	329.7		0.00	0.00	0.00	2.63		10.35	18.92	83.84	86.68	29-May-16 20:00:00		10.35	18.92	83.84	89.31
29-May-16 21:00:00	29-May-16 22:00:00		0.00	0.00	0.00	7.96	2.1	329.7		0.00	0.00	0.00	2.62		10.35	18.92	83.84	86.68	29-May-16 21:00:00		10.35	18.92	83.84	89.30
29-May-16 22:00:00	29-May-16 23:00:00		1.86	0.00	0.00	8.04	2.1	329.7		0.61	0.00	0.00	2.65		10.35	18.92	83.84	86.68	29-May-16 22:00:00		10.96	18.92	83.84	89.33
29-May-16 23:00:00	30-May-16 00:00:00		2.51	0.00	0.00	8.16	2.1	329.7		0.83	0.00	0.00	2.69		10.35	18.92	83.84	86.68	29-May-16 23:00:00		11.18	18.92	83.84	89.37
30-May-16 00:00:00	30-May-16 01:00:00		4.02	0.00	0.00	8.28	2.1	329.7		1.33	0.00	0.00	2.73		10.35	18.92	83.84	86.68	30-May-16 00:00:00		11.68	18.92	83.84	89.41
30-May-16 01:00:00	30-May-16 02:00:00		7.92	0.00	0.00	8.41	2.1	329.7		2.61	0.00	0.00	2.77		10.35	18.92	83.84	86.68	30-May-16 01:00:00		12.96	18.92	83.84	89.45
30-May-16 02:00:00	30-May-16 03:00:00		7.25	0.00	0.00	8.42	2.1	329.7		2.39	0.00	0.00	2.78		10.35	18.92	83.84	86.68	30-May-16 02:00:00		12.74	18.92	83.84	89.46
30-May-16 03:00:00	30-May-16 04:00:00		4.37	0.00	0.00	8.41	2.1	329.7		1.44	0.00	0.00	2.77		10.35	18.92	83.84	86.68	30-May-16 03:00:00		11.79	18.92	83.84	89.45
30-May-16 04:00:00	30-May-16 05:00:00		2.54	0.00	0.00	8.40	2.1	329.7		0.84	0.00	0.00	2.77		10.35	18.92	83.84	86.68	30-May-16 04:00:00		11.19	18.92	83.84	89.45
30-May-16 05:00:00	30-May-16 06:00:00		1.72	0.00	0.00	8.39	2.1	329.7		0.57	0.00	0.00	2.77		10.35	18.92	83.84	86.68	30-May-16 05:00:00		10.92	18.92	83.84	89.45
30-May-16 06:00:00	30-May-16 07:00:00		1.20	0.00	0.00	8.30	2.1	329.7		0.39	0.00	0.00	2.73		10.35	18.92	83.84	86.68	30-May-16 06:00:00		10.74	18.92	83.84	89.41
30-May-16 07:00:00	30-May-16 08:00:00		0.67	0.00	0.00	8.18	2.1	329.7		0.22	0.00	0.00	2.70		10.35	18.92	83.84	86.68	30-May-16 07:00:00		10.57	18.92	83.84	89.38
30-May-16 08:00:00	30-May-16 09:00:00		0.16	0.00	0.00	8.06	2.1	329.7		0.05	0.00	0.00	2.66		10.35	18.92	83.84	86.68	30-May-16 08:00:00		10.40	18.92	83.84	89.34
30-May-16 09:00:00	30-May-16 10:00:00		0.00	0.00	0.00	7.93	2.1	329.7		0.00	0.00	0.00	2.61		10.35	18.92	83.84	86.68	30-May-16 09:00:00		10.35	18.92	83.84	89.29
30-May-16 10:00:00	30-May-16 11:00:00		0.08	0.00	0.00	7.82	2.1	329.7		0.03	0.00	0.00	2.58		10.35	18.92	83.84	86.68	30-May-16 10:00:00		10.38	18.92	83.84	89.26
30-May-16 11:00:00	30-May-16 12:00:00		0.00	0.00	0.00	7.72	2.1	329.7		0.00	0.00	0.00	2.54		10.35	18.92	83.84	86.68	30-May-16 11:00:00		10.35	18.92	83.84	89.22
30-May-16 12:00:00	30-May-16 13:00:00		0.00	0.00	0.00	7.62	2.1	329.7		0.00	0.00	0.00	2.51		10.35	18.92	83.84	86.68	30-May-16 12:00:00		10.35	18.92	83.84	89.19
30-May-16 13:00:00	30-May-16 14:00:00		1.98	0.00	0.00	7.44	2.1	329.7		0.65	0.00	0.00	2.45		10.35	18.92	83.84	86.68	30-May-16 13:00:00		11.00	18.92	83.84	89.13
30-May-16 14:00:00	30-May-16 15:00:00		1.65	0.00	0.00	7.26	2.1	329.7		0.55	0.00	0.00	2.39		10.35	18.92	83.84	86.68	30-May-16 14:00:00		10.90	18.92	83.84	89.07
30-May-16 15:00:00	30-May-16 16:00:00		0.00	0.00	0.00	7.13	2.1	329.7		0.00	0.00	0.00	2.35		10.35	18.92	83.84	86.68	30-May-16 15:00:00		10.35	18.92	83.84	89.03
30-May-16 16:00:00	30-May-16 17:00:00		0.00	0.00	0.00	7.00	2.1	329.7		0.00	0.00	0.00	2.31		10.35	18.92	83.84	86.68	30-May-16 16:00:00		10.35	18.92	83.84	88.99
30-May-16 17:00:00	30-May-16 18:00:00		0.00	0.00	0.00	7.06	2.1	329.7		0.00	0.00	0.00	2.33		10.35	18.92	83.84	86.68	30-May-16 17:00:00		10.35	18.92	83.84	89.01
30-May-16 18:00:00	30-May-16 19:00:00		0.00	0.00	0.00	7.29	2.1	329.7		0.00	0.00	0.00	2.40		10.35	18.92	83.84	86.68	30-May-16 18:00:00		10.35	18.92	83.84	89.08
30-May-16 19:00:00	30-May-16 20:00:00		0.00	0.00	0.00	7.44	2.1	329.7		0.00	0.00	0.00	2.45		10.35	18.92	83.84	86.68	30-May-16 19:00:00		10.35	18.92	83.84	89.13
30-May-16 20:00:00	30-May-16 21:00:00		0.00	0.00	0.00	7.59	2.1	329.7		0.00	0.00	0.00	2.50		10.35	18.92	83.84	86.68	30-May-16 20:00:00		10.35	18.92	83.84	89.18
30-May-16 21:00:00	30-May-16 22:00:00		0.00	0.00	0.00	7.76	2.1	329.7		0.00	0.00	0.00	2.56		10.35	18.92	83.84	86.68	30-May-16 21:00:00		10.35	18.92	83.84	89.24
30-May-16 22:00:00	30-May-16 23:00:00		0.00	0.00	0.00	7.87	2.1	329.7		0.00	0.00	0.00	2.59		10.35	18.92	83.84	86.68	30-May-16 22:00:00		10.35	18.92	83.84	89.27
30-May-16 23:00:00	31-May-16 00:00:00		0.22	0.00	0.00	7.94	2.1	329.7		0.07	0.00	0.00	2.62		10.35	18.92	83.84	86.68	30-May-16 23:00:00		10.42	18.92	83.84	89.30
31-May-16 00:00:00	31-May-16 01:00:00		1.06	0.00	0.00	8.01	2.1	329.7		0.35	0.00	0.00	2.64		10.35	18.92	83.84	86.68	31-May-16 00:00:00		10.70	18.92	83.84	89.32
31-May-16 01:00:00	31-May-16 02:00:00		0.00	0.00	0.00	8.10	2.1	329.7		0.00	0.00	0.00	2.67		10.35	18.92	83.84	86.68	31-May-16 01:00:00		10.35	18.92	83.84	89.35
31-May-16 02:00:00	31-May-16 03:00:00		0.00	0.00	0.00	8.17	2.1	329.7		0.00	0.00	0.00	2.69		10.35	18.92	83.84	86.68	31-May-16 02:00:00		10.35	18.92	83.84	89.37
31-May-16 03:00:00	31-May-16 04:00:00		0.00	0.00	0.00	8.22	2.1	329.7		0.00	0.00	0.00	2.71		10.35	18.92	83.84	86.68	31-May-16 03:00:00		10.35	18.92	83.84	89.39
31-May-16 04:00:00	31-May-16 05:00:00		0.09	0.00	0.00	8.27	2.1	329.7		0.03	0.00	0.00	2.73		10.35	18.92	83.84	86.68	31-May-16 04:00:00		10.38	18.92	83.84	89.41
31-May-16 05:00:00	31-May-16 06:00:00		1.10	0.00	0.00	8.29	2.1	329.7		0.36	0.00	0.00	2.73		10.35	18.92	83.84	86.68	31-May-16 05:00:00		10.71	18.92	83.84	89.41
31-May-16 06:00:00	31-May-16 07:00:00		2.37	0.00	0.00	8.20	2.1	329.7		0.78	0.00	0.00	2.70		10.35	18.92	83.84	86.68	31-May-16 06:00:00		11.13	18.92	83.84	89.38
31-May-16 07:00:00	31-May-16 08:00:00		1.87	0.00	0.00	8.10	2.1	329.7		0.62	0.00	0.00	2.67		10.35	18.92	83.84	86.68	31-May-16 07:00:00		10.97	18.92	83.84	89.35
31-May-16 08:00:00	31-May-16 09:00:00		1.25	0.00	0.00	8.00	2.1	329.7		0.41	0.00	0.00	2.64		10.35	18.92	83.84	86.68	31-May-16 08:00:00		10.76	18.92	83.84	89.32
31-May-16 09:00:00	31-May-16 10:00:00		2.47	0.00	0.00	7.88	2.1	329.7		0.81	0.00	0.00	2.60		10.35	18.92	83.84	86.68	31-May-16 09:00:00		11.16	18.92	83.84	89.28
31-May-16 10:00:00	31-May-16 11:00:00		2.27	0.00	0.00	7.59	2.1	329.7		0.75	0.00	0.00	2.50		10.35	18.92	83.84	86.68	31-May-16 10:00:00		11.10	18.92	83.84	89.18
31-May-16 11:00:00	31-May-16 12:00:00		1.58	0.00	0.00	7.43	2.1	329.7		0.52	0.00	0.00	2.45		10.35	18.92	83.84	86.68	31-May-16 11:00:00		10.87	18.92	83.84	89.13
31-May-16 12:00:00	31-May-16 13:00:00		1.21	0.00	0.00	7.38	2.1	329.7		0.40	0.00	0.00	2.43		10.35	18.92	83.84	86.68	31-May-16 12:00:00		10.75	18.92	83.84	89.11
31-May-16 13:00:00	31-May-16 14:00:00		0.40	0.00	0.00	7.33	2.1	329.7		0.13	0.00	0.00	2.42		10.35	18.92	83.84	86.68	31-May-16 13:00:00		10.48	18.92	83.84	89.10
31-May-16 14:00:00	31-May-16 15:00:00		0.00	0.00	0.00	7.28	2.1	329.7		0.00	0.00	0.00	2.40		10.35	18.92	83.84	86.68	31-May-16 14:00:00		10.35	18.92	83.84	89.08
31-May-16 15:00:00	31-May-16 16:00:00		0.00	0.00	0.00	7.22	2.1	329.7		0.00	0.00	0.00	2.38		10.35	18.92	83.84	86.68	31-May-16 15:00:00		10.35	18.92	83.84	89.06
31-May-16 16:00:00	31-May-16 17:00:00		0.00	0.00	0.00	7.22	2.1	329.7		0.00	0.00	0.00	2.38		10.35	18.92	83.84	86.68	31-May-16 16:00:00		10.35	18.92	83.84	89.06
31-May-16 17:00:00	31-May-16 18:00:00		0.15	0.00	0.00	7.22	2.1	329.7		0.05	0.00	0.00	2.38		10.35	18.92	83.84	86.68	31-May-16 17:00:00		10.40	18.92	83.84	89.06
31-May-16 18:00:00	31-May-16 19:00:00		2.34	0.00	0.00	7.21	2.1	329.7		0.77	0.00	0.00	2.38		10.35	18.92	83.84	86.68	31-May-16 18:00:00		11.12	18.92	83.84	89.06
31-May-16 19:00:00	31-May-16 20:00:00		0.85	0.00	0.00	7.24	2.1	329.7		0.28	0.00	0.00	2.39		10.35	18.92	83.84	86.68	31-May-16 19:00:00		10.63	18.92	83.84	89.07
31-May-16 20:00:00	31-May-16 21:00:00		21.29	0.00	0.00	7.44	2.1	329.7		7.02	0.00	0.00	2.45		10.35	18.92	83.84	86.68	31-May-16 20:00:00		17.37	18.92	83.84	89.13
31-May-16 21:00:00	31-May-16 22:00:00		5.97	0.00	0.00	7.63	2.1	329.7		1.97	0.00	0.00	2.52		10.35	18.92	83.84	86.68	31-May-16 21:00:00		12.32	18.92	83.84	89.20
31-May-16 22:00:00	31-May-16 23:00:00		2.35	0.00	0.00	7.82	2.1	329.7		0.77	0.00	0.00	2.58		10.35	18.92	83.84	86.68	31-May-16 22:00:00		11.12	18.92	83.84	89.26
31-May-16 23:00:00	01-Jun-16 00:00:00		0.00	0.00	0.00	7.96	2.1	329.7		0.00	0.00	0.00	2.63		10.35	18.92	83.84	86.68	31-May-16 23:00:00		10.35	18.92	83.84	89.31
01-Jun-16 00:00:00	01-Jun-16 01:00:00		0.00	0.00	0.00	8.07	2.1	329.7		0.00	0.00	0.00	2.66		10.35	18.92	83.84	86.68	01-Jun-16 00:00:00		10.35	18.92	83.84	89.34
01-Jun-16 01:00:00	01-Jun-16 02:00:00		0.86	0.00	0.00	8.17	2.1	329.7		0.28	0.00	0.00	2.69		10.35	18.92	83.84	86.68	01-Jun-16 01:00:00		10.63	18.92	83.84	89.37
01-Jun-16 02:00:00	01-Jun-16 03:00:00		0.51	0.00	0.00	8.26	2.1	329.7		0.17	0.00	0.00	2.72		10.35	18.92	83.84	86.68	01-Jun-16 02:00:00		10.52	18.92	83.84	89.40
01-Jun-16 03:00:00	01-Jun-16 04:00:00		0.31	0.00	0.00	8.15	2.1	329.7		0.10	0.00	0.00	2.69		10.35	18.92	83.84	86.68	01-Jun-16 03:00:00		10.45	18.92	83.84	89.37
01-Jun-16 04:00:00	01-Jun-16 05:00:00		0.22	0.00	0.00	8.13	2.1	329.7		0.07	0.00	0.00	2.68		10.35	18.92	83.84	86.68	01-Jun-16 04:00:00		10.42	18.92	83.84	89.36
01-Jun-16 05:00:00	01-Jun-16 06:00:00		10.87	0.00	0.00	8.12	2.1	329.7		3.59	0.00	0.00	2.68		10.35	18.92	83.84	86.68	01-Jun-16 05:00:00		13.94	18.92	83.84	89.36
01-Jun-16 06:00:00	01-Jun-16 07:00:00		9.62	0.00	0.00	8.11	2.1	329.7		3.17	0.00	0.00	2.67		10.35	18.92	83.84	86.68	01-Jun-16 06:00:00		13.52	18.92	83.84	89.35
01-Jun-16 07:00:00	01-Jun-16 08:00:00		2.86	0.00	0.00	8.11	2.1	329.7		0.94	0.00	0.00	2.67		10.35	18.92	83.84	86.68	01-Jun-16 07:00:00		11.29	18.92	83.84	89.35
01-Jun-16 08:00:00	01-Jun-16 09:00:00		0.66	0.00	0.00	7.89	2.1	329.7		0.22	0.00	0.00	2.60		10.35	18.92	83.84	86.68	01-Jun-16 08:00:00		10.57	18.92	83.84	89.28
01-Jun-16 09:00:00	01-Jun-16 10:00:00		0.94	0.00	0.00	7.67	2.1	329.7		0.31	0.00	0.00	2.53		10.35	18.92	83.84	86.68	01-Jun-16 09:00:00		10.66	18.92	83.84	89.21
01-Jun-16 10:00:00	01-Jun-16 11:00:00		0.11	0.00	0.00	7.44	2.1	329.7		0.04	0.00	0.00	2.45		10.35	18.92	83.84	86.68	01-Jun-16 10:00:00		10.39	18.92	83.84	89.13
01-Jun-16 11:00:00	01-Jun-16 12:00:00		0.94	0.00	0.00	7.26	2.1	329.7		0.31	0.00	0.00	2.39		10.35	18.92	83.84	86.68	01-Jun-16 11:00:00		10.66	18.92	83.84	89.07
01-Jun-16 12:00:00	01-Jun-16 13:00:00		0.54	0.00	0.00	7.20	2.1	329.7		0.18	0.00	0.00	2.37		10.35	18.92	83.84	86.68	01-Jun-16 12:00:00		10.53	18.92	83.84	89.05
01-Jun-16 13:00:00	01-Jun-16 14:00:00		0.00	0.00	0.00	7.14	2.1	329.7		0.00	0.00	0.00	2.35		10.35	18.92	83.84	86.68	01-Jun-16 13:00:00		10.35	18.92	83.84	89.03
01-Jun-16 14:00:00	01-Jun-16 15:00:00		0.00	0.00	0.00	7.08	2.1	329.7		0.00	0.00	0.00	2.34		10.35	18.92	83.84	86.68	01-Jun-16 14:00:00		10.35	18.92	83.84	89.02
01-Jun-16 15:00:00	01-Jun-16 16:00:00		0.08	0.00	0.00	7.16	2.1	329.7		0.03	0.00	0.00	2.36		10.35	18.92	83.84	86.68	01-Jun-16 15:00:00		10.38	18.92	83.84	89.04
01-Jun-16 16:00:00	01-Jun-16 17:00:00		0.89	0.00	0.00	7.19	2.1	329.7		0.29	0.00	0.00	2.37		10.35	18.92	83.84	86.68	01-Jun-16 16:00:00		10.64	18.92	83.84	89.05
01-Jun-16 17:00:00	01-Jun-16 18:00:00		0.00	0.00	0.00	7.21	2.1	329.7		0.00	0.00	0.00	2.38		10.35	18.92	83.84	86.68	01-Jun-16 17:00:00		10.35	18.92	83.84	89.06
01-Jun-16 18:00:00	01-Jun-16 19:00:00		0.00	0.00	0.00	7.24	2.1	329.7		0.00	0.00	0.00	2.39		10.35	18.92	83.84	86.68	01-Jun-16 18:00:00		10.35	18.92	83.84	89.07
01-Jun-16 19:00:00	01-Jun-16 20:00:00		0.00	0.00	0.00	7.29	2.1	329.7		0.00	0.00	0.00	2.40		10.35	18.92	83.84	86.68	01-Jun-16 19:00:00		10.35	18.92	83.84	89.08
01-Jun-16 20:00:00	01-Jun-16 21:00:00		0.53	0.00	0.00	7.48	2.1	329.7		0.18	0.00	0.00	2.47		10.35	18.92	83.84	86.68	01-Jun-16 20:00:00		10.53	18.92	83.84	89.15
01-Jun-16 21:00:00	01-Jun-16 22:00:00		4.36	0.00	0.00	7.68	2.1	329.7		1.44	0.00	0.00	2.53		10.35	18.92	83.84	86.68	01-Jun-16 21:00:00		11.79	18.92	83.84	89.21
01-Jun-16 22:00:00	01-Jun-16 23:00:00		3.10	0.00	0.00	7.88	2.1	329.7		1.02	0.00	0.00	2.60		10.35	18.92	83.84	86.68	01-Jun-16 22:00:00		11.37	18.92	83.84	89.28
01-Jun-16 23:00:00	02-Jun-16 00:00:00		5.50	0.00	0.00	8.01	2.1	329.7		1.81	0.00	0.00	2.64		10.35	18.92	83.84	86.68	01-Jun-16 23:00:00		12.16	18.92	83.84	89.32

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)								MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil		Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr		lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
03-Jun-16 23:00:00	04-Jun-16 00:00:00		3.51	0.00	0.00	7.55	2.1	329.7		1.16	0.00	0.00	2.49			10.35	18.92	83.84	86.68	03-Jun-16 23:00:00		11.51	18.92	83.84	89.17
04-Jun-16 00:00:00	04-Jun-16 01:00:00		1.29	0.00	0.00	7.75	2.1	329.7		0.43	0.00	0.00	2.56			10.35	18.92	83.84	86.68	04-Jun-16 00:00:00		10.78	18.92	83.84	89.24
04-Jun-16 01:00:00	04-Jun-16 02:00:00		7.86	0.00	0.00	7.82	2.1	329.7		2.59	0.00	0.00	2.58			10.35	18.92	83.84	86.68	04-Jun-16 01:00:00		12.94	18.92	83.84	89.26
04-Jun-16 02:00:00	04-Jun-16 03:00:00		10.33	0.00	0.00	7.85	2.1	329.7		3.41	0.00	0.00	2.59			10.35	18.92	83.84	86.68	04-Jun-16 02:00:00		13.76	18.92	83.84	89.27
04-Jun-16 03:00:00	04-Jun-16 04:00:00		5.84	0.00	0.00	7.88	2.1	329.7		1.92	0.00	0.00	2.60			10.35	18.92	83.84	86.68	04-Jun-16 03:00:00		12.27	18.92	83.84	89.28
04-Jun-16 04:00:00	04-Jun-16 05:00:00		0.06	0.00	0.00	7.95	2.1	329.7		0.02	0.00	0.00	2.62			10.35	18.92	83.84	86.68	04-Jun-16 04:00:00		10.37	18.92	83.84	89.30
04-Jun-16 05:00:00	04-Jun-16 06:00:00		0.00	0.00	0.00	7.98	2.1	329.7		0.00	0.00	0.00	2.63			10.35	18.92	83.84	86.68	04-Jun-16 05:00:00		10.35	18.92	83.84	89.31
04-Jun-16 06:00:00	04-Jun-16 07:00:00		0.00	0.00	0.00	7.96	2.1	329.7		0.00	0.00	0.00	2.62			10.35	18.92	83.84	86.68	04-Jun-16 06:00:00		10.35	18.92	83.84	89.30
04-Jun-16 07:00:00	04-Jun-16 08:00:00		0.00	0.00	0.00	7.93	2.1	329.7		0.00	0.00	0.00	2.61			10.35	18.92	83.84	86.68	04-Jun-16 07:00:00		10.35	18.92	83.84	89.29
04-Jun-16 08:00:00	04-Jun-16 09:00:00		0.00	0.00	0.00	7.92	2.1	329.7		0.00	0.00	0.00	2.61			10.35	18.92	83.84	86.68	04-Jun-16 08:00:00		10.35	18.92	83.84	89.29
04-Jun-16 09:00:00	04-Jun-16 10:00:00		0.00	0.00	0.00	7.72	2.1	329.7		0.00	0.00	0.00	2.55			10.35	18.92	83.84	86.68	04-Jun-16 09:00:00		10.35	18.92	83.84	89.23
04-Jun-16 10:00:00	04-Jun-16 11:00:00		0.16	0.00	0.00	7.44	2.1	329.7		0.05	0.00	0.00	2.45			10.35	18.92	83.84	86.68	04-Jun-16 10:00:00		10.40	18.92	83.84	89.13
04-Jun-16 11:00:00	04-Jun-16 12:00:00		8.07	0.00	0.00	7.16	2.1	329.7		2.66	0.00	0.00	2.36			10.35	18.92	83.84	86.68	04-Jun-16 11:00:00		13.01	18.92	83.84	89.04
04-Jun-16 12:00:00	04-Jun-16 13:00:00		0.69	0.00	0.00	6.92	2.1	329.7		0.23	0.00	0.00	2.28			10.35	18.92	83.84	86.68	04-Jun-16 12:00:00		10.58	18.92	83.84	88.96
04-Jun-16 13:00:00	04-Jun-16 14:00:00		2.10	0.00	0.00	6.86	2.1	329.7		0.69	0.00	0.00	2.26			10.35	18.92	83.84	86.68	04-Jun-16 13:00:00		11.04	18.92	83.84	88.94
04-Jun-16 14:00:00	04-Jun-16 15:00:00		3.18	0.00	0.00	6.80	2.1	329.7		1.05	0.00	0.00	2.24			10.35	18.92	83.84	86.68	04-Jun-16 14:00:00		11.40	18.92	83.84	88.92
04-Jun-16 15:00:00	04-Jun-16 16:00:00		2.81	0.00	0.00	6.74	2.1	329.7		0.93	0.00	0.00	2.22			10.35	18.92	83.84	86.68	04-Jun-16 15:00:00		11.28	18.92	83.84	88.90
04-Jun-16 16:00:00	04-Jun-16 17:00:00		2.77	0.00	0.00	6.71	2.1	329.7		0.91	0.00	0.00	2.21			10.35	18.92	83.84	86.68	04-Jun-16 16:00:00		11.26	18.92	83.84	88.89
04-Jun-16 17:00:00	04-Jun-16 18:00:00		0.36	0.00	0.00	6.89	2.1	329.7		0.12	0.00	0.00	2.27			10.35	18.92	83.84	86.68	04-Jun-16 17:00:00		10.47	18.92	83.84	88.95
04-Jun-16 18:00:00	04-Jun-16 19:00:00		0.72	0.00	0.00	7.12	2.1	329.7		0.24	0.00	0.00	2.35			10.35	18.92	83.84	86.68	04-Jun-16 18:00:00		10.59	18.92	83.84	89.03
04-Jun-16 19:00:00	04-Jun-16 20:00:00		2.31	0.00	0.00	22.68	2.1	329.7		0.76	0.00	0.00	7.48			10.35	18.92	83.84	86.68	04-Jun-16 19:00:00		11.11	18.92	83.84	94.16
04-Jun-16 20:00:00	04-Jun-16 21:00:00		3.57	0.00	0.00	90.36	2.1	329.7		1.18	0.00	0.00	29.79			10.35	18.92	83.84	86.68	04-Jun-16 20:00:00		11.53	18.92	83.84	116.47
04-Jun-16 21:00:00	04-Jun-16 22:00:00		0.66	0.00	0.00	233.78	2.1	329.7		0.22	0.00	0.00	77.08			10.35	18.92	83.84	86.68	04-Jun-16 21:00:00		10.57	18.92	83.84	163.76
04-Jun-16 22:00:00	04-Jun-16 23:00:00		2.42	0.00	0.00	9.42	2.1	329.7		0.80	0.00	0.00	3.10			10.35	18.92	83.84	86.68	04-Jun-16 22:00:00		11.15	18.92	83.84	89.78
04-Jun-16 23:00:00	05-Jun-16 00:00:00		0.44	0.00	0.00	9.31	2.1	329.7		0.15	0.00	0.00	3.07			10.35	18.92	83.84	86.68	04-Jun-16 23:00:00		10.50	18.92	83.84	89.75
05-Jun-16 00:00:00	05-Jun-16 01:00:00		0.31	0.00	0.00	9.20	2.1	329.7		0.10	0.00	0.00	3.03			10.35	18.92	83.84	86.68	05-Jun-16 00:00:00		10.45	18.92	83.84	89.71
05-Jun-16 01:00:00	05-Jun-16 02:00:00		0.17	0.00	0.00	9.07	2.1	329.7		0.06	0.00	0.00	2.99			10.35	18.92	83.84	86.68	05-Jun-16 01:00:00		10.41	18.92	83.84	89.67
05-Jun-16 02:00:00	05-Jun-16 03:00:00		0.04	0.00	0.00	8.81	2.1	329.7		0.01	0.00	0.00	2.90			10.35	18.92	83.84	86.68	05-Jun-16 02:00:00		10.36	18.92	83.84	89.58
05-Jun-16 03:00:00	05-Jun-16 04:00:00		0.00	0.00	0.00	8.59	2.1	329.7		0.00	0.00	0.00	2.83			10.35	18.92	83.84	86.68	05-Jun-16 03:00:00		10.35	18.92	83.84	89.51
05-Jun-16 04:00:00	05-Jun-16 05:00:00		0.00	0.00	0.00	8.36	2.1	329.7		0.00	0.00	0.00	2.76			10.35	18.92	83.84	86.68	05-Jun-16 04:00:00		10.35	18.92	83.84	89.44
05-Jun-16 05:00:00	05-Jun-16 06:00:00		0.00	0.00	0.00	8.15	2.1	329.7		0.00	0.00	0.00	2.69			10.35	18.92	83.84	86.68	05-Jun-16 05:00:00		10.35	18.92	83.84	89.37
05-Jun-16 06:00:00	05-Jun-16 07:00:00		0.00	0.00	0.00	8.08	2.1	329.7		0.00	0.00	0.00	2.66			10.35	18.92	83.84	86.68	05-Jun-16 06:00:00		10.35	18.92	83.84	89.34
05-Jun-16 07:00:00	05-Jun-16 08:00:00		0.09	0.00	0.00	7.97	2.1	329.7		0.03	0.00	0.00	2.63			10.35	18.92	83.84	86.68	05-Jun-16 07:00:00		10.38	18.92	83.84	89.31
05-Jun-16 08:00:00	05-Jun-16 09:00:00		0.21	0.00	0.00	7.86	2.1	329.7		0.07	0.00	0.00	2.59			10.35	18.92	83.84	86.68	05-Jun-16 08:00:00		10.42	18.92	83.84	89.27
05-Jun-16 09:00:00	05-Jun-16 10:00:00		0.33	0.00	0.00	7.79	2.1	329.7		0.11	0.00	0.00	2.57			10.35	18.92	83.84	86.68	05-Jun-16 09:00:00		10.46	18.92	83.84	89.25
05-Jun-16 10:00:00	05-Jun-16 11:00:00		0.81	0.00	0.00	7.82	2.1	329.7		0.27	0.00	0.00	2.58			10.35	18.92	83.84	86.68	05-Jun-16 10:00:00		10.62	18.92	83.84	89.26
05-Jun-16 11:00:00	05-Jun-16 12:00:00		0.49	0.00	0.00	7.71	2.1	329.7		0.16	0.00	0.00	2.54			10.35	18.92	83.84	86.68	05-Jun-16 11:00:00		10.51	18.92	83.84	89.22
05-Jun-16 12:00:00	05-Jun-16 13:00:00		2.24	0.00	0.00	7.59	2.1	329.7		0.74	0.00	0.00	2.50			10.35	18.92	83.84	86.68	05-Jun-16 12:00:00		11.09	18.92	83.84	89.18
05-Jun-16 13:00:00	05-Jun-16 14:00:00		7.60	0.00	0.00	7.47	2.1	329.7		2.50	0.00	0.00	2.46			10.35	18.92	83.84	86.68	05-Jun-16 13:00:00		12.85	18.92	83.84	89.14
05-Jun-16 14:00:00	05-Jun-16 15:00:00		5.52	0.00	0.00	7.41	2.1	329.7		1.82	0.00	0.00	2.44			10.35	18.92	83.84	86.68	05-Jun-16 14:00:00		12.17	18.92	83.84	89.12
05-Jun-16 15:00:00	05-Jun-16 16:00:00		13.05	0.00	0.00	7.45	2.1	329.7		4.30	0.00	0.00	2.46			10.35	18.92	83.84	86.68	05-Jun-16 15:00:00		14.65	18.92	83.84	89.14
05-Jun-16 16:00:00	05-Jun-16 17:00:00		0.65	0.00	0.00	7.49	2.1	329.7		0.21	0.00	0.00	2.47			10.35	18.92	83.84	86.68	05-Jun-16 16:00:00		10.56	18.92	83.84	89.15
05-Jun-16 17:00:00	05-Jun-16 18:00:00		4.58	0.00	0.00	7.52	2.1	329.7		1.51	0.00	0.00	2.48			10.35	18.92	83.84	86.68	05-Jun-16 17:00:00		11.86	18.92	83.84	89.16
05-Jun-16 18:00:00	05-Jun-16 19:00:00		6.74	0.00	0.00	7.51	2.1	329.7		2.22	0.00	0.00	2.48			10.35	18.92	83.84	86.68	05-Jun-16 18:00:00		12.57	18.92	83.84	89.16
05-Jun-16 19:00:00	05-Jun-16 20:00:00		10.17	0.00	0.00	7.57	2.1	329.7		3.35	0.00	0.00	2.49			10.35	18.92	83.84	86.68	05-Jun-16 19:00:00		13.70	18.92	83.84	89.17
05-Jun-16 20:00:00	05-Jun-16 21:00:00		6.78	0.00	0.00	7.62	2.1	329.7		2.23	0.00	0.00	2.51			10.35	18.92	83.84	86.68	05-Jun-16 20:00:00		12.58	18.92	83.84	89.19
05-Jun-16 21:00:00	05-Jun-16 22:00:00		4.56	0.00	0.00	7.68	2.1	329.7		1.50	0.00	0.00	2.53			10.35	18.92	83.84	86.68	05-Jun-16 21:00:00		11.85	18.92	83.84	89.21
05-Jun-16 22:00:00	05-Jun-16 23:00:00		10.49	0.00	0.00	7.71	2.1	329.7		3.46	0.00	0.00	2.54			10.35	18.92	83.84	86.68	05-Jun-16 22:00:00		13.81	18.92	83.84	89.22
05-Jun-16 23:00:00	06-Jun-16 00:00:00		7.09	0.00	0.00	7.69	2.1	329.7		2.34	0.00	0.00	2.53			10.35	18.92	83.84	86.68	05-Jun-16 23:00:00		12.69	18.92	83.84	89.21
06-Jun-16 00:00:00	06-Jun-16 01:00:00		4.14	0.00	0.00	7.66	2.1	329.7		1.37	0.00	0.00	2.53			10.35	18.92	83.84	86.68	06-Jun-16 00:00:00		11.72	18.92	83.84	89.21
06-Jun-16 01:00:00	06-Jun-16 02:00:00		0.83	0.00	0.00	7.61	2.1	329.7		0.27	0.00	0.00	2.51			10.35	18.92	83.84	86.68	06-Jun-16 01:00:00		10.62	18.92	83.84	89.19
06-Jun-16 02:00:00	06-Jun-16 03:00:00		0.87	0.00	0.00	7.51	2.1	329.7		0.29	0.00	0.00	2.48			10.35	18.92	83.84	86.68	06-Jun-16 02:00:00		10.64	18.92	83.84	89.16
06-Jun-16 03:00:00	06-Jun-16 04:00:00		0.58	0.00	0.00	7.60	2.1	329.7		0.19	0.00	0.00	2.50			10.35	18.92	83.84	86.68	06-Jun-16 03:00:00		10.54	18.92	83.84	89.18
06-Jun-16 04:00:00	06-Jun-16 05:00:00		0.29	0.00	0.00	7.68	2.1	329.7		0.10	0.00	0.00	2.53			10.35	18.92	83.84	86.68	06-Jun-16 04:00:00		10.45	18.92	83.84	89.21
06-Jun-16 05:00:00	06-Jun-16 06:00:00		0.04	0.00	0.00	7.75	2.1	329.7		0.01	0.00	0.00	2.55			10.35	18.92	83.84	86.68	06-Jun-16 05:00:00		10.36	18.92	83.84	89.23
06-Jun-16 06:00:00	06-Jun-16 07:00:00		0.00	0.00	0.00	7.64	2.1	329.7		0.00	0.00	0.00	2.52			10.35	18.92	83.84	86.68	06-Jun-16 06:00:00		10.35	18.92	83.84	89.20
06-Jun-16 07:00:00	06-Jun-16 08:00:00		0.00	0.00	0.00	7.55	2.1	329.7		0.00	0.00	0.00	2.49			10.35	18.92	83.84	86.68	06-Jun-16 07:00:00		10.35	18.92	83.84	89.17
06-Jun-16 08:00:00	06-Jun-16 09:00:00		0.00	0.00	0.00	7.46	2.1	329.7		0.00	0.00	0.00	2.46			10.35	18.92	83.84	86.68	06-Jun-16 08:00:00		10.35	18.92	83.84	89.14
06-Jun-16 09:00:00	06-Jun-16 10:00:00		0.00	0.00	0.00	7.37	2.1	329.7		0.00	0.00	0.00	2.43			10.35	18.92	83.84	86.68	06-Jun-16 09:00:00		10.35	18.92	83.84	89.11
06-Jun-16 10:00:00	06-Jun-16 11:00:00		0.00	0.00	0.00	7.34	2.1	329.7		0.00	0.00	0.00	2.42			10.35	18.92	83.84	86.68	06-Jun-16 10:00:00		10.35	18.92	83.84	89.10
06-Jun-16 11:00:00	06-Jun-16 12:00:00		0.00	0.00	0.00	7.34	2.1	329.7		0.00	0.00	0.00	2.42			10.35	18.92	83.84	86.68	06-Jun-16 11:00:00		10.35	18.92	83.84	89.10
06-Jun-16 12:00:00	06-Jun-16 13:00:00		0.00	0.00	0.00	7.34	2.1	329.7		0.00	0.00	0.00	2.42			10.35	18.92	83.84	86.68	06-Jun-16 12:00:00		10.35	18.92	83.84	89.10
06-Jun-16 13:00:00	06-Jun-16 14:00:00		0.00	0.00	0.00	7.33	2.1	329.7		0.00	0.00	0.00	2.42			10.35	18.92	83.84	86.68	06-Jun-16 13:00:00		10.35	18.92	83.84	89.10
06-Jun-16 14:00:00	06-Jun-16 15:00:00		0.00	0.00	0.00	7.37	2.1	329.7		0.00	0.00	0.00	2.43			10.35	18.92	83.84	86.68	06-Jun-16 14:00:00		10.35	18.92	83.84	89.11
06-Jun-16 15:00:00	06-Jun-16 16:00:00		0.00	0.00	0.00	7.41	2.1	329.7		0.00	0.00	0.00	2.44			10.35	18.92	83.84	86.68	06-Jun-16 15:00:00		10.35	18.92	83.84	89.12
06-Jun-16 16:00:00	06-Jun-16 17:00:00		0.00	0.00	0.00	7.45	2.1	329.7		0.00	0.00	0.00	2.46			10.35	18.92	83.84	86.68	06-Jun-16 16:00:00		10.35	18.92	83.84	89.14
06-Jun-16 17:00:00	06-Jun-16 18:00:00		0.00	0.00	0.00	7.49	2.1	329.7		0.00	0.00	0.00	2.47			10.35	18.92	83.84	86.68	06-Jun-16 17:00:00		10.35	18.92	83.84	89.15
06-Jun-16 18:00:00	06-Jun-16 19:00:00		0.00	0.00	0.00	7.52	2.1	329.7		0.00	0.00	0.00	2.48			10.35	18.92	83.84	86.68	06-Jun-16 18:00:00		10.35	18.92	83.84	89.16
06-Jun-16 19:00:00	06-Jun-16 20:00:00		0.00	0.00	0.00	7.63	2.1	329.7		0.00	0.00	0.00	2.52			10.35	18.92	83.84	86.68	06-Jun-16 19:00:00		10.35	18.92	83.84	89.20
06-Jun-16 20:00:00	06-Jun-16 21:00:00		1,120.52	0.00	0.00	7.75	2.1	329.7		369.44	0.00	0.00	2.55			10.35	18.92	83.84	86.68	06-Jun-16 20:00:00		379.79	18.92	83.84	89.23
06-Jun-16 21:00:00	06-Jun-16 22:00:00		1,930.33	0.00	0.00	7.86	2.1	329.7		636.43	0.00	0.00	2.59			10.35	18.92	83.84	86.68	06-Jun-16 21:00:00		646.78	18.92	83.84	89.27
06-Jun-16 22:00:00	06-Jun-16 23:00:00		1,943.94	0.00	0.00	7.92	2.1	329.7		640.92	0.00	0.00	2.61			10.35	18.92	83.84	86.68	06-Jun-16 22:00:00		651.27	18.92	83.84	89.29
06-Jun-16 23:00:00	07-Jun-16 00:00:00		1,951.55	0.00	0.00	7.91	2.1	329.7		643.43	0.00	0.00	2.61			10.35	18.92	83.84	86.68	06-Jun-16 23:00:00		653.78	18.92	83.84	89.29
07-Jun-16 00:00:00	07-Jun-16 01:00:00		1,968.73	0.00	0.00	7.91	2.1	329.7		649.09	0.00	0.00	2.61			10.35	18.92	83.84	86.68	07-Jun-16 00:00:00		659.44	18.92	83.84	89.29
07-Jun-16 01:00:00	07-Jun-16 02:00:00		1,981.16	0.00	0.00	7.91	2.1	329.7		653.19	0.00	0.00	2.61			10.35	18.92	83.84	86.68	07-Jun-16 01:00:00		663.54	18.92	83.84	89.29
07-Jun-16 02:00:00	07-Jun-16 03:00:00		1,985.11	0.00	0.00	7.87	2.1	329.7		654.49	0.00	0.00	2.59			10.35	18.92	83.84	86.68	07-Jun-16 02:00:00		664.84	18.92	83.84	89.27
07-Jun-16 03:00:00	07-Jun-16 04:00:00		1,983.75	0.00	0.00	7.81	2.1	329.7		654.04	0.00	0.00	2.57			10.35	18.92	83.84	86.68	07-Jun-16 03:00:00		664.39	18.92	83.84	89.25
07-Jun-16 04:00:00	07-Jun-16 05:00:00		1,986.22	0.00	0.00	7.75	2.1	329.7		654.86	0.00	0.00	2.55			10.35	18.92	83.84	86.68	07-Jun-16 04:00:00		665.21	18.92	83.84	89.23
07-Jun-16 05:00:00	07-Jun-16 06:00:00		1,971.41	0.00	0.00	7.69	2.1	329.7		649.97	0.00	0.00	2.54			10.35	18.92	83.84	86.68	07-Jun-16 05:00:00		660.32	18.92	83.84	89.22
07-Jun-16 06:00:00	07-Jun-16 07:00:00		1,106.59	0.00	0.00	7.66	2.1	329.7		364.84	0.00	0.00	2.53			10.35	18.92	83.84	86.68	07-Jun-16 06:00:00		375.19	18.92	83.84	89.21
07-Jun-16 07:00:00	07-Jun-16 08:00:00		0.00	0.00	0.00	7.57	2.1	329.7		0.00	0.00	0.00	2.50			10.35	18.92	83.84	86.68	07-Jun-16 07:00:00		10.35	18.92	83.84	89.18
07-Jun-16 08:00:00	07-Jun-16 09:00:00		0.00	0.00	0.00	7.48	2.1	329.7		0.00	0.00	0.00	2.46			10.35	18.92	83.84	86.68	07-Jun-16 08:00:00		10.35	18.92	83.84	89.14
07-Jun-16 09:00:00	07-Jun-16 10:00:00		0.00	0.00	0.00	7.38	2.1	329.7		0.00	0.00	0.00	2.43			10.35	18.92	83.84	86.68	07-Jun-16 09:00:00		10.35	18.92	83.84	89.11
07-Jun-16 10:00:00	07-Jun-16 11:00:00		0.00	0.00	0.00	7.28	2.1	329.7		0.00	0.00	0.00	2.40			10.35	18.92	83.84	86.68	07-Jun-16 10:00:00		10.35	18.92	83.84	89.08
07-Jun-16 11:00:00	07-Jun-16 12:00:00		2.02	0.00	0.00	7.17	2.1	329.7		0.66	0.00	0.00	2.36			10.35	18.92	83.84	86.68	07-Jun-16 11:00:00		11.01	18.92	83.84	89.04
07-Jun-16 12:00:00	07-Jun-16 13:00:00		3.88	0.00	0.00	7.06	2.1	329.7		1.28	0.00	0.00	2.33			10.35	18.92	83.84	86.68	07-Jun-16 12:00:00		11.63	18.92	83.84	89.01
07-Jun-16 13:00:00	07-Jun-16 14:00:00		8.39	0.00	0.00	6.96	2.1	329.7		2.77	0.00	0.00	2.29			10.35	18.92	83.84	86.68	07-Jun-16 13:00:00		13.12	18.92	83.84	88.97
07-Jun-16 14:00:00	07-Jun-16 15:00:00		11.78	0.00	0.00	6.98	2.1	329.7		3.88	0.00	0.00	2.30			10.35	18.92	83.84	86.68	07-Jun-16 14:00:00		14.23	18.92	83.84	88.98
07-Jun-16 15:00:00	07-Jun-16 16:00:00		0.00	0.00	0.00	7.08	2.1	329.7		0.00	0.00	0.00	2.33			10.35	18.92	83.84	86.68	07-Jun-16 15:00:00		10.35	18.92	83.84	89.01
07-Jun-16 16:00:00	07-Jun-16 17:00:00		262.70	0.00	0.00	7.18	2.1	329.7		86.61	0.00	0.00	2.37			10.35	18.92	83.84	86.68	07-Jun-16 16:00:00		96.96	18.92	83.84	89.05
07-Jun-16 17:00:00	07-Jun-16 18:00:00		644.55	0.00	0.00	7.28	2.1	329.7		212.51	0.00	0.00	2.40			10.35	18.92	83.84	86.68	07-Jun-16 17:00:00		222.86	18.92	83.84	89.08
07-Jun-16 18:00:00	07-Jun-16 19:00:00		621.30	0.00	0.00	7.10	2.1	329.7		204.84	0.00	0.00	2.34			10.35	18.92	83.84	86.68	07-Jun-16 18:00:00		215.19	18.92	83.84	89.02
07-Jun-16 19:00:00	07-Jun-16 20:00:00		614.24	0.00	0.00	7.01	2.1	329.7		202.52	0.00	0.00	2.31		

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
09-Jun-16 22:00:00	09-Jun-16 23:00:00		0.00	0.00	0.00	7.34	2.1	329.7		0.00	0.00	0.00	2.42		10.35	18.92	83.84	86.68	09-Jun-16 22:00:00		**10.35**	**18.92**	**83.84**	**89.10**
09-Jun-16 23:00:00	10-Jun-16 00:00:00		0.00	0.00	0.00	7.50	2.1	329.7		0.00	0.00	0.00	2.47		10.35	18.92	83.84	86.68	09-Jun-16 23:00:00		**10.35**	**18.92**	**83.84**	**89.15**
10-Jun-16 00:00:00	10-Jun-16 01:00:00		0.78	0.00	0.00	7.66	2.1	329.7		0.26	0.00	0.00	2.52		10.35	18.92	83.84	86.68	10-Jun-16 00:00:00		**10.61**	**18.92**	**83.84**	**89.20**
10-Jun-16 01:00:00	10-Jun-16 02:00:00		5.84	0.00	0.00	7.81	2.1	329.7		1.93	0.00	0.00	2.58		10.35	18.92	83.84	86.68	10-Jun-16 01:00:00		**12.28**	**18.92**	**83.84**	**89.26**
10-Jun-16 02:00:00	10-Jun-16 03:00:00		6.47	0.00	0.00	7.91	2.1	329.7		2.13	0.00	0.00	2.61		10.35	18.92	83.84	86.68	10-Jun-16 02:00:00		**12.48**	**18.92**	**83.84**	**89.29**
10-Jun-16 03:00:00	10-Jun-16 04:00:00		5.97	0.00	0.00	7.93	2.1	329.7		1.97	0.00	0.00	2.61		10.35	18.92	83.84	86.68	10-Jun-16 03:00:00		**12.32**	**18.92**	**83.84**	**89.29**
10-Jun-16 04:00:00	10-Jun-16 05:00:00		3.42	0.00	0.00	7.95	2.1	329.7		1.13	0.00	0.00	2.62		10.35	18.92	83.84	86.68	10-Jun-16 04:00:00		**11.48**	**18.92**	**83.84**	**89.30**
10-Jun-16 05:00:00	10-Jun-16 06:00:00		6.60	0.00	0.00	7.96	2.1	329.7		2.18	0.00	0.00	2.63		10.35	18.92	83.84	86.68	10-Jun-16 05:00:00		**12.53**	**18.92**	**83.84**	**89.31**
10-Jun-16 06:00:00	10-Jun-16 07:00:00		0.00	0.00	0.00	7.86	2.1	329.7		0.00	0.00	0.00	2.59		10.35	18.92	83.84	86.68	10-Jun-16 06:00:00		**10.35**	**18.92**	**83.84**	**89.27**
10-Jun-16 07:00:00	10-Jun-16 08:00:00		0.00	0.00	0.00	7.71	2.1	329.7		0.00	0.00	0.00	2.54		10.35	18.92	83.84	86.68	10-Jun-16 07:00:00		**10.35**	**18.92**	**83.84**	**89.22**
10-Jun-16 08:00:00	10-Jun-16 09:00:00		0.00	0.00	0.00	7.57	2.1	329.7		0.00	0.00	0.00	2.50		10.35	18.92	83.84	86.68	10-Jun-16 08:00:00		**10.35**	**18.92**	**83.84**	**89.18**
10-Jun-16 09:00:00	10-Jun-16 10:00:00		2.38	0.00	0.00	7.42	2.1	329.7		0.79	0.00	0.00	2.45		10.35	18.92	83.84	86.68	10-Jun-16 09:00:00		**11.14**	**18.92**	**83.84**	**89.13**
10-Jun-16 10:00:00	10-Jun-16 11:00:00		0.89	0.00	0.00	7.21	2.1	329.7		0.29	0.00	0.00	2.38		10.35	18.92	83.84	86.68	10-Jun-16 10:00:00		**10.64**	**18.92**	**83.84**	**89.06**
10-Jun-16 11:00:00	10-Jun-16 12:00:00		0.50	0.00	0.00	7.08	2.1	329.7		0.17	0.00	0.00	2.34		10.35	18.92	83.84	86.68	10-Jun-16 11:00:00		**10.52**	**18.92**	**83.84**	**89.02**
10-Jun-16 12:00:00	10-Jun-16 13:00:00		0.87	0.00	0.00	6.97	2.1	329.7		0.29	0.00	0.00	2.30		10.35	18.92	83.84	86.68	10-Jun-16 12:00:00		**10.64**	**18.92**	**83.84**	**88.98**
10-Jun-16 13:00:00	10-Jun-16 14:00:00		1.30	0.00	0.00	6.85	2.1	329.7		0.43	0.00	0.00	2.26		10.35	18.92	83.84	86.68	10-Jun-16 13:00:00		**10.78**	**18.92**	**83.84**	**88.94**
10-Jun-16 14:00:00	10-Jun-16 15:00:00		2.61	0.00	0.00	6.83	2.1	329.7		0.86	0.00	0.00	2.25		10.35	18.92	83.84	86.68	10-Jun-16 14:00:00		**11.21**	**18.92**	**83.84**	**88.93**
10-Jun-16 15:00:00	10-Jun-16 16:00:00		0.05	0.00	0.00	6.82	2.1	329.7		0.02	0.00	0.00	2.25		10.35	18.92	83.84	86.68	10-Jun-16 15:00:00		**10.37**	**18.92**	**83.84**	**88.93**
10-Jun-16 16:00:00	10-Jun-16 17:00:00		1.44	0.00	0.00	6.80	2.1	329.7		0.48	0.00	0.00	2.24		10.35	18.92	83.84	86.68	10-Jun-16 16:00:00		**10.83**	**18.92**	**83.84**	**88.92**
10-Jun-16 17:00:00	10-Jun-16 18:00:00		0.38	0.00	0.00	6.78	2.1	329.7		0.13	0.00	0.00	2.23		10.35	18.92	83.84	86.68	10-Jun-16 17:00:00		**10.48**	**18.92**	**83.84**	**88.91**
10-Jun-16 18:00:00	10-Jun-16 19:00:00		0.13	0.00	0.00	6.77	2.1	329.7		0.04	0.00	0.00	2.23		10.35	18.92	83.84	86.68	10-Jun-16 18:00:00		**10.39**	**18.92**	**83.84**	**88.91**
10-Jun-16 19:00:00	10-Jun-16 20:00:00		0.00	0.00	0.00	6.93	2.1	329.7		0.00	0.00	0.00	2.28		10.35	18.92	83.84	86.68	10-Jun-16 19:00:00		**10.35**	**18.92**	**83.84**	**88.96**
10-Jun-16 20:00:00	10-Jun-16 21:00:00		0.00	0.00	0.00	7.10	2.1	329.7		0.00	0.00	0.00	2.34		10.35	18.92	83.84	86.68	10-Jun-16 20:00:00		**10.35**	**18.92**	**83.84**	**89.02**
10-Jun-16 21:00:00	10-Jun-16 22:00:00		0.00	0.00	0.00	7.27	2.1	329.7		0.00	0.00	0.00	2.40		10.35	18.92	83.84	86.68	10-Jun-16 21:00:00		**10.35**	**18.92**	**83.84**	**89.08**
10-Jun-16 22:00:00	10-Jun-16 23:00:00		0.44	0.00	0.00	7.41	2.1	329.7		0.15	0.00	0.00	2.44		10.35	18.92	83.84	86.68	10-Jun-16 22:00:00		**10.50**	**18.92**	**83.84**	**89.12**
10-Jun-16 23:00:00	11-Jun-16 00:00:00		0.00	0.00	0.00	7.54	2.1	329.7		0.00	0.00	0.00	2.49		10.35	18.92	83.84	86.68	10-Jun-16 23:00:00		**10.35**	**18.92**	**83.84**	**89.17**
11-Jun-16 00:00:00	11-Jun-16 01:00:00		0.37	0.00	0.00	7.68	2.1	329.7		0.12	0.00	0.00	2.53		10.35	18.92	83.84	86.68	11-Jun-16 00:00:00		**10.47**	**18.92**	**83.84**	**89.21**
11-Jun-16 01:00:00	11-Jun-16 02:00:00		1.98	0.00	0.00	7.82	2.1	329.7		0.65	0.00	0.00	2.58		10.35	18.92	83.84	86.68	11-Jun-16 01:00:00		**11.00**	**18.92**	**83.84**	**89.26**
11-Jun-16 02:00:00	11-Jun-16 03:00:00		1.41	0.00	0.00	7.80	2.1	329.7		0.47	0.00	0.00	2.57		10.35	18.92	83.84	86.68	11-Jun-16 02:00:00		**10.82**	**18.92**	**83.84**	**89.25**
11-Jun-16 03:00:00	11-Jun-16 04:00:00		0.84	0.00	0.00	7.73	2.1	329.7		0.28	0.00	0.00	2.55		10.35	18.92	83.84	86.68	11-Jun-16 03:00:00		**10.63**	**18.92**	**83.84**	**89.23**
11-Jun-16 04:00:00	11-Jun-16 05:00:00		0.27	0.00	0.00	7.68	2.1	329.7		0.09	0.00	0.00	2.53		10.35	18.92	83.84	86.68	11-Jun-16 04:00:00		**10.44**	**18.92**	**83.84**	**89.21**
11-Jun-16 05:00:00	11-Jun-16 06:00:00		0.00	0.00	0.00	7.63	2.1	329.7		0.00	0.00	0.00	2.52		10.35	18.92	83.84	86.68	11-Jun-16 05:00:00		**10.35**	**18.92**	**83.84**	**89.20**
11-Jun-16 06:00:00	11-Jun-16 07:00:00		0.00	0.00	0.00	7.67	2.1	329.7		0.00	0.00	0.00	2.53		10.35	18.92	83.84	86.68	11-Jun-16 06:00:00		**10.35**	**18.92**	**83.84**	**89.21**
11-Jun-16 07:00:00	11-Jun-16 08:00:00		0.00	0.00	0.00	7.56	2.1	329.7		0.00	0.00	0.00	2.49		10.35	18.92	83.84	86.68	11-Jun-16 07:00:00		**10.35**	**18.92**	**83.84**	**89.17**
11-Jun-16 08:00:00	11-Jun-16 09:00:00		0.08	0.00	0.00	7.43	2.1	329.7		0.00	0.00	0.00	2.45		10.35	18.92	83.84	86.68	11-Jun-16 08:00:00		**10.35**	**18.92**	**83.84**	**89.13**
11-Jun-16 09:00:00	11-Jun-16 10:00:00		0.24	0.00	0.00	7.30	2.1	329.7		0.08	0.00	0.00	2.41		10.35	18.92	83.84	86.68	11-Jun-16 09:00:00		**10.43**	**18.92**	**83.84**	**89.09**
11-Jun-16 10:00:00	11-Jun-16 11:00:00		2.14	0.00	0.00	6.99	2.1	329.7		0.71	0.00	0.00	2.30		10.35	18.92	83.84	86.68	11-Jun-16 10:00:00		**11.06**	**18.92**	**83.84**	**88.98**
11-Jun-16 11:00:00	11-Jun-16 12:00:00		7.51	0.00	0.00	6.78	2.1	329.7		2.48	0.00	0.00	2.23		10.35	18.92	83.84	86.68	11-Jun-16 11:00:00		**12.83**	**18.92**	**83.84**	**88.91**
11-Jun-16 12:00:00	11-Jun-16 13:00:00		14.20	0.00	0.00	6.60	2.1	329.7		4.68	0.00	0.00	2.18		10.35	18.92	83.84	86.68	11-Jun-16 12:00:00		**15.03**	**18.92**	**83.84**	**88.86**
11-Jun-16 13:00:00	11-Jun-16 14:00:00		4.17	0.00	0.00	6.42	2.1	329.7		1.38	0.00	0.00	2.12		10.35	18.92	83.84	86.68	11-Jun-16 13:00:00		**11.73**	**18.92**	**83.84**	**88.80**
11-Jun-16 14:00:00	11-Jun-16 15:00:00		2.25	0.00	0.00	6.32	2.1	329.7		0.74	0.00	0.00	2.08		10.35	18.92	83.84	86.68	11-Jun-16 14:00:00		**11.09**	**18.92**	**83.84**	**88.76**
11-Jun-16 15:00:00	11-Jun-16 16:00:00		1.73	0.00	0.00	6.29	2.1	329.7		0.57	0.00	0.00	2.07		10.35	18.92	83.84	86.68	11-Jun-16 15:00:00		**10.92**	**18.92**	**83.84**	**88.75**
11-Jun-16 16:00:00	11-Jun-16 17:00:00		0.00	0.00	0.00	6.26	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	11-Jun-16 16:00:00		**10.35**	**18.92**	**83.84**	**88.75**
11-Jun-16 17:00:00	11-Jun-16 18:00:00		0.00	0.00	0.00	6.23	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	11-Jun-16 17:00:00		**10.35**	**18.92**	**83.84**	**88.74**
11-Jun-16 18:00:00	11-Jun-16 19:00:00		0.10	0.00	0.00	6.29	2.1	329.7		0.03	0.00	0.00	2.08		10.35	18.92	83.84	86.68	11-Jun-16 18:00:00		**10.38**	**18.92**	**83.84**	**88.76**
11-Jun-16 19:00:00	11-Jun-16 20:00:00		0.00	0.00	0.00	6.39	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	11-Jun-16 19:00:00		**10.35**	**18.92**	**83.84**	**88.79**
11-Jun-16 20:00:00	11-Jun-16 21:00:00		0.00	0.00	0.00	6.47	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	11-Jun-16 20:00:00		**10.35**	**18.92**	**83.84**	**88.81**
11-Jun-16 21:00:00	11-Jun-16 22:00:00		0.25	0.00	0.00	6.55	2.1	329.7		0.08	0.00	0.00	2.16		10.35	18.92	83.84	86.68	11-Jun-16 21:00:00		**10.43**	**18.92**	**83.84**	**88.84**
11-Jun-16 22:00:00	11-Jun-16 23:00:00		3.72	0.00	0.00	6.58	2.1	329.7		1.22	0.00	0.00	2.17		10.35	18.92	83.84	86.68	11-Jun-16 22:00:00		**11.57**	**18.92**	**83.84**	**88.85**
11-Jun-16 23:00:00	12-Jun-16 00:00:00		3.43	0.00	0.00	6.72	2.1	329.7		1.13	0.00	0.00	2.21		10.35	18.92	83.84	86.68	11-Jun-16 23:00:00		**11.48**	**18.92**	**83.84**	**88.89**
12-Jun-16 00:00:00	12-Jun-16 01:00:00		2.51	0.00	0.00	6.87	2.1	329.7		0.83	0.00	0.00	2.27		10.35	18.92	83.84	86.68	12-Jun-16 00:00:00		**11.18**	**18.92**	**83.84**	**88.95**
12-Jun-16 01:00:00	12-Jun-16 02:00:00		3.54	0.00	0.00	7.03	2.1	329.7		1.17	0.00	0.00	2.32		10.35	18.92	83.84	86.68	12-Jun-16 01:00:00		**11.52**	**18.92**	**83.84**	**89.00**
12-Jun-16 02:00:00	12-Jun-16 03:00:00		1.69	0.00	0.00	7.13	2.1	329.7		0.56	0.00	0.00	2.35		10.35	18.92	83.84	86.68	12-Jun-16 02:00:00		**10.91**	**18.92**	**83.84**	**89.03**
12-Jun-16 03:00:00	12-Jun-16 04:00:00		4.36	0.00	0.00	7.18	2.1	329.7		1.44	0.00	0.00	2.37		10.35	18.92	83.84	86.68	12-Jun-16 03:00:00		**11.79**	**18.92**	**83.84**	**89.05**
12-Jun-16 04:00:00	12-Jun-16 05:00:00		4.10	0.00	0.00	7.25	2.1	329.7		1.35	0.00	0.00	2.39		10.35	18.92	83.84	86.68	12-Jun-16 04:00:00		**11.70**	**18.92**	**83.84**	**89.07**
12-Jun-16 05:00:00	12-Jun-16 06:00:00		1.75	0.00	0.00	7.31	2.1	329.7		0.58	0.00	0.00	2.41		10.35	18.92	83.84	86.68	12-Jun-16 05:00:00		**10.93**	**18.92**	**83.84**	**89.09**
12-Jun-16 06:00:00	12-Jun-16 07:00:00		0.94	0.00	0.00	7.30	2.1	329.7		0.31	0.00	0.00	2.41		10.35	18.92	83.84	86.68	12-Jun-16 06:00:00		**10.66**	**18.92**	**83.84**	**89.09**
12-Jun-16 07:00:00	12-Jun-16 08:00:00		0.58	0.00	0.00	7.16	2.1	329.7		0.19	0.00	0.00	2.36		10.35	18.92	83.84	86.68	12-Jun-16 07:00:00		**10.54**	**18.92**	**83.84**	**89.04**
12-Jun-16 08:00:00	12-Jun-16 09:00:00		0.23	0.00	0.00	7.02	2.1	329.7		0.07	0.00	0.00	2.31		10.35	18.92	83.84	86.68	12-Jun-16 08:00:00		**10.42**	**18.92**	**83.84**	**88.99**
12-Jun-16 09:00:00	12-Jun-16 10:00:00		0.97	0.00	0.00	6.88	2.1	329.7		0.32	0.00	0.00	2.27		10.35	18.92	83.84	86.68	12-Jun-16 09:00:00		**10.67**	**18.92**	**83.84**	**88.95**
12-Jun-16 10:00:00	12-Jun-16 11:00:00		2.13	0.00	0.00	6.83	2.1	329.7		0.70	0.00	0.00	2.25		10.35	18.92	83.84	86.68	12-Jun-16 10:00:00		**11.05**	**18.92**	**83.84**	**88.93**
12-Jun-16 11:00:00	12-Jun-16 12:00:00		2.06	0.00	0.00	6.97	2.1	329.7		0.68	0.00	0.00	2.30		10.35	18.92	83.84	86.68	12-Jun-16 11:00:00		**11.03**	**18.92**	**83.84**	**88.98**
12-Jun-16 12:00:00	12-Jun-16 13:00:00		0.97	0.00	0.00	7.12	2.1	329.7		0.32	0.00	0.00	2.35		10.35	18.92	83.84	86.68	12-Jun-16 12:00:00		**10.67**	**18.92**	**83.84**	**89.03**
12-Jun-16 13:00:00	12-Jun-16 14:00:00		0.78	0.00	0.00	7.27	2.1	329.7		0.26	0.00	0.00	2.40		10.35	18.92	83.84	86.68	12-Jun-16 13:00:00		**10.61**	**18.92**	**83.84**	**89.08**
12-Jun-16 14:00:00	12-Jun-16 15:00:00		2.63	0.00	0.00	7.23	2.1	329.7		0.87	0.00	0.00	2.38		10.35	18.92	83.84	86.68	12-Jun-16 14:00:00		**11.22**	**18.92**	**83.84**	**89.06**
12-Jun-16 15:00:00	12-Jun-16 16:00:00		0.72	0.00	0.00	6.95	2.1	329.7		0.24	0.00	0.00	2.29		10.35	18.92	83.84	86.68	12-Jun-16 15:00:00		**10.59**	**18.92**	**83.84**	**88.97**
12-Jun-16 16:00:00	12-Jun-16 17:00:00		0.00	0.00	0.00	6.69	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	12-Jun-16 16:00:00		**10.35**	**18.92**	**83.84**	**88.89**
12-Jun-16 17:00:00	12-Jun-16 18:00:00		0.00	0.00	0.00	6.43	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	12-Jun-16 17:00:00		**10.35**	**18.92**	**83.84**	**88.80**
12-Jun-16 18:00:00	12-Jun-16 19:00:00		0.00	0.00	0.00	6.17	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	12-Jun-16 18:00:00		**10.35**	**18.92**	**83.84**	**88.72**
12-Jun-16 19:00:00	12-Jun-16 20:00:00		0.00	0.00	0.00	6.16	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	12-Jun-16 19:00:00		**10.35**	**18.92**	**83.84**	**88.71**
12-Jun-16 20:00:00	12-Jun-16 21:00:00		0.05	0.00	0.00	6.18	2.1	329.7		0.02	0.00	0.00	2.04		10.35	18.92	83.84	86.68	12-Jun-16 20:00:00		**10.37**	**18.92**	**83.84**	**88.72**
12-Jun-16 21:00:00	12-Jun-16 22:00:00		1.12	0.00	0.00	6.20	2.1	329.7		0.37	0.00	0.00	2.04		10.35	18.92	83.84	86.68	12-Jun-16 21:00:00		**10.72**	**18.92**	**83.84**	**88.72**
12-Jun-16 22:00:00	12-Jun-16 23:00:00		1.11	0.00	0.00	6.36	2.1	329.7		0.37	0.00	0.00	2.10		10.35	18.92	83.84	86.68	12-Jun-16 22:00:00		**10.72**	**18.92**	**83.84**	**88.78**
12-Jun-16 23:00:00	13-Jun-16 00:00:00		1.26	0.00	0.00	6.64	2.1	329.7		0.42	0.00	0.00	2.19		10.35	18.92	83.84	86.68	12-Jun-16 23:00:00		**10.77**	**18.92**	**83.84**	**88.87**
13-Jun-16 00:00:00	13-Jun-16 01:00:00		0.07	0.00	0.00	6.92	2.1	329.7		0.02	0.00	0.00	2.28		10.35	18.92	83.84	86.68	13-Jun-16 00:00:00		**10.37**	**18.92**	**83.84**	**88.96**
13-Jun-16 01:00:00	13-Jun-16 02:00:00		0.00	0.00	0.00	7.19	2.1	329.7		0.00	0.00	0.00	2.37		10.35	18.92	83.84	86.68	13-Jun-16 01:00:00		**10.35**	**18.92**	**83.84**	**89.05**
13-Jun-16 02:00:00	13-Jun-16 03:00:00		0.59	0.00	0.00	7.37	2.1	329.7		0.20	0.00	0.00	2.43		10.35	18.92	83.84	86.68	13-Jun-16 02:00:00		**10.55**	**18.92**	**83.84**	**89.11**
13-Jun-16 03:00:00	13-Jun-16 04:00:00		0.49	0.00	0.00	7.42	2.1	329.7		0.16	0.00	0.00	2.45		10.35	18.92	83.84	86.68	13-Jun-16 03:00:00		**10.51**	**18.92**	**83.84**	**89.13**
13-Jun-16 04:00:00	13-Jun-16 05:00:00		4.69	0.00	0.00	7.48	2.1	329.7		1.55	0.00	0.00	2.47		10.35	18.92	83.84	86.68	13-Jun-16 04:00:00		**11.90**	**18.92**	**83.84**	**89.15**
13-Jun-16 05:00:00	13-Jun-16 06:00:00		1.59	0.00	0.00	7.54	2.1	329.7		0.52	0.00	0.00	2.48		10.35	18.92	83.84	86.68	13-Jun-16 05:00:00		**10.87**	**18.92**	**83.84**	**89.16**
13-Jun-16 06:00:00	13-Jun-16 07:00:00		1.09	0.00	0.00	7.73	2.1	329.7		0.36	0.00	0.00	2.55		10.35	18.92	83.84	86.68	13-Jun-16 06:00:00		**10.71**	**18.92**	**83.84**	**89.23**
13-Jun-16 07:00:00	13-Jun-16 08:00:00		0.00	0.00	0.00	7.68	2.1	329.7		0.00	0.00	0.00	2.53		10.35	18.92	83.84	86.68	13-Jun-16 07:00:00		**10.35**	**18.92**	**83.84**	**89.21**
13-Jun-16 08:00:00	13-Jun-16 09:00:00		0.00	0.00	0.00	7.56	2.1	329.7		0.00	0.00	0.00	2.49		10.35	18.92	83.84	86.68	13-Jun-16 08:00:00		**10.35**	**18.92**	**83.84**	**89.17**
13-Jun-16 09:00:00	13-Jun-16 10:00:00		0.00	0.00	0.00	7.43	2.1	329.7		0.00	0.00	0.00	2.45		10.35	18.92	83.84	86.68	13-Jun-16 09:00:00		**10.35**	**18.92**	**83.84**	**89.13**
13-Jun-16 10:00:00	13-Jun-16 11:00:00		2.69	0.00	0.00	7.31	2.1	329.7		0.89	0.00	0.00	2.41		10.35	18.92	83.84	86.68	13-Jun-16 10:00:00		**11.24**	**18.92**	**83.84**	**89.09**
13-Jun-16 11:00:00	13-Jun-16 12:00:00		0.55	0.00	0.00	7.17	2.1	329.7		0.18	0.00	0.00	2.36		10.35	18.92	83.84	86.68	13-Jun-16 11:00:00		**10.53**	**18.92**	**83.84**	**89.04**
13-Jun-16 12:00:00	13-Jun-16 13:00:00		0.00	0.00	0.00	7.03	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	13-Jun-16 12:00:00		**10.35**	**18.92**	**83.84**	**89.00**
13-Jun-16 13:00:00	13-Jun-16 14:00:00		0.30	0.00	0.00	6.89	2.1	329.7		0.10	0.00	0.00	2.27		10.35	18.92	83.84	86.68	13-Jun-16 13:00:00		**10.45**	**18.92**	**83.84**	**88.95**
13-Jun-16 14:00:00	13-Jun-16 15:00:00		0.03	0.00	0.00	6.80	2.1	329.7		0.01	0.00	0.00	2.24		10.35	18.92	83.84	86.68	13-Jun-16 14:00:00		**10.36**	**18.92**	**83.84**	**88.92**
13-Jun-16 15:00:00	13-Jun-16 16:00:00		0.28	0.00	0.00	6.81	2.1	329.7		0.09	0.00	0.00	2.24		10.35	18.92	83.84	86.68	13-Jun-16 15:00:00		**10.44**	**18.92**	**83.84**	**88.92**
13-Jun-16 16:00:00	13-Jun-16 17:00:00		0.00	0.00	0.00	6.81	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	13-Jun-16 16:00:00		**10.35**	**18.92**	**83.84**	**88.92**
13-Jun-16 17:00:00	13-Jun-16 18:00:00		3.77	0.00	0.00	6.80	2.1	329.7		1.24	0.00	0.00	2.24		10.35	18.92	83.84	86.68	13-Jun-16 17:00:00		**11.59**	**18.92**	**83.84**	**88.92**
13-Jun-16 18:00:00	13-Jun-16 19:00:00		3.55	0.00	0.00	6.82	2.1	329.7		1.17	0.00	0.00	2.25		10.35	18.92	83.84	86.68	13-Jun-16 18:00:00		**11.52**	**18.92**	**83.84**	**88.93**
13-Jun-16 19:00:00	13-Jun-16 20:00:00		1.07	0.00	0.00	6.95

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
15-Jun-16 21:00:00	15-Jun-16 22:00:00		2.28	0.00	0.00	6.84	2.1	329.7		0.75	0.00	0.00	2.25		10.35	18.92	83.84	86.68	15-Jun-16 21:00:00		11.10	18.92	83.84	88.93
15-Jun-16 22:00:00	15-Jun-16 23:00:00		3.55	0.00	0.00	7.00	2.1	329.7		1.17	0.00	0.00	2.31		10.35	18.92	83.84	86.68	15-Jun-16 22:00:00		11.52	18.92	83.84	88.99
15-Jun-16 23:00:00	16-Jun-16 00:00:00		3.37	0.00	0.00	7.10	2.1	329.7		1.11	0.00	0.00	2.34		10.35	18.92	83.84	86.68	15-Jun-16 23:00:00		11.46	18.92	83.84	89.02
16-Jun-16 00:00:00	16-Jun-16 01:00:00		9.48	0.00	0.00	7.18	2.1	329.7		3.13	0.00	0.00	2.37		10.35	18.92	83.84	86.68	16-Jun-16 00:00:00		13.48	18.92	83.84	89.05
16-Jun-16 01:00:00	16-Jun-16 02:00:00		0.67	0.00	0.00	7.26	2.1	329.7		0.22	0.00	0.00	2.39		10.35	18.92	83.84	86.68	16-Jun-16 01:00:00		10.57	18.92	83.84	89.07
16-Jun-16 02:00:00	16-Jun-16 03:00:00		1.93	0.00	0.00	7.28	2.1	329.7		0.64	0.00	0.00	2.40		10.35	18.92	83.84	86.68	16-Jun-16 02:00:00		10.99	18.92	83.84	89.08
16-Jun-16 03:00:00	16-Jun-16 04:00:00		1.47	0.00	0.00	7.17	2.1	329.7		0.49	0.00	0.00	2.36		10.35	18.92	83.84	86.68	16-Jun-16 03:00:00		10.84	18.92	83.84	89.04
16-Jun-16 04:00:00	16-Jun-16 05:00:00		1.57	0.00	0.00	7.07	2.1	329.7		0.52	0.00	0.00	2.33		10.35	18.92	83.84	86.68	16-Jun-16 04:00:00		10.87	18.92	83.84	89.01
16-Jun-16 05:00:00	16-Jun-16 06:00:00		0.69	0.00	0.00	6.97	2.1	329.7		0.23	0.00	0.00	2.30		10.35	18.92	83.84	86.68	16-Jun-16 05:00:00		10.58	18.92	83.84	88.98
16-Jun-16 06:00:00	16-Jun-16 07:00:00		1.31	0.00	0.00	6.83	2.1	329.7		0.43	0.00	0.00	2.25		10.35	18.92	83.84	86.68	16-Jun-16 06:00:00		10.78	18.92	83.84	88.93
16-Jun-16 07:00:00	16-Jun-16 08:00:00		0.00	0.00	0.00	6.78	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	16-Jun-16 07:00:00		10.35	18.92	83.84	88.92
16-Jun-16 08:00:00	16-Jun-16 09:00:00		0.00	0.00	0.00	6.78	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	16-Jun-16 08:00:00		10.35	18.92	83.84	88.91
16-Jun-16 09:00:00	16-Jun-16 10:00:00		0.00	0.00	0.00	6.78	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	16-Jun-16 09:00:00		10.35	18.92	83.84	88.91
16-Jun-16 10:00:00	16-Jun-16 11:00:00		0.00	0.00	0.00	6.79	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	16-Jun-16 10:00:00		10.35	18.92	83.84	88.92
16-Jun-16 11:00:00	16-Jun-16 12:00:00		0.98	0.00	0.00	6.59	2.1	329.7		0.32	0.00	0.00	2.17		10.35	18.92	83.84	86.68	16-Jun-16 11:00:00		10.67	18.92	83.84	88.85
16-Jun-16 12:00:00	16-Jun-16 13:00:00		3.76	0.00	0.00	6.30	2.1	329.7		1.24	0.00	0.00	2.08		10.35	18.92	83.84	86.68	16-Jun-16 12:00:00		11.59	18.92	83.84	88.76
16-Jun-16 13:00:00	16-Jun-16 14:00:00		0.23	0.00	0.00	6.01	2.1	329.7		0.08	0.00	0.00	1.98		10.35	18.92	83.84	86.68	16-Jun-16 13:00:00		10.43	18.92	83.84	88.66
16-Jun-16 14:00:00	16-Jun-16 15:00:00		0.00	0.00	0.00	5.75	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	16-Jun-16 14:00:00		10.35	18.92	83.84	88.58
16-Jun-16 15:00:00	16-Jun-16 16:00:00		0.00	0.00	0.00	5.70	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	16-Jun-16 15:00:00		10.35	18.92	83.84	88.56
16-Jun-16 16:00:00	16-Jun-16 17:00:00		0.00	0.00	0.00	5.68	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	16-Jun-16 16:00:00		10.35	18.92	83.84	88.55
16-Jun-16 17:00:00	16-Jun-16 18:00:00		0.00	0.00	0.00	5.67	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	16-Jun-16 17:00:00		10.35	18.92	83.84	88.55
16-Jun-16 18:00:00	16-Jun-16 19:00:00		0.00	0.00	0.00	5.68	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	16-Jun-16 18:00:00		10.35	18.92	83.84	88.55
16-Jun-16 19:00:00	16-Jun-16 20:00:00		0.00	0.00	0.00	5.83	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	16-Jun-16 19:00:00		10.35	18.92	83.84	88.60
16-Jun-16 20:00:00	16-Jun-16 21:00:00		0.45	0.00	0.00	5.99	2.1	329.7		0.15	0.00	0.00	1.97		10.35	18.92	83.84	86.68	16-Jun-16 20:00:00		10.50	18.92	83.84	88.65
16-Jun-16 21:00:00	16-Jun-16 22:00:00		1.35	0.00	0.00	6.15	2.1	329.7		0.45	0.00	0.00	2.03		10.35	18.92	83.84	86.68	16-Jun-16 21:00:00		10.80	18.92	83.84	88.71
16-Jun-16 22:00:00	16-Jun-16 23:00:00		1.12	0.00	0.00	6.28	2.1	329.7		0.37	0.00	0.00	2.07		10.35	18.92	83.84	86.68	16-Jun-16 22:00:00		10.72	18.92	83.84	88.75
16-Jun-16 23:00:00	17-Jun-16 00:00:00		3.01	0.00	0.00	6.44	2.1	329.7		0.99	0.00	0.00	2.12		10.35	18.92	83.84	86.68	16-Jun-16 23:00:00		11.34	18.92	83.84	88.80
17-Jun-16 00:00:00	17-Jun-16 01:00:00		0.00	0.00	0.00	6.64	2.1	329.7		0.00	0.00	0.00	2.19		10.35	18.92	83.84	86.68	17-Jun-16 00:00:00		10.35	18.92	83.84	88.87
17-Jun-16 01:00:00	17-Jun-16 02:00:00		0.00	0.00	0.00	6.84	2.1	329.7		0.00	0.00	0.00	2.25		10.35	18.92	83.84	86.68	17-Jun-16 01:00:00		10.35	18.92	83.84	88.93
17-Jun-16 02:00:00	17-Jun-16 03:00:00		1.02	0.00	0.00	7.00	2.1	329.7		0.34	0.00	0.00	2.31		10.35	18.92	83.84	86.68	17-Jun-16 02:00:00		10.69	18.92	83.84	88.99
17-Jun-16 03:00:00	17-Jun-16 04:00:00		0.70	0.00	0.00	7.07	2.1	329.7		0.23	0.00	0.00	2.33		10.35	18.92	83.84	86.68	17-Jun-16 03:00:00		10.58	18.92	83.84	89.01
17-Jun-16 04:00:00	17-Jun-16 05:00:00		2.60	0.00	0.00	7.13	2.1	329.7		0.86	0.00	0.00	2.35		10.35	18.92	83.84	86.68	17-Jun-16 04:00:00		11.21	18.92	83.84	89.03
17-Jun-16 05:00:00	17-Jun-16 06:00:00		13.66	0.00	0.00	7.20	2.1	329.7		4.50	0.00	0.00	2.37		10.35	18.92	83.84	86.68	17-Jun-16 05:00:00		14.85	18.92	83.84	89.05
17-Jun-16 06:00:00	17-Jun-16 07:00:00		2.04	0.00	0.00	7.23	2.1	329.7		0.67	0.00	0.00	2.38		10.35	18.92	83.84	86.68	17-Jun-16 06:00:00		11.02	18.92	83.84	89.06
17-Jun-16 07:00:00	17-Jun-16 08:00:00		4.22	0.00	0.00	7.11	2.1	329.7		1.39	0.00	0.00	2.34		10.35	18.92	83.84	86.68	17-Jun-16 07:00:00		11.74	18.92	83.84	89.02
17-Jun-16 08:00:00	17-Jun-16 09:00:00		4.45	0.00	0.00	6.98	2.1	329.7		1.47	0.00	0.00	2.30		10.35	18.92	83.84	86.68	17-Jun-16 08:00:00		11.82	18.92	83.84	88.98
17-Jun-16 09:00:00	17-Jun-16 10:00:00		3.16	0.00	0.00	6.86	2.1	329.7		1.04	0.00	0.00	2.26		10.35	18.92	83.84	86.68	17-Jun-16 09:00:00		11.39	18.92	83.84	88.94
17-Jun-16 10:00:00	17-Jun-16 11:00:00		5.49	0.00	0.00	6.65	2.1	329.7		1.81	0.00	0.00	2.19		10.35	18.92	83.84	86.68	17-Jun-16 10:00:00		12.16	18.92	83.84	88.87
17-Jun-16 11:00:00	17-Jun-16 12:00:00		5.46	0.00	0.00	6.38	2.1	329.7		1.80	0.00	0.00	2.10		10.35	18.92	83.84	86.68	17-Jun-16 11:00:00		12.15	18.92	83.84	88.78
17-Jun-16 12:00:00	17-Jun-16 13:00:00		3.89	0.00	0.00	6.18	2.1	329.7		1.28	0.00	0.00	2.04		10.35	18.92	83.84	86.68	17-Jun-16 12:00:00		11.63	18.92	83.84	88.72
17-Jun-16 13:00:00	17-Jun-16 14:00:00		1.14	0.00	0.00	5.98	2.1	329.7		0.38	0.00	0.00	1.97		10.35	18.92	83.84	86.68	17-Jun-16 13:00:00		10.73	18.92	83.84	88.65
17-Jun-16 14:00:00	17-Jun-16 15:00:00		0.19	0.00	0.00	5.78	2.1	329.7		0.06	0.00	0.00	1.91		10.35	18.92	83.84	86.68	17-Jun-16 14:00:00		10.41	18.92	83.84	88.59
17-Jun-16 15:00:00	17-Jun-16 16:00:00		0.00	0.00	0.00	5.92	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	17-Jun-16 15:00:00		10.35	18.92	83.84	88.63
17-Jun-16 16:00:00	17-Jun-16 17:00:00		0.00	0.00	0.00	6.17	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	17-Jun-16 16:00:00		10.35	18.92	83.84	88.72
17-Jun-16 17:00:00	17-Jun-16 18:00:00		0.00	0.00	0.00	6.43	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	17-Jun-16 17:00:00		10.35	18.92	83.84	88.80
17-Jun-16 18:00:00	17-Jun-16 19:00:00		0.42	0.00	0.00	6.65	2.1	329.7		0.14	0.00	0.00	2.19		10.35	18.92	83.84	86.68	17-Jun-16 18:00:00		10.49	18.92	83.84	88.87
17-Jun-16 19:00:00	17-Jun-16 20:00:00		0.62	0.00	0.00	6.82	2.1	329.7		0.20	0.00	0.00	2.25		10.35	18.92	83.84	86.68	17-Jun-16 19:00:00		10.55	18.92	83.84	88.93
17-Jun-16 20:00:00	17-Jun-16 21:00:00		0.92	0.00	0.00	6.99	2.1	329.7		0.30	0.00	0.00	2.30		10.35	18.92	83.84	86.68	17-Jun-16 20:00:00		10.65	18.92	83.84	88.98
17-Jun-16 21:00:00	17-Jun-16 22:00:00		7.91	0.00	0.00	7.16	2.1	329.7		2.61	0.00	0.00	2.36		10.35	18.92	83.84	86.68	17-Jun-16 21:00:00		12.96	18.92	83.84	89.04
17-Jun-16 22:00:00	17-Jun-16 23:00:00		1.31	0.00	0.00	7.33	2.1	329.7		0.43	0.00	0.00	2.42		10.35	18.92	83.84	86.68	17-Jun-16 22:00:00		10.78	18.92	83.84	89.10
17-Jun-16 23:00:00	18-Jun-16 00:00:00		5.56	0.00	0.00	7.47	2.1	329.7		1.83	0.00	0.00	2.46		10.35	18.92	83.84	86.68	17-Jun-16 23:00:00		12.18	18.92	83.84	89.14
18-Jun-16 00:00:00	18-Jun-16 01:00:00		0.95	0.00	0.00	7.61	2.1	329.7		0.31	0.00	0.00	2.51		10.35	18.92	83.84	86.68	18-Jun-16 00:00:00		10.66	18.92	83.84	89.19
18-Jun-16 01:00:00	18-Jun-16 02:00:00		5.49	0.00	0.00	7.75	2.1	329.7		1.81	0.00	0.00	2.56		10.35	18.92	83.84	86.68	18-Jun-16 01:00:00		12.16	18.92	83.84	89.24
18-Jun-16 02:00:00	18-Jun-16 03:00:00		0.00	0.00	0.00	7.86	2.1	329.7		0.00	0.00	0.00	2.59		10.35	18.92	83.84	86.68	18-Jun-16 02:00:00		10.35	18.92	83.84	89.27
18-Jun-16 03:00:00	18-Jun-16 04:00:00		0.80	0.00	0.00	7.77	2.1	329.7		0.26	0.00	0.00	2.56		10.35	18.92	83.84	86.68	18-Jun-16 03:00:00		10.61	18.92	83.84	89.24
18-Jun-16 04:00:00	18-Jun-16 05:00:00		0.91	0.00	0.00	7.64	2.1	329.7		0.30	0.00	0.00	2.52		10.35	18.92	83.84	86.68	18-Jun-16 04:00:00		10.65	18.92	83.84	89.20
18-Jun-16 05:00:00	18-Jun-16 06:00:00		0.64	0.00	0.00	7.51	2.1	329.7		0.21	0.00	0.00	2.48		10.35	18.92	83.84	86.68	18-Jun-16 05:00:00		10.56	18.92	83.84	89.16
18-Jun-16 06:00:00	18-Jun-16 07:00:00		0.36	0.00	0.00	7.39	2.1	329.7		0.12	0.00	0.00	2.44		10.35	18.92	83.84	86.68	18-Jun-16 06:00:00		10.47	18.92	83.84	89.12
18-Jun-16 07:00:00	18-Jun-16 08:00:00		0.17	0.00	0.00	7.36	2.1	329.7		0.06	0.00	0.00	2.43		10.35	18.92	83.84	86.68	18-Jun-16 07:00:00		10.41	18.92	83.84	89.11
18-Jun-16 08:00:00	18-Jun-16 09:00:00		6.16	0.00	0.00	7.36	2.1	329.7		2.03	0.00	0.00	2.42		10.35	18.92	83.84	86.68	18-Jun-16 08:00:00		12.38	18.92	83.84	89.10
18-Jun-16 09:00:00	18-Jun-16 10:00:00		9.31	0.00	0.00	7.35	2.1	329.7		3.07	0.00	0.00	2.42		10.35	18.92	83.84	86.68	18-Jun-16 09:00:00		13.42	18.92	83.84	89.10
18-Jun-16 10:00:00	18-Jun-16 11:00:00		11.79	0.00	0.00	7.36	2.1	329.7		3.89	0.00	0.00	2.43		10.35	18.92	83.84	86.68	18-Jun-16 10:00:00		14.24	18.92	83.84	89.11
18-Jun-16 11:00:00	18-Jun-16 12:00:00		10.67	0.00	0.00	7.27	2.1	329.7		3.52	0.00	0.00	2.40		10.35	18.92	83.84	86.68	18-Jun-16 11:00:00		13.87	18.92	83.84	89.08
18-Jun-16 12:00:00	18-Jun-16 13:00:00		5.62	0.00	0.00	7.09	2.1	329.7		1.85	0.00	0.00	2.34		10.35	18.92	83.84	86.68	18-Jun-16 12:00:00		12.20	18.92	83.84	89.02
18-Jun-16 13:00:00	18-Jun-16 14:00:00		0.00	0.00	0.00	6.91	2.1	329.7		0.00	0.00	0.00	2.28		10.35	18.92	83.84	86.68	18-Jun-16 13:00:00		10.35	18.92	83.84	88.96
18-Jun-16 14:00:00	18-Jun-16 15:00:00		1.29	0.00	0.00	6.77	2.1	329.7		0.42	0.00	0.00	2.23		10.35	18.92	83.84	86.68	18-Jun-16 14:00:00		10.77	18.92	83.84	88.91
18-Jun-16 15:00:00	18-Jun-16 16:00:00		0.88	0.00	0.00	6.72	2.1	329.7		0.29	0.00	0.00	2.22		10.35	18.92	83.84	86.68	18-Jun-16 15:00:00		10.64	18.92	83.84	88.90
18-Jun-16 16:00:00	18-Jun-16 17:00:00		0.14	0.00	0.00	6.66	2.1	329.7		0.05	0.00	0.00	2.20		10.35	18.92	83.84	86.68	18-Jun-16 16:00:00		10.40	18.92	83.84	88.88
18-Jun-16 17:00:00	18-Jun-16 18:00:00		1.16	0.00	0.00	6.60	2.1	329.7		0.38	0.00	0.00	2.18		10.35	18.92	83.84	86.68	18-Jun-16 17:00:00		10.73	18.92	83.84	88.86
18-Jun-16 18:00:00	18-Jun-16 19:00:00		0.00	0.00	0.00	6.53	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	18-Jun-16 18:00:00		10.35	18.92	83.84	88.83
18-Jun-16 19:00:00	18-Jun-16 20:00:00		0.00	0.00	0.00	6.61	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	18-Jun-16 19:00:00		10.35	18.92	83.84	88.86
18-Jun-16 20:00:00	18-Jun-16 21:00:00		0.00	0.00	0.00	6.78	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	18-Jun-16 20:00:00		10.35	18.92	83.84	88.92
18-Jun-16 21:00:00	18-Jun-16 22:00:00		0.00	0.00	0.00	6.95	2.1	329.7		0.00	0.00	0.00	2.29		10.35	18.92	83.84	86.68	18-Jun-16 21:00:00		10.35	18.92	83.84	88.97
18-Jun-16 22:00:00	18-Jun-16 23:00:00		0.00	0.00	0.00	7.14	2.1	329.7		0.00	0.00	0.00	2.35		10.35	18.92	83.84	86.68	18-Jun-16 22:00:00		10.35	18.92	83.84	89.03
18-Jun-16 23:00:00	19-Jun-16 00:00:00		0.08	0.00	0.00	7.33	2.1	329.7		0.03	0.00	0.00	2.40		10.35	18.92	83.84	86.68	18-Jun-16 23:00:00		10.38	18.92	83.84	89.10
19-Jun-16 00:00:00	19-Jun-16 01:00:00		0.00	0.00	0.00	7.48	2.1	329.7		0.00	0.00	0.00	2.46		10.35	18.92	83.84	86.68	19-Jun-16 00:00:00		10.35	18.92	83.84	89.14
19-Jun-16 01:00:00	19-Jun-16 02:00:00		0.24	0.00	0.00	7.62	2.1	329.7		0.08	0.00	0.00	2.51		10.35	18.92	83.84	86.68	19-Jun-16 01:00:00		10.43	18.92	83.84	89.19
19-Jun-16 02:00:00	19-Jun-16 03:00:00		3.84	0.00	0.00	7.68	2.1	329.7		1.27	0.00	0.00	2.53		10.35	18.92	83.84	86.68	19-Jun-16 02:00:00		11.62	18.92	83.84	89.21
19-Jun-16 03:00:00	19-Jun-16 04:00:00		5.56	0.00	0.00	7.64	2.1	329.7		1.83	0.00	0.00	2.52		10.35	18.92	83.84	86.68	19-Jun-16 03:00:00		12.18	18.92	83.84	89.20
19-Jun-16 04:00:00	19-Jun-16 05:00:00		5.42	0.00	0.00	7.73	2.1	329.7		1.79	0.00	0.00	2.55		10.35	18.92	83.84	86.68	19-Jun-16 04:00:00		12.14	18.92	83.84	89.23
19-Jun-16 05:00:00	19-Jun-16 06:00:00		5.53	0.00	0.00	7.82	2.1	329.7		1.82	0.00	0.00	2.58		10.35	18.92	83.84	86.68	19-Jun-16 05:00:00		12.17	18.92	83.84	89.26
19-Jun-16 06:00:00	19-Jun-16 07:00:00		8.60	0.00	0.00	7.86	2.1	329.7		2.84	0.00	0.00	2.59		10.35	18.92	83.84	86.68	19-Jun-16 06:00:00		13.19	18.92	83.84	89.27
19-Jun-16 07:00:00	19-Jun-16 08:00:00		0.00	0.00	0.00	7.68	2.1	329.7		0.00	0.00	0.00	2.53		10.35	18.92	83.84	86.68	19-Jun-16 07:00:00		10.35	18.92	83.84	89.21
19-Jun-16 08:00:00	19-Jun-16 09:00:00		0.00	0.00	0.00	7.49	2.1	329.7		0.00	0.00	0.00	2.47		10.35	18.92	83.84	86.68	19-Jun-16 08:00:00		10.35	18.92	83.84	89.15
19-Jun-16 09:00:00	19-Jun-16 10:00:00		0.00	0.00	0.00	7.30	2.1	329.7		0.00	0.00	0.00	2.41		10.35	18.92	83.84	86.68	19-Jun-16 09:00:00		10.35	18.92	83.84	89.09
19-Jun-16 10:00:00	19-Jun-16 11:00:00		6.07	0.00	0.00	7.11	2.1	329.7		2.00	0.00	0.00	2.34		10.35	18.92	83.84	86.68	19-Jun-16 10:00:00		12.35	18.92	83.84	89.02
19-Jun-16 11:00:00	19-Jun-16 12:00:00		6.42	0.00	0.00	6.90	2.1	329.7		2.12	0.00	0.00	2.27		10.35	18.92	83.84	86.68	19-Jun-16 11:00:00		12.47	18.92	83.84	88.95
19-Jun-16 12:00:00	19-Jun-16 13:00:00		3.71	0.00	0.00	6.69	2.1	329.7		1.22	0.00	0.00	2.21		10.35	18.92	83.84	86.68	19-Jun-16 12:00:00		11.57	18.92	83.84	88.89
19-Jun-16 13:00:00	19-Jun-16 14:00:00		1.16	0.00	0.00	6.48	2.1	329.7		0.38	0.00	0.00	2.14		10.35	18.92	83.84	86.68	19-Jun-16 13:00:00		10.73	18.92	83.84	88.82
19-Jun-16 14:00:00	19-Jun-16 15:00:00		5.55	0.00	0.00	6.29	2.1	329.7		1.83	0.00	0.00	2.07		10.35	18.92	83.84	86.68	19-Jun-16 14:00:00		12.18	18.92	83.84	88.75
19-Jun-16 15:00:00	19-Jun-16 16:00:00		10.95	0.00	0.00	6.29	2.1	329.7		3.61	0.00	0.00	2.07		10.35	18.92	83.84	86.68	19-Jun-16 15:00:00		13.96	18.92	83.84	88.75
19-Jun-16 16:00:00	19-Jun-16 17:00:00		4.19	0.00	0.00	6.35	2.1	329.7		1.38	0.00	0.00	2.09		10.35	18.92	83.84	86.68	19-Jun-16 16:00:00		11.73	18.92	83.84	88.77
19-Jun-16 17:00:00	19-Jun-16 18:00:00		2.15	0.00	0.00	6.42	2.1	329.7		0.71	0.00	0.00	2.12		10.35	18.92	83.84	86.68	19-Jun-16 17:00:00		11.06	18.92	83.84	88.80
19-Jun-16 18:00:00	19-Jun-16 19:00:00		10.80	0.00	0.00	6.41

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
21-Jun-16 20:00:00	21-Jun-16 21:00:00		0.05	0.00	0.00	5.71	2.1	329.7		0.02	0.00	0.00	1.88		10.35	18.92	83.84	86.68	21-Jun-16 20:00:00		**10.37**	**18.92**	**83.84**	**88.56**
21-Jun-16 21:00:00	21-Jun-16 22:00:00		8.09	0.00	0.00	5.91	2.1	329.7		2.67	0.00	0.00	1.95		10.35	18.92	83.84	86.68	21-Jun-16 21:00:00		**13.02**	**18.92**	**83.84**	**88.63**
21-Jun-16 22:00:00	21-Jun-16 23:00:00		5.07	0.00	0.00	6.06	2.1	329.7		1.67	0.00	0.00	2.00		10.35	18.92	83.84	86.68	21-Jun-16 22:00:00		**12.02**	**18.92**	**83.84**	**88.68**
21-Jun-16 23:00:00	22-Jun-16 00:00:00		4.17	0.00	0.00	5.98	2.1	329.7		1.37	0.00	0.00	1.97		10.35	18.92	83.84	86.68	21-Jun-16 23:00:00		**11.72**	**18.92**	**83.84**	**88.65**
22-Jun-16 00:00:00	22-Jun-16 01:00:00		8.46	0.00	0.00	6.06	2.1	329.7		2.79	0.00	0.00	2.00		10.35	18.92	83.84	86.68	22-Jun-16 00:00:00		**13.14**	**18.92**	**83.84**	**88.68**
22-Jun-16 01:00:00	22-Jun-16 02:00:00		1.43	0.00	0.00	6.13	2.1	329.7		0.47	0.00	0.00	2.02		10.35	18.92	83.84	86.68	22-Jun-16 01:00:00		**10.82**	**18.92**	**83.84**	**88.70**
22-Jun-16 02:00:00	22-Jun-16 03:00:00		0.00	0.00	0.00	6.20	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	22-Jun-16 02:00:00		**10.35**	**18.92**	**83.84**	**88.72**
22-Jun-16 03:00:00	22-Jun-16 04:00:00		0.00	0.00	0.00	6.22	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	22-Jun-16 03:00:00		**10.35**	**18.92**	**83.84**	**88.73**
22-Jun-16 04:00:00	22-Jun-16 05:00:00		0.00	0.00	0.00	6.23	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	22-Jun-16 04:00:00		**10.35**	**18.92**	**83.84**	**88.73**
22-Jun-16 05:00:00	22-Jun-16 06:00:00		1.84	0.00	0.00	6.23	2.1	329.7		0.61	0.00	0.00	2.06		10.35	18.92	83.84	86.68	22-Jun-16 05:00:00		**10.96**	**18.92**	**83.84**	**88.74**
22-Jun-16 06:00:00	22-Jun-16 07:00:00		7.75	0.00	0.00	6.23	2.1	329.7		2.56	0.00	0.00	2.06		10.35	18.92	83.84	86.68	22-Jun-16 06:00:00		**12.91**	**18.92**	**83.84**	**88.74**
22-Jun-16 07:00:00	22-Jun-16 08:00:00		3.31	0.00	0.00	6.13	2.1	329.7		1.09	0.00	0.00	2.02		10.35	18.92	83.84	86.68	22-Jun-16 07:00:00		**11.44**	**18.92**	**83.84**	**88.70**
22-Jun-16 08:00:00	22-Jun-16 09:00:00		2.86	0.00	0.00	6.02	2.1	329.7		0.94	0.00	0.00	1.98		10.35	18.92	83.84	86.68	22-Jun-16 08:00:00		**11.29**	**18.92**	**83.84**	**88.66**
22-Jun-16 09:00:00	22-Jun-16 10:00:00		3.69	0.00	0.00	5.90	2.1	329.7		1.22	0.00	0.00	1.95		10.35	18.92	83.84	86.68	22-Jun-16 09:00:00		**11.57**	**18.92**	**83.84**	**88.63**
22-Jun-16 10:00:00	22-Jun-16 11:00:00		4.27	0.00	0.00	5.77	2.1	329.7		1.41	0.00	0.00	1.90		10.35	18.92	83.84	86.68	22-Jun-16 10:00:00		**11.76**	**18.92**	**83.84**	**88.58**
22-Jun-16 11:00:00	22-Jun-16 12:00:00		2.50	0.00	0.00	5.55	2.1	329.7		0.82	0.00	0.00	1.83		10.35	18.92	83.84	86.68	22-Jun-16 11:00:00		**11.17**	**18.92**	**83.84**	**88.51**
22-Jun-16 12:00:00	22-Jun-16 13:00:00		3.02	0.00	0.00	5.41	2.1	329.7		1.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	22-Jun-16 12:00:00		**11.35**	**18.92**	**83.84**	**88.46**
22-Jun-16 13:00:00	22-Jun-16 14:00:00		9.11	0.00	0.00	5.27	2.1	329.7		3.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	22-Jun-16 13:00:00		**13.35**	**18.92**	**83.84**	**88.42**
22-Jun-16 14:00:00	22-Jun-16 15:00:00		1.05	0.00	0.00	5.14	2.1	329.7		0.35	0.00	0.00	1.70		10.35	18.92	83.84	86.68	22-Jun-16 14:00:00		**10.70**	**18.92**	**83.84**	**88.38**
22-Jun-16 15:00:00	22-Jun-16 16:00:00		1.19	0.00	0.00	5.13	2.1	329.7		0.39	0.00	0.00	1.69		10.35	18.92	83.84	86.68	22-Jun-16 15:00:00		**10.74**	**18.92**	**83.84**	**88.37**
22-Jun-16 16:00:00	22-Jun-16 17:00:00		0.00	0.00	0.00	5.12	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	22-Jun-16 16:00:00		**10.35**	**18.92**	**83.84**	**88.37**
22-Jun-16 17:00:00	22-Jun-16 18:00:00		0.00	0.00	0.00	5.10	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	22-Jun-16 17:00:00		**10.35**	**18.92**	**83.84**	**88.36**
22-Jun-16 18:00:00	22-Jun-16 19:00:00		0.00	0.00	0.00	5.09	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	22-Jun-16 18:00:00		**10.35**	**18.92**	**83.84**	**88.36**
22-Jun-16 19:00:00	22-Jun-16 20:00:00		0.00	0.00	0.00	5.23	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	22-Jun-16 19:00:00		**10.35**	**18.92**	**83.84**	**88.40**
22-Jun-16 20:00:00	22-Jun-16 21:00:00		0.00	0.00	0.00	5.46	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	22-Jun-16 20:00:00		**10.35**	**18.92**	**83.84**	**88.48**
22-Jun-16 21:00:00	22-Jun-16 22:00:00		2.42	0.00	0.00	5.69	2.1	329.7		0.80	0.00	0.00	1.88		10.35	18.92	83.84	86.68	22-Jun-16 21:00:00		**11.15**	**18.92**	**83.84**	**88.56**
22-Jun-16 22:00:00	22-Jun-16 23:00:00		4.62	0.00	0.00	5.95	2.1	329.7		1.52	0.00	0.00	1.96		10.35	18.92	83.84	86.68	22-Jun-16 22:00:00		**11.87**	**18.92**	**83.84**	**88.64**
22-Jun-16 23:00:00	23-Jun-16 00:00:00		0.52	0.00	0.00	6.21	2.1	329.7		0.17	0.00	0.00	2.05		10.35	18.92	83.84	86.68	22-Jun-16 23:00:00		**10.52**	**18.92**	**83.84**	**88.73**
23-Jun-16 00:00:00	23-Jun-16 01:00:00		4.54	0.00	0.00	6.21	2.1	329.7		1.50	0.00	0.00	2.05		10.35	18.92	83.84	86.68	23-Jun-16 00:00:00		**11.85**	**18.92**	**83.84**	**88.73**
23-Jun-16 01:00:00	23-Jun-16 02:00:00		9.21	0.00	0.00	6.20	2.1	329.7		3.04	0.00	0.00	2.05		10.35	18.92	83.84	86.68	23-Jun-16 01:00:00		**13.39**	**18.92**	**83.84**	**88.73**
23-Jun-16 02:00:00	23-Jun-16 03:00:00		0.00	0.00	0.00	6.19	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	23-Jun-16 02:00:00		**10.35**	**18.92**	**83.84**	**88.72**
23-Jun-16 03:00:00	23-Jun-16 04:00:00		0.40	0.00	0.00	6.10	2.1	329.7		0.13	0.00	0.00	2.01		10.35	18.92	83.84	86.68	23-Jun-16 03:00:00		**10.48**	**18.92**	**83.84**	**88.69**
23-Jun-16 04:00:00	23-Jun-16 05:00:00		0.24	0.00	0.00	6.16	2.1	329.7		0.08	0.00	0.00	2.03		10.35	18.92	83.84	86.68	23-Jun-16 04:00:00		**10.43**	**18.92**	**83.84**	**88.71**
23-Jun-16 05:00:00	23-Jun-16 06:00:00		0.44	0.00	0.00	6.22	2.1	329.7		0.15	0.00	0.00	2.05		10.35	18.92	83.84	86.68	23-Jun-16 05:00:00		**10.50**	**18.92**	**83.84**	**88.73**
23-Jun-16 06:00:00	23-Jun-16 07:00:00		2.60	0.00	0.00	6.27	2.1	329.7		0.86	0.00	0.00	2.07		10.35	18.92	83.84	86.68	23-Jun-16 06:00:00		**11.21**	**18.92**	**83.84**	**88.75**
23-Jun-16 07:00:00	23-Jun-16 08:00:00		1.00	0.00	0.00	6.26	2.1	329.7		0.33	0.00	0.00	2.06		10.35	18.92	83.84	86.68	23-Jun-16 07:00:00		**10.68**	**18.92**	**83.84**	**88.74**
23-Jun-16 08:00:00	23-Jun-16 09:00:00		2.97	0.00	0.00	6.24	2.1	329.7		0.98	0.00	0.00	2.06		10.35	18.92	83.84	86.68	23-Jun-16 08:00:00		**11.33**	**18.92**	**83.84**	**88.74**
23-Jun-16 09:00:00	23-Jun-16 10:00:00		2.35	0.00	0.00	6.22	2.1	329.7		0.78	0.00	0.00	2.05		10.35	18.92	83.84	86.68	23-Jun-16 09:00:00		**11.13**	**18.92**	**83.84**	**88.73**
23-Jun-16 10:00:00	23-Jun-16 11:00:00		0.00	0.00	0.00	6.20	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	23-Jun-16 10:00:00		**10.35**	**18.92**	**83.84**	**88.72**
23-Jun-16 11:00:00	23-Jun-16 12:00:00		5.49	0.00	0.00	6.05	2.1	329.7		1.81	0.00	0.00	1.99		10.35	18.92	83.84	86.68	23-Jun-16 11:00:00		**12.16**	**18.92**	**83.84**	**88.67**
23-Jun-16 12:00:00	23-Jun-16 13:00:00		15.36	0.00	0.00	5.95	2.1	329.7		5.07	0.00	0.00	1.96		10.35	18.92	83.84	86.68	23-Jun-16 12:00:00		**15.42**	**18.92**	**83.84**	**88.64**
23-Jun-16 13:00:00	23-Jun-16 14:00:00		17.75	0.00	0.00	5.84	2.1	329.7		5.85	0.00	0.00	1.93		10.35	18.92	83.84	86.68	23-Jun-16 13:00:00		**16.20**	**18.92**	**83.84**	**88.61**
23-Jun-16 14:00:00	23-Jun-16 15:00:00		5.93	0.00	0.00	5.73	2.1	329.7		1.95	0.00	0.00	1.89		10.35	18.92	83.84	86.68	23-Jun-16 14:00:00		**12.30**	**18.92**	**83.84**	**88.57**
23-Jun-16 15:00:00	23-Jun-16 16:00:00		1.48	0.00	0.00	5.49	2.1	329.7		0.49	0.00	0.00	1.81		10.35	18.92	83.84	86.68	23-Jun-16 15:00:00		**10.84**	**18.92**	**83.84**	**88.49**
23-Jun-16 16:00:00	23-Jun-16 17:00:00		1.05	0.00	0.00	5.37	2.1	329.7		0.35	0.00	0.00	1.77		10.35	18.92	83.84	86.68	23-Jun-16 16:00:00		**10.70**	**18.92**	**83.84**	**88.45**
23-Jun-16 17:00:00	23-Jun-16 18:00:00		0.62	0.00	0.00	5.25	2.1	329.7		0.20	0.00	0.00	1.73		10.35	18.92	83.84	86.68	23-Jun-16 17:00:00		**10.55**	**18.92**	**83.84**	**88.41**
23-Jun-16 18:00:00	23-Jun-16 19:00:00		0.19	0.00	0.00	5.13	2.1	329.7		0.06	0.00	0.00	1.69		10.35	18.92	83.84	86.68	23-Jun-16 18:00:00		**10.41**	**18.92**	**83.84**	**88.37**
23-Jun-16 19:00:00	23-Jun-16 20:00:00		0.00	0.00	0.00	5.14	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	23-Jun-16 19:00:00		**10.35**	**18.92**	**83.84**	**88.38**
23-Jun-16 20:00:00	23-Jun-16 21:00:00		2.33	0.00	0.00	5.25	2.1	329.7		0.77	0.00	0.00	1.73		10.35	18.92	83.84	86.68	23-Jun-16 20:00:00		**11.12**	**18.92**	**83.84**	**88.41**
23-Jun-16 21:00:00	23-Jun-16 22:00:00		8.23	0.00	0.00	5.35	2.1	329.7		2.71	0.00	0.00	1.76		10.35	18.92	83.84	86.68	23-Jun-16 21:00:00		**13.06**	**18.92**	**83.84**	**88.44**
23-Jun-16 22:00:00	23-Jun-16 23:00:00		11.20	0.00	0.00	5.47	2.1	329.7		3.69	0.00	0.00	1.80		10.35	18.92	83.84	86.68	23-Jun-16 22:00:00		**14.04**	**18.92**	**83.84**	**88.48**
23-Jun-16 23:00:00	24-Jun-16 00:00:00		9.17	0.00	0.00	5.72	2.1	329.7		3.02	0.00	0.00	1.89		10.35	18.92	83.84	86.68	23-Jun-16 23:00:00		**13.37**	**18.92**	**83.84**	**88.57**
24-Jun-16 00:00:00	24-Jun-16 01:00:00		12.63	0.00	0.00	5.87	2.1	329.7		4.16	0.00	0.00	1.93		10.35	18.92	83.84	86.68	24-Jun-16 00:00:00		**14.51**	**18.92**	**83.84**	**88.61**
24-Jun-16 01:00:00	24-Jun-16 02:00:00		31.84	0.00	0.00	6.01	2.1	329.7		10.50	0.00	0.00	1.98		10.35	18.92	83.84	86.68	24-Jun-16 01:00:00		**20.85**	**18.92**	**83.84**	**88.66**
24-Jun-16 02:00:00	24-Jun-16 03:00:00		36.65	0.00	0.00	6.16	2.1	329.7		12.08	0.00	0.00	2.03		10.35	18.92	83.84	86.68	24-Jun-16 02:00:00		**22.43**	**18.92**	**83.84**	**88.71**
24-Jun-16 03:00:00	24-Jun-16 04:00:00		21.80	0.00	0.00	6.30	2.1	329.7		7.19	0.00	0.00	2.08		10.35	18.92	83.84	86.68	24-Jun-16 03:00:00		**17.54**	**18.92**	**83.84**	**88.76**
24-Jun-16 04:00:00	24-Jun-16 05:00:00		43.45	0.00	0.00	6.44	2.1	329.7		14.33	0.00	0.00	2.12		10.35	18.92	83.84	86.68	24-Jun-16 04:00:00		**24.68**	**18.92**	**83.84**	**88.80**
24-Jun-16 05:00:00	24-Jun-16 06:00:00		33.44	0.00	0.00	6.58	2.1	329.7		11.02	0.00	0.00	2.17		10.35	18.92	83.84	86.68	24-Jun-16 05:00:00		**21.37**	**18.92**	**83.84**	**88.85**
24-Jun-16 06:00:00	24-Jun-16 07:00:00		48.00	0.00	0.00	6.72	2.1	329.7		15.82	0.00	0.00	2.22		10.35	18.92	83.84	86.68	24-Jun-16 06:00:00		**26.17**	**18.92**	**83.84**	**88.90**
24-Jun-16 07:00:00	24-Jun-16 08:00:00		52.95	0.00	0.00	6.73	2.1	329.7		17.46	0.00	0.00	2.22		10.35	18.92	83.84	86.68	24-Jun-16 07:00:00		**27.81**	**18.92**	**83.84**	**88.90**
24-Jun-16 08:00:00	24-Jun-16 09:00:00		18.28	0.00	0.00	6.45	2.1	329.7		6.03	0.00	0.00	2.13		10.35	18.92	83.84	86.68	24-Jun-16 08:00:00		**16.38**	**18.92**	**83.84**	**88.81**
24-Jun-16 09:00:00	24-Jun-16 10:00:00		23.42	0.00	0.00	6.17	2.1	329.7		7.72	0.00	0.00	2.03		10.35	18.92	83.84	86.68	24-Jun-16 09:00:00		**18.07**	**18.92**	**83.84**	**88.71**
24-Jun-16 10:00:00	24-Jun-16 11:00:00		51.38	0.00	0.00	5.89	2.1	329.7		16.94	0.00	0.00	1.94		10.35	18.92	83.84	86.68	24-Jun-16 10:00:00		**27.29**	**18.92**	**83.84**	**88.62**
24-Jun-16 11:00:00	24-Jun-16 12:00:00		37.40	0.00	0.00	5.72	2.1	329.7		12.33	0.00	0.00	1.89		10.35	18.92	83.84	86.68	24-Jun-16 11:00:00		**22.68**	**18.92**	**83.84**	**88.57**
24-Jun-16 12:00:00	24-Jun-16 13:00:00		22.96	0.00	0.00	5.55	2.1	329.7		7.57	0.00	0.00	1.83		10.35	18.92	83.84	86.68	24-Jun-16 12:00:00		**17.92**	**18.92**	**83.84**	**88.51**
24-Jun-16 13:00:00	24-Jun-16 14:00:00		29.82	0.00	0.00	5.37	2.1	329.7		9.83	0.00	0.00	1.77		10.35	18.92	83.84	86.68	24-Jun-16 13:00:00		**20.18**	**18.92**	**83.84**	**88.45**
24-Jun-16 14:00:00	24-Jun-16 15:00:00		3.89	0.00	0.00	5.20	2.1	329.7		1.28	0.00	0.00	1.71		10.35	18.92	83.84	86.68	24-Jun-16 14:00:00		**11.63**	**18.92**	**83.84**	**88.39**
24-Jun-16 15:00:00	24-Jun-16 16:00:00		1.60	0.00	0.00	5.10	2.1	329.7		0.53	0.00	0.00	1.68		10.35	18.92	83.84	86.68	24-Jun-16 15:00:00		**10.88**	**18.92**	**83.84**	**88.36**
24-Jun-16 16:00:00	24-Jun-16 17:00:00		17.85	0.00	0.00	5.06	2.1	329.7		5.88	0.00	0.00	1.67		10.35	18.92	83.84	86.68	24-Jun-16 16:00:00		**16.23**	**18.92**	**83.84**	**88.35**
24-Jun-16 17:00:00	24-Jun-16 18:00:00		15.12	0.00	0.00	5.03	2.1	329.7		4.99	0.00	0.00	1.66		10.35	18.92	83.84	86.68	24-Jun-16 17:00:00		**15.34**	**18.92**	**83.84**	**88.34**
24-Jun-16 18:00:00	24-Jun-16 19:00:00		3.00	0.00	0.00	4.99	2.1	329.7		0.99	0.00	0.00	1.65		10.35	18.92	83.84	86.68	24-Jun-16 18:00:00		**11.34**	**18.92**	**83.84**	**88.33**
24-Jun-16 19:00:00	24-Jun-16 20:00:00		0.00	0.00	0.00	5.14	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	24-Jun-16 19:00:00		**10.35**	**18.92**	**83.84**	**88.38**
24-Jun-16 20:00:00	24-Jun-16 21:00:00		0.00	0.00	0.00	5.45	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	24-Jun-16 20:00:00		**10.35**	**18.92**	**83.84**	**88.48**
24-Jun-16 21:00:00	24-Jun-16 22:00:00		17.68	0.00	0.00	5.76	2.1	329.7		5.83	0.00	0.00	1.90		10.35	18.92	83.84	86.68	24-Jun-16 21:00:00		**16.18**	**18.92**	**83.84**	**88.58**
24-Jun-16 22:00:00	24-Jun-16 23:00:00		24.47	0.00	0.00	6.07	2.1	329.7		8.07	0.00	0.00	2.00		10.35	18.92	83.84	86.68	24-Jun-16 22:00:00		**18.42**	**18.92**	**83.84**	**88.68**
24-Jun-16 23:00:00	25-Jun-16 00:00:00		33.34	0.00	0.00	6.33	2.1	329.7		10.99	0.00	0.00	2.09		10.35	18.92	83.84	86.68	24-Jun-16 23:00:00		**21.34**	**18.92**	**83.84**	**88.77**
25-Jun-16 00:00:00	25-Jun-16 01:00:00		43.62	0.00	0.00	6.43	2.1	329.7		14.38	0.00	0.00	2.12		10.35	18.92	83.84	86.68	25-Jun-16 00:00:00		**24.73**	**18.92**	**83.84**	**88.80**
25-Jun-16 01:00:00	25-Jun-16 02:00:00		43.93	0.00	0.00	6.53	2.1	329.7		14.48	0.00	0.00	2.15		10.35	18.92	83.84	86.68	25-Jun-16 01:00:00		**24.83**	**18.92**	**83.84**	**88.83**
25-Jun-16 02:00:00	25-Jun-16 03:00:00		20.61	0.00	0.00	6.63	2.1	329.7		6.80	0.00	0.00	2.19		10.35	18.92	83.84	86.68	25-Jun-16 02:00:00		**17.15**	**18.92**	**83.84**	**88.87**
25-Jun-16 03:00:00	25-Jun-16 04:00:00		15.82	0.00	0.00	6.77	2.1	329.7		5.22	0.00	0.00	2.23		10.35	18.92	83.84	86.68	25-Jun-16 03:00:00		**15.57**	**18.92**	**83.84**	**88.91**
25-Jun-16 04:00:00	25-Jun-16 05:00:00		9.51	0.00	0.00	6.75	2.1	329.7		3.14	0.00	0.00	2.22		10.35	18.92	83.84	86.68	25-Jun-16 04:00:00		**13.49**	**18.92**	**83.84**	**88.90**
25-Jun-16 05:00:00	25-Jun-16 06:00:00		17.46	0.00	0.00	6.73	2.1	329.7		5.76	0.00	0.00	2.22		10.35	18.92	83.84	86.68	25-Jun-16 05:00:00		**16.11**	**18.92**	**83.84**	**88.90**
25-Jun-16 06:00:00	25-Jun-16 07:00:00		35.69	0.00	0.00	6.70	2.1	329.7		11.77	0.00	0.00	2.21		10.35	18.92	83.84	86.68	25-Jun-16 06:00:00		**22.12**	**18.92**	**83.84**	**88.89**
25-Jun-16 07:00:00	25-Jun-16 08:00:00		37.37	0.00	0.00	6.58	2.1	329.7		12.32	0.00	0.00	2.17		10.35	18.92	83.84	86.68	25-Jun-16 07:00:00		**22.67**	**18.92**	**83.84**	**88.85**
25-Jun-16 08:00:00	25-Jun-16 09:00:00		37.04	0.00	0.00	6.36	2.1	329.7		12.21	0.00	0.00	2.10		10.35	18.92	83.84	86.68	25-Jun-16 08:00:00		**22.56**	**18.92**	**83.84**	**88.78**
25-Jun-16 09:00:00	25-Jun-16 10:00:00		37.36	0.00	0.00	6.13	2.1	329.7		12.32	0.00	0.00	2.02		10.35	18.92	83.84	86.68	25-Jun-16 09:00:00		**22.67**	**18.92**	**83.84**	**88.70**
25-Jun-16 10:00:00	25-Jun-16 11:00:00		34.57	0.00	0.00	5.91	2.1	329.7		11.40	0.00	0.00	1.95		10.35	18.92	83.84	86.68	25-Jun-16 10:00:00		**21.75**	**18.92**	**83.84**	**88.63**
25-Jun-16 11:00:00	25-Jun-16 12:00:00		13.82	0.00	0.00	5.67	2.1	329.7		4.56	0.00	0.00	1.87		10.35	18.92	83.84	86.68	25-Jun-16 11:00:00		**14.91**	**18.92**	**83.84**	**88.55**
25-Jun-16 12:00:00	25-Jun-16 13:00:00		4.71	0.00	0.00	5.50	2.1	329.7		1.55	0.00	0.00	1.81		10.35	18.92	83.84	86.68	25-Jun-16 12:00:00		**11.90**	**18.92**	**83.84**	**88.49**
25-Jun-16 13:00:00	25-Jun-16 14:00:00		9.16	0.00	0.00	5.33	2.1	329.7		3.02	0.00	0.00	1.76		10.35	18.92	83.84	86.68	25-Jun-16 13:00:00		**13.37**	**18.92**	**83.84**	**88.44**
25-Jun-16 14:00:00	25-Jun-16 15:00:00		5.44	0.00	0.00	5.17	2.1	329.7		1.79	0.00	0.00	1.70		10.35	18.92	83.84	86.68	25-Jun-16 14:00:00		**12.14**	**18.92**	**83.84**	**88.39**
25-Jun-16 15:00:00	25-Jun-16 16:00:00		4.33	0.00	0.00	5.19	2.1	329.7		1.43	0.00	0.00	1.71		10.35	18.92	83.84	86.68	25-Jun-16 15:00:00		**11.78**	**18.92**	**83.84**	**88.39**
25-Jun-16 16:00:00	25-Jun-16 17:00:00		6.03	0.00	0.00	5.40	2.1	329.7		1.99	0.00	0.00	1.78		10.35	18.92	83.84	86.68	25-Jun-16 16:00:00		**12.34**	**18.92**	**83.84**	**88.46**
25-Jun-16 17:00:00	25-Jun-16 18:00:00		7.96	0.00	0.00	5.

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
27-Jun-16 19:00:00	27-Jun-16 20:00:00		35.65	63.90	0.00	5.72	2.1	329.7		11.75	21.07	0.00	1.89		10.35	18.92	83.84	86.68	27-Jun-16 19:00:00		**22.10**	**39.99**	**83.84**	**88.57**
27-Jun-16 20:00:00	27-Jun-16 21:00:00		25.58	922.34	0.00	5.87	2.1	329.7		8.43	304.10	0.00	1.94		10.35	18.92	83.84	86.68	27-Jun-16 20:00:00		**18.78**	**323.02**	**83.84**	**88.62**
27-Jun-16 21:00:00	27-Jun-16 22:00:00		0.50	227.93	0.00	6.01	2.1	329.7		0.16	75.15	0.00	1.98		10.35	18.92	83.84	86.68	27-Jun-16 21:00:00		**10.51**	**94.07**	**83.84**	**88.66**
27-Jun-16 22:00:00	27-Jun-16 23:00:00		14.19	0.00	0.00	6.15	2.1	329.7		4.68	0.00	0.00	2.03		10.35	18.92	83.84	86.68	27-Jun-16 22:00:00		**15.03**	**18.92**	**83.84**	**88.71**
27-Jun-16 23:00:00	28-Jun-16 00:00:00		9.86	0.00	0.00	6.24	2.1	329.7		3.25	0.00	0.00	2.06		10.35	18.92	83.84	86.68	27-Jun-16 23:00:00		**13.60**	**18.92**	**83.84**	**88.74**
28-Jun-16 00:00:00	28-Jun-16 01:00:00		13.47	0.00	0.00	6.10	2.1	329.7		4.44	0.00	0.00	2.01		10.35	18.92	83.84	86.68	28-Jun-16 00:00:00		**14.79**	**18.92**	**83.84**	**88.69**
28-Jun-16 01:00:00	28-Jun-16 02:00:00		13.72	0.00	0.00	5.94	2.1	329.7		4.52	0.00	0.00	1.96		10.35	18.92	83.84	86.68	28-Jun-16 01:00:00		**14.87**	**18.92**	**83.84**	**88.64**
28-Jun-16 02:00:00	28-Jun-16 03:00:00		16.18	0.00	0.00	5.79	2.1	329.7		5.34	0.00	0.00	1.91		10.35	18.92	83.84	86.68	28-Jun-16 02:00:00		**15.69**	**18.92**	**83.84**	**88.59**
28-Jun-16 03:00:00	28-Jun-16 04:00:00		11.16	0.00	0.00	5.74	2.1	329.7		3.68	0.00	0.00	1.89		10.35	18.92	83.84	86.68	28-Jun-16 03:00:00		**14.03**	**18.92**	**83.84**	**88.57**
28-Jun-16 04:00:00	28-Jun-16 05:00:00		8.90	0.97	0.00	5.74	2.1	329.7		2.93	0.32	0.00	1.89		10.35	18.92	83.84	86.68	28-Jun-16 04:00:00		**13.28**	**19.24**	**83.84**	**88.57**
28-Jun-16 05:00:00	28-Jun-16 06:00:00		30.22	0.00	0.00	5.73	2.1	329.7		9.96	0.00	0.00	1.89		10.35	18.92	83.84	86.68	28-Jun-16 05:00:00		**20.31**	**18.92**	**83.84**	**88.57**
28-Jun-16 06:00:00	28-Jun-16 07:00:00		46.78	0.00	0.00	5.73	2.1	329.7		15.42	0.00	0.00	1.89		10.35	18.92	83.84	86.68	28-Jun-16 06:00:00		**25.77**	**18.92**	**83.84**	**88.57**
28-Jun-16 07:00:00	28-Jun-16 08:00:00		49.04	0.00	0.00	5.67	2.1	329.7		16.17	0.00	0.00	1.87		10.35	18.92	83.84	86.68	28-Jun-16 07:00:00		**26.52**	**18.92**	**83.84**	**88.55**
28-Jun-16 08:00:00	28-Jun-16 09:00:00		48.48	0.00	0.00	5.68	2.1	329.7		15.98	0.00	0.00	1.87		10.35	18.92	83.84	86.68	28-Jun-16 08:00:00		**26.33**	**18.92**	**83.84**	**88.55**
28-Jun-16 09:00:00	28-Jun-16 10:00:00		51.51	0.00	0.00	5.70	2.1	329.7		16.98	0.00	0.00	1.88		10.35	18.92	83.84	86.68	28-Jun-16 09:00:00		**27.33**	**18.92**	**83.84**	**88.56**
28-Jun-16 10:00:00	28-Jun-16 11:00:00		55.63	0.00	0.00	5.72	2.1	329.7		18.34	0.00	0.00	1.89		10.35	18.92	83.84	86.68	28-Jun-16 10:00:00		**28.69**	**18.92**	**83.84**	**88.57**
28-Jun-16 11:00:00	28-Jun-16 12:00:00		31.43	0.00	0.00	5.65	2.1	329.7		10.36	0.00	0.00	1.86		10.35	18.92	83.84	86.68	28-Jun-16 11:00:00		**20.71**	**18.92**	**83.84**	**88.54**
28-Jun-16 12:00:00	28-Jun-16 13:00:00		28.73	0.00	0.00	5.57	2.1	329.7		9.47	0.00	0.00	1.84		10.35	18.92	83.84	86.68	28-Jun-16 12:00:00		**19.82**	**18.92**	**83.84**	**88.52**
28-Jun-16 13:00:00	28-Jun-16 14:00:00		15.38	0.00	0.00	5.50	2.1	329.7		5.07	0.00	0.00	1.81		10.35	18.92	83.84	86.68	28-Jun-16 13:00:00		**15.42**	**18.92**	**83.84**	**88.49**
28-Jun-16 14:00:00	28-Jun-16 15:00:00		36.82	0.00	0.00	5.43	2.1	329.7		12.14	0.00	0.00	1.79		10.35	18.92	83.84	86.68	28-Jun-16 14:00:00		**22.49**	**18.92**	**83.84**	**88.47**
28-Jun-16 15:00:00	28-Jun-16 16:00:00		35.38	0.00	0.00	5.38	2.1	329.7		11.67	0.00	0.00	1.77		10.35	18.92	83.84	86.68	28-Jun-16 15:00:00		**22.02**	**18.92**	**83.84**	**88.45**
28-Jun-16 16:00:00	28-Jun-16 17:00:00		42.89	0.00	0.00	5.45	2.1	329.7		14.14	0.00	0.00	1.80		10.35	18.92	83.84	86.68	28-Jun-16 16:00:00		**24.49**	**18.92**	**83.84**	**88.48**
28-Jun-16 17:00:00	28-Jun-16 18:00:00		41.31	0.00	0.00	5.52	2.1	329.7		13.62	0.00	0.00	1.82		10.35	18.92	83.84	86.68	28-Jun-16 17:00:00		**23.97**	**18.92**	**83.84**	**88.50**
28-Jun-16 18:00:00	28-Jun-16 19:00:00		41.54	0.00	0.00	5.59	2.1	329.7		13.70	0.00	0.00	1.84		10.35	18.92	83.84	86.68	28-Jun-16 18:00:00		**24.05**	**18.92**	**83.84**	**88.52**
28-Jun-16 19:00:00	28-Jun-16 20:00:00		27.19	0.00	0.00	5.66	2.1	329.7		8.97	0.00	0.00	1.87		10.35	18.92	83.84	86.68	28-Jun-16 19:00:00		**19.32**	**18.92**	**83.84**	**88.55**
28-Jun-16 20:00:00	28-Jun-16 21:00:00		4.40	0.00	0.00	5.71	2.1	329.7		1.45	0.00	0.00	1.88		10.35	18.92	83.84	86.68	28-Jun-16 20:00:00		**11.80**	**18.92**	**83.84**	**88.56**
28-Jun-16 21:00:00	28-Jun-16 22:00:00		11.90	0.00	0.00	5.77	2.1	329.7		3.92	0.00	0.00	1.90		10.35	18.92	83.84	86.68	28-Jun-16 21:00:00		**14.27**	**18.92**	**83.84**	**88.58**
28-Jun-16 22:00:00	28-Jun-16 23:00:00		18.99	0.00	0.00	5.82	2.1	329.7		6.26	0.00	0.00	1.92		10.35	18.92	83.84	86.68	28-Jun-16 22:00:00		**16.61**	**18.92**	**83.84**	**88.60**
28-Jun-16 23:00:00	29-Jun-16 00:00:00		19.92	0.00	0.00	6.05	2.1	329.7		6.57	0.00	0.00	1.99		10.35	18.92	83.84	86.68	28-Jun-16 23:00:00		**16.92**	**18.92**	**83.84**	**88.67**
29-Jun-16 00:00:00	29-Jun-16 01:00:00		10.69	0.00	0.00	6.10	2.1	329.7		3.52	0.00	0.00	2.01		10.35	18.92	83.84	86.68	29-Jun-16 00:00:00		**13.87**	**18.92**	**83.84**	**88.69**
29-Jun-16 01:00:00	29-Jun-16 02:00:00		11.54	0.00	0.00	6.08	2.1	329.7		3.80	0.00	0.00	2.00		10.35	18.92	83.84	86.68	29-Jun-16 01:00:00		**14.15**	**18.92**	**83.84**	**88.68**
29-Jun-16 02:00:00	29-Jun-16 03:00:00		10.71	0.00	0.00	6.06	2.1	329.7		3.53	0.00	0.00	2.00		10.35	18.92	83.84	86.68	29-Jun-16 02:00:00		**13.88**	**18.92**	**83.84**	**88.68**
29-Jun-16 03:00:00	29-Jun-16 04:00:00		4.50	0.00	0.00	6.14	2.1	329.7		1.49	0.00	0.00	2.02		10.35	18.92	83.84	86.68	29-Jun-16 03:00:00		**11.84**	**18.92**	**83.84**	**88.70**
29-Jun-16 04:00:00	29-Jun-16 05:00:00		1.40	0.00	0.00	6.18	2.1	329.7		0.46	0.00	0.00	2.04		10.35	18.92	83.84	86.68	29-Jun-16 04:00:00		**10.81**	**18.92**	**83.84**	**88.72**
29-Jun-16 05:00:00	29-Jun-16 06:00:00		25.26	0.00	0.00	6.20	2.1	329.7		8.33	0.00	0.00	2.04		10.35	18.92	83.84	86.68	29-Jun-16 05:00:00		**18.68**	**18.92**	**83.84**	**88.72**
29-Jun-16 06:00:00	29-Jun-16 07:00:00		12.90	0.00	0.00	6.22	2.1	329.7		4.25	0.00	0.00	2.05		10.35	18.92	83.84	86.68	29-Jun-16 06:00:00		**14.60**	**18.92**	**83.84**	**88.73**
29-Jun-16 07:00:00	29-Jun-16 08:00:00		28.09	0.00	0.00	6.18	2.1	329.7		9.26	0.00	0.00	2.04		10.35	18.92	83.84	86.68	29-Jun-16 07:00:00		**19.61**	**18.92**	**83.84**	**88.72**
29-Jun-16 08:00:00	29-Jun-16 09:00:00		27.28	0.00	0.00	6.00	2.1	329.7		9.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	29-Jun-16 08:00:00		**19.35**	**18.92**	**83.84**	**88.66**
29-Jun-16 09:00:00	29-Jun-16 10:00:00		23.95	0.00	0.00	5.81	2.1	329.7		7.90	0.00	0.00	1.92		10.35	18.92	83.84	86.68	29-Jun-16 09:00:00		**18.25**	**18.92**	**83.84**	**88.60**
29-Jun-16 10:00:00	29-Jun-16 11:00:00		34.07	0.00	0.00	5.62	2.1	329.7		11.23	0.00	0.00	1.85		10.35	18.92	83.84	86.68	29-Jun-16 10:00:00		**21.58**	**18.92**	**83.84**	**88.53**
29-Jun-16 11:00:00	29-Jun-16 12:00:00		28.05	0.00	0.00	5.37	2.1	329.7		9.25	0.00	0.00	1.77		10.35	18.92	83.84	86.68	29-Jun-16 11:00:00		**19.60**	**18.92**	**83.84**	**88.45**
29-Jun-16 12:00:00	29-Jun-16 13:00:00		18.50	0.00	0.00	5.21	2.1	329.7		6.10	0.00	0.00	1.72		10.35	18.92	83.84	86.68	29-Jun-16 12:00:00		**16.45**	**18.92**	**83.84**	**88.40**
29-Jun-16 13:00:00	29-Jun-16 14:00:00		19.70	0.00	0.00	5.08	2.1	329.7		6.50	0.00	0.00	1.67		10.35	18.92	83.84	86.68	29-Jun-16 13:00:00		**16.85**	**18.92**	**83.84**	**88.35**
29-Jun-16 14:00:00	29-Jun-16 15:00:00		45.06	0.00	0.00	4.95	2.1	329.7		14.86	0.00	0.00	1.63		10.35	18.92	83.84	86.68	29-Jun-16 14:00:00		**25.21**	**18.92**	**83.84**	**88.31**
29-Jun-16 15:00:00	29-Jun-16 16:00:00		30.60	0.00	0.00	4.85	2.1	329.7		10.09	0.00	0.00	1.60		10.35	18.92	83.84	86.68	29-Jun-16 15:00:00		**20.44**	**18.92**	**83.84**	**88.28**
29-Jun-16 16:00:00	29-Jun-16 17:00:00		8.76	0.00	0.00	4.90	2.1	329.7		2.89	0.00	0.00	1.62		10.35	18.92	83.84	86.68	29-Jun-16 16:00:00		**13.24**	**18.92**	**83.84**	**88.30**
29-Jun-16 17:00:00	29-Jun-16 18:00:00		29.19	0.00	0.00	4.97	2.1	329.7		9.62	0.00	0.00	1.64		10.35	18.92	83.84	86.68	29-Jun-16 17:00:00		**19.97**	**18.92**	**83.84**	**88.32**
29-Jun-16 18:00:00	29-Jun-16 19:00:00		31.92	0.00	0.00	5.03	2.1	329.7		10.52	0.00	0.00	1.66		10.35	18.92	83.84	86.68	29-Jun-16 18:00:00		**20.87**	**18.92**	**83.84**	**88.34**
29-Jun-16 19:00:00	29-Jun-16 20:00:00		16.95	0.00	0.00	5.16	2.1	329.7		5.59	0.00	0.00	1.70		10.35	18.92	83.84	86.68	29-Jun-16 19:00:00		**15.94**	**18.92**	**83.84**	**88.38**
29-Jun-16 20:00:00	29-Jun-16 21:00:00		16.85	0.00	0.00	5.47	2.1	329.7		5.56	0.00	0.00	1.80		10.35	18.92	83.84	86.68	29-Jun-16 20:00:00		**15.91**	**18.92**	**83.84**	**88.48**
29-Jun-16 21:00:00	29-Jun-16 22:00:00		18.62	0.00	0.00	5.79	2.1	329.7		6.14	0.00	0.00	1.91		10.35	18.92	83.84	86.68	29-Jun-16 21:00:00		**16.49**	**18.92**	**83.84**	**88.59**
29-Jun-16 22:00:00	29-Jun-16 23:00:00		27.75	0.00	0.00	6.12	2.1	329.7		9.15	0.00	0.00	2.02		10.35	18.92	83.84	86.68	29-Jun-16 22:00:00		**19.50**	**18.92**	**83.84**	**88.70**
29-Jun-16 23:00:00	30-Jun-16 00:00:00		16.26	0.00	0.00	6.41	2.1	329.7		5.36	0.00	0.00	2.11		10.35	18.92	83.84	86.68	29-Jun-16 23:00:00		**15.71**	**18.92**	**83.84**	**88.79**
30-Jun-16 00:00:00	30-Jun-16 01:00:00		1.31	0.00	0.00	6.46	2.1	329.7		0.43	0.00	0.00	2.13		10.35	18.92	83.84	86.68	30-Jun-16 00:00:00		**10.78**	**18.92**	**83.84**	**88.81**
30-Jun-16 01:00:00	30-Jun-16 02:00:00		21.66	0.00	0.00	6.48	2.1	329.7		7.14	0.00	0.00	2.14		10.35	18.92	83.84	86.68	30-Jun-16 01:00:00		**17.49**	**18.92**	**83.84**	**88.82**
30-Jun-16 02:00:00	30-Jun-16 03:00:00		5.58	0.00	0.00	6.50	2.1	329.7		1.84	0.00	0.00	2.14		10.35	18.92	83.84	86.68	30-Jun-16 02:00:00		**12.19**	**18.92**	**83.84**	**88.82**
30-Jun-16 03:00:00	30-Jun-16 04:00:00		7.49	0.00	0.00	6.50	2.1	329.7		2.47	0.00	0.00	2.14		10.35	18.92	83.84	86.68	30-Jun-16 03:00:00		**12.82**	**18.92**	**83.84**	**88.82**
30-Jun-16 04:00:00	30-Jun-16 05:00:00		19.17	0.00	0.00	6.43	2.1	329.7		6.32	0.00	0.00	2.12		10.35	18.92	83.84	86.68	30-Jun-16 04:00:00		**16.67**	**18.92**	**83.84**	**88.80**
30-Jun-16 05:00:00	30-Jun-16 06:00:00		0.54	0.00	0.00	6.35	2.1	329.7		0.18	0.00	0.00	2.09		10.35	18.92	83.84	86.68	30-Jun-16 05:00:00		**10.53**	**18.92**	**83.84**	**88.77**
30-Jun-16 06:00:00	30-Jun-16 07:00:00		0.15	0.00	0.00	6.28	2.1	329.7		0.05	0.00	0.00	2.07		10.35	18.92	83.84	86.68	30-Jun-16 06:00:00		**10.40**	**18.92**	**83.84**	**88.75**
30-Jun-16 07:00:00	30-Jun-16 08:00:00		0.09	0.00	0.00	6.20	2.1	329.7		0.03	0.00	0.00	2.04		10.35	18.92	83.84	86.68	30-Jun-16 07:00:00		**10.38**	**18.92**	**83.84**	**88.72**
30-Jun-16 08:00:00	30-Jun-16 09:00:00		0.00	0.00	0.00	6.13	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	30-Jun-16 08:00:00		**10.35**	**18.92**	**83.84**	**88.70**
30-Jun-16 09:00:00	30-Jun-16 10:00:00		0.10	0.00	0.00	6.05	2.1	329.7		0.03	0.00	0.00	2.00		10.35	18.92	83.84	86.68	30-Jun-16 09:00:00		**10.38**	**18.92**	**83.84**	**88.68**
30-Jun-16 10:00:00	30-Jun-16 11:00:00		0.12	0.00	0.00	5.98	2.1	329.7		0.04	0.00	0.00	1.97		10.35	18.92	83.84	86.68	30-Jun-16 10:00:00		**10.39**	**18.92**	**83.84**	**88.65**
30-Jun-16 11:00:00	30-Jun-16 12:00:00		0.26	0.00	0.00	5.78	2.1	329.7		0.08	0.00	0.00	1.91		10.35	18.92	83.84	86.68	30-Jun-16 11:00:00		**10.43**	**18.92**	**83.84**	**88.59**
30-Jun-16 12:00:00	30-Jun-16 13:00:00		0.39	0.00	0.00	5.66	2.1	329.7		0.13	0.00	0.00	1.87		10.35	18.92	83.84	86.68	30-Jun-16 12:00:00		**10.48**	**18.92**	**83.84**	**88.55**
30-Jun-16 13:00:00	30-Jun-16 14:00:00		1.66	0.00	0.00	5.61	2.1	329.7		0.55	0.00	0.00	1.85		10.35	18.92	83.84	86.68	30-Jun-16 13:00:00		**10.90**	**18.92**	**83.84**	**88.53**
30-Jun-16 14:00:00	30-Jun-16 15:00:00		54.85	0.00	0.00	5.55	2.1	329.7		18.08	0.00	0.00	1.83		10.35	18.92	83.84	86.68	30-Jun-16 14:00:00		**28.43**	**18.92**	**83.84**	**88.51**
30-Jun-16 15:00:00	30-Jun-16 16:00:00		24.87	0.00	0.00	5.42	2.1	329.7		8.20	0.00	0.00	1.79		10.35	18.92	83.84	86.68	30-Jun-16 15:00:00		**18.55**	**18.92**	**83.84**	**88.47**
30-Jun-16 16:00:00	30-Jun-16 17:00:00		26.91	0.00	0.00	5.32	2.1	329.7		8.87	0.00	0.00	1.75		10.35	18.92	83.84	86.68	30-Jun-16 16:00:00		**19.22**	**18.92**	**83.84**	**88.43**
30-Jun-16 17:00:00	30-Jun-16 18:00:00		21.47	0.00	0.00	5.27	2.1	329.7		7.08	0.00	0.00	1.74		10.35	18.92	83.84	86.68	30-Jun-16 17:00:00		**17.43**	**18.92**	**83.84**	**88.42**
30-Jun-16 18:00:00	30-Jun-16 19:00:00		23.28	0.00	0.00	5.21	2.1	329.7		7.68	0.00	0.00	1.72		10.35	18.92	83.84	86.68	30-Jun-16 18:00:00		**18.03**	**18.92**	**83.84**	**88.40**
30-Jun-16 19:00:00	30-Jun-16 20:00:00		20.70	0.00	0.00	5.11	2.1	329.7		6.82	0.00	0.00	1.69		10.35	18.92	83.84	86.68	30-Jun-16 19:00:00		**17.17**	**18.92**	**83.84**	**88.37**
30-Jun-16 20:00:00	30-Jun-16 21:00:00		20.35	0.00	0.00	5.08	2.1	329.7		6.71	0.00	0.00	1.68		10.35	18.92	83.84	86.68	30-Jun-16 20:00:00		**17.06**	**18.92**	**83.84**	**88.36**
30-Jun-16 21:00:00	30-Jun-16 22:00:00		20.25	0.00	0.00	5.08	2.1	329.7		6.68	0.00	0.00	1.68		10.35	18.92	83.84	86.68	30-Jun-16 21:00:00		**17.03**	**18.92**	**83.84**	**88.36**
30-Jun-16 22:00:00	30-Jun-16 23:00:00		20.35	0.00	0.00	5.08	2.1	329.7		6.71	0.00	0.00	1.68		10.35	18.92	83.84	86.68	30-Jun-16 22:00:00		**17.06**	**18.92**	**83.84**	**88.36**
30-Jun-16 23:00:00	01-Jul-16 00:00:00		21.58	0.00	0.00	5.11	2.1	329.7		7.12	0.00	0.00	1.69		10.35	18.92	83.84	86.68	30-Jun-16 23:00:00		**17.47**	**18.92**	**83.84**	**88.37**
01-Jul-16 00:00:00	01-Jul-16 01:00:00		20.47	0.00	0.00	5.25	2.1	329.7		6.75	0.00	0.00	1.73		10.35	18.92	83.84	86.68	01-Jul-16 00:00:00		**17.10**	**18.92**	**83.84**	**88.41**
01-Jul-16 01:00:00	01-Jul-16 02:00:00		15.63	0.00	0.00	5.40	2.1	329.7		5.15	0.00	0.00	1.78		10.35	18.92	83.84	86.68	01-Jul-16 01:00:00		**15.50**	**18.92**	**83.84**	**88.46**
01-Jul-16 02:00:00	01-Jul-16 03:00:00		22.15	0.00	0.00	5.55	2.1	329.7		7.30	0.00	0.00	1.83		10.35	18.92	83.84	86.68	01-Jul-16 02:00:00		**17.65**	**18.92**	**83.84**	**88.51**
01-Jul-16 03:00:00	01-Jul-16 04:00:00		23.44	0.00	0.00	5.65	2.1	329.7		7.73	0.00	0.00	1.86		10.35	18.92	83.84	86.68	01-Jul-16 03:00:00		**18.08**	**18.92**	**83.84**	**88.54**
01-Jul-16 04:00:00	01-Jul-16 05:00:00		45.10	0.00	0.00	5.65	2.1	329.7		14.87	0.00	0.00	1.86		10.35	18.92	83.84	86.68	01-Jul-16 04:00:00		**25.22**	**18.92**	**83.84**	**88.54**
01-Jul-16 05:00:00	01-Jul-16 06:00:00		57.75	0.00	0.00	5.65	2.1	329.7		19.04	0.00	0.00	1.86		10.35	18.92	83.84	86.68	01-Jul-16 05:00:00		**29.39**	**18.92**	**83.84**	**88.54**
01-Jul-16 06:00:00	01-Jul-16 07:00:00		49.26	0.00	0.00	5.65	2.1	329.7		16.24	0.00	0.00	1.86		10.35	18.92	83.84	86.68	01-Jul-16 06:00:00		**26.59**	**18.92**	**83.84**	**88.54**
01-Jul-16 07:00:00	01-Jul-16 08:00:00		45.69	0.00	0.00	5.64	2.1	329.7		15.06	0.00	0.00	1.86		10.35	18.92	83.84	86.68	01-Jul-16 07:00:00		**25.41**	**18.92**	**83.84**	**88.54**
01-Jul-16 08:00:00	01-Jul-16 09:00:00		50.17	0.00	0.00	5.62	2.1	329.7		16.54	0.00	0.00	1.85		10.35	18.92	83.84	86.68	01-Jul-16 08:00:00		**26.89**	**18.92**	**83.84**	**88.53**
01-Jul-16 09:00:00	01-Jul-16 10:00:00		47.30	0.00	0.00	5.59	2.1	329.7		15.59	0.00	0.00	1.84		10.35	18.92	83.84	86.68	01-Jul-16 09:00:00		**25.94**	**18.92**	**83.84**	**88.52**
01-Jul-16 10:00:00	01-Jul-16 11:00:00		47.28	0.00	0.00	5.56	2.1	329.7		15.59	0.00	0.00	1.83		10.35	18.92	83.84	86.68	01-Jul-16 10:00:00		**25.94**	**18.92**	**83.84**	**88.51**
01-Jul-16 11:00:00	01-Jul-16 12:00:00		40.80	0.00	0.00	5.53	2.1	329.7		13.45	0.00	0.00	1.82		10.35	18.92	83.84	86.68	01-Jul-16 11:00:00		**23.80**	**18.92**	**83.84**	**88.50**
01-Jul-16 12:00:00	01-Jul-16 13:00:00		7.21	0.00	0.00	5.37	2.1	329.7		2.38	0.00	0.00	1.77		10.35	18.92	83.84	86.68	01-Jul-16 12:00:00		**12.73**	**18.92**	**83.84**	**88.45**
01-Jul-16 13:00:00	01-Jul-16 14:00:00		9.10	0.00	0.00	5.18	2.1	329.7		3.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	01-Jul-16 13:00:00		**13.35**	**18.92**	**83.84**	**88.39**
01-Jul-16 14:00:00	01-Jul-16 15:00:00		3.51	0.00	0.00	4.99	2.1	329.7		1.16	0.00	0.00	1.64		10.35	18.92	83.84	86.68	01-Jul-16 14:00:00		**11.51**	**18.92**	**83.84**	**88.32**
01-Jul-16 15:00:00	01-Jul-16 16:00:00		0.54	0.00	0.00	4.79	2.1	329.7		0.18	0.00	0.00	1.58		10.35	18.92	83.84	86.68	01-Jul-16 15:00:00		**10.53**	**18.92**	**83.84**	**88.26**
01-Jul-16 16:00:00	01-Jul-16 17:00:00		1.24	0.00	0.00	4.68

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
03-Jul-16 18:00:00	03-Jul-16 19:00:00		0.46	0.00	0.00	4.86	2.1	329.7		0.15	0.00	0.00	1.60		10.35	18.92	83.84	86.68	03-Jul-16 18:00:00		10.50	18.92	83.84	88.28
03-Jul-16 19:00:00	03-Jul-16 20:00:00		1.77	0.00	0.00	4.98	2.1	329.7		0.58	0.00	0.00	1.64		10.35	18.92	83.84	86.68	03-Jul-16 19:00:00		10.93	18.92	83.84	88.32
03-Jul-16 20:00:00	03-Jul-16 21:00:00		4.00	0.00	0.00	5.22	2.1	329.7		1.32	0.00	0.00	1.72		10.35	18.92	83.84	86.68	03-Jul-16 20:00:00		11.67	18.92	83.84	88.40
03-Jul-16 21:00:00	03-Jul-16 22:00:00		1.40	0.00	0.00	5.49	2.1	329.7		0.46	0.00	0.00	1.81		10.35	18.92	83.84	86.68	03-Jul-16 21:00:00		10.81	18.92	83.84	88.49
03-Jul-16 22:00:00	03-Jul-16 23:00:00		2.32	0.00	0.00	5.77	2.1	329.7		0.76	0.00	0.00	1.90		10.35	18.92	83.84	86.68	03-Jul-16 22:00:00		11.11	18.92	83.84	88.58
03-Jul-16 23:00:00	04-Jul-16 00:00:00		9.68	0.00	0.00	6.00	2.1	329.7		3.19	0.00	0.00	1.98		10.35	18.92	83.84	86.68	03-Jul-16 23:00:00		13.54	18.92	83.84	88.66
04-Jul-16 00:00:00	04-Jul-16 01:00:00		11.67	0.00	0.00	6.05	2.1	329.7		3.85	0.00	0.00	1.99		10.35	18.92	83.84	86.68	04-Jul-16 00:00:00		14.20	18.92	83.84	88.67
04-Jul-16 01:00:00	04-Jul-16 02:00:00		0.00	0.00	0.00	6.09	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	04-Jul-16 01:00:00		10.35	18.92	83.84	88.69
04-Jul-16 02:00:00	04-Jul-16 03:00:00		0.00	0.00	0.00	6.13	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	04-Jul-16 02:00:00		10.35	18.92	83.84	88.70
04-Jul-16 03:00:00	04-Jul-16 04:00:00		0.00	0.00	0.00	6.11	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	04-Jul-16 03:00:00		10.35	18.92	83.84	88.70
04-Jul-16 04:00:00	04-Jul-16 05:00:00		0.00	0.00	0.00	6.09	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	04-Jul-16 04:00:00		10.35	18.92	83.84	88.69
04-Jul-16 05:00:00	04-Jul-16 06:00:00		0.00	0.00	0.00	6.13	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	04-Jul-16 05:00:00		10.35	18.92	83.84	88.70
04-Jul-16 06:00:00	04-Jul-16 07:00:00		0.00	0.00	0.00	6.17	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	04-Jul-16 06:00:00		10.35	18.92	83.84	88.71
04-Jul-16 07:00:00	04-Jul-16 08:00:00		0.00	0.00	0.00	6.18	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	04-Jul-16 07:00:00		10.35	18.92	83.84	88.72
04-Jul-16 08:00:00	04-Jul-16 09:00:00		0.00	0.00	0.00	5.93	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	04-Jul-16 08:00:00		10.35	18.92	83.84	88.63
04-Jul-16 09:00:00	04-Jul-16 10:00:00		0.00	0.00	0.00	5.60	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	04-Jul-16 09:00:00		10.35	18.92	83.84	88.53
04-Jul-16 10:00:00	04-Jul-16 11:00:00		0.00	0.00	0.00	5.27	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	04-Jul-16 10:00:00		10.35	18.92	83.84	88.42
04-Jul-16 11:00:00	04-Jul-16 12:00:00		0.00	0.00	0.00	4.98	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	04-Jul-16 11:00:00		10.35	18.92	83.84	88.32
04-Jul-16 12:00:00	04-Jul-16 13:00:00		2.86	0.00	0.00	4.86	2.1	329.7		0.94	0.00	0.00	1.60		10.35	18.92	83.84	86.68	04-Jul-16 12:00:00		11.29	18.92	83.84	88.28
04-Jul-16 13:00:00	04-Jul-16 14:00:00		0.07	0.00	0.00	4.75	2.1	329.7		0.02	0.00	0.00	1.57		10.35	18.92	83.84	86.68	04-Jul-16 13:00:00		10.37	18.92	83.84	88.25
04-Jul-16 14:00:00	04-Jul-16 15:00:00		0.13	0.00	0.00	4.65	2.1	329.7		0.04	0.00	0.00	1.53		10.35	18.92	83.84	86.68	04-Jul-16 14:00:00		10.39	18.92	83.84	88.21
04-Jul-16 15:00:00	04-Jul-16 16:00:00		0.00	0.00	0.00	4.55	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	04-Jul-16 15:00:00		10.35	18.92	83.84	88.18
04-Jul-16 16:00:00	04-Jul-16 17:00:00		0.00	0.00	0.00	4.57	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	04-Jul-16 16:00:00		10.35	18.92	83.84	88.19
04-Jul-16 17:00:00	04-Jul-16 18:00:00		0.00	0.00	0.00	4.63	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	04-Jul-16 17:00:00		10.35	18.92	83.84	88.21
04-Jul-16 18:00:00	04-Jul-16 19:00:00		1.41	0.00	0.00	4.70	2.1	329.7		0.47	0.00	0.00	1.55		10.35	18.92	83.84	86.68	04-Jul-16 18:00:00		10.82	18.92	83.84	88.23
04-Jul-16 19:00:00	04-Jul-16 20:00:00		0.80	0.00	0.00	4.74	2.1	329.7		0.26	0.00	0.00	1.56		10.35	18.92	83.84	86.68	04-Jul-16 19:00:00		10.61	18.92	83.84	88.24
04-Jul-16 20:00:00	04-Jul-16 21:00:00		4.64	0.00	0.00	4.81	2.1	329.7		1.53	0.00	0.00	1.59		10.35	18.92	83.84	86.68	04-Jul-16 20:00:00		11.88	18.92	83.84	88.27
04-Jul-16 21:00:00	04-Jul-16 22:00:00		1.81	0.00	0.00	4.91	2.1	329.7		0.60	0.00	0.00	1.62		10.35	18.92	83.84	86.68	04-Jul-16 21:00:00		10.95	18.92	83.84	88.30
04-Jul-16 22:00:00	04-Jul-16 23:00:00		2.74	0.00	0.00	5.01	2.1	329.7		0.90	0.00	0.00	1.65		10.35	18.92	83.84	86.68	04-Jul-16 22:00:00		11.25	18.92	83.84	88.33
04-Jul-16 23:00:00	05-Jul-16 00:00:00		6.49	0.00	0.00	5.10	2.1	329.7		2.14	0.00	0.00	1.68		10.35	18.92	83.84	86.68	04-Jul-16 23:00:00		12.49	18.92	83.84	88.36
05-Jul-16 00:00:00	05-Jul-16 01:00:00		5.44	0.00	0.00	5.10	2.1	329.7		1.79	0.00	0.00	1.68		10.35	18.92	83.84	86.68	05-Jul-16 00:00:00		12.14	18.92	83.84	88.36
05-Jul-16 01:00:00	05-Jul-16 02:00:00		0.00	0.00	0.00	5.10	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	05-Jul-16 01:00:00		10.35	18.92	83.84	88.36
05-Jul-16 02:00:00	05-Jul-16 03:00:00		0.00	0.00	0.00	5.10	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	05-Jul-16 02:00:00		10.35	18.92	83.84	88.36
05-Jul-16 03:00:00	05-Jul-16 04:00:00		0.00	0.00	0.00	5.14	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	05-Jul-16 03:00:00		10.35	18.92	83.84	88.37
05-Jul-16 04:00:00	05-Jul-16 05:00:00		0.00	0.00	0.00	5.28	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	05-Jul-16 04:00:00		10.35	18.92	83.84	88.42
05-Jul-16 05:00:00	05-Jul-16 06:00:00		0.00	0.00	0.00	5.38	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	05-Jul-16 05:00:00		10.35	18.92	83.84	88.45
05-Jul-16 06:00:00	05-Jul-16 07:00:00		0.00	0.00	0.00	5.47	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	05-Jul-16 06:00:00		10.35	18.92	83.84	88.48
05-Jul-16 07:00:00	05-Jul-16 08:00:00		0.00	0.00	0.00	5.58	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	05-Jul-16 07:00:00		10.35	18.92	83.84	88.52
05-Jul-16 08:00:00	05-Jul-16 09:00:00		0.00	0.00	0.00	5.53	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	05-Jul-16 08:00:00		10.35	18.92	83.84	88.50
05-Jul-16 09:00:00	05-Jul-16 10:00:00		0.00	0.00	0.00	5.39	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	05-Jul-16 09:00:00		10.35	18.92	83.84	88.46
05-Jul-16 10:00:00	05-Jul-16 11:00:00		1.56	0.00	0.00	5.24	2.1	329.7		0.52	0.00	0.00	1.73		10.35	18.92	83.84	86.68	05-Jul-16 10:00:00		10.87	18.92	83.84	88.41
05-Jul-16 11:00:00	05-Jul-16 12:00:00		9.59	0.00	0.00	5.13	2.1	329.7		3.16	0.00	0.00	1.69		10.35	18.92	83.84	86.68	05-Jul-16 11:00:00		13.51	18.92	83.84	88.37
05-Jul-16 12:00:00	05-Jul-16 13:00:00		0.07	0.00	0.00	5.04	2.1	329.7		0.02	0.00	0.00	1.66		10.35	18.92	83.84	86.68	05-Jul-16 12:00:00		10.37	18.92	83.84	88.34
05-Jul-16 13:00:00	05-Jul-16 14:00:00		0.00	0.00	0.00	4.91	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	05-Jul-16 13:00:00		10.35	18.92	83.84	88.30
05-Jul-16 14:00:00	05-Jul-16 15:00:00		0.63	0.00	0.00	4.78	2.1	329.7		0.21	0.00	0.00	1.58		10.35	18.92	83.84	86.68	05-Jul-16 14:00:00		10.56	18.92	83.84	88.26
05-Jul-16 15:00:00	05-Jul-16 16:00:00		0.09	0.00	0.00	4.65	2.1	329.7		0.03	0.00	0.00	1.53		10.35	18.92	83.84	86.68	05-Jul-16 15:00:00		10.38	18.92	83.84	88.21
05-Jul-16 16:00:00	05-Jul-16 17:00:00		0.18	0.00	0.00	4.59	2.1	329.7		0.06	0.00	0.00	1.51		10.35	18.92	83.84	86.68	05-Jul-16 16:00:00		10.41	18.92	83.84	88.19
05-Jul-16 17:00:00	05-Jul-16 18:00:00		0.23	0.00	0.00	4.58	2.1	329.7		0.08	0.00	0.00	1.51		10.35	18.92	83.84	86.68	05-Jul-16 17:00:00		10.43	18.92	83.84	88.19
05-Jul-16 18:00:00	05-Jul-16 19:00:00		0.00	0.00	0.00	4.57	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	05-Jul-16 18:00:00		10.35	18.92	83.84	88.19
05-Jul-16 19:00:00	05-Jul-16 20:00:00		1.56	0.00	0.00	4.60	2.1	329.7		0.51	0.00	0.00	1.52		10.35	18.92	83.84	86.68	05-Jul-16 19:00:00		10.86	18.92	83.84	88.20
05-Jul-16 20:00:00	05-Jul-16 21:00:00		2.58	0.00	0.00	4.88	2.1	329.7		0.85	0.00	0.00	1.61		10.35	18.92	83.84	86.68	05-Jul-16 20:00:00		11.20	18.92	83.84	88.29
05-Jul-16 21:00:00	05-Jul-16 22:00:00		0.70	0.00	0.00	5.16	2.1	329.7		0.23	0.00	0.00	1.70		10.35	18.92	83.84	86.68	05-Jul-16 21:00:00		10.58	18.92	83.84	88.38
05-Jul-16 22:00:00	05-Jul-16 23:00:00		2.77	0.00	0.00	5.44	2.1	329.7		0.91	0.00	0.00	1.79		10.35	18.92	83.84	86.68	05-Jul-16 22:00:00		11.26	18.92	83.84	88.47
05-Jul-16 23:00:00	06-Jul-16 00:00:00		2.50	0.00	0.00	5.68	2.1	329.7		0.82	0.00	0.00	1.87		10.35	18.92	83.84	86.68	05-Jul-16 23:00:00		11.17	18.92	83.84	88.55
06-Jul-16 00:00:00	06-Jul-16 01:00:00		4.34	0.00	0.00	5.72	2.1	329.7		1.43	0.00	0.00	1.89		10.35	18.92	83.84	86.68	06-Jul-16 00:00:00		11.78	18.92	83.84	88.57
06-Jul-16 01:00:00	06-Jul-16 02:00:00		5.69	0.00	0.00	5.76	2.1	329.7		1.87	0.00	0.00	1.90		10.35	18.92	83.84	86.68	06-Jul-16 01:00:00		12.22	18.92	83.84	88.58
06-Jul-16 02:00:00	06-Jul-16 03:00:00		5.16	0.00	0.00	5.80	2.1	329.7		1.70	0.00	0.00	1.91		10.35	18.92	83.84	86.68	06-Jul-16 02:00:00		12.05	18.92	83.84	88.59
06-Jul-16 03:00:00	06-Jul-16 04:00:00		2.23	0.00	0.00	5.82	2.1	329.7		0.73	0.00	0.00	1.92		10.35	18.92	83.84	86.68	06-Jul-16 03:00:00		11.08	18.92	83.84	88.60
06-Jul-16 04:00:00	06-Jul-16 05:00:00		1.50	0.00	0.00	5.97	2.1	329.7		0.49	0.00	0.00	1.97		10.35	18.92	83.84	86.68	06-Jul-16 04:00:00		10.84	18.92	83.84	88.65
06-Jul-16 05:00:00	06-Jul-16 06:00:00		0.77	0.00	0.00	6.23	2.1	329.7		0.25	0.00	0.00	2.05		10.35	18.92	83.84	86.68	06-Jul-16 05:00:00		10.60	18.92	83.84	88.73
06-Jul-16 06:00:00	06-Jul-16 07:00:00		0.14	0.00	0.00	6.48	2.1	329.7		0.05	0.00	0.00	2.14		10.35	18.92	83.84	86.68	06-Jul-16 06:00:00		10.40	18.92	83.84	88.82
06-Jul-16 07:00:00	06-Jul-16 08:00:00		0.30	0.00	0.00	6.71	2.1	329.7		0.10	0.00	0.00	2.21		10.35	18.92	83.84	86.68	06-Jul-16 07:00:00		10.45	18.92	83.84	88.89
06-Jul-16 08:00:00	06-Jul-16 09:00:00		0.61	0.00	0.00	6.63	2.1	329.7		0.20	0.00	0.00	2.19		10.35	18.92	83.84	86.68	06-Jul-16 08:00:00		10.55	18.92	83.84	88.87
06-Jul-16 09:00:00	06-Jul-16 10:00:00		0.93	0.00	0.00	6.46	2.1	329.7		0.31	0.00	0.00	2.13		10.35	18.92	83.84	86.68	06-Jul-16 09:00:00		10.66	18.92	83.84	88.81
06-Jul-16 10:00:00	06-Jul-16 11:00:00		2.76	0.00	0.00	6.29	2.1	329.7		0.91	0.00	0.00	2.07		10.35	18.92	83.84	86.68	06-Jul-16 10:00:00		11.26	18.92	83.84	88.75
06-Jul-16 11:00:00	06-Jul-16 12:00:00		6.09	0.00	0.00	6.06	2.1	329.7		2.01	0.00	0.00	2.00		10.35	18.92	83.84	86.68	06-Jul-16 11:00:00		12.36	18.92	83.84	88.68
06-Jul-16 12:00:00	06-Jul-16 13:00:00		2.48	0.00	0.00	5.71	2.1	329.7		0.82	0.00	0.00	1.88		10.35	18.92	83.84	86.68	06-Jul-16 12:00:00		11.17	18.92	83.84	88.56
06-Jul-16 13:00:00	06-Jul-16 14:00:00		1.59	0.00	0.00	5.48	2.1	329.7		0.52	0.00	0.00	1.81		10.35	18.92	83.84	86.68	06-Jul-16 13:00:00		10.87	18.92	83.84	88.49
06-Jul-16 14:00:00	06-Jul-16 15:00:00		0.50	0.00	0.00	5.24	2.1	329.7		0.16	0.00	0.00	1.73		10.35	18.92	83.84	86.68	06-Jul-16 14:00:00		10.51	18.92	83.84	88.41
06-Jul-16 15:00:00	06-Jul-16 16:00:00		0.00	0.00	0.00	5.06	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	06-Jul-16 15:00:00		10.35	18.92	83.84	88.35
06-Jul-16 16:00:00	06-Jul-16 17:00:00		0.00	0.00	0.00	5.20	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	06-Jul-16 16:00:00		10.35	18.92	83.84	88.40
06-Jul-16 17:00:00	06-Jul-16 18:00:00		0.27	0.00	0.00	5.35	2.1	329.7		0.09	0.00	0.00	1.76		10.35	18.92	83.84	86.68	06-Jul-16 17:00:00		10.44	18.92	83.84	88.44
06-Jul-16 18:00:00	06-Jul-16 19:00:00		2.17	0.00	0.00	5.50	2.1	329.7		0.72	0.00	0.00	1.81		10.35	18.92	83.84	86.68	06-Jul-16 18:00:00		11.07	18.92	83.84	88.49
06-Jul-16 19:00:00	06-Jul-16 20:00:00		10.06	0.00	0.00	5.63	2.1	329.7		3.32	0.00	0.00	1.86		10.35	18.92	83.84	86.68	06-Jul-16 19:00:00		13.67	18.92	83.84	88.54
06-Jul-16 20:00:00	06-Jul-16 21:00:00		12.29	0.00	0.00	5.53	2.1	329.7		4.05	0.00	0.00	1.82		10.35	18.92	83.84	86.68	06-Jul-16 20:00:00		14.40	18.92	83.84	88.50
06-Jul-16 21:00:00	06-Jul-16 22:00:00		2.70	0.00	0.00	5.39	2.1	329.7		0.89	0.00	0.00	1.78		10.35	18.92	83.84	86.68	06-Jul-16 21:00:00		11.24	18.92	83.84	88.46
06-Jul-16 22:00:00	06-Jul-16 23:00:00		0.00	0.00	0.00	5.24	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	06-Jul-16 22:00:00		10.35	18.92	83.84	88.41
06-Jul-16 23:00:00	07-Jul-16 00:00:00		0.00	0.00	0.00	5.09	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	06-Jul-16 23:00:00		10.35	18.92	83.84	88.36
07-Jul-16 00:00:00	07-Jul-16 01:00:00		0.00	0.00	0.00	5.30	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	07-Jul-16 00:00:00		10.35	18.92	83.84	88.43
07-Jul-16 01:00:00	07-Jul-16 02:00:00		2.31	0.00	0.00	5.71	2.1	329.7		0.76	0.00	0.00	1.88		10.35	18.92	83.84	86.68	07-Jul-16 01:00:00		11.11	18.92	83.84	88.56
07-Jul-16 02:00:00	07-Jul-16 03:00:00		0.00	0.00	0.00	6.12	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	07-Jul-16 02:00:00		10.35	18.92	83.84	88.70
07-Jul-16 03:00:00	07-Jul-16 04:00:00		0.00	0.00	0.00	6.45	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	07-Jul-16 03:00:00		10.35	18.92	83.84	88.81
07-Jul-16 04:00:00	07-Jul-16 05:00:00		0.00	0.00	0.00	6.36	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	07-Jul-16 04:00:00		10.35	18.92	83.84	88.78
07-Jul-16 05:00:00	07-Jul-16 06:00:00		0.00	0.00	0.00	6.32	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	07-Jul-16 05:00:00		10.35	18.92	83.84	88.76
07-Jul-16 06:00:00	07-Jul-16 07:00:00		0.00	0.00	0.00	6.27	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	07-Jul-16 06:00:00		10.35	18.92	83.84	88.75
07-Jul-16 07:00:00	07-Jul-16 08:00:00		0.00	0.00	0.00	6.24	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	07-Jul-16 07:00:00		10.35	18.92	83.84	88.74
07-Jul-16 08:00:00	07-Jul-16 09:00:00		0.00	0.00	0.00	6.17	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	07-Jul-16 08:00:00		10.35	18.92	83.84	88.72
07-Jul-16 09:00:00	07-Jul-16 10:00:00		0.00	0.00	0.00	6.02	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	07-Jul-16 09:00:00		10.35	18.92	83.84	88.66
07-Jul-16 10:00:00	07-Jul-16 11:00:00		0.06	0.00	0.00	5.86	2.1	329.7		0.02	0.00	0.00	1.93		10.35	18.92	83.84	86.68	07-Jul-16 10:00:00		10.37	18.92	83.84	88.61
07-Jul-16 11:00:00	07-Jul-16 12:00:00		5.65	0.00	0.00	5.73	2.1	329.7		1.86	0.00	0.00	1.89		10.35	18.92	83.84	86.68	07-Jul-16 11:00:00		12.21	18.92	83.84	88.57
07-Jul-16 12:00:00	07-Jul-16 13:00:00		4.86	0.00	0.00	5.59	2.1	329.7		1.60	0.00	0.00	1.84		10.35	18.92	83.84	86.68	07-Jul-16 12:00:00		11.95	18.92	83.84	88.52
07-Jul-16 13:00:00	07-Jul-16 14:00:00		0.98	0.00	0.00	5.34	2.1	329.7		0.32	0.00	0.00	1.76		10.35	18.92	83.84	86.68	07-Jul-16 13:00:00		10.67	18.92	83.84	88.44
07-Jul-16 14:00:00	07-Jul-16 15:00:00		0.21	0.00	0.00	5.09	2.1	329.7		0.07	0.00	0.00	1.68		10.35	18.92	83.84	86.68	07-Jul-16 14:00:00		10.42	18.92	83.84	88.36
07-Jul-16 15:00:00	07-Jul-16 16:00:00		0.00	0.00	0.00	4.82

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
09-Jul-16 17:00:00	09-Jul-16 18:00:00		0.00	0.00	0.00	5.52	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	09-Jul-16 17:00:00		10.35	18.92	83.84	88.50
09-Jul-16 18:00:00	09-Jul-16 19:00:00		0.00	0.00	0.00	5.10	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	09-Jul-16 18:00:00		10.35	18.92	83.84	88.36
09-Jul-16 19:00:00	09-Jul-16 20:00:00		0.00	0.00	0.00	4.69	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	09-Jul-16 19:00:00		10.35	18.92	83.84	88.23
09-Jul-16 20:00:00	09-Jul-16 21:00:00		0.00	0.00	0.00	4.67	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	09-Jul-16 20:00:00		10.35	18.92	83.84	88.22
09-Jul-16 21:00:00	09-Jul-16 22:00:00		0.32	0.00	0.00	4.78	2.1	329.7		0.11	0.00	0.00	1.58		10.35	18.92	83.84	86.68	09-Jul-16 21:00:00		10.46	18.92	83.84	88.26
09-Jul-16 22:00:00	09-Jul-16 23:00:00		1.90	0.00	0.00	4.89	2.1	329.7		0.63	0.00	0.00	1.61		10.35	18.92	83.84	86.68	09-Jul-16 22:00:00		10.98	18.92	83.84	88.29
09-Jul-16 23:00:00	10-Jul-16 00:00:00		9.23	0.00	0.00	5.00	2.1	329.7		3.04	0.00	0.00	1.65		10.35	18.92	83.84	86.68	09-Jul-16 23:00:00		13.39	18.92	83.84	88.33
10-Jul-16 00:00:00	10-Jul-16 01:00:00		3.35	0.00	0.00	5.00	2.1	329.7		1.11	0.00	0.00	1.65		10.35	18.92	83.84	86.68	10-Jul-16 00:00:00		11.46	18.92	83.84	88.33
10-Jul-16 01:00:00	10-Jul-16 02:00:00		22.55	0.00	0.00	5.02	2.1	329.7		7.43	0.00	0.00	1.66		10.35	18.92	83.84	86.68	10-Jul-16 01:00:00		17.78	18.92	83.84	88.34
10-Jul-16 02:00:00	10-Jul-16 03:00:00		0.55	0.00	0.00	5.04	2.1	329.7		0.18	0.00	0.00	1.66		10.35	18.92	83.84	86.68	10-Jul-16 02:00:00		10.53	18.92	83.84	88.34
10-Jul-16 03:00:00	10-Jul-16 04:00:00		0.90	0.00	0.00	5.06	2.1	329.7		0.30	0.00	0.00	1.67		10.35	18.92	83.84	86.68	10-Jul-16 03:00:00		10.65	18.92	83.84	88.35
10-Jul-16 04:00:00	10-Jul-16 05:00:00		0.00	0.00	0.00	5.06	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	10-Jul-16 04:00:00		10.35	18.92	83.84	88.35
10-Jul-16 05:00:00	10-Jul-16 06:00:00		0.00	0.00	0.00	5.10	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	10-Jul-16 05:00:00		10.35	18.92	83.84	88.36
10-Jul-16 06:00:00	10-Jul-16 07:00:00		0.00	0.00	0.00	5.14	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	10-Jul-16 06:00:00		10.35	18.92	83.84	88.37
10-Jul-16 07:00:00	10-Jul-16 08:00:00		0.00	0.00	0.00	5.19	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	10-Jul-16 07:00:00		10.35	18.92	83.84	88.39
10-Jul-16 08:00:00	10-Jul-16 09:00:00		0.00	0.00	0.00	5.25	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	10-Jul-16 08:00:00		10.35	18.92	83.84	88.41
10-Jul-16 09:00:00	10-Jul-16 10:00:00		0.00	0.00	0.00	5.04	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	10-Jul-16 09:00:00		10.35	18.92	83.84	88.34
10-Jul-16 10:00:00	10-Jul-16 11:00:00		0.00	0.00	0.00	4.83	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	10-Jul-16 10:00:00		10.35	18.92	83.84	88.27
10-Jul-16 11:00:00	10-Jul-16 12:00:00		0.00	0.00	0.00	4.62	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	10-Jul-16 11:00:00		10.35	18.92	83.84	88.20
10-Jul-16 12:00:00	10-Jul-16 13:00:00		2.09	0.00	0.00	4.49	2.1	329.7		0.69	0.00	0.00	1.48		10.35	18.92	83.84	86.68	10-Jul-16 12:00:00		11.04	18.92	83.84	88.16
10-Jul-16 13:00:00	10-Jul-16 14:00:00		2.48	0.00	0.00	4.39	2.1	329.7		0.82	0.00	0.00	1.45		10.35	18.92	83.84	86.68	10-Jul-16 13:00:00		11.17	18.92	83.84	88.13
10-Jul-16 14:00:00	10-Jul-16 15:00:00		4.71	0.00	0.00	4.28	2.1	329.7		1.55	0.00	0.00	1.41		10.35	18.92	83.84	86.68	10-Jul-16 14:00:00		11.90	18.92	83.84	88.09
10-Jul-16 15:00:00	10-Jul-16 16:00:00		1.28	0.00	0.00	4.18	2.1	329.7		0.42	0.00	0.00	1.38		10.35	18.92	83.84	86.68	10-Jul-16 15:00:00		10.77	18.92	83.84	88.06
10-Jul-16 16:00:00	10-Jul-16 17:00:00		0.00	0.00	0.00	4.30	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	10-Jul-16 16:00:00		10.35	18.92	83.84	88.10
10-Jul-16 17:00:00	10-Jul-16 18:00:00		0.00	0.00	0.00	4.42	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	10-Jul-16 17:00:00		10.35	18.92	83.84	88.14
10-Jul-16 18:00:00	10-Jul-16 19:00:00		0.00	0.00	0.00	4.55	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	10-Jul-16 18:00:00		10.35	18.92	83.84	88.18
10-Jul-16 19:00:00	10-Jul-16 20:00:00		3.37	0.00	0.00	4.67	2.1	329.7		1.11	0.00	0.00	1.54		10.35	18.92	83.84	86.68	10-Jul-16 19:00:00		11.46	18.92	83.84	88.22
10-Jul-16 20:00:00	10-Jul-16 21:00:00		6.83	0.00	0.00	4.72	2.1	329.7		2.25	0.00	0.00	1.56		10.35	18.92	83.84	86.68	10-Jul-16 20:00:00		12.60	18.92	83.84	88.24
10-Jul-16 21:00:00	10-Jul-16 22:00:00		6.06	0.00	0.00	4.83	2.1	329.7		2.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	10-Jul-16 21:00:00		12.35	18.92	83.84	88.27
10-Jul-16 22:00:00	10-Jul-16 23:00:00		6.48	0.00	0.00	4.94	2.1	329.7		2.13	0.00	0.00	1.63		10.35	18.92	83.84	86.68	10-Jul-16 22:00:00		12.48	18.92	83.84	88.31
10-Jul-16 23:00:00	11-Jul-16 00:00:00		2.98	0.00	0.00	5.06	2.1	329.7		0.98	0.00	0.00	1.67		10.35	18.92	83.84	86.68	10-Jul-16 23:00:00		11.33	18.92	83.84	88.35
11-Jul-16 00:00:00	11-Jul-16 01:00:00		0.93	0.00	0.00	5.27	2.1	329.7		0.31	0.00	0.00	1.74		10.35	18.92	83.84	86.68	11-Jul-16 00:00:00		10.66	18.92	83.84	88.42
11-Jul-16 01:00:00	11-Jul-16 02:00:00		0.96	0.00	0.00	5.39	2.1	329.7		0.32	0.00	0.00	1.78		10.35	18.92	83.84	86.68	11-Jul-16 01:00:00		10.67	18.92	83.84	88.46
11-Jul-16 02:00:00	11-Jul-16 03:00:00		4.35	0.00	0.00	5.50	2.1	329.7		1.43	0.00	0.00	1.81		10.35	18.92	83.84	86.68	11-Jul-16 02:00:00		11.78	18.92	83.84	88.49
11-Jul-16 03:00:00	11-Jul-16 04:00:00		4.81	0.00	0.00	5.63	2.1	329.7		1.59	0.00	0.00	1.85		10.35	18.92	83.84	86.68	11-Jul-16 03:00:00		11.94	18.92	83.84	88.53
11-Jul-16 04:00:00	11-Jul-16 05:00:00		4.26	0.00	0.00	5.75	2.1	329.7		1.40	0.00	0.00	1.90		10.35	18.92	83.84	86.68	11-Jul-16 04:00:00		11.75	18.92	83.84	88.58
11-Jul-16 05:00:00	11-Jul-16 06:00:00		13.66	0.00	0.00	5.72	2.1	329.7		4.50	0.00	0.00	1.89		10.35	18.92	83.84	86.68	11-Jul-16 05:00:00		14.85	18.92	83.84	88.57
11-Jul-16 06:00:00	11-Jul-16 07:00:00		18.03	0.00	0.00	5.69	2.1	329.7		5.95	0.00	0.00	1.88		10.35	18.92	83.84	86.68	11-Jul-16 06:00:00		16.30	18.92	83.84	88.56
11-Jul-16 07:00:00	11-Jul-16 08:00:00		11.37	0.00	0.00	5.66	2.1	329.7		3.75	0.00	0.00	1.87		10.35	18.92	83.84	86.68	11-Jul-16 07:00:00		14.10	18.92	83.84	88.55
11-Jul-16 08:00:00	11-Jul-16 09:00:00		18.40	0.00	0.00	5.50	2.1	329.7		6.07	0.00	0.00	1.81		10.35	18.92	83.84	86.68	11-Jul-16 08:00:00		16.42	18.92	83.84	88.49
11-Jul-16 09:00:00	11-Jul-16 10:00:00		21.50	0.00	0.00	5.20	2.1	329.7		7.09	0.00	0.00	1.71		10.35	18.92	83.84	86.68	11-Jul-16 09:00:00		17.44	18.92	83.84	88.39
11-Jul-16 10:00:00	11-Jul-16 11:00:00		7.94	0.00	0.00	4.90	2.1	329.7		2.62	0.00	0.00	1.62		10.35	18.92	83.84	86.68	11-Jul-16 10:00:00		12.97	18.92	83.84	88.30
11-Jul-16 11:00:00	11-Jul-16 12:00:00		0.00	0.00	0.00	4.60	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	11-Jul-16 11:00:00		10.35	18.92	83.84	88.20
11-Jul-16 12:00:00	11-Jul-16 13:00:00		2.10	0.00	0.00	4.58	2.1	329.7		0.69	0.00	0.00	1.51		10.35	18.92	83.84	86.68	11-Jul-16 12:00:00		11.04	18.92	83.84	88.19
11-Jul-16 13:00:00	11-Jul-16 14:00:00		7.43	0.00	0.00	4.70	2.1	329.7		2.45	0.00	0.00	1.55		10.35	18.92	83.84	86.68	11-Jul-16 13:00:00		12.80	18.92	83.84	88.23
11-Jul-16 14:00:00	11-Jul-16 15:00:00		1.54	0.00	0.00	4.82	2.1	329.7		0.51	0.00	0.00	1.59		10.35	18.92	83.84	86.68	11-Jul-16 14:00:00		10.86	18.92	83.84	88.27
11-Jul-16 15:00:00	11-Jul-16 16:00:00		0.00	0.00	0.00	4.94	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	11-Jul-16 15:00:00		10.35	18.92	83.84	88.31
11-Jul-16 16:00:00	11-Jul-16 17:00:00		725.29	0.00	0.00	229.70	2.1	329.7		239.13	0.00	0.00	75.73		10.35	18.92	83.84	86.68	11-Jul-16 16:00:00		249.48	18.92	83.84	162.41
11-Jul-16 17:00:00	11-Jul-16 18:00:00		1,137.17	0.00	0.00	77.14	2.1	329.7		374.93	0.00	0.00	25.43		10.35	18.92	83.84	86.68	11-Jul-16 17:00:00		385.28	18.92	83.84	112.11
11-Jul-16 18:00:00	11-Jul-16 19:00:00		1,013.20	0.00	0.00	6.41	2.1	329.7		334.05	0.00	0.00	2.11		10.35	18.92	83.84	86.68	11-Jul-16 18:00:00		344.40	18.92	83.84	88.79
11-Jul-16 19:00:00	11-Jul-16 20:00:00		1,170.28	0.00	0.00	6.30	2.1	329.7		385.84	0.00	0.00	2.08		10.35	18.92	83.84	86.68	11-Jul-16 19:00:00		396.19	18.92	83.84	88.76
11-Jul-16 20:00:00	11-Jul-16 21:00:00		1,308.27	0.00	0.00	6.19	2.1	329.7		431.34	0.00	0.00	2.04		10.35	18.92	83.84	86.68	11-Jul-16 20:00:00		441.69	18.92	83.84	88.72
11-Jul-16 21:00:00	11-Jul-16 22:00:00		1,286.68	0.00	0.00	6.07	2.1	329.7		424.22	0.00	0.00	2.00		10.35	18.92	83.84	86.68	11-Jul-16 21:00:00		434.57	18.92	83.84	88.68
11-Jul-16 22:00:00	11-Jul-16 23:00:00		1,433.17	0.00	0.00	5.96	2.1	329.7		472.52	0.00	0.00	1.96		10.35	18.92	83.84	86.68	11-Jul-16 22:00:00		482.87	18.92	83.84	88.64
11-Jul-16 23:00:00	12-Jul-16 00:00:00		1,425.80	0.00	0.00	5.84	2.1	329.7		470.09	0.00	0.00	1.93		10.35	18.92	83.84	86.68	11-Jul-16 23:00:00		480.44	18.92	83.84	88.61
12-Jul-16 00:00:00	12-Jul-16 01:00:00		1,361.40	0.00	0.00	5.73	2.1	329.7		448.85	0.00	0.00	1.89		10.35	18.92	83.84	86.68	12-Jul-16 00:00:00		459.20	18.92	83.84	88.57
12-Jul-16 01:00:00	12-Jul-16 02:00:00		1,380.94	0.00	0.00	5.68	2.1	329.7		455.30	0.00	0.00	1.87		10.35	18.92	83.84	86.68	12-Jul-16 01:00:00		465.65	18.92	83.84	88.55
12-Jul-16 02:00:00	12-Jul-16 03:00:00		1,418.82	0.00	0.00	5.77	2.1	329.7		467.78	0.00	0.00	1.90		10.35	18.92	83.84	86.68	12-Jul-16 02:00:00		478.13	18.92	83.84	88.58
12-Jul-16 03:00:00	12-Jul-16 04:00:00		1,449.75	0.00	0.00	5.86	2.1	329.7		477.98	0.00	0.00	1.93		10.35	18.92	83.84	86.68	12-Jul-16 03:00:00		488.33	18.92	83.84	88.61
12-Jul-16 04:00:00	12-Jul-16 05:00:00		1,390.80	0.00	0.00	5.96	2.1	329.7		458.55	0.00	0.00	1.96		10.35	18.92	83.84	86.68	12-Jul-16 04:00:00		468.90	18.92	83.84	88.64
12-Jul-16 05:00:00	12-Jul-16 06:00:00		1,205.27	0.00	0.00	5.95	2.1	329.7		397.38	0.00	0.00	1.96		10.35	18.92	83.84	86.68	12-Jul-16 05:00:00		407.73	18.92	83.84	88.64
12-Jul-16 06:00:00	12-Jul-16 07:00:00		645.97	0.00	0.00	5.78	2.1	329.7		212.98	0.00	0.00	1.91		10.35	18.92	83.84	86.68	12-Jul-16 06:00:00		223.33	18.92	83.84	88.59
12-Jul-16 07:00:00	12-Jul-16 08:00:00		216.27	0.00	0.00	5.61	2.1	329.7		71.30	0.00	0.00	1.85		10.35	18.92	83.84	86.68	12-Jul-16 07:00:00		81.65	18.92	83.84	88.53
12-Jul-16 08:00:00	12-Jul-16 09:00:00		124.28	0.00	0.00	5.44	2.1	329.7		40.97	0.00	0.00	1.79		10.35	18.92	83.84	86.68	12-Jul-16 08:00:00		51.32	18.92	83.84	88.47
12-Jul-16 09:00:00	12-Jul-16 10:00:00		28.34	0.00	0.00	5.36	2.1	329.7		9.34	0.00	0.00	1.77		10.35	18.92	83.84	86.68	12-Jul-16 09:00:00		19.69	18.92	83.84	88.45
12-Jul-16 10:00:00	12-Jul-16 11:00:00		30.10	0.00	0.00	5.30	2.1	329.7		9.93	0.00	0.00	1.75		10.35	18.92	83.84	86.68	12-Jul-16 10:00:00		20.28	18.92	83.84	88.43
12-Jul-16 11:00:00	12-Jul-16 12:00:00		24.79	0.00	0.00	5.22	2.1	329.7		8.17	0.00	0.00	1.72		10.35	18.92	83.84	86.68	12-Jul-16 11:00:00		18.52	18.92	83.84	88.40
12-Jul-16 12:00:00	12-Jul-16 13:00:00		7.35	0.00	0.00	5.14	2.1	329.7		2.42	0.00	0.00	1.69		10.35	18.92	83.84	86.68	12-Jul-16 12:00:00		12.77	18.92	83.84	88.37
12-Jul-16 13:00:00	12-Jul-16 14:00:00		46.43	0.00	0.00	5.03	2.1	329.7		15.31	0.00	0.00	1.66		10.35	18.92	83.84	86.68	12-Jul-16 13:00:00		25.66	18.92	83.84	88.34
12-Jul-16 14:00:00	12-Jul-16 15:00:00		49.94	0.00	0.00	4.91	2.1	329.7		16.46	0.00	0.00	1.62		10.35	18.92	83.84	86.68	12-Jul-16 14:00:00		26.81	18.92	83.84	88.30
12-Jul-16 15:00:00	12-Jul-16 16:00:00		36.18	0.00	0.00	4.78	2.1	329.7		11.93	0.00	0.00	1.58		10.35	18.92	83.84	86.68	12-Jul-16 15:00:00		22.28	18.92	83.84	88.26
12-Jul-16 16:00:00	12-Jul-16 17:00:00		44.02	0.00	0.00	4.65	2.1	329.7		14.51	0.00	0.00	1.53		10.35	18.92	83.84	86.68	12-Jul-16 16:00:00		24.86	18.92	83.84	88.21
12-Jul-16 17:00:00	12-Jul-16 18:00:00		26.74	0.00	0.00	4.67	2.1	329.7		8.82	0.00	0.00	1.54		10.35	18.92	83.84	86.68	12-Jul-16 17:00:00		19.17	18.92	83.84	88.22
12-Jul-16 18:00:00	12-Jul-16 19:00:00		3.48	0.00	0.00	4.92	2.1	329.7		1.15	0.00	0.00	1.62		10.35	18.92	83.84	86.68	12-Jul-16 18:00:00		11.50	18.92	83.84	88.30
12-Jul-16 19:00:00	12-Jul-16 20:00:00		0.00	0.00	0.00	5.17	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	12-Jul-16 19:00:00		10.35	18.92	83.84	88.38
12-Jul-16 20:00:00	12-Jul-16 21:00:00		0.25	0.00	0.00	5.42	2.1	329.7		0.08	0.00	0.00	1.79		10.35	18.92	83.84	86.68	12-Jul-16 20:00:00		10.43	18.92	83.84	88.47
12-Jul-16 21:00:00	12-Jul-16 22:00:00		4.40	0.00	0.00	5.56	2.1	329.7		1.45	0.00	0.00	1.83		10.35	18.92	83.84	86.68	12-Jul-16 21:00:00		11.80	18.92	83.84	88.51
12-Jul-16 22:00:00	12-Jul-16 23:00:00		20.22	0.00	0.00	5.61	2.1	329.7		6.67	0.00	0.00	1.85		10.35	18.92	83.84	86.68	12-Jul-16 22:00:00		17.02	18.92	83.84	88.53
12-Jul-16 23:00:00	13-Jul-16 00:00:00		32.98	0.00	0.00	5.66	2.1	329.7		10.87	0.00	0.00	1.87		10.35	18.92	83.84	86.68	12-Jul-16 23:00:00		21.22	18.92	83.84	88.55
13-Jul-16 00:00:00	13-Jul-16 01:00:00		9.57	0.00	0.00	5.72	2.1	329.7		3.16	0.00	0.00	1.89		10.35	18.92	83.84	86.68	13-Jul-16 00:00:00		13.51	18.92	83.84	88.57
13-Jul-16 01:00:00	13-Jul-16 02:00:00		20.91	0.00	0.00	5.74	2.1	329.7		6.89	0.00	0.00	1.89		10.35	18.92	83.84	86.68	13-Jul-16 01:00:00		17.24	18.92	83.84	88.57
13-Jul-16 02:00:00	13-Jul-16 03:00:00		15.12	0.00	0.00	5.90	2.1	329.7		4.99	0.00	0.00	1.94		10.35	18.92	83.84	86.68	13-Jul-16 02:00:00		15.34	18.92	83.84	88.62
13-Jul-16 03:00:00	13-Jul-16 04:00:00		8.74	0.00	0.00	6.09	2.1	329.7		2.88	0.00	0.00	2.01		10.35	18.92	83.84	86.68	13-Jul-16 03:00:00		13.23	18.92	83.84	88.69
13-Jul-16 04:00:00	13-Jul-16 05:00:00		15.68	0.00	0.00	6.27	2.1	329.7		5.17	0.00	0.00	2.07		10.35	18.92	83.84	86.68	13-Jul-16 04:00:00		15.52	18.92	83.84	88.75
13-Jul-16 05:00:00	13-Jul-16 06:00:00		0.48	0.00	0.00	6.37	2.1	329.7		0.16	0.00	0.00	2.10		10.35	18.92	83.84	86.68	13-Jul-16 05:00:00		10.51	18.92	83.84	88.78
13-Jul-16 06:00:00	13-Jul-16 07:00:00		6.41	0.00	0.00	6.18	2.1	329.7		2.11	0.00	0.00	2.04		10.35	18.92	83.84	86.68	13-Jul-16 06:00:00		12.46	18.92	83.84	88.72
13-Jul-16 07:00:00	13-Jul-16 08:00:00		23.76	0.00	0.00	5.97	2.1	329.7		7.83	0.00	0.00	1.97		10.35	18.92	83.84	86.68	13-Jul-16 07:00:00		18.18	18.92	83.84	88.65
13-Jul-16 08:00:00	13-Jul-16 09:00:00		27.83	0.00	0.00	5.77	2.1	329.7		9.18	0.00	0.00	1.90		10.35	18.92	83.84	86.68	13-Jul-16 08:00:00		19.53	18.92	83.84	88.58
13-Jul-16 09:00:00	13-Jul-16 10:00:00		32.89	0.00	0.00	5.49	2.1	329.7		10.84	0.00	0.00	1.81		10.35	18.92	83.84	86.68	13-Jul-16 09:00:00		21.19	18.92	83.84	88.49
13-Jul-16 10:00:00	13-Jul-16 11:00:00		11.85	0.00	0.00	5.22	2.1	329.7		3.91	0.00	0.00	1.72		10.35	18.92	83.84	86.68	13-Jul-16 10:00:00		14.26	18.92	83.84	88.40
13-Jul-16 11:00:00	13-Jul-16 12:00:00		30.12	0.00	0.00	4.97	2.1	329.7		9.93	0.00	0.00	1.64		10.35	18.92	83.84	86.68	13-Jul-16 11:00:00		20.28	18.92	83.84	88.32
13-Jul-16 12:00:00	13-Jul-16 13:00:00		33.91	0.00	0.00	4.73	2.1	329.7		11.18	0.00	0.00	1.56		10.35	18.92	83.84	86.68	13-Jul-16 12:00:00		21.53	18.92	83.84	88.24
13-Jul-16 13:00:00	13-Jul-16 14:00:00		14.65	0.00	0.00	4.53	2.1	329.7		4.83	0.00	0.00	1.49		10.35	18.92	83.84	86.68	13-Jul-16 13:00:00		15.18	18.92	83.84	88.17
13-Jul-16 14:00:00	13-Jul-16 15:00:00

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
15-Jul-16 16:00:00	15-Jul-16 17:00:00		26.41	0.00	0.00	5.49	2.1	329.7		8.71	0.00	0.00	1.81		10.35	18.92	83.84	86.68	15-Jul-16 16:00:00		**19.06**	**18.92**	**83.84**	**88.49**
15-Jul-16 17:00:00	15-Jul-16 18:00:00		27.48	0.00	0.00	5.79	2.1	329.7		9.06	0.00	0.00	1.91		10.35	18.92	83.84	86.68	15-Jul-16 17:00:00		**19.41**	**18.92**	**83.84**	**88.59**
15-Jul-16 18:00:00	15-Jul-16 19:00:00		26.14	0.00	0.00	6.39	2.1	329.7		8.62	0.00	0.00	2.11		10.35	18.92	83.84	86.68	15-Jul-16 18:00:00		**18.97**	**18.92**	**83.84**	**88.79**
15-Jul-16 19:00:00	15-Jul-16 20:00:00		26.34	0.00	0.00	31.34	2.1	329.7		8.68	0.00	0.00	10.33		10.35	18.92	83.84	86.68	15-Jul-16 19:00:00		**19.03**	**18.92**	**83.84**	**97.01**
15-Jul-16 20:00:00	15-Jul-16 21:00:00		18.90	0.00	0.00	6.73	2.1	329.7		6.23	0.00	0.00	2.22		10.35	18.92	83.84	86.68	15-Jul-16 20:00:00		**16.58**	**18.92**	**83.84**	**88.90**
15-Jul-16 21:00:00	15-Jul-16 22:00:00		37.58	0.00	0.00	6.63	2.1	329.7		12.39	0.00	0.00	2.19		10.35	18.92	83.84	86.68	15-Jul-16 21:00:00		**22.74**	**18.92**	**83.84**	**88.87**
15-Jul-16 22:00:00	15-Jul-16 23:00:00		29.80	0.00	0.00	6.52	2.1	329.7		9.83	0.00	0.00	2.15		10.35	18.92	83.84	86.68	15-Jul-16 22:00:00		**20.18**	**18.92**	**83.84**	**88.83**
15-Jul-16 23:00:00	16-Jul-16 00:00:00		48.88	0.00	0.00	6.26	2.1	329.7		16.11	0.00	0.00	2.07		10.35	18.92	83.84	86.68	15-Jul-16 23:00:00		**26.46**	**18.92**	**83.84**	**88.75**
16-Jul-16 00:00:00	16-Jul-16 01:00:00		58.13	0.00	0.00	6.22	2.1	329.7		19.16	0.00	0.00	2.05		10.35	18.92	83.84	86.68	16-Jul-16 00:00:00		**29.51**	**18.92**	**83.84**	**88.73**
16-Jul-16 01:00:00	16-Jul-16 02:00:00		22.89	0.00	0.00	6.22	2.1	329.7		7.55	0.00	0.00	2.05		10.35	18.92	83.84	86.68	16-Jul-16 01:00:00		**17.90**	**18.92**	**83.84**	**88.73**
16-Jul-16 02:00:00	16-Jul-16 03:00:00		8.59	0.00	0.00	6.21	2.1	329.7		2.83	0.00	0.00	2.05		10.35	18.92	83.84	86.68	16-Jul-16 02:00:00		**13.18**	**18.92**	**83.84**	**88.73**
16-Jul-16 03:00:00	16-Jul-16 04:00:00		6.86	0.00	0.00	6.22	2.1	329.7		2.26	0.00	0.00	2.05		10.35	18.92	83.84	86.68	16-Jul-16 03:00:00		**12.61**	**18.92**	**83.84**	**88.73**
16-Jul-16 04:00:00	16-Jul-16 05:00:00		6.62	0.00	0.00	6.22	2.1	329.7		2.18	0.00	0.00	2.05		10.35	18.92	83.84	86.68	16-Jul-16 04:00:00		**12.53**	**18.92**	**83.84**	**88.73**
16-Jul-16 05:00:00	16-Jul-16 06:00:00		6.81	0.00	0.00	6.23	2.1	329.7		2.25	0.00	0.00	2.05		10.35	18.92	83.84	86.68	16-Jul-16 05:00:00		**12.60**	**18.92**	**83.84**	**88.73**
16-Jul-16 06:00:00	16-Jul-16 07:00:00		7.00	0.00	0.00	6.23	2.1	329.7		2.31	0.00	0.00	2.06		10.35	18.92	83.84	86.68	16-Jul-16 06:00:00		**12.66**	**18.92**	**83.84**	**88.74**
16-Jul-16 07:00:00	16-Jul-16 08:00:00		7.27	0.00	0.00	6.12	2.1	329.7		2.40	0.00	0.00	2.02		10.35	18.92	83.84	86.68	16-Jul-16 07:00:00		**12.75**	**18.92**	**83.84**	**88.70**
16-Jul-16 08:00:00	16-Jul-16 09:00:00		6.96	0.00	0.00	6.02	2.1	329.7		2.29	0.00	0.00	1.98		10.35	18.92	83.84	86.68	16-Jul-16 08:00:00		**12.64**	**18.92**	**83.84**	**88.66**
16-Jul-16 09:00:00	16-Jul-16 10:00:00		6.77	0.00	0.00	5.93	2.1	329.7		2.23	0.00	0.00	1.96		10.35	18.92	83.84	86.68	16-Jul-16 09:00:00		**12.58**	**18.92**	**83.84**	**88.64**
16-Jul-16 10:00:00	16-Jul-16 11:00:00		6.61	0.00	0.00	5.85	2.1	329.7		2.18	0.00	0.00	1.93		10.35	18.92	83.84	86.68	16-Jul-16 10:00:00		**12.53**	**18.92**	**83.84**	**88.61**
16-Jul-16 11:00:00	16-Jul-16 12:00:00		6.61	0.00	0.00	5.68	2.1	329.7		2.18	0.00	0.00	1.87		10.35	18.92	83.84	86.68	16-Jul-16 11:00:00		**12.53**	**18.92**	**83.84**	**88.55**
16-Jul-16 12:00:00	16-Jul-16 13:00:00		6.96	0.00	0.00	5.58	2.1	329.7		2.30	0.00	0.00	1.84		10.35	18.92	83.84	86.68	16-Jul-16 12:00:00		**12.65**	**18.92**	**83.84**	**88.52**
16-Jul-16 13:00:00	16-Jul-16 14:00:00		7.31	0.00	0.00	5.51	2.1	329.7		2.41	0.00	0.00	1.82		10.35	18.92	83.84	86.68	16-Jul-16 13:00:00		**12.76**	**18.92**	**83.84**	**88.50**
16-Jul-16 14:00:00	16-Jul-16 15:00:00		15.70	0.00	0.00	5.45	2.1	329.7		5.17	0.00	0.00	1.80		10.35	18.92	83.84	86.68	16-Jul-16 14:00:00		**15.52**	**18.92**	**83.84**	**88.48**
16-Jul-16 15:00:00	16-Jul-16 16:00:00		40.14	0.00	0.00	5.43	2.1	329.7		13.23	0.00	0.00	1.79		10.35	18.92	83.84	86.68	16-Jul-16 15:00:00		**23.58**	**18.92**	**83.84**	**88.47**
16-Jul-16 16:00:00	16-Jul-16 17:00:00		213.93	170.90	0.00	5.65	2.1	329.7		70.53	56.35	0.00	1.86		10.35	18.92	83.84	86.68	16-Jul-16 16:00:00		**80.88**	**75.27**	**83.84**	**88.54**
16-Jul-16 17:00:00	16-Jul-16 18:00:00		48.20	0.42	0.00	5.88	2.1	329.7		15.89	0.14	0.00	1.94		10.35	18.92	83.84	86.68	16-Jul-16 17:00:00		**26.24**	**19.06**	**83.84**	**88.62**
16-Jul-16 18:00:00	16-Jul-16 19:00:00		10.48	0.00	0.00	6.12	2.1	329.7		3.46	0.00	0.00	2.02		10.35	18.92	83.84	86.68	16-Jul-16 18:00:00		**13.81**	**18.92**	**83.84**	**88.70**
16-Jul-16 19:00:00	16-Jul-16 20:00:00		6.43	0.00	0.00	11.17	2.1	329.7		2.12	0.00	0.00	3.68		10.35	18.92	83.84	86.68	16-Jul-16 19:00:00		**12.47**	**18.92**	**83.84**	**90.36**
16-Jul-16 20:00:00	16-Jul-16 21:00:00		36.96	0.00	0.00	6.75	2.1	329.7		12.19	0.00	0.00	2.23		10.35	18.92	83.84	86.68	16-Jul-16 20:00:00		**22.54**	**18.92**	**83.84**	**88.91**
16-Jul-16 21:00:00	16-Jul-16 22:00:00		45.36	0.00	0.00	6.81	2.1	329.7		14.96	0.00	0.00	2.24		10.35	18.92	83.84	86.68	16-Jul-16 21:00:00		**25.31**	**18.92**	**83.84**	**88.92**
16-Jul-16 22:00:00	16-Jul-16 23:00:00		62.91	0.00	0.00	6.86	2.1	329.7		20.74	0.00	0.00	2.26		10.35	18.92	83.84	86.68	16-Jul-16 22:00:00		**31.09**	**18.92**	**83.84**	**88.94**
16-Jul-16 23:00:00	17-Jul-16 00:00:00		53.04	0.00	0.00	6.88	2.1	329.7		17.49	0.00	0.00	2.27		10.35	18.92	83.84	86.68	16-Jul-16 23:00:00		**27.84**	**18.92**	**83.84**	**88.95**
17-Jul-16 00:00:00	17-Jul-16 01:00:00		74.24	0.00	0.00	6.85	2.1	329.7		24.48	0.00	0.00	2.26		10.35	18.92	83.84	86.68	17-Jul-16 00:00:00		**34.83**	**18.92**	**83.84**	**88.94**
17-Jul-16 01:00:00	17-Jul-16 02:00:00		22.63	0.00	0.00	6.84	2.1	329.7		7.46	0.00	0.00	2.25		10.35	18.92	83.84	86.68	17-Jul-16 01:00:00		**17.81**	**18.92**	**83.84**	**88.93**
17-Jul-16 02:00:00	17-Jul-16 03:00:00		0.38	0.00	0.00	6.82	2.1	329.7		0.12	0.00	0.00	2.25		10.35	18.92	83.84	86.68	17-Jul-16 02:00:00		**10.47**	**18.92**	**83.84**	**88.93**
17-Jul-16 03:00:00	17-Jul-16 04:00:00		0.65	0.00	0.00	6.86	2.1	329.7		0.21	0.00	0.00	2.26		10.35	18.92	83.84	86.68	17-Jul-16 03:00:00		**10.56**	**18.92**	**83.84**	**88.94**
17-Jul-16 04:00:00	17-Jul-16 05:00:00		1.12	0.00	0.00	6.87	2.1	329.7		0.37	0.00	0.00	2.26		10.35	18.92	83.84	86.68	17-Jul-16 04:00:00		**10.72**	**18.92**	**83.84**	**88.94**
17-Jul-16 05:00:00	17-Jul-16 06:00:00		2.87	0.00	0.00	6.86	2.1	329.7		0.95	0.00	0.00	2.26		10.35	18.92	83.84	86.68	17-Jul-16 05:00:00		**11.30**	**18.92**	**83.84**	**88.94**
17-Jul-16 06:00:00	17-Jul-16 07:00:00		21.29	0.00	0.00	6.85	2.1	329.7		7.02	0.00	0.00	2.26		10.35	18.92	83.84	86.68	17-Jul-16 06:00:00		**17.37**	**18.92**	**83.84**	**88.94**
17-Jul-16 07:00:00	17-Jul-16 08:00:00		32.68	0.00	0.00	6.87	2.1	329.7		10.78	0.00	0.00	2.26		10.35	18.92	83.84	86.68	17-Jul-16 07:00:00		**21.13**	**18.92**	**83.84**	**88.94**
17-Jul-16 08:00:00	17-Jul-16 09:00:00		16.85	0.00	0.00	109.29	2.1	329.7		5.55	0.00	0.00	36.03		10.35	18.92	83.84	86.68	17-Jul-16 08:00:00		**15.90**	**18.92**	**83.84**	**122.71**
17-Jul-16 09:00:00	17-Jul-16 10:00:00		17.91	0.00	0.00	7.14	2.1	329.7		5.91	0.00	0.00	2.35		10.35	18.92	83.84	86.68	17-Jul-16 09:00:00		**16.26**	**18.92**	**83.84**	**89.03**
17-Jul-16 10:00:00	17-Jul-16 11:00:00		19.03	0.00	0.00	6.86	2.1	329.7		6.27	0.00	0.00	2.26		10.35	18.92	83.84	86.68	17-Jul-16 10:00:00		**16.62**	**18.92**	**83.84**	**88.94**
17-Jul-16 11:00:00	17-Jul-16 12:00:00		26.71	0.00	0.00	6.58	2.1	329.7		8.81	0.00	0.00	2.17		10.35	18.92	83.84	86.68	17-Jul-16 11:00:00		**19.16**	**18.92**	**83.84**	**88.85**
17-Jul-16 12:00:00	17-Jul-16 13:00:00		12.25	0.00	0.00	6.30	2.1	329.7		4.04	0.00	0.00	2.08		10.35	18.92	83.84	86.68	17-Jul-16 12:00:00		**14.39**	**18.92**	**83.84**	**88.76**
17-Jul-16 13:00:00	17-Jul-16 14:00:00		28.23	0.00	0.00	6.09	2.1	329.7		9.31	0.00	0.00	2.01		10.35	18.92	83.84	86.68	17-Jul-16 13:00:00		**19.66**	**18.92**	**83.84**	**88.69**
17-Jul-16 14:00:00	17-Jul-16 15:00:00		30.42	0.00	0.00	5.92	2.1	329.7		10.03	0.00	0.00	1.95		10.35	18.92	83.84	86.68	17-Jul-16 14:00:00		**20.38**	**18.92**	**83.84**	**88.63**
17-Jul-16 15:00:00	17-Jul-16 16:00:00		33.40	0.00	0.00	5.74	2.1	329.7		11.01	0.00	0.00	1.89		10.35	18.92	83.84	86.68	17-Jul-16 15:00:00		**21.36**	**18.92**	**83.84**	**88.57**
17-Jul-16 16:00:00	17-Jul-16 17:00:00		20.49	0.00	0.00	5.51	2.1	329.7		6.76	0.00	0.00	1.82		10.35	18.92	83.84	86.68	17-Jul-16 16:00:00		**17.11**	**18.92**	**83.84**	**88.50**
17-Jul-16 17:00:00	17-Jul-16 18:00:00		16.37	0.00	0.00	5.38	2.1	329.7		5.40	0.00	0.00	1.77		10.35	18.92	83.84	86.68	17-Jul-16 17:00:00		**15.75**	**18.92**	**83.84**	**88.45**
17-Jul-16 18:00:00	17-Jul-16 19:00:00		0.01	0.00	0.00	5.65	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	17-Jul-16 18:00:00		**10.35**	**18.92**	**83.84**	**88.54**
17-Jul-16 19:00:00	17-Jul-16 20:00:00		0.00	0.00	0.00	5.91	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	17-Jul-16 19:00:00		**10.35**	**18.92**	**83.84**	**88.63**
17-Jul-16 20:00:00	17-Jul-16 21:00:00		9.90	0.00	0.00	6.17	2.1	329.7		3.26	0.00	0.00	2.03		10.35	18.92	83.84	86.68	17-Jul-16 20:00:00		**13.61**	**18.92**	**83.84**	**88.71**
17-Jul-16 21:00:00	17-Jul-16 22:00:00		42.54	0.00	0.00	6.31	2.1	329.7		14.03	0.00	0.00	2.08		10.35	18.92	83.84	86.68	17-Jul-16 21:00:00		**24.38**	**18.92**	**83.84**	**88.76**
17-Jul-16 22:00:00	17-Jul-16 23:00:00		14.26	0.00	0.00	6.45	2.1	329.7		4.70	0.00	0.00	2.13		10.35	18.92	83.84	86.68	17-Jul-16 22:00:00		**15.05**	**18.92**	**83.84**	**88.81**
17-Jul-16 23:00:00	18-Jul-16 00:00:00		31.04	0.00	0.00	6.59	2.1	329.7		10.23	0.00	0.00	2.17		10.35	18.92	83.84	86.68	17-Jul-16 23:00:00		**20.58**	**18.92**	**83.84**	**88.85**
18-Jul-16 00:00:00	18-Jul-16 01:00:00		24.37	0.00	0.00	6.74	2.1	329.7		8.03	0.00	0.00	2.22		10.35	18.92	83.84	86.68	18-Jul-16 00:00:00		**18.38**	**18.92**	**83.84**	**88.90**
18-Jul-16 01:00:00	18-Jul-16 02:00:00		36.37	0.00	0.00	6.86	2.1	329.7		11.99	0.00	0.00	2.26		10.35	18.92	83.84	86.68	18-Jul-16 01:00:00		**22.34**	**18.92**	**83.84**	**88.94**
18-Jul-16 02:00:00	18-Jul-16 03:00:00		29.53	0.00	0.00	6.83	2.1	329.7		9.74	0.00	0.00	2.25		10.35	18.92	83.84	86.68	18-Jul-16 02:00:00		**20.09**	**18.92**	**83.84**	**88.93**
18-Jul-16 03:00:00	18-Jul-16 04:00:00		40.86	0.00	0.00	6.81	2.1	329.7		13.47	0.00	0.00	2.24		10.35	18.92	83.84	86.68	18-Jul-16 03:00:00		**23.82**	**18.92**	**83.84**	**88.92**
18-Jul-16 04:00:00	18-Jul-16 05:00:00		23.58	0.00	0.00	6.80	2.1	329.7		7.78	0.00	0.00	2.24		10.35	18.92	83.84	86.68	18-Jul-16 04:00:00		**18.13**	**18.92**	**83.84**	**88.92**
18-Jul-16 05:00:00	18-Jul-16 06:00:00		25.39	0.00	0.00	6.85	2.1	329.7		8.37	0.00	0.00	2.26		10.35	18.92	83.84	86.68	18-Jul-16 05:00:00		**18.72**	**18.92**	**83.84**	**88.94**
18-Jul-16 06:00:00	18-Jul-16 07:00:00		14.24	0.00	0.00	6.84	2.1	329.7		4.70	0.00	0.00	2.26		10.35	18.92	83.84	86.68	18-Jul-16 06:00:00		**15.05**	**18.92**	**83.84**	**88.94**
18-Jul-16 07:00:00	18-Jul-16 08:00:00		32.44	0.00	0.00	6.84	2.1	329.7		10.70	0.00	0.00	2.26		10.35	18.92	83.84	86.68	18-Jul-16 07:00:00		**21.05**	**18.92**	**83.84**	**88.94**
18-Jul-16 08:00:00	18-Jul-16 09:00:00		22.11	0.00	0.00	6.83	2.1	329.7		7.29	0.00	0.00	2.25		10.35	18.92	83.84	86.68	18-Jul-16 08:00:00		**17.64**	**18.92**	**83.84**	**88.93**
18-Jul-16 09:00:00	18-Jul-16 10:00:00		57.63	0.00	0.00	6.60	2.1	329.7		19.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	18-Jul-16 09:00:00		**29.35**	**18.92**	**83.84**	**88.86**
18-Jul-16 10:00:00	18-Jul-16 11:00:00		49.59	0.00	0.00	6.32	2.1	329.7		16.35	0.00	0.00	2.08		10.35	18.92	83.84	86.68	18-Jul-16 10:00:00		**26.70**	**18.92**	**83.84**	**88.76**
18-Jul-16 11:00:00	18-Jul-16 12:00:00		14.14	0.00	0.00	6.04	2.1	329.7		4.66	0.00	0.00	1.99		10.35	18.92	83.84	86.68	18-Jul-16 11:00:00		**15.01**	**18.92**	**83.84**	**88.67**
18-Jul-16 12:00:00	18-Jul-16 13:00:00		33.07	0.00	0.00	5.76	2.1	329.7		10.90	0.00	0.00	1.90		10.35	18.92	83.84	86.68	18-Jul-16 12:00:00		**21.25**	**18.92**	**83.84**	**88.58**
18-Jul-16 13:00:00	18-Jul-16 14:00:00		25.71	0.00	0.00	5.71	2.1	329.7		8.48	0.00	0.00	1.88		10.35	18.92	83.84	86.68	18-Jul-16 13:00:00		**18.83**	**18.92**	**83.84**	**88.56**
18-Jul-16 14:00:00	18-Jul-16 15:00:00		44.14	0.00	0.00	5.81	2.1	329.7		14.55	0.00	0.00	1.91		10.35	18.92	83.84	86.68	18-Jul-16 14:00:00		**24.90**	**18.92**	**83.84**	**88.59**
18-Jul-16 15:00:00	18-Jul-16 16:00:00		14.13	0.00	0.00	5.91	2.1	329.7		4.66	0.00	0.00	1.95		10.35	18.92	83.84	86.68	18-Jul-16 15:00:00		**15.01**	**18.92**	**83.84**	**88.63**
18-Jul-16 16:00:00	18-Jul-16 17:00:00		27.18	0.00	0.00	6.00	2.1	329.7		8.96	0.00	0.00	1.98		10.35	18.92	83.84	86.68	18-Jul-16 16:00:00		**19.31**	**18.92**	**83.84**	**88.66**
18-Jul-16 17:00:00	18-Jul-16 18:00:00		58.40	0.00	0.00	5.95	2.1	329.7		19.25	0.00	0.00	1.96		10.35	18.92	83.84	86.68	18-Jul-16 17:00:00		**29.60**	**18.92**	**83.84**	**88.64**
18-Jul-16 18:00:00	18-Jul-16 19:00:00		15.91	0.00	0.00	5.87	2.1	329.7		5.25	0.00	0.00	1.93		10.35	18.92	83.84	86.68	18-Jul-16 18:00:00		**15.60**	**18.92**	**83.84**	**88.61**
18-Jul-16 19:00:00	18-Jul-16 20:00:00		29.16	0.00	0.00	5.79	2.1	329.7		9.61	0.00	0.00	1.91		10.35	18.92	83.84	86.68	18-Jul-16 19:00:00		**19.96**	**18.92**	**83.84**	**88.59**
18-Jul-16 20:00:00	18-Jul-16 21:00:00		31.13	0.00	0.00	5.70	2.1	329.7		10.26	0.00	0.00	1.88		10.35	18.92	83.84	86.68	18-Jul-16 20:00:00		**20.61**	**18.92**	**83.84**	**88.56**
18-Jul-16 21:00:00	18-Jul-16 22:00:00		14.02	0.00	0.00	5.82	2.1	329.7		4.62	0.00	0.00	1.92		10.35	18.92	83.84	86.68	18-Jul-16 21:00:00		**14.97**	**18.92**	**83.84**	**88.60**
18-Jul-16 22:00:00	18-Jul-16 23:00:00		6.10	0.00	0.00	6.12	2.1	329.7		2.01	0.00	0.00	2.02		10.35	18.92	83.84	86.68	18-Jul-16 22:00:00		**12.36**	**18.92**	**83.84**	**88.70**
18-Jul-16 23:00:00	19-Jul-16 00:00:00		24.94	0.00	0.00	6.41	2.1	329.7		8.22	0.00	0.00	2.11		10.35	18.92	83.84	86.68	18-Jul-16 23:00:00		**18.57**	**18.92**	**83.84**	**88.79**
19-Jul-16 00:00:00	19-Jul-16 01:00:00		11.26	0.00	0.00	6.70	2.1	329.7		3.71	0.00	0.00	2.21		10.35	18.92	83.84	86.68	19-Jul-16 00:00:00		**14.06**	**18.92**	**83.84**	**88.89**
19-Jul-16 01:00:00	19-Jul-16 02:00:00		30.24	0.00	0.00	6.78	2.1	329.7		9.97	0.00	0.00	2.23		10.35	18.92	83.84	86.68	19-Jul-16 01:00:00		**20.32**	**18.92**	**83.84**	**88.91**
19-Jul-16 02:00:00	19-Jul-16 03:00:00		12.98	0.00	0.00	6.83	2.1	329.7		4.28	0.00	0.00	2.25		10.35	18.92	83.84	86.68	19-Jul-16 02:00:00		**14.63**	**18.92**	**83.84**	**88.93**
19-Jul-16 03:00:00	19-Jul-16 04:00:00		23.79	0.00	0.00	6.89	2.1	329.7		7.84	0.00	0.00	2.27		10.35	18.92	83.84	86.68	19-Jul-16 03:00:00		**18.19**	**18.92**	**83.84**	**88.95**
19-Jul-16 04:00:00	19-Jul-16 05:00:00		41.21	0.00	0.00	6.93	2.1	329.7		13.59	0.00	0.00	2.29		10.35	18.92	83.84	86.68	19-Jul-16 04:00:00		**23.94**	**18.92**	**83.84**	**88.97**
19-Jul-16 05:00:00	19-Jul-16 06:00:00		35.21	0.00	0.00	6.78	2.1	329.7		11.61	0.00	0.00	2.24		10.35	18.92	83.84	86.68	19-Jul-16 05:00:00		**21.96**	**18.92**	**83.84**	**88.92**
19-Jul-16 06:00:00	19-Jul-16 07:00:00		18.01	0.00	0.00	6.77	2.1	329.7		5.94	0.00	0.00	2.23		10.35	18.92	83.84	86.68	19-Jul-16 06:00:00		**16.29**	**18.92**	**83.84**	**88.91**
19-Jul-16 07:00:00	19-Jul-16 08:00:00		14.94	0.00	0.00	6.77	2.1	329.7		4.93	0.00	0.00	2.23		10.35	18.92	83.84	86.68	19-Jul-16 07:00:00		**15.28**	**18.92**	**83.84**	**88.91**
19-Jul-16 08:00:00	19-Jul-16 09:00:00		16.11	0.00	0.00	6.76	2.1	329.7		5.31	0.00	0.00	2.23		10.35	18.92	83.84	86.68	19-Jul-16 08:00:00		**15.66**	**18.92**	**83.84**	**88.91**
19-Jul-16 09:00:00	19-Jul-16 10:00:00		16.64	0.00	0.00	6.63	2.1	329.7		5.49	0.00	0.00	2.18		10.35	18.92	83.84	86.68	19-Jul-16 09:00:00		**15.84**	**18.92**	**83.84**	**88.86**
19-Jul-16 10:00:00	19-Jul-16 11:00:00		16.58	0.00	0.00	6.36	2.1	329.7		5.47	0.00	0.00	2.10		10.35	18.92	83.84	86.68	19-Jul-16 10:00:00		**15.82**	**18.92**	**83.84**	**88.78**
19-Jul-16 11:00:00	19-Jul-16 12:00:00		21.78	0.00	0.00	6.10	2.1	329.7		7.18	0.00	0.00	2.01		10.35	18.92	83.84	86.68	19-Jul-16 11:00:00		**17.53**	**18.92**	**83.84**	**88.69**
19-Jul-16 12:00:00	19-Jul-16 13:00:00		15.03	0.00	0.00	5.83	2.1	329.7		4.96	0.00	0.00	1.92		10.35	18.92	83.84	86.68	19-Jul-16 12:00:00		**15.31**	**18.92**	**83.84**	**88.60**
19-Jul-16 13:00:00	19-Jul-16 14:00:00		28.22	0.00	0.00	5.63

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
21-Jul-16 15:00:00	21-Jul-16 16:00:00		30.79	0.00	0.00	5.85	2.1	329.7		10.15	0.00	0.00	1.93		10.35	18.92	83.84	86.68	21-Jul-16 15:00:00		20.50	18.92	83.84	88.61
21-Jul-16 16:00:00	21-Jul-16 17:00:00		33.14	0.00	0.00	5.78	2.1	329.7		10.93	0.00	0.00	1.91		10.35	18.92	83.84	86.68	21-Jul-16 16:00:00		21.28	18.92	83.84	88.59
21-Jul-16 17:00:00	21-Jul-16 18:00:00		38.05	0.00	0.00	5.71	2.1	329.7		12.54	0.00	0.00	1.88		10.35	18.92	83.84	86.68	21-Jul-16 17:00:00		22.89	18.92	83.84	88.56
21-Jul-16 18:00:00	21-Jul-16 19:00:00		38.14	0.00	0.00	5.85	2.1	329.7		12.57	0.00	0.00	1.93		10.35	18.92	83.84	86.68	21-Jul-16 18:00:00		22.92	18.92	83.84	88.61
21-Jul-16 19:00:00	21-Jul-16 20:00:00		36.70	0.00	0.00	5.99	2.1	329.7		12.10	0.00	0.00	1.97		10.35	18.92	83.84	86.68	21-Jul-16 19:00:00		22.45	18.92	83.84	88.65
21-Jul-16 20:00:00	21-Jul-16 21:00:00		39.28	0.00	0.00	6.13	2.1	329.7		12.95	0.00	0.00	2.02		10.35	18.92	83.84	86.68	21-Jul-16 20:00:00		23.30	18.92	83.84	88.70
21-Jul-16 21:00:00	21-Jul-16 22:00:00		25.90	0.00	0.00	6.28	2.1	329.7		8.54	0.00	0.00	2.07		10.35	18.92	83.84	86.68	21-Jul-16 21:00:00		18.89	18.92	83.84	88.75
21-Jul-16 22:00:00	21-Jul-16 23:00:00		21.64	0.00	0.00	6.42	2.1	329.7		7.14	0.00	0.00	2.12		10.35	18.92	83.84	86.68	21-Jul-16 22:00:00		17.49	18.92	83.84	88.80
21-Jul-16 23:00:00	22-Jul-16 00:00:00		13.12	0.00	0.00	6.56	2.1	329.7		4.32	0.00	0.00	2.16		10.35	18.92	83.84	86.68	21-Jul-16 23:00:00		14.67	18.92	83.84	88.84
22-Jul-16 00:00:00	22-Jul-16 01:00:00		40.09	0.00	0.00	6.69	2.1	329.7		13.22	0.00	0.00	2.21		10.35	18.92	83.84	86.68	22-Jul-16 00:00:00		23.57	18.92	83.84	88.89
22-Jul-16 01:00:00	22-Jul-16 02:00:00		33.10	0.00	0.00	6.82	2.1	329.7		10.91	0.00	0.00	2.25		10.35	18.92	83.84	86.68	22-Jul-16 01:00:00		21.26	18.92	83.84	88.93
22-Jul-16 02:00:00	22-Jul-16 03:00:00		34.07	0.00	0.00	6.92	2.1	329.7		11.23	0.00	0.00	2.28		10.35	18.92	83.84	86.68	22-Jul-16 02:00:00		21.58	18.92	83.84	88.96
22-Jul-16 03:00:00	22-Jul-16 04:00:00		35.32	0.00	0.00	7.02	2.1	329.7		11.64	0.00	0.00	2.31		10.35	18.92	83.84	86.68	22-Jul-16 03:00:00		21.99	18.92	83.84	88.99
22-Jul-16 04:00:00	22-Jul-16 05:00:00		36.35	0.00	0.00	7.11	2.1	329.7		11.99	0.00	0.00	2.35		10.35	18.92	83.84	86.68	22-Jul-16 04:00:00		22.34	18.92	83.84	89.03
22-Jul-16 05:00:00	22-Jul-16 06:00:00		34.72	0.00	0.00	6.98	2.1	329.7		11.45	0.00	0.00	2.30		10.35	18.92	83.84	86.68	22-Jul-16 05:00:00		21.80	18.92	83.84	88.98
22-Jul-16 06:00:00	22-Jul-16 07:00:00		34.34	0.00	0.00	6.97	2.1	329.7		11.32	0.00	0.00	2.30		10.35	18.92	83.84	86.68	22-Jul-16 06:00:00		21.67	18.92	83.84	88.98
22-Jul-16 07:00:00	22-Jul-16 08:00:00		34.25	0.00	0.00	6.99	2.1	329.7		11.29	0.00	0.00	2.31		10.35	18.92	83.84	86.68	22-Jul-16 07:00:00		21.64	18.92	83.84	88.99
22-Jul-16 08:00:00	22-Jul-16 09:00:00		32.17	0.00	0.00	7.01	2.1	329.7		10.61	0.00	0.00	2.31		10.35	18.92	83.84	86.68	22-Jul-16 08:00:00		20.96	18.92	83.84	88.99
22-Jul-16 09:00:00	22-Jul-16 10:00:00		31.00	0.00	0.00	6.97	2.1	329.7		10.22	0.00	0.00	2.30		10.35	18.92	83.84	86.68	22-Jul-16 09:00:00		20.57	18.92	83.84	88.98
22-Jul-16 10:00:00	22-Jul-16 11:00:00		34.31	0.00	0.00	6.69	2.1	329.7		11.31	0.00	0.00	2.20		10.35	18.92	83.84	86.68	22-Jul-16 10:00:00		21.66	18.92	83.84	88.88
22-Jul-16 11:00:00	22-Jul-16 12:00:00		20.16	0.00	0.00	6.40	2.1	329.7		6.65	0.00	0.00	2.11		10.35	18.92	83.84	86.68	22-Jul-16 11:00:00		17.00	18.92	83.84	88.79
22-Jul-16 12:00:00	22-Jul-16 13:00:00		25.46	0.00	0.00	6.11	2.1	329.7		8.40	0.00	0.00	2.01		10.35	18.92	83.84	86.68	22-Jul-16 12:00:00		18.75	18.92	83.84	88.69
22-Jul-16 13:00:00	22-Jul-16 14:00:00		25.54	0.00	0.00	5.94	2.1	329.7		8.42	0.00	0.00	1.96		10.35	18.92	83.84	86.68	22-Jul-16 13:00:00		18.77	18.92	83.84	88.64
22-Jul-16 14:00:00	22-Jul-16 15:00:00		20.54	0.00	0.00	5.86	2.1	329.7		6.77	0.00	0.00	1.93		10.35	18.92	83.84	86.68	22-Jul-16 14:00:00		17.12	18.92	83.84	88.61
22-Jul-16 15:00:00	22-Jul-16 16:00:00		18.03	0.00	0.00	5.78	2.1	329.7		5.94	0.00	0.00	1.91		10.35	18.92	83.84	86.68	22-Jul-16 15:00:00		16.29	18.92	83.84	88.59
22-Jul-16 16:00:00	22-Jul-16 17:00:00		0.06	0.00	0.00	5.70	2.1	329.7		0.02	0.00	0.00	1.88		10.35	18.92	83.84	86.68	22-Jul-16 16:00:00		10.37	18.92	83.84	88.56
22-Jul-16 17:00:00	22-Jul-16 18:00:00		0.00	0.00	0.00	5.70	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	22-Jul-16 17:00:00		10.35	18.92	83.84	88.56
22-Jul-16 18:00:00	22-Jul-16 19:00:00		0.00	0.00	0.00	5.84	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	22-Jul-16 18:00:00		10.35	18.92	83.84	88.61
22-Jul-16 19:00:00	22-Jul-16 20:00:00		0.00	0.00	0.00	5.99	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	22-Jul-16 19:00:00		10.35	18.92	83.84	88.65
22-Jul-16 20:00:00	22-Jul-16 21:00:00		0.00	0.00	0.00	6.13	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	22-Jul-16 20:00:00		10.35	18.92	83.84	88.70
22-Jul-16 21:00:00	22-Jul-16 22:00:00		2.80	0.00	0.00	6.26	2.1	329.7		0.92	0.00	0.00	2.06		10.35	18.92	83.84	86.68	22-Jul-16 21:00:00		11.27	18.92	83.84	88.74
22-Jul-16 22:00:00	22-Jul-16 23:00:00		13.02	0.00	0.00	6.40	2.1	329.7		4.29	0.00	0.00	2.11		10.35	18.92	83.84	86.68	22-Jul-16 22:00:00		14.64	18.92	83.84	88.79
22-Jul-16 23:00:00	23-Jul-16 00:00:00		28.27	0.00	0.00	6.54	2.1	329.7		9.32	0.00	0.00	2.16		10.35	18.92	83.84	86.68	22-Jul-16 23:00:00		19.67	18.92	83.84	88.84
23-Jul-16 00:00:00	23-Jul-16 01:00:00		27.45	0.00	0.00	6.69	2.1	329.7		9.05	0.00	0.00	2.20		10.35	18.92	83.84	86.68	23-Jul-16 00:00:00		19.40	18.92	83.84	88.88
23-Jul-16 01:00:00	23-Jul-16 02:00:00		26.11	0.00	0.00	6.81	2.1	329.7		8.61	0.00	0.00	2.25		10.35	18.92	83.84	86.68	23-Jul-16 01:00:00		18.96	18.92	83.84	88.93
23-Jul-16 02:00:00	23-Jul-16 03:00:00		23.63	0.00	0.00	6.81	2.1	329.7		7.79	0.00	0.00	2.25		10.35	18.92	83.84	86.68	23-Jul-16 02:00:00		18.14	18.92	83.84	88.93
23-Jul-16 03:00:00	23-Jul-16 04:00:00		18.99	0.00	0.00	6.80	2.1	329.7		6.26	0.00	0.00	2.24		10.35	18.92	83.84	86.68	23-Jul-16 03:00:00		16.61	18.92	83.84	88.92
23-Jul-16 04:00:00	23-Jul-16 05:00:00		22.77	0.00	0.00	6.79	2.1	329.7		7.51	0.00	0.00	2.24		10.35	18.92	83.84	86.68	23-Jul-16 04:00:00		17.86	18.92	83.84	88.92
23-Jul-16 05:00:00	23-Jul-16 06:00:00		20.71	0.00	0.00	6.74	2.1	329.7		6.83	0.00	0.00	2.22		10.35	18.92	83.84	86.68	23-Jul-16 05:00:00		17.18	18.92	83.84	88.90
23-Jul-16 06:00:00	23-Jul-16 07:00:00		47.23	0.00	0.00	6.61	2.1	329.7		15.57	0.00	0.00	2.18		10.35	18.92	83.84	86.68	23-Jul-16 06:00:00		25.92	18.92	83.84	88.86
23-Jul-16 07:00:00	23-Jul-16 08:00:00		43.52	0.00	0.00	6.49	2.1	329.7		14.35	0.00	0.00	2.14		10.35	18.92	83.84	86.68	23-Jul-16 07:00:00		24.70	18.92	83.84	88.82
23-Jul-16 08:00:00	23-Jul-16 09:00:00		33.47	0.00	0.00	6.37	2.1	329.7		11.03	0.00	0.00	2.10		10.35	18.92	83.84	86.68	23-Jul-16 08:00:00		21.38	18.92	83.84	88.78
23-Jul-16 09:00:00	23-Jul-16 10:00:00		33.10	0.00	0.00	6.34	2.1	329.7		10.91	0.00	0.00	2.09		10.35	18.92	83.84	86.68	23-Jul-16 09:00:00		21.26	18.92	83.84	88.77
23-Jul-16 10:00:00	23-Jul-16 11:00:00		20.29	0.00	0.00	6.14	2.1	329.7		6.69	0.00	0.00	2.02		10.35	18.92	83.84	86.68	23-Jul-16 10:00:00		17.04	18.92	83.84	88.70
23-Jul-16 11:00:00	23-Jul-16 12:00:00		17.20	0.00	0.00	5.91	2.1	329.7		5.67	0.00	0.00	1.95		10.35	18.92	83.84	86.68	23-Jul-16 11:00:00		16.02	18.92	83.84	88.63
23-Jul-16 12:00:00	23-Jul-16 13:00:00		23.90	0.00	0.00	5.68	2.1	329.7		7.88	0.00	0.00	1.87		10.35	18.92	83.84	86.68	23-Jul-16 12:00:00		18.23	18.92	83.84	88.55
23-Jul-16 13:00:00	23-Jul-16 14:00:00		32.95	0.00	0.00	5.44	2.1	329.7		10.86	0.00	0.00	1.79		10.35	18.92	83.84	86.68	23-Jul-16 13:00:00		21.21	18.92	83.84	88.47
23-Jul-16 14:00:00	23-Jul-16 15:00:00		0.00	0.00	0.00	5.48	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	23-Jul-16 14:00:00		10.35	18.92	83.84	88.49
23-Jul-16 15:00:00	23-Jul-16 16:00:00		0.00	0.00	0.00	5.54	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	23-Jul-16 15:00:00		10.35	18.92	83.84	88.51
23-Jul-16 16:00:00	23-Jul-16 17:00:00		0.00	0.00	0.00	5.60	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	23-Jul-16 16:00:00		10.35	18.92	83.84	88.53
23-Jul-16 17:00:00	23-Jul-16 18:00:00		0.00	0.00	0.00	5.75	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	23-Jul-16 17:00:00		10.35	18.92	83.84	88.57
23-Jul-16 18:00:00	23-Jul-16 19:00:00		0.00	0.00	0.00	5.85	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	23-Jul-16 18:00:00		10.35	18.92	83.84	88.61
23-Jul-16 19:00:00	23-Jul-16 20:00:00		0.00	0.00	0.00	5.94	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	23-Jul-16 19:00:00		10.35	18.92	83.84	88.64
23-Jul-16 20:00:00	23-Jul-16 21:00:00		11.46	0.00	0.00	6.03	2.1	329.7		3.78	0.00	0.00	1.99		10.35	18.92	83.84	86.68	23-Jul-16 20:00:00		14.13	18.92	83.84	88.67
23-Jul-16 21:00:00	23-Jul-16 22:00:00		12.16	0.00	0.00	6.17	2.1	329.7		4.01	0.00	0.00	2.04		10.35	18.92	83.84	86.68	23-Jul-16 21:00:00		14.36	18.92	83.84	88.72
23-Jul-16 22:00:00	23-Jul-16 23:00:00		34.62	0.00	0.00	6.34	2.1	329.7		11.41	0.00	0.00	2.09		10.35	18.92	83.84	86.68	23-Jul-16 22:00:00		21.76	18.92	83.84	88.77
23-Jul-16 23:00:00	24-Jul-16 00:00:00		29.10	0.00	0.00	6.51	2.1	329.7		9.59	0.00	0.00	2.14		10.35	18.92	83.84	86.68	23-Jul-16 23:00:00		19.94	18.92	83.84	88.82
24-Jul-16 00:00:00	24-Jul-16 01:00:00		22.47	0.00	0.00	6.67	2.1	329.7		7.41	0.00	0.00	2.20		10.35	18.92	83.84	86.68	24-Jul-16 00:00:00		17.76	18.92	83.84	88.88
24-Jul-16 01:00:00	24-Jul-16 02:00:00		11.54	0.00	0.00	6.77	2.1	329.7		3.80	0.00	0.00	2.23		10.35	18.92	83.84	86.68	24-Jul-16 01:00:00		14.15	18.92	83.84	88.91
24-Jul-16 02:00:00	24-Jul-16 03:00:00		14.58	0.00	0.00	6.76	2.1	329.7		4.81	0.00	0.00	2.23		10.35	18.92	83.84	86.68	24-Jul-16 02:00:00		15.16	18.92	83.84	88.91
24-Jul-16 03:00:00	24-Jul-16 04:00:00		22.44	0.00	0.00	6.74	2.1	329.7		7.40	0.00	0.00	2.22		10.35	18.92	83.84	86.68	24-Jul-16 03:00:00		17.75	18.92	83.84	88.90
24-Jul-16 04:00:00	24-Jul-16 05:00:00		23.85	0.00	0.00	6.73	2.1	329.7		7.86	0.00	0.00	2.22		10.35	18.92	83.84	86.68	24-Jul-16 04:00:00		18.21	18.92	83.84	88.90
24-Jul-16 05:00:00	24-Jul-16 06:00:00		51.78	0.00	0.00	6.72	2.1	329.7		17.07	0.00	0.00	2.22		10.35	18.92	83.84	86.68	24-Jul-16 05:00:00		27.42	18.92	83.84	88.90
24-Jul-16 06:00:00	24-Jul-16 07:00:00		63.81	0.00	0.00	6.61	2.1	329.7		21.04	0.00	0.00	2.18		10.35	18.92	83.84	86.68	24-Jul-16 06:00:00		31.39	18.92	83.84	88.86
24-Jul-16 07:00:00	24-Jul-16 08:00:00		24.75	0.00	0.00	6.48	2.1	329.7		8.16	0.00	0.00	2.13		10.35	18.92	83.84	86.68	24-Jul-16 07:00:00		18.51	18.92	83.84	88.81
24-Jul-16 08:00:00	24-Jul-16 09:00:00		26.00	0.00	0.00	6.34	2.1	329.7		8.57	0.00	0.00	2.09		10.35	18.92	83.84	86.68	24-Jul-16 08:00:00		18.92	18.92	83.84	88.77
24-Jul-16 09:00:00	24-Jul-16 10:00:00		24.52	0.00	0.00	6.18	2.1	329.7		8.08	0.00	0.00	2.04		10.35	18.92	83.84	86.68	24-Jul-16 09:00:00		18.43	18.92	83.84	88.72
24-Jul-16 10:00:00	24-Jul-16 11:00:00		14.80	0.00	0.00	6.03	2.1	329.7		4.88	0.00	0.00	1.99		10.35	18.92	83.84	86.68	24-Jul-16 10:00:00		15.23	18.92	83.84	88.67
24-Jul-16 11:00:00	24-Jul-16 12:00:00		23.01	0.00	0.00	5.89	2.1	329.7		7.59	0.00	0.00	1.94		10.35	18.92	83.84	86.68	24-Jul-16 11:00:00		17.94	18.92	83.84	88.62
24-Jul-16 12:00:00	24-Jul-16 13:00:00		13.15	0.00	0.00	5.75	2.1	329.7		4.33	0.00	0.00	1.90		10.35	18.92	83.84	86.68	24-Jul-16 12:00:00		14.68	18.92	83.84	88.58
24-Jul-16 13:00:00	24-Jul-16 14:00:00		19.64	0.00	0.00	5.62	2.1	329.7		6.48	0.00	0.00	1.85		10.35	18.92	83.84	86.68	24-Jul-16 13:00:00		16.83	18.92	83.84	88.53
24-Jul-16 14:00:00	24-Jul-16 15:00:00		20.66	0.00	0.00	5.50	2.1	329.7		6.81	0.00	0.00	1.81		10.35	18.92	83.84	86.68	24-Jul-16 14:00:00		17.16	18.92	83.84	88.49
24-Jul-16 15:00:00	24-Jul-16 16:00:00		19.72	0.00	0.00	5.37	2.1	329.7		6.50	0.00	0.00	1.77		10.35	18.92	83.84	86.68	24-Jul-16 15:00:00		16.85	18.92	83.84	88.45
24-Jul-16 16:00:00	24-Jul-16 17:00:00		16.78	0.00	0.00	5.25	2.1	329.7		5.53	0.00	0.00	1.73		10.35	18.92	83.84	86.68	24-Jul-16 16:00:00		15.88	18.92	83.84	88.41
24-Jul-16 17:00:00	24-Jul-16 18:00:00		15.94	0.00	0.00	5.29	2.1	329.7		5.26	0.00	0.00	1.75		10.35	18.92	83.84	86.68	24-Jul-16 17:00:00		15.61	18.92	83.84	88.43
24-Jul-16 18:00:00	24-Jul-16 19:00:00		10.10	0.00	0.00	5.42	2.1	329.7		3.33	0.00	0.00	1.79		10.35	18.92	83.84	86.68	24-Jul-16 18:00:00		13.68	18.92	83.84	88.47
24-Jul-16 19:00:00	24-Jul-16 20:00:00		5.82	0.00	0.00	5.52	2.1	329.7		1.92	0.00	0.00	1.82		10.35	18.92	83.84	86.68	24-Jul-16 19:00:00		12.27	18.92	83.84	88.50
24-Jul-16 20:00:00	24-Jul-16 21:00:00		0.00	0.00	0.00	5.63	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	24-Jul-16 20:00:00		10.35	18.92	83.84	88.54
24-Jul-16 21:00:00	24-Jul-16 22:00:00		3.50	0.00	0.00	5.73	2.1	329.7		1.15	0.00	0.00	1.89		10.35	18.92	83.84	86.68	24-Jul-16 21:00:00		11.50	18.92	83.84	88.57
24-Jul-16 22:00:00	24-Jul-16 23:00:00		6.61	0.00	0.00	5.86	2.1	329.7		2.18	0.00	0.00	1.93		10.35	18.92	83.84	86.68	24-Jul-16 22:00:00		12.53	18.92	83.84	88.61
24-Jul-16 23:00:00	25-Jul-16 00:00:00		31.23	0.00	0.00	6.00	2.1	329.7		10.30	0.00	0.00	1.98		10.35	18.92	83.84	86.68	24-Jul-16 23:00:00		20.65	18.92	83.84	88.66
25-Jul-16 00:00:00	25-Jul-16 01:00:00		18.16	0.00	0.00	6.14	2.1	329.7		5.99	0.00	0.00	2.02		10.35	18.92	83.84	86.68	25-Jul-16 00:00:00		16.34	18.92	83.84	88.70
25-Jul-16 01:00:00	25-Jul-16 02:00:00		23.23	0.00	0.00	6.31	2.1	329.7		7.66	0.00	0.00	2.08		10.35	18.92	83.84	86.68	25-Jul-16 01:00:00		18.01	18.92	83.84	88.76
25-Jul-16 02:00:00	25-Jul-16 03:00:00		320.45	70.90	0.00	6.43	2.1	329.7		105.65	23.38	0.00	2.12		10.35	18.92	83.84	86.68	25-Jul-16 02:00:00		116.00	42.30	83.84	88.80
25-Jul-16 03:00:00	25-Jul-16 04:00:00		558.49	0.00	0.00	6.52	2.1	329.7		184.13	0.00	0.00	2.15		10.35	18.92	83.84	86.68	25-Jul-16 03:00:00		194.48	18.92	83.84	88.83
25-Jul-16 04:00:00	25-Jul-16 05:00:00		759.54	0.00	0.00	6.61	2.1	329.7		250.42	0.00	0.00	2.18		10.35	18.92	83.84	86.68	25-Jul-16 04:00:00		260.77	18.92	83.84	88.86
25-Jul-16 05:00:00	25-Jul-16 06:00:00		752.38	0.00	0.00	6.65	2.1	329.7		248.06	0.00	0.00	2.19		10.35	18.92	83.84	86.68	25-Jul-16 05:00:00		258.41	18.92	83.84	88.87
25-Jul-16 06:00:00	25-Jul-16 07:00:00		817.01	0.00	0.00	6.82	2.1	329.7		269.37	0.00	0.00	2.25		10.35	18.92	83.84	86.68	25-Jul-16 06:00:00		279.72	18.92	83.84	88.93
25-Jul-16 07:00:00	25-Jul-16 08:00:00		829.52	0.00	0.00	7.02	2.1	329.7		273.49	0.00	0.00	2.32		10.35	18.92	83.84	86.68	25-Jul-16 07:00:00		283.84	18.92	83.84	89.00
25-Jul-16 08:00:00	25-Jul-16 09:00:00		847.23	0.00	0.00	7.22	2.1	329.7		279.33	0.00	0.00	2.38		10.35	18.92	83.84	86.68	25-Jul-16 08:00:00		289.68	18.92	83.84	89.06
25-Jul-16 09:00:00	25-Jul-16 10:00:00		844.46	0.00	0.00	7.33	2.1	329.7		278.42	0.00	0.00	2.42		10.35	18.92	83.84	86.68	25-Jul-16 09:00:00		288.77	18.92	83.84	89.10
25-Jul-16 10:00:00	25-Jul-16 11:00:00		803.18	0.00	0.00	6.97	2.1	329.7		264.81	0.00	0.00	2.30		10.35	18.92	83.84	86.68	25-Jul-16 10:00:00		275.16	18.92	83.84	88.98
25-Jul-16 11:00:00	25-Jul-16 12:00:00		598.22	0.00	0.00	6.56	2.1	329.7		197.23	0.00	0.00	2.16		10.35	18.92	83.84	86.68	25-Jul-16 11:00:00		207.58	18.92	83.84	88.84
25-Jul-16 12:00:00	25-Jul-16 13:00:00		595.18	0.00	0.00	6.15

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
27-Jul-16 14:00:00	27-Jul-16 15:00:00		9.45	0.00	0.00	6.08	2.1	329.7		3.11	0.00	0.00	2.00		10.35	18.92	83.84	86.68	27-Jul-16 14:00:00		**13.46**	**18.92**	**83.84**	**88.68**
27-Jul-16 15:00:00	27-Jul-16 16:00:00		13.77	0.00	0.00	5.95	2.1	329.7		4.54	0.00	0.00	1.96		10.35	18.92	83.84	86.68	27-Jul-16 15:00:00		**14.89**	**18.92**	**83.84**	**88.64**
27-Jul-16 16:00:00	27-Jul-16 17:00:00		14.49	0.00	0.00	5.82	2.1	329.7		4.78	0.00	0.00	1.92		10.35	18.92	83.84	86.68	27-Jul-16 16:00:00		**15.13**	**18.92**	**83.84**	**88.60**
27-Jul-16 17:00:00	27-Jul-16 18:00:00		18.74	0.00	0.00	5.73	2.1	329.7		6.18	0.00	0.00	1.89		10.35	18.92	83.84	86.68	27-Jul-16 17:00:00		**16.53**	**18.92**	**83.84**	**88.57**
27-Jul-16 18:00:00	27-Jul-16 19:00:00		31.23	0.00	0.00	5.74	2.1	329.7		10.30	0.00	0.00	1.89		10.35	18.92	83.84	86.68	27-Jul-16 18:00:00		**20.65**	**18.92**	**83.84**	**88.57**
27-Jul-16 19:00:00	27-Jul-16 20:00:00		39.19	0.00	0.00	5.77	2.1	329.7		12.92	0.00	0.00	1.90		10.35	18.92	83.84	86.68	27-Jul-16 19:00:00		**23.27**	**18.92**	**83.84**	**88.58**
27-Jul-16 20:00:00	27-Jul-16 21:00:00		15.26	0.00	0.00	5.79	2.1	329.7		5.03	0.00	0.00	1.91		10.35	18.92	83.84	86.68	27-Jul-16 20:00:00		**15.38**	**18.92**	**83.84**	**88.59**
27-Jul-16 21:00:00	27-Jul-16 22:00:00		11.03	0.00	0.00	5.84	2.1	329.7		3.64	0.00	0.00	1.93		10.35	18.92	83.84	86.68	27-Jul-16 21:00:00		**13.99**	**18.92**	**83.84**	**88.61**
27-Jul-16 22:00:00	27-Jul-16 23:00:00		4.13	0.00	0.00	6.06	2.1	329.7		1.36	0.00	0.00	2.00		10.35	18.92	83.84	86.68	27-Jul-16 22:00:00		**11.71**	**18.92**	**83.84**	**88.68**
27-Jul-16 23:00:00	28-Jul-16 00:00:00		18.22	0.00	0.00	6.31	2.1	329.7		6.01	0.00	0.00	2.08		10.35	18.92	83.84	86.68	27-Jul-16 23:00:00		**16.36**	**18.92**	**83.84**	**88.76**
28-Jul-16 00:00:00	28-Jul-16 01:00:00		6.47	0.00	0.00	6.55	2.1	329.7		2.13	0.00	0.00	2.16		10.35	18.92	83.84	86.68	28-Jul-16 00:00:00		**12.48**	**18.92**	**83.84**	**88.84**
28-Jul-16 01:00:00	28-Jul-16 02:00:00		27.65	0.00	0.00	6.77	2.1	329.7		9.12	0.00	0.00	2.23		10.35	18.92	83.84	86.68	28-Jul-16 01:00:00		**19.47**	**18.92**	**83.84**	**88.91**
28-Jul-16 02:00:00	28-Jul-16 03:00:00		17.58	0.00	0.00	6.84	2.1	329.7		5.80	0.00	0.00	2.25		10.35	18.92	83.84	86.68	28-Jul-16 02:00:00		**16.15**	**18.92**	**83.84**	**88.93**
28-Jul-16 03:00:00	28-Jul-16 04:00:00		33.49	0.00	0.00	6.89	2.1	329.7		11.04	0.00	0.00	2.27		10.35	18.92	83.84	86.68	28-Jul-16 03:00:00		**21.39**	**18.92**	**83.84**	**88.95**
28-Jul-16 04:00:00	28-Jul-16 05:00:00		47.53	0.00	0.00	6.95	2.1	329.7		15.67	0.00	0.00	2.29		10.35	18.92	83.84	86.68	28-Jul-16 04:00:00		**26.02**	**18.92**	**83.84**	**88.97**
28-Jul-16 05:00:00	28-Jul-16 06:00:00		58.53	0.00	0.00	6.93	2.1	329.7		19.30	0.00	0.00	2.28		10.35	18.92	83.84	86.68	28-Jul-16 05:00:00		**29.65**	**18.92**	**83.84**	**88.96**
28-Jul-16 06:00:00	28-Jul-16 07:00:00		56.82	0.00	0.00	6.93	2.1	329.7		18.73	0.00	0.00	2.28		10.35	18.92	83.84	86.68	28-Jul-16 06:00:00		**29.08**	**18.92**	**83.84**	**88.96**
28-Jul-16 07:00:00	28-Jul-16 08:00:00		8.22	0.00	0.00	6.99	2.1	329.7		2.71	0.00	0.00	2.30		10.35	18.92	83.84	86.68	28-Jul-16 07:00:00		**13.06**	**18.92**	**83.84**	**88.98**
28-Jul-16 08:00:00	28-Jul-16 09:00:00		4.23	0.00	0.00	7.05	2.1	329.7		1.39	0.00	0.00	2.32		10.35	18.92	83.84	86.68	28-Jul-16 08:00:00		**11.74**	**18.92**	**83.84**	**89.00**
28-Jul-16 09:00:00	28-Jul-16 10:00:00		0.00	0.00	0.00	7.04	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	28-Jul-16 09:00:00		**10.35**	**18.92**	**83.84**	**89.00**
28-Jul-16 10:00:00	28-Jul-16 11:00:00		19.59	0.00	0.00	6.81	2.1	329.7		6.46	0.00	0.00	2.25		10.35	18.92	83.84	86.68	28-Jul-16 10:00:00		**16.81**	**18.92**	**83.84**	**88.93**
28-Jul-16 11:00:00	28-Jul-16 12:00:00		19.12	0.00	0.00	6.58	2.1	329.7		6.30	0.00	0.00	2.17		10.35	18.92	83.84	86.68	28-Jul-16 11:00:00		**16.65**	**18.92**	**83.84**	**88.85**
28-Jul-16 12:00:00	28-Jul-16 13:00:00		10.58	0.00	0.00	6.35	2.1	329.7		3.49	0.00	0.00	2.09		10.35	18.92	83.84	86.68	28-Jul-16 12:00:00		**13.84**	**18.92**	**83.84**	**88.77**
28-Jul-16 13:00:00	28-Jul-16 14:00:00		25.63	0.00	0.00	6.16	2.1	329.7		8.45	0.00	0.00	2.03		10.35	18.92	83.84	86.68	28-Jul-16 13:00:00		**18.80**	**18.92**	**83.84**	**88.71**
28-Jul-16 14:00:00	28-Jul-16 15:00:00		25.70	0.00	0.00	6.10	2.1	329.7		8.47	0.00	0.00	2.01		10.35	18.92	83.84	86.68	28-Jul-16 14:00:00		**18.82**	**18.92**	**83.84**	**88.69**
28-Jul-16 15:00:00	28-Jul-16 16:00:00		20.08	0.00	0.00	6.05	2.1	329.7		6.62	0.00	0.00	1.99		10.35	18.92	83.84	86.68	28-Jul-16 15:00:00		**16.97**	**18.92**	**83.84**	**88.67**
28-Jul-16 16:00:00	28-Jul-16 17:00:00		3.68	0.00	0.00	5.99	2.1	329.7		1.21	0.00	0.00	1.98		10.35	18.92	83.84	86.68	28-Jul-16 16:00:00		**11.56**	**18.92**	**83.84**	**88.66**
28-Jul-16 17:00:00	28-Jul-16 18:00:00		0.60	0.00	0.00	5.93	2.1	329.7		0.20	0.00	0.00	1.95		10.35	18.92	83.84	86.68	28-Jul-16 17:00:00		**10.55**	**18.92**	**83.84**	**88.63**
28-Jul-16 18:00:00	28-Jul-16 19:00:00		10.12	0.00	0.00	5.99	2.1	329.7		3.34	0.00	0.00	1.97		10.35	18.92	83.84	86.68	28-Jul-16 18:00:00		**13.69**	**18.92**	**83.84**	**88.65**
28-Jul-16 19:00:00	28-Jul-16 20:00:00		18.60	0.00	0.00	6.10	2.1	329.7		6.13	0.00	0.00	2.01		10.35	18.92	83.84	86.68	28-Jul-16 19:00:00		**16.48**	**18.92**	**83.84**	**88.69**
28-Jul-16 20:00:00	28-Jul-16 21:00:00		17.38	0.00	0.00	6.21	2.1	329.7		5.73	0.00	0.00	2.05		10.35	18.92	83.84	86.68	28-Jul-16 20:00:00		**16.08**	**18.92**	**83.84**	**88.73**
28-Jul-16 21:00:00	28-Jul-16 22:00:00		4.74	0.00	0.00	6.33	2.1	329.7		1.56	0.00	0.00	2.09		10.35	18.92	83.84	86.68	28-Jul-16 21:00:00		**11.91**	**18.92**	**83.84**	**88.77**
28-Jul-16 22:00:00	28-Jul-16 23:00:00		14.56	0.00	0.00	6.49	2.1	329.7		4.80	0.00	0.00	2.14		10.35	18.92	83.84	86.68	28-Jul-16 22:00:00		**15.15**	**18.92**	**83.84**	**88.82**
28-Jul-16 23:00:00	29-Jul-16 00:00:00		18.86	0.00	0.00	6.65	2.1	329.7		6.22	0.00	0.00	2.19		10.35	18.92	83.84	86.68	28-Jul-16 23:00:00		**16.57**	**18.92**	**83.84**	**88.87**
29-Jul-16 00:00:00	29-Jul-16 01:00:00		10.54	0.00	0.00	6.80	2.1	329.7		3.48	0.00	0.00	2.24		10.35	18.92	83.84	86.68	29-Jul-16 00:00:00		**13.83**	**18.92**	**83.84**	**88.92**
29-Jul-16 01:00:00	29-Jul-16 02:00:00		14.02	0.00	0.00	6.88	2.1	329.7		4.62	0.00	0.00	2.27		10.35	18.92	83.84	86.68	29-Jul-16 01:00:00		**14.97**	**18.92**	**83.84**	**88.95**
29-Jul-16 02:00:00	29-Jul-16 03:00:00		31.64	0.00	0.00	6.90	2.1	329.7		10.43	0.00	0.00	2.27		10.35	18.92	83.84	86.68	29-Jul-16 02:00:00		**20.78**	**18.92**	**83.84**	**88.95**
29-Jul-16 03:00:00	29-Jul-16 04:00:00		36.09	0.00	0.00	6.97	2.1	329.7		11.90	0.00	0.00	2.30		10.35	18.92	83.84	86.68	29-Jul-16 03:00:00		**22.25**	**18.92**	**83.84**	**88.98**
29-Jul-16 04:00:00	29-Jul-16 05:00:00		33.68	0.00	0.00	7.05	2.1	329.7		11.10	0.00	0.00	2.32		10.35	18.92	83.84	86.68	29-Jul-16 04:00:00		**21.45**	**18.92**	**83.84**	**89.00**
29-Jul-16 05:00:00	29-Jul-16 06:00:00		43.82	0.00	0.00	7.17	2.1	329.7		14.45	0.00	0.00	2.36		10.35	18.92	83.84	86.68	29-Jul-16 05:00:00		**24.80**	**18.92**	**83.84**	**89.04**
29-Jul-16 06:00:00	29-Jul-16 07:00:00		5.61	0.00	0.00	7.20	2.1	329.7		1.85	0.00	0.00	2.37		10.35	18.92	83.84	86.68	29-Jul-16 06:00:00		**12.20**	**18.92**	**83.84**	**89.05**
29-Jul-16 07:00:00	29-Jul-16 08:00:00		3.80	0.00	0.00	7.15	2.1	329.7		1.25	0.00	0.00	2.36		10.35	18.92	83.84	86.68	29-Jul-16 07:00:00		**11.60**	**18.92**	**83.84**	**89.04**
29-Jul-16 08:00:00	29-Jul-16 09:00:00		3.90	0.00	0.00	7.11	2.1	329.7		1.29	0.00	0.00	2.34		10.35	18.92	83.84	86.68	29-Jul-16 08:00:00		**11.64**	**18.92**	**83.84**	**89.02**
29-Jul-16 09:00:00	29-Jul-16 10:00:00		2.86	0.00	0.00	7.05	2.1	329.7		0.94	0.00	0.00	2.33		10.35	18.92	83.84	86.68	29-Jul-16 09:00:00		**11.29**	**18.92**	**83.84**	**89.01**
29-Jul-16 10:00:00	29-Jul-16 11:00:00		7.53	0.00	0.00	6.82	2.1	329.7		2.48	0.00	0.00	2.25		10.35	18.92	83.84	86.68	29-Jul-16 10:00:00		**12.83**	**18.92**	**83.84**	**88.93**
29-Jul-16 11:00:00	29-Jul-16 12:00:00		27.53	0.00	0.00	6.53	2.1	329.7		9.08	0.00	0.00	2.15		10.35	18.92	83.84	86.68	29-Jul-16 11:00:00		**19.43**	**18.92**	**83.84**	**88.83**
29-Jul-16 12:00:00	29-Jul-16 13:00:00		20.47	0.00	0.00	6.24	2.1	329.7		6.75	0.00	0.00	2.06		10.35	18.92	83.84	86.68	29-Jul-16 12:00:00		**17.10**	**18.92**	**83.84**	**88.74**
29-Jul-16 13:00:00	29-Jul-16 14:00:00		33.33	0.00	0.00	5.97	2.1	329.7		10.99	0.00	0.00	1.97		10.35	18.92	83.84	86.68	29-Jul-16 13:00:00		**21.34**	**18.92**	**83.84**	**88.65**
29-Jul-16 14:00:00	29-Jul-16 15:00:00		29.12	0.00	0.00	5.85	2.1	329.7		9.60	0.00	0.00	1.93		10.35	18.92	83.84	86.68	29-Jul-16 14:00:00		**19.95**	**18.92**	**83.84**	**88.61**
29-Jul-16 15:00:00	29-Jul-16 16:00:00		15.31	0.00	0.00	5.79	2.1	329.7		5.05	0.00	0.00	1.91		10.35	18.92	83.84	86.68	29-Jul-16 15:00:00		**15.40**	**18.92**	**83.84**	**88.59**
29-Jul-16 16:00:00	29-Jul-16 17:00:00		14.14	0.00	0.00	5.72	2.1	329.7		4.66	0.00	0.00	1.89		10.35	18.92	83.84	86.68	29-Jul-16 16:00:00		**15.01**	**18.92**	**83.84**	**88.57**
29-Jul-16 17:00:00	29-Jul-16 18:00:00		12.96	0.00	0.00	5.67	2.1	329.7		4.27	0.00	0.00	1.87		10.35	18.92	83.84	86.68	29-Jul-16 17:00:00		**14.62**	**18.92**	**83.84**	**88.55**
29-Jul-16 18:00:00	29-Jul-16 19:00:00		12.81	0.00	0.00	5.81	2.1	329.7		4.22	0.00	0.00	1.91		10.35	18.92	83.84	86.68	29-Jul-16 18:00:00		**14.57**	**18.92**	**83.84**	**88.59**
29-Jul-16 19:00:00	29-Jul-16 20:00:00		10.61	0.00	0.00	5.98	2.1	329.7		3.50	0.00	0.00	1.97		10.35	18.92	83.84	86.68	29-Jul-16 19:00:00		**13.85**	**18.92**	**83.84**	**88.65**
29-Jul-16 20:00:00	29-Jul-16 21:00:00		18.41	0.00	0.00	6.15	2.1	329.7		6.07	0.00	0.00	2.03		10.35	18.92	83.84	86.68	29-Jul-16 20:00:00		**16.42**	**18.92**	**83.84**	**88.71**
29-Jul-16 21:00:00	29-Jul-16 22:00:00		18.54	0.00	0.00	6.27	2.1	329.7		6.11	0.00	0.00	2.07		10.35	18.92	83.84	86.68	29-Jul-16 21:00:00		**16.46**	**18.92**	**83.84**	**88.75**
29-Jul-16 22:00:00	29-Jul-16 23:00:00		21.14	0.00	0.00	6.33	2.1	329.7		6.97	0.00	0.00	2.09		10.35	18.92	83.84	86.68	29-Jul-16 22:00:00		**17.32**	**18.92**	**83.84**	**88.77**
29-Jul-16 23:00:00	30-Jul-16 00:00:00		31.22	0.00	0.00	6.43	2.1	329.7		10.29	0.00	0.00	2.12		10.35	18.92	83.84	86.68	29-Jul-16 23:00:00		**20.64**	**18.92**	**83.84**	**88.80**
30-Jul-16 00:00:00	30-Jul-16 01:00:00		39.17	0.00	0.00	6.52	2.1	329.7		12.91	0.00	0.00	2.15		10.35	18.92	83.84	86.68	30-Jul-16 00:00:00		**23.26**	**18.92**	**83.84**	**88.83**
30-Jul-16 01:00:00	30-Jul-16 02:00:00		35.31	0.00	0.00	6.68	2.1	329.7		11.64	0.00	0.00	2.20		10.35	18.92	83.84	86.68	30-Jul-16 01:00:00		**21.99**	**18.92**	**83.84**	**88.88**
30-Jul-16 02:00:00	30-Jul-16 03:00:00		28.13	0.00	0.00	6.82	2.1	329.7		9.27	0.00	0.00	2.25		10.35	18.92	83.84	86.68	30-Jul-16 02:00:00		**19.62**	**18.92**	**83.84**	**88.93**
30-Jul-16 03:00:00	30-Jul-16 04:00:00		13.70	0.00	0.00	6.88	2.1	329.7		4.52	0.00	0.00	2.27		10.35	18.92	83.84	86.68	30-Jul-16 03:00:00		**14.87**	**18.92**	**83.84**	**88.95**
30-Jul-16 04:00:00	30-Jul-16 05:00:00		21.44	0.00	0.00	6.94	2.1	329.7		7.07	0.00	0.00	2.29		10.35	18.92	83.84	86.68	30-Jul-16 04:00:00		**17.42**	**18.92**	**83.84**	**88.97**
30-Jul-16 05:00:00	30-Jul-16 06:00:00		17.63	0.00	0.00	6.90	2.1	329.7		5.81	0.00	0.00	2.28		10.35	18.92	83.84	86.68	30-Jul-16 05:00:00		**16.16**	**18.92**	**83.84**	**88.96**
30-Jul-16 06:00:00	30-Jul-16 07:00:00		22.42	0.00	0.00	6.79	2.1	329.7		7.39	0.00	0.00	2.24		10.35	18.92	83.84	86.68	30-Jul-16 06:00:00		**17.74**	**18.92**	**83.84**	**88.92**
30-Jul-16 07:00:00	30-Jul-16 08:00:00		46.27	0.00	0.00	6.78	2.1	329.7		15.25	0.00	0.00	2.24		10.35	18.92	83.84	86.68	30-Jul-16 07:00:00		**25.60**	**18.92**	**83.84**	**88.92**
30-Jul-16 08:00:00	30-Jul-16 09:00:00		38.83	0.00	0.00	6.78	2.1	329.7		12.80	0.00	0.00	2.24		10.35	18.92	83.84	86.68	30-Jul-16 08:00:00		**23.15**	**18.92**	**83.84**	**88.92**
30-Jul-16 09:00:00	30-Jul-16 10:00:00		36.92	0.00	0.00	6.76	2.1	329.7		12.17	0.00	0.00	2.23		10.35	18.92	83.84	86.68	30-Jul-16 09:00:00		**22.52**	**18.92**	**83.84**	**88.91**
30-Jul-16 10:00:00	30-Jul-16 11:00:00		36.28	0.00	0.00	6.62	2.1	329.7		11.96	0.00	0.00	2.18		10.35	18.92	83.84	86.68	30-Jul-16 10:00:00		**22.31**	**18.92**	**83.84**	**88.86**
30-Jul-16 11:00:00	30-Jul-16 12:00:00		17.40	0.00	0.00	6.44	2.1	329.7		5.74	0.00	0.00	2.12		10.35	18.92	83.84	86.68	30-Jul-16 11:00:00		**16.09**	**18.92**	**83.84**	**88.80**
30-Jul-16 12:00:00	30-Jul-16 13:00:00		31.64	0.00	0.00	6.27	2.1	329.7		10.43	0.00	0.00	2.07		10.35	18.92	83.84	86.68	30-Jul-16 12:00:00		**20.78**	**18.92**	**83.84**	**88.75**
30-Jul-16 13:00:00	30-Jul-16 14:00:00		25.64	0.00	0.00	6.04	2.1	329.7		8.45	0.00	0.00	1.99		10.35	18.92	83.84	86.68	30-Jul-16 13:00:00		**18.80**	**18.92**	**83.84**	**88.67**
30-Jul-16 14:00:00	30-Jul-16 15:00:00		19.37	0.00	0.00	5.93	2.1	329.7		6.39	0.00	0.00	1.96		10.35	18.92	83.84	86.68	30-Jul-16 14:00:00		**16.74**	**18.92**	**83.84**	**88.64**
30-Jul-16 15:00:00	30-Jul-16 16:00:00		8.00	0.00	0.00	5.96	2.1	329.7		2.64	0.00	0.00	1.96		10.35	18.92	83.84	86.68	30-Jul-16 15:00:00		**12.99**	**18.92**	**83.84**	**88.64**
30-Jul-16 16:00:00	30-Jul-16 17:00:00		7.82	0.00	0.00	5.98	2.1	329.7		2.58	0.00	0.00	1.97		10.35	18.92	83.84	86.68	30-Jul-16 16:00:00		**12.93**	**18.92**	**83.84**	**88.65**
30-Jul-16 17:00:00	30-Jul-16 18:00:00		1.04	0.00	0.00	5.99	2.1	329.7		0.34	0.00	0.00	1.97		10.35	18.92	83.84	86.68	30-Jul-16 17:00:00		**10.69**	**18.92**	**83.84**	**88.65**
30-Jul-16 18:00:00	30-Jul-16 19:00:00		1.94	0.00	0.00	6.11	2.1	329.7		0.64	0.00	0.00	2.01		10.35	18.92	83.84	86.68	30-Jul-16 18:00:00		**10.99**	**18.92**	**83.84**	**88.69**
30-Jul-16 19:00:00	30-Jul-16 20:00:00		3.12	0.00	0.00	6.29	2.1	329.7		1.03	0.00	0.00	2.07		10.35	18.92	83.84	86.68	30-Jul-16 19:00:00		**11.38**	**18.92**	**83.84**	**88.75**
30-Jul-16 20:00:00	30-Jul-16 21:00:00		6.11	0.00	0.00	6.47	2.1	329.7		2.01	0.00	0.00	2.13		10.35	18.92	83.84	86.68	30-Jul-16 20:00:00		**12.36**	**18.92**	**83.84**	**88.81**
30-Jul-16 21:00:00	30-Jul-16 22:00:00		0.00	0.00	0.00	6.62	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	30-Jul-16 21:00:00		**10.35**	**18.92**	**83.84**	**88.86**
30-Jul-16 22:00:00	30-Jul-16 23:00:00		15.47	0.00	0.00	6.66	2.1	329.7		5.10	0.00	0.00	2.19		10.35	18.92	83.84	86.68	30-Jul-16 22:00:00		**15.45**	**18.92**	**83.84**	**88.87**
30-Jul-16 23:00:00	31-Jul-16 00:00:00		30.77	0.00	0.00	6.70	2.1	329.7		10.14	0.00	0.00	2.21		10.35	18.92	83.84	86.68	30-Jul-16 23:00:00		**20.49**	**18.92**	**83.84**	**88.89**
31-Jul-16 00:00:00	31-Jul-16 01:00:00		32.82	0.00	0.00	6.73	2.1	329.7		10.82	0.00	0.00	2.22		10.35	18.92	83.84	86.68	31-Jul-16 00:00:00		**21.17**	**18.92**	**83.84**	**88.90**
31-Jul-16 01:00:00	31-Jul-16 02:00:00		38.53	0.00	0.00	6.79	2.1	329.7		12.70	0.00	0.00	2.24		10.35	18.92	83.84	86.68	31-Jul-16 01:00:00		**23.05**	**18.92**	**83.84**	**88.92**
31-Jul-16 02:00:00	31-Jul-16 03:00:00		22.06	0.00	0.00	6.84	2.1	329.7		7.27	0.00	0.00	2.25		10.35	18.92	83.84	86.68	31-Jul-16 02:00:00		**17.62**	**18.92**	**83.84**	**88.93**
31-Jul-16 03:00:00	31-Jul-16 04:00:00		22.85	0.00	0.00	6.84	2.1	329.7		7.53	0.00	0.00	2.26		10.35	18.92	83.84	86.68	31-Jul-16 03:00:00		**17.88**	**18.92**	**83.84**	**88.94**
31-Jul-16 04:00:00	31-Jul-16 05:00:00		49.05	0.00	0.00	6.85	2.1	329.7		16.17	0.00	0.00	2.26		10.35	18.92	83.84	86.68	31-Jul-16 04:00:00		**26.52**	**18.92**	**83.84**	**88.94**
31-Jul-16 05:00:00	31-Jul-16 06:00:00		37.16	0.00	0.00	6.87	2.1	329.7		12.25	0.00	0.00	2.26		10.35	18.92	83.84	86.68	31-Jul-16 05:00:00		**22.60**	**18.92**	**83.84**	**88.94**
31-Jul-16 06:00:00	31-Jul-16 07:00:00		41.02	0.00	0.00	6.88	2.1	329.7		13.52	0.00	0.00	2.27		10.35	18.92	83.84	86.68	31-Jul-16 06:00:00		**23.87**	**18.92**	**83.84**	**88.95**
31-Jul-16 07:00:00	31-Jul-16 08:00:00		39.49	0.00	0.00	6.87	2.1	329.7		13.02	0.00	0.00	2.26		10.35	18.92	83.84	86.68	31-Jul-16 07:00:00		**23.37**	**18.92**	**83.84**	**88.94**
31-Jul-16 08:00:00	31-Jul-16 09:00:00		40.32	0.00	0.00	6.86	2.1	329.7		13.29	0.00	0.00	2.26		10.35	18.92	83.84	86.68	31-Jul-16 08:00:00		**23.64**	**18.92**	**83.84**	**88.94**
31-Jul-16 09:00:00	31-Jul-16 10:00:00		37.13	0.00	0.00	6.78	2.1	329.7		12.24	0.00	0.00	2.24		10.35	18.92	83.84	86.68	31-Jul-16 09:00:00		**22.59**	**18.92**	**83.84**	**88.92**
31-Jul-16 10:00:00	31-Jul-16 11:00:00		20.44	0.00	0.00	6.49	2.1	329.7		6.74	0.00	0.00	2.14		10.35	18.92	83.84	86.68	31-Jul-16 10:00:00		**17.09**	**18.92**	**83.84**	**88.82**
31-Jul-16 11:00:00	31-Jul-16 12:00:00		28.34	0.00	0.00	6.24

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
02-Aug-16 13:00:00	02-Aug-16 14:00:00		21.14	0.00	0.00	6.50	2.1	329.7		6.97	0.00	0.00	2.14		10.35	18.92	83.84	86.68	02-Aug-16 13:00:00		17.32	18.92	83.84	88.82
02-Aug-16 14:00:00	02-Aug-16 15:00:00		39.14	0.00	0.00	6.26	2.1	329.7		12.90	0.00	0.00	2.06		10.35	18.92	83.84	86.68	02-Aug-16 14:00:00		23.25	18.92	83.84	88.74
02-Aug-16 15:00:00	02-Aug-16 16:00:00		41.86	0.00	0.00	6.01	2.1	329.7		13.80	0.00	0.00	1.98		10.35	18.92	83.84	86.68	02-Aug-16 15:00:00		24.15	18.92	83.84	88.66
02-Aug-16 16:00:00	02-Aug-16 17:00:00		26.83	0.00	0.00	5.78	2.1	329.7		8.85	0.00	0.00	1.91		10.35	18.92	83.84	86.68	02-Aug-16 16:00:00		19.20	18.92	83.84	88.59
02-Aug-16 17:00:00	02-Aug-16 18:00:00		18.60	0.00	0.00	5.77	2.1	329.7		6.13	0.00	0.00	1.90		10.35	18.92	83.84	86.68	02-Aug-16 17:00:00		16.48	18.92	83.84	88.58
02-Aug-16 18:00:00	02-Aug-16 19:00:00		37.07	0.00	0.00	10.03	2.1	329.7		12.22	0.00	0.00	3.31		10.35	18.92	83.84	86.68	02-Aug-16 18:00:00		22.57	18.92	83.84	89.99
02-Aug-16 19:00:00	02-Aug-16 20:00:00		44.20	0.00	0.00	5.97	2.1	329.7		14.57	0.00	0.00	1.97		10.35	18.92	83.84	86.68	02-Aug-16 19:00:00		24.92	18.92	83.84	88.65
02-Aug-16 20:00:00	02-Aug-16 21:00:00		22.91	0.00	0.00	6.25	2.1	329.7		7.56	0.00	0.00	2.06		10.35	18.92	83.84	86.68	02-Aug-16 20:00:00		17.91	18.92	83.84	88.74
02-Aug-16 21:00:00	02-Aug-16 22:00:00		1.91	0.00	0.00	6.52	2.1	329.7		0.63	0.00	0.00	2.15		10.35	18.92	83.84	86.68	02-Aug-16 21:00:00		10.98	18.92	83.84	88.83
02-Aug-16 22:00:00	02-Aug-16 23:00:00		2.02	0.00	0.00	6.75	2.1	329.7		0.67	0.00	0.00	2.23		10.35	18.92	83.84	86.68	02-Aug-16 22:00:00		11.02	18.92	83.84	88.91
02-Aug-16 23:00:00	03-Aug-16 00:00:00		15.27	0.00	0.00	6.78	2.1	329.7		5.04	0.00	0.00	2.23		10.35	18.92	83.84	86.68	02-Aug-16 23:00:00		15.39	18.92	83.84	88.91
03-Aug-16 00:00:00	03-Aug-16 01:00:00		34.19	0.00	0.00	6.78	2.1	329.7		11.27	0.00	0.00	2.23		10.35	18.92	83.84	86.68	03-Aug-16 00:00:00		21.62	18.92	83.84	88.91
03-Aug-16 01:00:00	03-Aug-16 02:00:00		31.34	0.00	0.00	9.93	2.1	329.7		10.33	0.00	0.00	3.27		10.35	18.92	83.84	86.68	03-Aug-16 01:00:00		20.68	18.92	83.84	89.95
03-Aug-16 02:00:00	03-Aug-16 03:00:00		31.13	0.00	0.00	6.83	2.1	329.7		10.26	0.00	0.00	2.25		10.35	18.92	83.84	86.68	03-Aug-16 02:00:00		20.61	18.92	83.84	88.93
03-Aug-16 03:00:00	03-Aug-16 04:00:00		33.35	0.00	0.00	61.73	2.1	329.7		11.00	0.00	0.00	20.35		10.35	18.92	83.84	86.68	03-Aug-16 03:00:00		21.35	18.92	83.84	107.03
03-Aug-16 04:00:00	03-Aug-16 05:00:00		32.79	0.00	0.00	7.03	2.1	329.7		10.81	0.00	0.00	2.32		10.35	18.92	83.84	86.68	03-Aug-16 04:00:00		21.16	18.92	83.84	89.00
03-Aug-16 05:00:00	03-Aug-16 06:00:00		65.67	0.00	0.00	7.16	2.1	329.7		21.65	0.00	0.00	2.36		10.35	18.92	83.84	86.68	03-Aug-16 05:00:00		32.00	18.92	83.84	89.04
03-Aug-16 06:00:00	03-Aug-16 07:00:00		70.93	0.00	0.00	9.22	2.1	329.7		23.39	0.00	0.00	3.04		10.35	18.92	83.84	86.68	03-Aug-16 06:00:00		33.74	18.92	83.84	89.72
03-Aug-16 07:00:00	03-Aug-16 08:00:00		67.29	0.00	0.00	7.50	2.1	329.7		22.18	0.00	0.00	2.47		10.35	18.92	83.84	86.68	03-Aug-16 07:00:00		32.53	18.92	83.84	89.15
03-Aug-16 08:00:00	03-Aug-16 09:00:00		63.31	0.00	0.00	117.27	2.1	329.7		20.87	0.00	0.00	38.67		10.35	18.92	83.84	86.68	03-Aug-16 08:00:00		31.22	18.92	83.84	125.35
03-Aug-16 09:00:00	03-Aug-16 10:00:00		63.05	0.00	0.00	21.79	2.1	329.7		20.79	0.00	0.00	7.18		10.35	18.92	83.84	86.68	03-Aug-16 09:00:00		31.14	18.92	83.84	93.86
03-Aug-16 10:00:00	03-Aug-16 11:00:00		64.24	0.00	0.00	7.21	2.1	329.7		21.18	0.00	0.00	2.38		10.35	18.92	83.84	86.68	03-Aug-16 10:00:00		31.53	18.92	83.84	89.06
03-Aug-16 11:00:00	03-Aug-16 12:00:00		66.92	0.00	0.00	7.09	2.1	329.7		22.06	0.00	0.00	2.34		10.35	18.92	83.84	86.68	03-Aug-16 11:00:00		32.41	18.92	83.84	89.02
03-Aug-16 12:00:00	03-Aug-16 13:00:00		59.67	0.00	0.00	6.96	2.1	329.7		19.67	0.00	0.00	2.30		10.35	18.92	83.84	86.68	03-Aug-16 12:00:00		30.02	18.92	83.84	88.98
03-Aug-16 13:00:00	03-Aug-16 14:00:00		53.34	0.00	0.00	6.96	2.1	329.7		17.59	0.00	0.00	2.30		10.35	18.92	83.84	86.68	03-Aug-16 13:00:00		27.94	18.92	83.84	88.98
03-Aug-16 14:00:00	03-Aug-16 15:00:00		40.18	0.00	0.00	6.60	2.1	329.7		13.25	0.00	0.00	2.17		10.35	18.92	83.84	86.68	03-Aug-16 14:00:00		23.60	18.92	83.84	88.85
03-Aug-16 15:00:00	03-Aug-16 16:00:00		6.05	0.00	0.00	6.38	2.1	329.7		1.99	0.00	0.00	2.10		10.35	18.92	83.84	86.68	03-Aug-16 15:00:00		12.34	18.92	83.84	88.78
03-Aug-16 16:00:00	03-Aug-16 17:00:00		26.98	0.00	0.00	6.16	2.1	329.7		8.90	0.00	0.00	2.03		10.35	18.92	83.84	86.68	03-Aug-16 16:00:00		19.25	18.92	83.84	88.71
03-Aug-16 17:00:00	03-Aug-16 18:00:00		52.62	0.00	0.00	5.96	2.1	329.7		17.35	0.00	0.00	1.96		10.35	18.92	83.84	86.68	03-Aug-16 17:00:00		27.70	18.92	83.84	88.64
03-Aug-16 18:00:00	03-Aug-16 19:00:00		53.23	0.00	0.00	18.55	2.1	329.7		17.55	0.00	0.00	6.12		10.35	18.92	83.84	86.68	03-Aug-16 18:00:00		27.90	18.92	83.84	92.80
03-Aug-16 19:00:00	03-Aug-16 20:00:00		51.86	0.00	0.00	6.22	2.1	329.7		17.10	0.00	0.00	2.05		10.35	18.92	83.84	86.68	03-Aug-16 19:00:00		27.45	18.92	83.84	88.73
03-Aug-16 20:00:00	03-Aug-16 21:00:00		51.72	0.00	0.00	6.37	2.1	329.7		17.05	0.00	0.00	2.10		10.35	18.92	83.84	86.68	03-Aug-16 20:00:00		27.40	18.92	83.84	88.78
03-Aug-16 21:00:00	03-Aug-16 22:00:00		51.58	0.00	0.00	6.51	2.1	329.7		17.01	0.00	0.00	2.15		10.35	18.92	83.84	86.68	03-Aug-16 21:00:00		27.36	18.92	83.84	88.83
03-Aug-16 22:00:00	03-Aug-16 23:00:00		51.40	0.00	0.00	6.65	2.1	329.7		16.95	0.00	0.00	2.19		10.35	18.92	83.84	86.68	03-Aug-16 22:00:00		27.30	18.92	83.84	88.87
03-Aug-16 23:00:00	04-Aug-16 00:00:00		31.45	0.00	0.00	6.71	2.1	329.7		10.37	0.00	0.00	2.21		10.35	18.92	83.84	86.68	03-Aug-16 23:00:00		20.72	18.92	83.84	88.89
04-Aug-16 00:00:00	04-Aug-16 01:00:00		14.02	0.00	0.00	6.75	2.1	329.7		4.62	0.00	0.00	2.23		10.35	18.92	83.84	86.68	04-Aug-16 00:00:00		14.97	18.92	83.84	88.91
04-Aug-16 01:00:00	04-Aug-16 02:00:00		20.80	0.00	0.00	6.79	2.1	329.7		6.86	0.00	0.00	2.24		10.35	18.92	83.84	86.68	04-Aug-16 01:00:00		17.21	18.92	83.84	88.92
04-Aug-16 02:00:00	04-Aug-16 03:00:00		12.12	0.00	0.00	62.69	2.1	329.7		4.00	0.00	0.00	20.67		10.35	18.92	83.84	86.68	04-Aug-16 02:00:00		14.35	18.92	83.84	107.35
04-Aug-16 03:00:00	04-Aug-16 04:00:00		7.79	0.00	0.00	12.37	2.1	329.7		2.57	0.00	0.00	4.08		10.35	18.92	83.84	86.68	04-Aug-16 03:00:00		12.92	18.92	83.84	90.76
04-Aug-16 04:00:00	04-Aug-16 05:00:00		6.89	0.00	0.00	10.56	2.1	329.7		2.27	0.00	0.00	3.48		10.35	18.92	83.84	86.68	04-Aug-16 04:00:00		12.62	18.92	83.84	90.16
04-Aug-16 05:00:00	04-Aug-16 06:00:00		6.42	0.00	0.00	6.85	2.1	329.7		2.12	0.00	0.00	2.26		10.35	18.92	83.84	86.68	04-Aug-16 05:00:00		12.47	18.92	83.84	88.94
04-Aug-16 06:00:00	04-Aug-16 07:00:00		7.07	0.00	0.00	6.82	2.1	329.7		2.33	0.00	0.00	2.25		10.35	18.92	83.84	86.68	04-Aug-16 06:00:00		12.68	18.92	83.84	88.93
04-Aug-16 07:00:00	04-Aug-16 08:00:00		7.71	0.00	0.00	95.61	2.1	329.7		2.54	0.00	0.00	31.52		10.35	18.92	83.84	86.68	04-Aug-16 07:00:00		12.89	18.92	83.84	118.20
04-Aug-16 08:00:00	04-Aug-16 09:00:00		16.05	0.00	0.00	6.82	2.1	329.7		5.29	0.00	0.00	2.25		10.35	18.92	83.84	86.68	04-Aug-16 08:00:00		15.64	18.92	83.84	88.93
04-Aug-16 09:00:00	04-Aug-16 10:00:00		20.75	0.00	0.00	8.64	2.1	329.7		6.84	0.00	0.00	2.85		10.35	18.92	83.84	86.68	04-Aug-16 09:00:00		17.19	18.92	83.84	89.53
04-Aug-16 10:00:00	04-Aug-16 11:00:00		22.22	0.00	0.00	7.94	2.1	329.7		7.33	0.00	0.00	2.62		10.35	18.92	83.84	86.68	04-Aug-16 10:00:00		17.68	18.92	83.84	89.30
04-Aug-16 11:00:00	04-Aug-16 12:00:00		20.45	0.00	0.00	6.59	2.1	329.7		6.74	0.00	0.00	2.17		10.35	18.92	83.84	86.68	04-Aug-16 11:00:00		17.09	18.92	83.84	88.85
04-Aug-16 12:00:00	04-Aug-16 13:00:00		20.75	0.00	0.00	6.40	2.1	329.7		6.84	0.00	0.00	2.11		10.35	18.92	83.84	86.68	04-Aug-16 12:00:00		17.19	18.92	83.84	88.79
04-Aug-16 13:00:00	04-Aug-16 14:00:00		16.49	0.00	0.00	116.11	2.1	329.7		5.44	0.00	0.00	38.28		10.35	18.92	83.84	86.68	04-Aug-16 13:00:00		15.79	18.92	83.84	124.96
04-Aug-16 14:00:00	04-Aug-16 15:00:00		6.73	0.00	0.00	6.08	2.1	329.7		2.22	0.00	0.00	2.01		10.35	18.92	83.84	86.68	04-Aug-16 14:00:00		12.57	18.92	83.84	88.69
04-Aug-16 15:00:00	04-Aug-16 16:00:00		15.99	0.00	0.00	18.71	2.1	329.7		5.27	0.00	0.00	6.17		10.35	18.92	83.84	86.68	04-Aug-16 15:00:00		15.62	18.92	83.84	92.85
04-Aug-16 16:00:00	04-Aug-16 17:00:00		18.24	0.00	0.00	5.75	2.1	329.7		6.01	0.00	0.00	1.90		10.35	18.92	83.84	86.68	04-Aug-16 16:00:00		16.36	18.92	83.84	88.58
04-Aug-16 17:00:00	04-Aug-16 18:00:00		56.51	0.00	0.00	5.82	2.1	329.7		18.63	0.00	0.00	1.92		10.35	18.92	83.84	86.68	04-Aug-16 17:00:00		28.98	18.92	83.84	88.60
04-Aug-16 18:00:00	04-Aug-16 19:00:00		59.52	0.00	0.00	5.89	2.1	329.7		19.62	0.00	0.00	1.94		10.35	18.92	83.84	86.68	04-Aug-16 18:00:00		29.97	18.92	83.84	88.62
04-Aug-16 19:00:00	04-Aug-16 20:00:00		57.12	0.00	0.00	48.52	2.1	329.7		18.83	0.00	0.00	16.00		10.35	18.92	83.84	86.68	04-Aug-16 19:00:00		29.18	18.92	83.84	102.68
04-Aug-16 20:00:00	04-Aug-16 21:00:00		59.96	0.00	0.00	6.23	2.1	329.7		19.77	0.00	0.00	2.05		10.35	18.92	83.84	86.68	04-Aug-16 20:00:00		30.12	18.92	83.84	88.73
04-Aug-16 21:00:00	04-Aug-16 22:00:00		65.36	0.00	0.00	6.40	2.1	329.7		21.55	0.00	0.00	2.11		10.35	18.92	83.84	86.68	04-Aug-16 21:00:00		31.90	18.92	83.84	88.79
04-Aug-16 22:00:00	04-Aug-16 23:00:00		46.19	0.00	0.00	6.58	2.1	329.7		15.23	0.00	0.00	2.17		10.35	18.92	83.84	86.68	04-Aug-16 22:00:00		25.58	18.92	83.84	88.85
04-Aug-16 23:00:00	05-Aug-16 00:00:00		7.99	0.00	0.00	6.74	2.1	329.7		2.64	0.00	0.00	2.22		10.35	18.92	83.84	86.68	04-Aug-16 23:00:00		12.99	18.92	83.84	88.90
05-Aug-16 00:00:00	05-Aug-16 01:00:00		14.79	0.00	0.00	6.78	2.1	329.7		4.88	0.00	0.00	2.23		10.35	18.92	83.84	86.68	05-Aug-16 00:00:00		15.23	18.92	83.84	88.91
05-Aug-16 01:00:00	05-Aug-16 02:00:00		17.62	0.00	0.00	19.91	2.1	329.7		5.81	0.00	0.00	6.56		10.35	18.92	83.84	86.68	05-Aug-16 01:00:00		16.16	18.92	83.84	93.24
05-Aug-16 02:00:00	05-Aug-16 03:00:00		5.64	0.00	0.00	6.79	2.1	329.7		1.86	0.00	0.00	2.24		10.35	18.92	83.84	86.68	05-Aug-16 02:00:00		12.21	18.92	83.84	88.92
05-Aug-16 03:00:00	05-Aug-16 04:00:00		8.36	0.00	0.00	6.79	2.1	329.7		2.76	0.00	0.00	2.24		10.35	18.92	83.84	86.68	05-Aug-16 03:00:00		13.11	18.92	83.84	88.92
05-Aug-16 04:00:00	05-Aug-16 05:00:00		18.15	0.00	0.00	6.79	2.1	329.7		5.99	0.00	0.00	2.24		10.35	18.92	83.84	86.68	05-Aug-16 04:00:00		16.34	18.92	83.84	88.92
05-Aug-16 05:00:00	05-Aug-16 06:00:00		45.77	0.00	0.00	71.40	2.1	329.7		15.09	0.00	0.00	23.54		10.35	18.92	83.84	86.68	05-Aug-16 05:00:00		25.44	18.92	83.84	110.22
05-Aug-16 06:00:00	05-Aug-16 07:00:00		76.75	0.00	0.00	6.67	2.1	329.7		25.30	0.00	0.00	2.20		10.35	18.92	83.84	86.68	05-Aug-16 06:00:00		35.65	18.92	83.84	88.88
05-Aug-16 07:00:00	05-Aug-16 08:00:00		114.50	0.00	0.00	6.59	2.1	329.7		37.75	0.00	0.00	2.17		10.35	18.92	83.84	86.68	05-Aug-16 07:00:00		48.10	18.92	83.84	88.85
05-Aug-16 08:00:00	05-Aug-16 09:00:00		102.81	0.00	0.00	6.51	2.1	329.7		33.90	0.00	0.00	2.15		10.35	18.92	83.84	86.68	05-Aug-16 08:00:00		44.25	18.92	83.84	88.83
05-Aug-16 09:00:00	05-Aug-16 10:00:00		77.65	0.00	0.00	6.40	2.1	329.7		25.60	0.00	0.00	2.11		10.35	18.92	83.84	86.68	05-Aug-16 09:00:00		35.95	18.92	83.84	88.79
05-Aug-16 10:00:00	05-Aug-16 11:00:00		67.85	0.00	0.00	6.24	2.1	329.7		22.37	0.00	0.00	2.06		10.35	18.92	83.84	86.68	05-Aug-16 10:00:00		32.72	18.92	83.84	88.74
05-Aug-16 11:00:00	05-Aug-16 12:00:00		65.98	0.00	0.00	52.52	2.1	329.7		21.75	0.00	0.00	17.32		10.35	18.92	83.84	86.68	05-Aug-16 11:00:00		32.10	18.92	83.84	104.00
05-Aug-16 12:00:00	05-Aug-16 13:00:00		20.99	0.00	0.00	5.96	2.1	329.7		6.92	0.00	0.00	1.96		10.35	18.92	83.84	86.68	05-Aug-16 12:00:00		17.27	18.92	83.84	88.64
05-Aug-16 13:00:00	05-Aug-16 14:00:00		26.03	0.00	0.00	5.83	2.1	329.7		8.58	0.00	0.00	1.92		10.35	18.92	83.84	86.68	05-Aug-16 13:00:00		18.93	18.92	83.84	88.60
05-Aug-16 14:00:00	05-Aug-16 15:00:00		56.41	0.00	0.00	78.95	2.1	329.7		18.60	0.00	0.00	26.03		10.35	18.92	83.84	86.68	05-Aug-16 14:00:00		28.95	18.92	83.84	112.71
05-Aug-16 15:00:00	05-Aug-16 16:00:00		58.30	0.00	0.00	7.23	2.1	329.7		19.22	0.00	0.00	2.38		10.35	18.92	83.84	86.68	05-Aug-16 15:00:00		29.57	18.92	83.84	89.06
05-Aug-16 16:00:00	05-Aug-16 17:00:00		49.43	0.00	0.00	5.68	2.1	329.7		16.30	0.00	0.00	1.87		10.35	18.92	83.84	86.68	05-Aug-16 16:00:00		26.65	18.92	83.84	88.55
05-Aug-16 17:00:00	05-Aug-16 18:00:00		39.60	0.00	0.00	5.71	2.1	329.7		13.06	0.00	0.00	1.88		10.35	18.92	83.84	86.68	05-Aug-16 17:00:00		23.41	18.92	83.84	88.56
05-Aug-16 18:00:00	05-Aug-16 19:00:00		36.69	0.00	0.00	84.86	2.1	329.7		12.10	0.00	0.00	27.98		10.35	18.92	83.84	86.68	05-Aug-16 18:00:00		22.45	18.92	83.84	114.66
05-Aug-16 19:00:00	05-Aug-16 20:00:00		39.30	0.00	0.00	6.23	2.1	329.7		12.96	0.00	0.00	2.05		10.35	18.92	83.84	86.68	05-Aug-16 19:00:00		23.31	18.92	83.84	88.73
05-Aug-16 20:00:00	05-Aug-16 21:00:00		46.99	0.00	0.00	79.17	2.1	329.7		15.49	0.00	0.00	26.10		10.35	18.92	83.84	86.68	05-Aug-16 20:00:00		25.84	18.92	83.84	112.78
05-Aug-16 21:00:00	05-Aug-16 22:00:00		43.47	0.00	0.00	6.56	2.1	329.7		14.33	0.00	0.00	2.16		10.35	18.92	83.84	86.68	05-Aug-16 21:00:00		24.68	18.92	83.84	88.84
05-Aug-16 22:00:00	05-Aug-16 23:00:00		12.11	0.00	0.00	6.56	2.1	329.7		3.99	0.00	0.00	2.16		10.35	18.92	83.84	86.68	05-Aug-16 22:00:00		14.34	18.92	83.84	88.84
05-Aug-16 23:00:00	06-Aug-16 00:00:00		12.10	0.00	0.00	6.56	2.1	329.7		3.99	0.00	0.00	2.16		10.35	18.92	83.84	86.68	05-Aug-16 23:00:00		14.34	18.92	83.84	88.84
06-Aug-16 00:00:00	06-Aug-16 01:00:00		15.48	0.00	0.00	6.50	2.1	329.7		5.10	0.00	0.00	2.14		10.35	18.92	83.84	86.68	06-Aug-16 00:00:00		15.45	18.92	83.84	88.82
06-Aug-16 01:00:00	06-Aug-16 02:00:00		38.41	0.00	0.00	84.00	2.1	329.7		12.67	0.00	0.00	27.69		10.35	18.92	83.84	86.68	06-Aug-16 01:00:00		23.02	18.92	83.84	114.37
06-Aug-16 02:00:00	06-Aug-16 03:00:00		47.72	0.00	0.00	6.78	2.1	329.7		15.73	0.00	0.00	2.23		10.35	18.92	83.84	86.68	06-Aug-16 02:00:00		26.08	18.92	83.84	88.91
06-Aug-16 03:00:00	06-Aug-16 04:00:00		45.50	0.00	0.00	6.78	2.1	329.7		15.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	06-Aug-16 03:00:00		25.35	18.92	83.84	88.91
06-Aug-16 04:00:00	06-Aug-16 05:00:00		46.39	0.00	0.00	6.78	2.1	329.7		15.30	0.00	0.00	2.23		10.35	18.92	83.84	86.68	06-Aug-16 04:00:00		25.65	18.92	83.84	88.91
06-Aug-16 05:00:00	06-Aug-16 06:00:00		46.75	0.00	0.00	6.78	2.1	329.7		15.41	0.00	0.00	2.23		10.35	18.92	83.84	86.68	06-Aug-16 05:00:00		25.76	18.92	83.84	88.91
06-Aug-16 06:00:00	06-Aug-16 07:00:00		46.97	0.00	0.00	6.75	2.1	329.7		15.49	0.00	0.00	2.22		10.35	18.92	83.84	86.68	06-Aug-16 06:00:00		25.84	18.92	83.84	88.90
06-Aug-16 07:00:00	06-Aug-16 08:00:00		47.49	0.00	0.00	6.79	2.1	329.7		15.66	0.00	0.00	2.24		10.35	18.92	83.84	86.68	06-Aug-16 07:00:00		26.01	18.92	83.84	88.92
06-Aug-16 08:00:00	06-Aug-16 09:00:00		47.85	0.00	0.00	6.59	2.1	329.7		15.78	0.00	0.00	2.17		10.35	18.92	83.84	86.68	06-Aug-16 08:00:00		26.13	18.92	83.84	88.85
06-Aug-16 09:00:00	06-Aug-16 10:00:00		45.76	0.00	0.00	6.48	2.1	329.7		15.09	0.00	0.00	2.14		10.35	18.92	83.84	86.68	06-Aug-16 09:00:00		25.44	18.92	83.84	88.82
06-Aug-16 10:00:00	06-Aug-16 11:00:00		27.86	0.00	0.00	6.36

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
08-Aug-16 12:00:00	08-Aug-16 13:00:00		24.38	0.00	0.00	6.26	2.1	329.7		8.04	0.00	0.00	2.06		10.35	18.92	83.84	86.68	08-Aug-16 12:00:00		18.39	18.92	83.84	88.74
08-Aug-16 13:00:00	08-Aug-16 14:00:00		45.00	0.00	0.00	6.06	2.1	329.7		14.84	0.00	0.00	2.00		10.35	18.92	83.84	86.68	08-Aug-16 13:00:00		25.19	18.92	83.84	88.68
08-Aug-16 14:00:00	08-Aug-16 15:00:00		43.98	0.00	0.00	5.86	2.1	329.7		14.50	0.00	0.00	1.93		10.35	18.92	83.84	86.68	08-Aug-16 14:00:00		24.85	18.92	83.84	88.61
08-Aug-16 15:00:00	08-Aug-16 16:00:00		47.86	0.00	0.00	5.80	2.1	329.7		15.78	0.00	0.00	1.91		10.35	18.92	83.84	86.68	08-Aug-16 15:00:00		26.13	18.92	83.84	88.59
08-Aug-16 16:00:00	08-Aug-16 17:00:00		44.11	0.00	0.00	19.33	2.1	329.7		14.54	0.00	0.00	6.37		10.35	18.92	83.84	86.68	08-Aug-16 16:00:00		24.89	18.92	83.84	93.05
08-Aug-16 17:00:00	08-Aug-16 18:00:00		44.62	0.00	0.00	6.04	2.1	329.7		14.71	0.00	0.00	1.99		10.35	18.92	83.84	86.68	08-Aug-16 17:00:00		25.06	18.92	83.84	88.67
08-Aug-16 18:00:00	08-Aug-16 19:00:00		46.52	0.00	0.00	93.64	2.1	329.7		15.34	0.00	0.00	30.87		10.35	18.92	83.84	86.68	08-Aug-16 18:00:00		25.69	18.92	83.84	117.55
08-Aug-16 19:00:00	08-Aug-16 20:00:00		51.23	0.00	0.00	6.07	2.1	329.7		16.89	0.00	0.00	2.00		10.35	18.92	83.84	86.68	08-Aug-16 19:00:00		27.24	18.92	83.84	88.68
08-Aug-16 20:00:00	08-Aug-16 21:00:00		52.52	0.00	0.00	6.23	2.1	329.7		17.32	0.00	0.00	2.05		10.35	18.92	83.84	86.68	08-Aug-16 20:00:00		27.67	18.92	83.84	88.73
08-Aug-16 21:00:00	08-Aug-16 22:00:00		56.16	0.00	0.00	115.45	2.1	329.7		18.52	0.00	0.00	38.06		10.35	18.92	83.84	86.68	08-Aug-16 21:00:00		28.87	18.92	83.84	124.74
08-Aug-16 22:00:00	08-Aug-16 23:00:00		30.95	0.00	0.00	6.61	2.1	329.7		10.21	0.00	0.00	2.18		10.35	18.92	83.84	86.68	08-Aug-16 22:00:00		20.56	18.92	83.84	88.86
08-Aug-16 23:00:00	09-Aug-16 00:00:00		27.23	0.00	0.00	6.70	2.1	329.7		8.98	0.00	0.00	2.21		10.35	18.92	83.84	86.68	08-Aug-16 23:00:00		19.33	18.92	83.84	88.89
09-Aug-16 00:00:00	09-Aug-16 01:00:00		27.60	0.00	0.00	87.84	2.1	329.7		9.10	0.00	0.00	28.96		10.35	18.92	83.84	86.68	09-Aug-16 00:00:00		19.45	18.92	83.84	115.64
09-Aug-16 01:00:00	09-Aug-16 02:00:00		24.36	0.00	0.00	29.56	2.1	329.7		8.03	0.00	0.00	9.74		10.35	18.92	83.84	86.68	09-Aug-16 01:00:00		18.38	18.92	83.84	96.42
09-Aug-16 02:00:00	09-Aug-16 03:00:00		24.56	0.00	0.00	6.78	2.1	329.7		8.10	0.00	0.00	2.23		10.35	18.92	83.84	86.68	09-Aug-16 02:00:00		18.45	18.92	83.84	88.91
09-Aug-16 03:00:00	09-Aug-16 04:00:00		5.09	0.00	0.00	6.78	2.1	329.7		1.68	0.00	0.00	2.23		10.35	18.92	83.84	86.68	09-Aug-16 03:00:00		12.03	18.92	83.84	88.91
09-Aug-16 04:00:00	09-Aug-16 05:00:00		2.35	0.00	0.00	8.72	2.1	329.7		0.77	0.00	0.00	2.88		10.35	18.92	83.84	86.68	09-Aug-16 04:00:00		11.12	18.92	83.84	89.56
09-Aug-16 05:00:00	09-Aug-16 06:00:00		41.33	0.00	0.00	6.78	2.1	329.7		13.63	0.00	0.00	2.23		10.35	18.92	83.84	86.68	09-Aug-16 05:00:00		23.98	18.92	83.84	88.91
09-Aug-16 06:00:00	09-Aug-16 07:00:00		51.31	0.00	0.00	6.78	2.1	329.7		16.92	0.00	0.00	2.23		10.35	18.92	83.84	86.68	09-Aug-16 06:00:00		27.27	18.92	83.84	88.91
09-Aug-16 07:00:00	09-Aug-16 08:00:00		52.69	0.00	0.00	6.78	2.1	329.7		17.37	0.00	0.00	2.23		10.35	18.92	83.84	86.68	09-Aug-16 07:00:00		27.72	18.92	83.84	88.91
09-Aug-16 08:00:00	09-Aug-16 09:00:00		53.03	0.00	0.00	6.75	2.1	329.7		17.49	0.00	0.00	2.23		10.35	18.92	83.84	86.68	09-Aug-16 08:00:00		27.84	18.92	83.84	88.91
09-Aug-16 09:00:00	09-Aug-16 10:00:00		48.61	0.00	0.00	6.56	2.1	329.7		16.03	0.00	0.00	2.16		10.35	18.92	83.84	86.68	09-Aug-16 09:00:00		26.38	18.92	83.84	88.84
09-Aug-16 10:00:00	09-Aug-16 11:00:00		421.61	0.00	0.00	6.33	2.1	329.7		139.01	0.00	0.00	2.09		10.35	18.92	83.84	86.68	09-Aug-16 10:00:00		149.36	18.92	83.84	88.77
09-Aug-16 11:00:00	09-Aug-16 12:00:00		58.54	0.00	0.00	6.11	2.1	329.7		19.30	0.00	0.00	2.01		10.35	18.92	83.84	86.68	09-Aug-16 11:00:00		29.65	18.92	83.84	88.69
09-Aug-16 12:00:00	09-Aug-16 13:00:00		486.09	0.00	0.00	5.93	2.1	329.7		160.26	0.00	0.00	1.95		10.35	18.92	83.84	86.68	09-Aug-16 12:00:00		170.61	18.92	83.84	88.63
09-Aug-16 13:00:00	09-Aug-16 14:00:00		45.18	0.00	0.00	5.83	2.1	329.7		14.90	0.00	0.00	1.92		10.35	18.92	83.84	86.68	09-Aug-16 13:00:00		25.25	18.92	83.84	88.60
09-Aug-16 14:00:00	09-Aug-16 15:00:00		43.24	0.00	0.00	5.72	2.1	329.7		14.25	0.00	0.00	1.89		10.35	18.92	83.84	86.68	09-Aug-16 14:00:00		24.60	18.92	83.84	88.57
09-Aug-16 15:00:00	09-Aug-16 16:00:00		28.95	0.00	0.00	6.98	2.1	329.7		9.55	0.00	0.00	2.30		10.35	18.92	83.84	86.68	09-Aug-16 15:00:00		19.90	18.92	83.84	88.98
09-Aug-16 16:00:00	09-Aug-16 17:00:00		25.22	0.00	0.00	5.95	2.1	329.7		8.31	0.00	0.00	1.96		10.35	18.92	83.84	86.68	09-Aug-16 16:00:00		18.66	18.92	83.84	88.64
09-Aug-16 17:00:00	09-Aug-16 18:00:00		25.08	0.00	0.00	6.11	2.1	329.7		8.27	0.00	0.00	2.02		10.35	18.92	83.84	86.68	09-Aug-16 17:00:00		18.62	18.92	83.84	88.70
09-Aug-16 18:00:00	09-Aug-16 19:00:00		36.89	0.00	0.00	6.28	2.1	329.7		12.16	0.00	0.00	2.07		10.35	18.92	83.84	86.68	09-Aug-16 18:00:00		22.51	18.92	83.84	88.75
09-Aug-16 19:00:00	09-Aug-16 20:00:00		22.97	0.00	0.00	6.36	2.1	329.7		7.57	0.00	0.00	2.10		10.35	18.92	83.84	86.68	09-Aug-16 19:00:00		17.92	18.92	83.84	88.78
09-Aug-16 20:00:00	09-Aug-16 21:00:00		19.59	0.00	0.00	6.42	2.1	329.7		6.46	0.00	0.00	2.12		10.35	18.92	83.84	86.68	09-Aug-16 20:00:00		16.81	18.92	83.84	88.80
09-Aug-16 21:00:00	09-Aug-16 22:00:00		16.07	0.00	0.00	6.47	2.1	329.7		5.30	0.00	0.00	2.13		10.35	18.92	83.84	86.68	09-Aug-16 21:00:00		15.65	18.92	83.84	88.81
09-Aug-16 22:00:00	09-Aug-16 23:00:00		19.59	0.00	0.00	6.52	2.1	329.7		6.46	0.00	0.00	2.15		10.35	18.92	83.84	86.68	09-Aug-16 22:00:00		16.81	18.92	83.84	88.83
09-Aug-16 23:00:00	10-Aug-16 00:00:00		14.08	0.00	0.00	6.58	2.1	329.7		4.64	0.00	0.00	2.17		10.35	18.92	83.84	86.68	09-Aug-16 23:00:00		14.99	18.92	83.84	88.85
10-Aug-16 00:00:00	10-Aug-16 01:00:00		18.06	0.00	0.00	7.81	2.1	329.7		5.95	0.00	0.00	2.58		10.35	18.92	83.84	86.68	10-Aug-16 00:00:00		16.30	18.92	83.84	89.26
10-Aug-16 01:00:00	10-Aug-16 02:00:00		17.91	0.00	0.00	6.69	2.1	329.7		5.91	0.00	0.00	2.21		10.35	18.92	83.84	86.68	10-Aug-16 01:00:00		16.26	18.92	83.84	88.89
10-Aug-16 02:00:00	10-Aug-16 03:00:00		18.07	0.00	0.00	117.85	2.1	329.7		5.96	0.00	0.00	38.86		10.35	18.92	83.84	86.68	10-Aug-16 02:00:00		16.31	18.92	83.84	125.54
10-Aug-16 03:00:00	10-Aug-16 04:00:00		17.04	0.00	0.00	6.78	2.1	329.7		5.62	0.00	0.00	2.23		10.35	18.92	83.84	86.68	10-Aug-16 03:00:00		15.97	18.92	83.84	88.91
10-Aug-16 04:00:00	10-Aug-16 05:00:00		9.06	0.00	0.00	6.78	2.1	329.7		2.99	0.00	0.00	2.24		10.35	18.92	83.84	86.68	10-Aug-16 04:00:00		13.34	18.92	83.84	88.92
10-Aug-16 05:00:00	10-Aug-16 06:00:00		46.09	0.00	0.00	6.79	2.1	329.7		15.20	0.00	0.00	2.24		10.35	18.92	83.84	86.68	10-Aug-16 05:00:00		25.55	18.92	83.84	88.92
10-Aug-16 06:00:00	10-Aug-16 07:00:00		48.61	0.00	0.00	6.79	2.1	329.7		16.03	0.00	0.00	2.24		10.35	18.92	83.84	86.68	10-Aug-16 06:00:00		26.38	18.92	83.84	88.92
10-Aug-16 07:00:00	10-Aug-16 08:00:00		40.84	0.00	0.00	6.70	2.1	329.7		13.46	0.00	0.00	2.21		10.35	18.92	83.84	86.68	10-Aug-16 07:00:00		23.81	18.92	83.84	88.89
10-Aug-16 08:00:00	10-Aug-16 09:00:00		31.78	0.00	0.00	6.58	2.1	329.7		10.48	0.00	0.00	2.17		10.35	18.92	83.84	86.68	10-Aug-16 08:00:00		20.83	18.92	83.84	88.85
10-Aug-16 09:00:00	10-Aug-16 10:00:00		32.35	0.00	0.00	6.46	2.1	329.7		10.67	0.00	0.00	2.13		10.35	18.92	83.84	86.68	10-Aug-16 09:00:00		21.02	18.92	83.84	88.81
10-Aug-16 10:00:00	10-Aug-16 11:00:00		32.57	0.00	0.00	6.34	2.1	329.7		10.74	0.00	0.00	2.09		10.35	18.92	83.84	86.68	10-Aug-16 10:00:00		21.09	18.92	83.84	88.77
10-Aug-16 11:00:00	10-Aug-16 12:00:00		203.68	0.00	0.00	101.82	2.1	329.7		67.15	0.00	0.00	33.57		10.35	18.92	83.84	86.68	10-Aug-16 11:00:00		77.50	18.92	83.84	120.25
10-Aug-16 12:00:00	10-Aug-16 13:00:00		333.56	0.00	0.00	6.36	2.1	329.7		109.98	0.00	0.00	2.10		10.35	18.92	83.84	86.68	10-Aug-16 12:00:00		120.33	18.92	83.84	88.78
10-Aug-16 13:00:00	10-Aug-16 14:00:00		667.17	0.00	0.00	6.50	2.1	329.7		219.97	0.00	0.00	2.14		10.35	18.92	83.84	86.68	10-Aug-16 13:00:00		230.32	18.92	83.84	88.82
10-Aug-16 14:00:00	10-Aug-16 15:00:00		643.16	0.00	0.00	6.65	2.1	329.7		212.05	0.00	0.00	2.19		10.35	18.92	83.84	86.68	10-Aug-16 14:00:00		222.40	18.92	83.84	88.87
10-Aug-16 15:00:00	10-Aug-16 16:00:00		974.41	0.00	0.00	6.71	2.1	329.7		321.26	0.00	0.00	2.21		10.35	18.92	83.84	86.68	10-Aug-16 15:00:00		331.61	18.92	83.84	88.89
10-Aug-16 16:00:00	10-Aug-16 17:00:00		905.90	0.00	0.00	6.54	2.1	329.7		298.68	0.00	0.00	2.16		10.35	18.92	83.84	86.68	10-Aug-16 16:00:00		309.03	18.92	83.84	88.84
10-Aug-16 17:00:00	10-Aug-16 18:00:00		882.14	0.00	0.00	6.37	2.1	329.7		290.84	0.00	0.00	2.10		10.35	18.92	83.84	86.68	10-Aug-16 17:00:00		301.19	18.92	83.84	88.78
10-Aug-16 18:00:00	10-Aug-16 19:00:00		809.53	0.00	0.00	6.19	2.1	329.7		266.90	0.00	0.00	2.04		10.35	18.92	83.84	86.68	10-Aug-16 18:00:00		277.25	18.92	83.84	88.72
10-Aug-16 19:00:00	10-Aug-16 20:00:00		850.91	0.00	0.00	7.15	2.1	329.7		280.54	0.00	0.00	2.36		10.35	18.92	83.84	86.68	10-Aug-16 19:00:00		290.89	18.92	83.84	89.04
10-Aug-16 20:00:00	10-Aug-16 21:00:00		901.91	0.00	0.00	6.18	2.1	329.7		297.36	0.00	0.00	2.04		10.35	18.92	83.84	86.68	10-Aug-16 20:00:00		307.71	18.92	83.84	88.72
10-Aug-16 21:00:00	10-Aug-16 22:00:00		818.14	0.00	0.00	17.12	2.1	329.7		269.74	0.00	0.00	5.65		10.35	18.92	83.84	86.68	10-Aug-16 21:00:00		280.09	18.92	83.84	92.33
10-Aug-16 22:00:00	10-Aug-16 23:00:00		803.91	0.00	0.00	6.33	2.1	329.7		265.05	0.00	0.00	2.09		10.35	18.92	83.84	86.68	10-Aug-16 22:00:00		275.40	18.92	83.84	88.77
10-Aug-16 23:00:00	11-Aug-16 00:00:00		720.54	0.00	0.00	7.35	2.1	329.7		237.56	0.00	0.00	2.42		10.35	18.92	83.84	86.68	10-Aug-16 23:00:00		247.91	18.92	83.84	89.10
11-Aug-16 00:00:00	11-Aug-16 01:00:00		383.93	0.00	0.00	6.32	2.1	329.7		126.58	0.00	0.00	2.08		10.35	18.92	83.84	86.68	11-Aug-16 00:00:00		136.93	18.92	83.84	88.76
11-Aug-16 01:00:00	11-Aug-16 02:00:00		61.01	0.00	0.00	7.47	2.1	329.7		20.11	0.00	0.00	2.46		10.35	18.92	83.84	86.68	11-Aug-16 01:00:00		30.46	18.92	83.84	89.14
11-Aug-16 02:00:00	11-Aug-16 03:00:00		34.92	0.00	0.00	6.56	2.1	329.7		11.51	0.00	0.00	2.16		10.35	18.92	83.84	86.68	11-Aug-16 02:00:00		21.86	18.92	83.84	88.84
11-Aug-16 03:00:00	11-Aug-16 04:00:00		67.61	0.00	0.00	6.62	2.1	329.7		22.29	0.00	0.00	2.18		10.35	18.92	83.84	86.68	11-Aug-16 03:00:00		32.64	18.92	83.84	88.86
11-Aug-16 04:00:00	11-Aug-16 05:00:00		69.85	0.00	0.00	6.68	2.1	329.7		23.03	0.00	0.00	2.20		10.35	18.92	83.84	86.68	11-Aug-16 04:00:00		33.38	18.92	83.84	88.88
11-Aug-16 05:00:00	11-Aug-16 06:00:00		68.60	0.00	0.00	6.71	2.1	329.7		22.62	0.00	0.00	2.21		10.35	18.92	83.84	86.68	11-Aug-16 05:00:00		32.97	18.92	83.84	88.89
11-Aug-16 06:00:00	11-Aug-16 07:00:00		66.10	0.00	0.00	6.76	2.1	329.7		21.79	0.00	0.00	2.23		10.35	18.92	83.84	86.68	11-Aug-16 06:00:00		32.14	18.92	83.84	88.91
11-Aug-16 07:00:00	11-Aug-16 08:00:00		56.74	0.00	0.00	6.81	2.1	329.7		18.71	0.00	0.00	2.24		10.35	18.92	83.84	86.68	11-Aug-16 07:00:00		29.06	18.92	83.84	88.92
11-Aug-16 08:00:00	11-Aug-16 09:00:00		57.64	0.00	0.00	6.86	2.1	329.7		19.00	0.00	0.00	2.26		10.35	18.92	83.84	86.68	11-Aug-16 08:00:00		29.35	18.92	83.84	88.94
11-Aug-16 09:00:00	11-Aug-16 10:00:00		56.12	0.00	0.00	6.68	2.1	329.7		18.50	0.00	0.00	2.20		10.35	18.92	83.84	86.68	11-Aug-16 09:00:00		28.85	18.92	83.84	88.88
11-Aug-16 10:00:00	11-Aug-16 11:00:00		55.90	0.00	0.00	40.56	2.1	329.7		18.43	0.00	0.00	13.37		10.35	18.92	83.84	86.68	11-Aug-16 10:00:00		28.78	18.92	83.84	100.05
11-Aug-16 11:00:00	11-Aug-16 12:00:00		47.04	0.00	0.00	5.89	2.1	329.7		15.51	0.00	0.00	1.94		10.35	18.92	83.84	86.68	11-Aug-16 11:00:00		25.86	18.92	83.84	88.62
11-Aug-16 12:00:00	11-Aug-16 13:00:00		18.11	0.00	0.00	11.64	2.1	329.7		5.97	0.00	0.00	3.84		10.35	18.92	83.84	86.68	11-Aug-16 12:00:00		16.32	18.92	83.84	90.52
11-Aug-16 13:00:00	11-Aug-16 14:00:00		32.30	0.00	0.00	5.66	2.1	329.7		10.65	0.00	0.00	1.87		10.35	18.92	83.84	86.68	11-Aug-16 13:00:00		21.00	18.92	83.84	88.55
11-Aug-16 14:00:00	11-Aug-16 15:00:00		36.40	0.00	0.00	35.97	2.1	329.7		12.00	0.00	0.00	11.86		10.35	18.92	83.84	86.68	11-Aug-16 14:00:00		22.35	18.92	83.84	98.54
11-Aug-16 15:00:00	11-Aug-16 16:00:00		49.01	0.00	0.00	5.65	2.1	329.7		16.16	0.00	0.00	1.86		10.35	18.92	83.84	86.68	11-Aug-16 15:00:00		26.51	18.92	83.84	88.54
11-Aug-16 16:00:00	11-Aug-16 17:00:00		41.89	0.00	0.00	5.65	2.1	329.7		13.81	0.00	0.00	1.86		10.35	18.92	83.84	86.68	11-Aug-16 16:00:00		24.16	18.92	83.84	88.54
11-Aug-16 17:00:00	11-Aug-16 18:00:00		40.74	0.00	0.00	96.67	2.1	329.7		13.43	0.00	0.00	31.87		10.35	18.92	83.84	86.68	11-Aug-16 17:00:00		23.78	18.92	83.84	118.55
11-Aug-16 18:00:00	11-Aug-16 19:00:00		39.26	0.00	0.00	6.62	2.1	329.7		12.94	0.00	0.00	2.18		10.35	18.92	83.84	86.68	11-Aug-16 18:00:00		23.29	18.92	83.84	88.86
11-Aug-16 19:00:00	11-Aug-16 20:00:00		42.89	0.00	0.00	5.70	2.1	329.7		14.14	0.00	0.00	1.88		10.35	18.92	83.84	86.68	11-Aug-16 19:00:00		24.49	18.92	83.84	88.56
11-Aug-16 20:00:00	11-Aug-16 21:00:00		45.02	0.00	0.00	5.76	2.1	329.7		14.84	0.00	0.00	1.90		10.35	18.92	83.84	86.68	11-Aug-16 20:00:00		25.19	18.92	83.84	88.58
11-Aug-16 21:00:00	11-Aug-16 22:00:00		48.96	0.00	0.00	5.82	2.1	329.7		16.14	0.00	0.00	1.92		10.35	18.92	83.84	86.68	11-Aug-16 21:00:00		26.49	18.92	83.84	88.60
11-Aug-16 22:00:00	11-Aug-16 23:00:00		44.42	0.00	0.00	12.46	2.1	329.7		14.65	0.00	0.00	4.11		10.35	18.92	83.84	86.68	11-Aug-16 22:00:00		25.00	18.92	83.84	90.79
11-Aug-16 23:00:00	12-Aug-16 00:00:00		30.30	0.00	0.00	5.81	2.1	329.7		9.99	0.00	0.00	1.91		10.35	18.92	83.84	86.68	11-Aug-16 23:00:00		20.34	18.92	83.84	88.59
12-Aug-16 00:00:00	12-Aug-16 01:00:00		36.40	0.00	0.00	6.02	2.1	329.7		12.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	12-Aug-16 00:00:00		22.35	18.92	83.84	88.66
12-Aug-16 01:00:00	12-Aug-16 02:00:00		26.75	0.00	0.00	5.99	2.1	329.7		8.82	0.00	0.00	1.98		10.35	18.92	83.84	86.68	12-Aug-16 01:00:00		19.17	18.92	83.84	88.66
12-Aug-16 02:00:00	12-Aug-16 03:00:00		19.17	0.00	0.00	6.08	2.1	329.7		6.32	0.00	0.00	2.01		10.35	18.92	83.84	86.68	12-Aug-16 02:00:00		16.67	18.92	83.84	88.69
12-Aug-16 03:00:00	12-Aug-16 04:00:00		25.86	0.00	0.00	6.17	2.1	329.7		8.53	0.00	0.00	2.03		10.35	18.92	83.84	86.68	12-Aug-16 03:00:00		18.88	18.92	83.84	88.71
12-Aug-16 04:00:00	12-Aug-16 05:00:00		22.83	0.00	0.00	6.28	2.1	329.7		7.53	0.00	0.00	2.07		10.35	18.92	83.84	86.68	12-Aug-16 04:00:00		17.88	18.92	83.84	88.75
12-Aug-16 05:00:00	12-Aug-16 06:00:00		28.45	0.00	0.00	6.34	2.1	329.7		9.38	0.00	0.00	2.09		10.35	18.92	83.84	86.68	12-Aug-16 05:00:00		19.73	18.92	83.84	88.77
12-Aug-16 06:00:00	12-Aug-16 07:00:00		54.69	0.00	0.00	6.37	2.1	329.7		18.03	0.00	0.00	2.10		10.35	18.92	83.84	86.68	12-Aug-16 06:00:00		28.38	18.92	83.84	88.78
12-Aug-16 07:00:00	12-Aug-16 08:00:00		56.33	0.00	0.00	6.39	2.1	329.7		18.57	0.00	0.00	2.11		10.35	18.92	83.84	86.68	12-Aug-16 07:00:00		28.92	18.92	83.84	88.79
12-Aug-16 08:00:00	12-Aug-16 09:00:00		45.16	0.00	0.00	7.30	2.1	329.7		14.89	0.00	0.00	2.41		10.35	18.92	83.84	86.68	12-Aug-16 08:00:00		25.24	18.92	83.84	89.09
12-Aug-16 09:00:00	12-Aug-16 10:00:00		45.12	0.00	0.00	6.20

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
14-Aug-16 11:00:00	14-Aug-16 12:00:00		33.45	0.00	0.00	6.53	2.1	329.7		11.03	0.00	0.00	2.15		10.35	18.92	83.84	86.68	14-Aug-16 11:00:00		**21.38**	**18.92**	**83.84**	**88.83**
14-Aug-16 12:00:00	14-Aug-16 13:00:00		22.04	0.00	0.00	5.41	2.1	329.7		7.27	0.00	0.00	1.78		10.35	18.92	83.84	86.68	14-Aug-16 12:00:00		**17.62**	**18.92**	**83.84**	**88.46**
14-Aug-16 13:00:00	14-Aug-16 14:00:00		37.62	0.00	0.00	20.02	2.1	329.7		12.40	0.00	0.00	6.60		10.35	18.92	83.84	86.68	14-Aug-16 13:00:00		**22.75**	**18.92**	**83.84**	**93.28**
14-Aug-16 14:00:00	14-Aug-16 15:00:00		56.21	0.00	0.00	5.11	2.1	329.7		18.53	0.00	0.00	1.68		10.35	18.92	83.84	86.68	14-Aug-16 14:00:00		**28.88**	**18.92**	**83.84**	**88.36**
14-Aug-16 15:00:00	14-Aug-16 16:00:00		12.59	0.00	0.00	8.09	2.1	329.7		4.15	0.00	0.00	2.67		10.35	18.92	83.84	86.68	14-Aug-16 15:00:00		**14.50**	**18.92**	**83.84**	**89.35**
14-Aug-16 16:00:00	14-Aug-16 17:00:00		0.00	0.00	0.00	5.42	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	14-Aug-16 16:00:00		**10.35**	**18.92**	**83.84**	**88.47**
14-Aug-16 17:00:00	14-Aug-16 18:00:00		0.24	0.00	0.00	86.61	2.1	329.7		0.08	0.00	0.00	28.55		10.35	18.92	83.84	86.68	14-Aug-16 17:00:00		**10.43**	**18.92**	**83.84**	**115.23**
14-Aug-16 18:00:00	14-Aug-16 19:00:00		32.21	0.00	0.00	6.07	2.1	329.7		10.62	0.00	0.00	2.00		10.35	18.92	83.84	86.68	14-Aug-16 18:00:00		**20.97**	**18.92**	**83.84**	**88.68**
14-Aug-16 19:00:00	14-Aug-16 20:00:00		25.76	0.00	0.00	8.16	2.1	329.7		8.49	0.00	0.00	2.69		10.35	18.92	83.84	86.68	14-Aug-16 19:00:00		**18.84**	**18.92**	**83.84**	**89.37**
14-Aug-16 20:00:00	14-Aug-16 21:00:00		25.73	0.00	0.00	7.07	2.1	329.7		8.48	0.00	0.00	2.33		10.35	18.92	83.84	86.68	14-Aug-16 20:00:00		**18.83**	**18.92**	**83.84**	**89.01**
14-Aug-16 21:00:00	14-Aug-16 22:00:00		48.66	0.00	0.00	7.16	2.1	329.7		16.04	0.00	0.00	2.36		10.35	18.92	83.84	86.68	14-Aug-16 21:00:00		**26.39**	**18.92**	**83.84**	**89.04**
14-Aug-16 22:00:00	14-Aug-16 23:00:00		46.76	0.00	0.00	6.25	2.1	329.7		15.42	0.00	0.00	2.06		10.35	18.92	83.84	86.68	14-Aug-16 22:00:00		**25.77**	**18.92**	**83.84**	**88.74**
14-Aug-16 23:00:00	15-Aug-16 00:00:00		29.16	0.00	0.00	6.25	2.1	329.7		9.61	0.00	0.00	2.06		10.35	18.92	83.84	86.68	14-Aug-16 23:00:00		**19.96**	**18.92**	**83.84**	**88.74**
15-Aug-16 00:00:00	15-Aug-16 01:00:00		7.10	0.00	0.00	6.57	2.1	329.7		2.34	0.00	0.00	2.17		10.35	18.92	83.84	86.68	15-Aug-16 00:00:00		**12.69**	**18.92**	**83.84**	**88.85**
15-Aug-16 01:00:00	15-Aug-16 02:00:00		6.10	0.00	0.00	6.22	2.1	329.7		2.01	0.00	0.00	2.05		10.35	18.92	83.84	86.68	15-Aug-16 01:00:00		**12.36**	**18.92**	**83.84**	**88.73**
15-Aug-16 02:00:00	15-Aug-16 03:00:00		9.13	0.00	0.00	6.21	2.1	329.7		3.01	0.00	0.00	2.05		10.35	18.92	83.84	86.68	15-Aug-16 02:00:00		**13.36**	**18.92**	**83.84**	**88.73**
15-Aug-16 03:00:00	15-Aug-16 04:00:00		8.99	0.00	0.00	6.20	2.1	329.7		2.96	0.00	0.00	2.04		10.35	18.92	83.84	86.68	15-Aug-16 03:00:00		**13.31**	**18.92**	**83.84**	**88.72**
15-Aug-16 04:00:00	15-Aug-16 05:00:00		27.32	0.00	0.00	60.55	2.1	329.7		9.01	0.00	0.00	19.96		10.35	18.92	83.84	86.68	15-Aug-16 04:00:00		**19.36**	**18.92**	**83.84**	**106.64**
15-Aug-16 05:00:00	15-Aug-16 06:00:00		14.84	0.00	0.00	6.20	2.1	329.7		4.89	0.00	0.00	2.04		10.35	18.92	83.84	86.68	15-Aug-16 05:00:00		**15.24**	**18.92**	**83.84**	**88.72**
15-Aug-16 06:00:00	15-Aug-16 07:00:00		45.90	0.00	0.00	69.89	2.1	329.7		15.13	0.00	0.00	23.04		10.35	18.92	83.84	86.68	15-Aug-16 06:00:00		**25.48**	**18.92**	**83.84**	**109.72**
15-Aug-16 07:00:00	15-Aug-16 08:00:00		61.48	0.00	0.00	6.21	2.1	329.7		20.27	0.00	0.00	2.05		10.35	18.92	83.84	86.68	15-Aug-16 07:00:00		**30.62**	**18.92**	**83.84**	**88.73**
15-Aug-16 08:00:00	15-Aug-16 09:00:00		66.74	0.00	0.00	87.04	2.1	329.7		22.01	0.00	0.00	28.70		10.35	18.92	83.84	86.68	15-Aug-16 08:00:00		**32.36**	**18.92**	**83.84**	**115.38**
15-Aug-16 09:00:00	15-Aug-16 10:00:00		73.31	0.00	0.00	6.06	2.1	329.7		24.17	0.00	0.00	2.00		10.35	18.92	83.84	86.68	15-Aug-16 09:00:00		**34.52**	**18.92**	**83.84**	**88.68**
15-Aug-16 10:00:00	15-Aug-16 11:00:00		42.41	0.00	0.00	6.72	2.1	329.7		13.98	0.00	0.00	2.21		10.35	18.92	83.84	86.68	15-Aug-16 10:00:00		**24.33**	**18.92**	**83.84**	**88.89**
15-Aug-16 11:00:00	15-Aug-16 12:00:00		10.17	0.00	0.00	5.53	2.1	329.7		3.35	0.00	0.00	1.82		10.35	18.92	83.84	86.68	15-Aug-16 11:00:00		**13.70**	**18.92**	**83.84**	**88.50**
15-Aug-16 12:00:00	15-Aug-16 13:00:00		22.12	0.00	0.00	5.40	2.1	329.7		7.29	0.00	0.00	1.78		10.35	18.92	83.84	86.68	15-Aug-16 12:00:00		**17.64**	**18.92**	**83.84**	**88.46**
15-Aug-16 13:00:00	15-Aug-16 14:00:00		35.90	0.00	0.00	5.27	2.1	329.7		11.84	0.00	0.00	1.74		10.35	18.92	83.84	86.68	15-Aug-16 13:00:00		**22.19**	**18.92**	**83.84**	**88.42**
15-Aug-16 14:00:00	15-Aug-16 15:00:00		31.81	0.00	0.00	51.85	2.1	329.7		10.49	0.00	0.00	17.10		10.35	18.92	83.84	86.68	15-Aug-16 14:00:00		**20.84**	**18.92**	**83.84**	**103.78**
15-Aug-16 15:00:00	15-Aug-16 16:00:00		13.95	0.00	0.00	5.08	2.1	329.7		4.60	0.00	0.00	1.68		10.35	18.92	83.84	86.68	15-Aug-16 15:00:00		**14.95**	**18.92**	**83.84**	**88.36**
15-Aug-16 16:00:00	15-Aug-16 17:00:00		1.31	0.00	0.00	93.79	2.1	329.7		0.43	0.00	0.00	30.92		10.35	18.92	83.84	86.68	15-Aug-16 16:00:00		**10.78**	**18.92**	**83.84**	**117.60**
15-Aug-16 17:00:00	15-Aug-16 18:00:00		6.42	0.00	0.00	5.08	2.1	329.7		2.12	0.00	0.00	1.68		10.35	18.92	83.84	86.68	15-Aug-16 17:00:00		**12.47**	**18.92**	**83.84**	**88.36**
15-Aug-16 18:00:00	15-Aug-16 19:00:00		4.01	0.00	0.00	5.08	2.1	329.7		1.32	0.00	0.00	1.68		10.35	18.92	83.84	86.68	15-Aug-16 18:00:00		**11.67**	**18.92**	**83.84**	**88.36**
15-Aug-16 19:00:00	15-Aug-16 20:00:00		1.37	0.00	0.00	5.08	2.1	329.7		0.45	0.00	0.00	1.68		10.35	18.92	83.84	86.68	15-Aug-16 19:00:00		**10.80**	**18.92**	**83.84**	**88.36**
15-Aug-16 20:00:00	15-Aug-16 21:00:00		2.51	0.00	0.00	5.16	2.1	329.7		0.83	0.00	0.00	1.70		10.35	18.92	83.84	86.68	15-Aug-16 20:00:00		**11.18**	**18.92**	**83.84**	**88.38**
15-Aug-16 21:00:00	15-Aug-16 22:00:00		4.48	0.00	0.00	5.40	2.1	329.7		1.48	0.00	0.00	1.78		10.35	18.92	83.84	86.68	15-Aug-16 21:00:00		**11.83**	**18.92**	**83.84**	**88.46**
15-Aug-16 22:00:00	15-Aug-16 23:00:00		7.95	0.00	0.00	6.53	2.1	329.7		2.62	0.00	0.00	2.15		10.35	18.92	83.84	86.68	15-Aug-16 22:00:00		**12.97**	**18.92**	**83.84**	**88.83**
15-Aug-16 23:00:00	16-Aug-16 00:00:00		26.00	0.00	0.00	5.77	2.1	329.7		8.57	0.00	0.00	1.90		10.35	18.92	83.84	86.68	15-Aug-16 23:00:00		**18.92**	**18.92**	**83.84**	**88.58**
16-Aug-16 00:00:00	16-Aug-16 01:00:00		25.26	0.00	0.00	5.89	2.1	329.7		8.33	0.00	0.00	1.94		10.35	18.92	83.84	86.68	16-Aug-16 00:00:00		**18.68**	**18.92**	**83.84**	**88.62**
16-Aug-16 01:00:00	16-Aug-16 02:00:00		39.44	0.00	0.00	83.05	2.1	329.7		13.00	0.00	0.00	27.38		10.35	18.92	83.84	86.68	16-Aug-16 01:00:00		**23.35**	**18.92**	**83.84**	**114.06**
16-Aug-16 02:00:00	16-Aug-16 03:00:00		54.66	0.00	0.00	6.17	2.1	329.7		18.02	0.00	0.00	2.03		10.35	18.92	83.84	86.68	16-Aug-16 02:00:00		**28.37**	**18.92**	**83.84**	**88.71**
16-Aug-16 03:00:00	16-Aug-16 04:00:00		17.49	0.00	0.00	6.18	2.1	329.7		5.77	0.00	0.00	2.04		10.35	18.92	83.84	86.68	16-Aug-16 03:00:00		**16.12**	**18.92**	**83.84**	**88.72**
16-Aug-16 04:00:00	16-Aug-16 05:00:00		3.65	0.00	0.00	6.20	2.1	329.7		1.20	0.00	0.00	2.04		10.35	18.92	83.84	86.68	16-Aug-16 04:00:00		**11.55**	**18.92**	**83.84**	**88.72**
16-Aug-16 05:00:00	16-Aug-16 06:00:00		10.93	0.00	0.00	7.05	2.1	329.7		3.61	0.00	0.00	2.32		10.35	18.92	83.84	86.68	16-Aug-16 05:00:00		**13.96**	**18.92**	**83.84**	**89.00**
16-Aug-16 06:00:00	16-Aug-16 07:00:00		24.18	0.00	0.00	6.21	2.1	329.7		7.97	0.00	0.00	2.05		10.35	18.92	83.84	86.68	16-Aug-16 06:00:00		**18.32**	**18.92**	**83.84**	**88.73**
16-Aug-16 07:00:00	16-Aug-16 08:00:00		27.09	0.00	0.00	6.21	2.1	329.7		8.93	0.00	0.00	2.05		10.35	18.92	83.84	86.68	16-Aug-16 07:00:00		**19.28**	**18.92**	**83.84**	**88.73**
16-Aug-16 08:00:00	16-Aug-16 09:00:00		28.61	0.00	0.00	6.21	2.1	329.7		9.43	0.00	0.00	2.05		10.35	18.92	83.84	86.68	16-Aug-16 08:00:00		**19.78**	**18.92**	**83.84**	**88.73**
16-Aug-16 09:00:00	16-Aug-16 10:00:00		27.78	0.00	0.00	6.42	2.1	329.7		9.16	0.00	0.00	2.12		10.35	18.92	83.84	86.68	16-Aug-16 09:00:00		**19.51**	**18.92**	**83.84**	**88.80**
16-Aug-16 10:00:00	16-Aug-16 11:00:00		28.26	0.00	0.00	6.00	2.1	329.7		9.32	0.00	0.00	1.98		10.35	18.92	83.84	86.68	16-Aug-16 10:00:00		**19.67**	**18.92**	**83.84**	**88.66**
16-Aug-16 11:00:00	16-Aug-16 12:00:00		11.22	0.00	0.00	5.73	2.1	329.7		3.70	0.00	0.00	1.89		10.35	18.92	83.84	86.68	16-Aug-16 11:00:00		**14.05**	**18.92**	**83.84**	**88.57**
16-Aug-16 12:00:00	16-Aug-16 13:00:00		40.02	0.00	0.00	5.45	2.1	329.7		13.19	0.00	0.00	1.80		10.35	18.92	83.84	86.68	16-Aug-16 12:00:00		**23.54**	**18.92**	**83.84**	**88.48**
16-Aug-16 13:00:00	16-Aug-16 14:00:00		25.94	0.00	0.00	5.21	2.1	329.7		8.55	0.00	0.00	1.72		10.35	18.92	83.84	86.68	16-Aug-16 13:00:00		**18.90**	**18.92**	**83.84**	**88.40**
16-Aug-16 14:00:00	16-Aug-16 15:00:00		30.27	0.00	0.00	5.26	2.1	329.7		9.98	0.00	0.00	1.74		10.35	18.92	83.84	86.68	16-Aug-16 14:00:00		**20.33**	**18.92**	**83.84**	**88.42**
16-Aug-16 15:00:00	16-Aug-16 16:00:00		51.20	0.00	0.00	5.36	2.1	329.7		16.88	0.00	0.00	1.77		10.35	18.92	83.84	86.68	16-Aug-16 15:00:00		**27.23**	**18.92**	**83.84**	**88.45**
16-Aug-16 16:00:00	16-Aug-16 17:00:00		38.71	0.00	0.00	5.45	2.1	329.7		12.76	0.00	0.00	1.80		10.35	18.92	83.84	86.68	16-Aug-16 16:00:00		**23.11**	**18.92**	**83.84**	**88.48**
16-Aug-16 17:00:00	16-Aug-16 18:00:00		25.38	0.00	0.00	5.50	2.1	329.7		8.37	0.00	0.00	1.81		10.35	18.92	83.84	86.68	16-Aug-16 17:00:00		**18.72**	**18.92**	**83.84**	**88.49**
16-Aug-16 18:00:00	16-Aug-16 19:00:00		51.74	0.00	0.00	5.51	2.1	329.7		17.06	0.00	0.00	1.82		10.35	18.92	83.84	86.68	16-Aug-16 18:00:00		**27.41**	**18.92**	**83.84**	**88.50**
16-Aug-16 19:00:00	16-Aug-16 20:00:00		42.12	0.00	0.00	70.10	2.1	329.7		13.89	0.00	0.00	23.11		10.35	18.92	83.84	86.68	16-Aug-16 19:00:00		**24.24**	**18.92**	**83.84**	**109.79**
16-Aug-16 20:00:00	16-Aug-16 21:00:00		40.95	0.00	0.00	5.65	2.1	329.7		13.50	0.00	0.00	1.86		10.35	18.92	83.84	86.68	16-Aug-16 20:00:00		**23.85**	**18.92**	**83.84**	**88.54**
16-Aug-16 21:00:00	16-Aug-16 22:00:00		41.54	0.00	0.00	5.66	2.1	329.7		13.70	0.00	0.00	1.87		10.35	18.92	83.84	86.68	16-Aug-16 21:00:00		**24.05**	**18.92**	**83.84**	**88.55**
16-Aug-16 22:00:00	16-Aug-16 23:00:00		31.83	0.00	0.00	5.66	2.1	329.7		10.50	0.00	0.00	1.87		10.35	18.92	83.84	86.68	16-Aug-16 22:00:00		**20.85**	**18.92**	**83.84**	**88.55**
16-Aug-16 23:00:00	17-Aug-16 00:00:00		27.05	0.00	0.00	99.31	2.1	329.7		8.92	0.00	0.00	32.74		10.35	18.92	83.84	86.68	16-Aug-16 23:00:00		**19.27**	**18.92**	**83.84**	**119.42**
17-Aug-16 00:00:00	17-Aug-16 01:00:00		26.84	0.00	0.00	6.17	2.1	329.7		8.85	0.00	0.00	2.04		10.35	18.92	83.84	86.68	17-Aug-16 00:00:00		**19.20**	**18.92**	**83.84**	**88.72**
17-Aug-16 01:00:00	17-Aug-16 02:00:00		50.73	0.00	0.00	6.13	2.1	329.7		16.73	0.00	0.00	2.02		10.35	18.92	83.84	86.68	17-Aug-16 01:00:00		**27.08**	**18.92**	**83.84**	**88.70**
17-Aug-16 02:00:00	17-Aug-16 03:00:00		37.29	0.00	0.00	105.54	2.1	329.7		12.29	0.00	0.00	34.80		10.35	18.92	83.84	86.68	17-Aug-16 02:00:00		**22.64**	**18.92**	**83.84**	**121.48**
17-Aug-16 03:00:00	17-Aug-16 04:00:00		26.41	0.00	0.00	6.21	2.1	329.7		8.71	0.00	0.00	2.05		10.35	18.92	83.84	86.68	17-Aug-16 03:00:00		**19.06**	**18.92**	**83.84**	**88.73**
17-Aug-16 04:00:00	17-Aug-16 05:00:00		16.95	0.00	0.00	6.21	2.1	329.7		5.59	0.00	0.00	2.05		10.35	18.92	83.84	86.68	17-Aug-16 04:00:00		**15.94**	**18.92**	**83.84**	**88.73**
17-Aug-16 05:00:00	17-Aug-16 06:00:00		20.31	0.00	0.00	6.21	2.1	329.7		6.70	0.00	0.00	2.05		10.35	18.92	83.84	86.68	17-Aug-16 05:00:00		**17.05**	**18.92**	**83.84**	**88.73**
17-Aug-16 06:00:00	17-Aug-16 07:00:00		16.74	0.00	0.00	6.26	2.1	329.7		5.52	0.00	0.00	2.06		10.35	18.92	83.84	86.68	17-Aug-16 06:00:00		**15.87**	**18.92**	**83.84**	**88.74**
17-Aug-16 07:00:00	17-Aug-16 08:00:00		55.10	0.00	0.00	6.25	2.1	329.7		18.17	0.00	0.00	2.06		10.35	18.92	83.84	86.68	17-Aug-16 07:00:00		**28.52**	**18.92**	**83.84**	**88.74**
17-Aug-16 08:00:00	17-Aug-16 09:00:00		61.12	0.00	0.00	6.22	2.1	329.7		20.15	0.00	0.00	2.05		10.35	18.92	83.84	86.68	17-Aug-16 08:00:00		**30.50**	**18.92**	**83.84**	**88.73**
17-Aug-16 09:00:00	17-Aug-16 10:00:00		51.80	0.00	0.00	116.08	2.1	329.7		17.08	0.00	0.00	38.27		10.35	18.92	83.84	86.68	17-Aug-16 09:00:00		**27.43**	**18.92**	**83.84**	**124.95**
17-Aug-16 10:00:00	17-Aug-16 11:00:00		23.19	0.00	0.00	6.02	2.1	329.7		7.65	0.00	0.00	1.98		10.35	18.92	83.84	86.68	17-Aug-16 10:00:00		**18.00**	**18.92**	**83.84**	**88.66**
17-Aug-16 11:00:00	17-Aug-16 12:00:00		36.09	0.00	0.00	5.81	2.1	329.7		11.90	0.00	0.00	1.92		10.35	18.92	83.84	86.68	17-Aug-16 11:00:00		**22.25**	**18.92**	**83.84**	**88.60**
17-Aug-16 12:00:00	17-Aug-16 13:00:00		28.27	0.00	0.00	5.60	2.1	329.7		9.32	0.00	0.00	1.85		10.35	18.92	83.84	86.68	17-Aug-16 12:00:00		**19.67**	**18.92**	**83.84**	**88.53**
17-Aug-16 13:00:00	17-Aug-16 14:00:00		30.58	0.00	0.00	5.33	2.1	329.7		10.08	0.00	0.00	1.76		10.35	18.92	83.84	86.68	17-Aug-16 13:00:00		**20.43**	**18.92**	**83.84**	**88.44**
17-Aug-16 14:00:00	17-Aug-16 15:00:00		26.00	0.00	0.00	5.17	2.1	329.7		8.57	0.00	0.00	1.71		10.35	18.92	83.84	86.68	17-Aug-16 14:00:00		**18.92**	**18.92**	**83.84**	**88.39**
17-Aug-16 15:00:00	17-Aug-16 16:00:00		14.32	0.00	0.00	5.16	2.1	329.7		4.72	0.00	0.00	1.70		10.35	18.92	83.84	86.68	17-Aug-16 15:00:00		**15.07**	**18.92**	**83.84**	**88.38**
17-Aug-16 16:00:00	17-Aug-16 17:00:00		1.90	0.00	0.00	260.11	2.1	329.7		0.63	0.00	0.00	85.76		10.35	18.92	83.84	86.68	17-Aug-16 16:00:00		**10.98**	**18.92**	**83.84**	**172.44**
17-Aug-16 17:00:00	17-Aug-16 18:00:00		20.81	0.00	0.00	158.97	2.1	329.7		6.86	0.00	0.00	52.41		10.35	18.92	83.84	86.68	17-Aug-16 17:00:00		**17.21**	**18.92**	**83.84**	**139.09**
17-Aug-16 18:00:00	17-Aug-16 19:00:00		27.50	0.00	0.00	5.92	2.1	329.7		9.07	0.00	0.00	1.95		10.35	18.92	83.84	86.68	17-Aug-16 18:00:00		**19.42**	**18.92**	**83.84**	**88.63**
17-Aug-16 19:00:00	17-Aug-16 20:00:00		17.78	0.00	0.00	5.84	2.1	329.7		5.86	0.00	0.00	1.93		10.35	18.92	83.84	86.68	17-Aug-16 19:00:00		**16.21**	**18.92**	**83.84**	**88.61**
17-Aug-16 20:00:00	17-Aug-16 21:00:00		17.16	0.00	0.00	5.76	2.1	329.7		5.66	0.00	0.00	1.90		10.35	18.92	83.84	86.68	17-Aug-16 20:00:00		**16.01**	**18.92**	**83.84**	**88.58**
17-Aug-16 21:00:00	17-Aug-16 22:00:00		25.85	0.00	0.00	5.69	2.1	329.7		8.52	0.00	0.00	1.87		10.35	18.92	83.84	86.68	17-Aug-16 21:00:00		**18.87**	**18.92**	**83.84**	**88.55**
17-Aug-16 22:00:00	17-Aug-16 23:00:00		38.29	0.00	0.00	5.75	2.1	329.7		12.63	0.00	0.00	1.90		10.35	18.92	83.84	86.68	17-Aug-16 22:00:00		**22.98**	**18.92**	**83.84**	**88.58**
17-Aug-16 23:00:00	18-Aug-16 00:00:00		38.15	0.00	0.00	5.87	2.1	329.7		12.58	0.00	0.00	1.94		10.35	18.92	83.84	86.68	17-Aug-16 23:00:00		**22.93**	**18.92**	**83.84**	**88.62**
18-Aug-16 00:00:00	18-Aug-16 01:00:00		54.16	0.00	0.00	20.07	2.1	329.7		17.86	0.00	0.00	6.62		10.35	18.92	83.84	86.68	18-Aug-16 00:00:00		**28.21**	**18.92**	**83.84**	**93.30**
18-Aug-16 01:00:00	18-Aug-16 02:00:00		42.25	0.00	0.00	46.81	2.1	329.7		13.93	0.00	0.00	15.43		10.35	18.92	83.84	86.68	18-Aug-16 01:00:00		**24.28**	**18.92**	**83.84**	**102.11**
18-Aug-16 02:00:00	18-Aug-16 03:00:00		19.29	0.00	0.00	6.14	2.1	329.7		6.36	0.00	0.00	2.02		10.35	18.92	83.84	86.68	18-Aug-16 02:00:00		**16.71**	**18.92**	**83.84**	**88.70**
18-Aug-16 03:00:00	18-Aug-16 04:00:00		26.08	0.00	0.00	6.19	2.1	329.7		8.60	0.00	0.00	2.04		10.35	18.92	83.84	86.68	18-Aug-16 03:00:00		**18.95**	**18.92**	**83.84**	**88.72**
18-Aug-16 04:00:00	18-Aug-16 05:00:00		18.69	0.00	0.00	102.31	2.1	329.7		6.16	0.00	0.00	33.73		10.35	18.92	83.84	86.68	18-Aug-16 04:00:00		**16.51**	**18.92**	**83.84**	**120.41**
18-Aug-16 05:00:00	18-Aug-16 06:00:00		28.97	0.00	0.00	6.25	2.1	329.7		9.55	0.00	0.00	2.06		10.35	18.92	83.84	86.68	18-Aug-16 05:00:00		**19.90**	**18.92**	**83.84**	**88.74**
18-Aug-16 06:00:00	18-Aug-16 07:00:00		61.20	0.00	0.00	6.29	2.1	329.7		20.18	0.00	0.00	2.07		10.35	18.92	83.84	86.68	18-Aug-16 06:00:00		**30.53**	**18.92**	**83.84**	**88.75**
18-Aug-16 07:00:00	18-Aug-16 08:00:00		76.31	0.00	0.00	7.09	2.1	329.7		25.16	0.00	0.00	2.34		10.35	18.92	83.84	86.68	18-Aug-16 07:00:00		**35.51**	**18.92**	**83.84**	**89.02**
18-Aug-16 08:00:00	18-Aug-16 09:00:00		62.15	0.00	0.00	6.05

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
20-Aug-16 10:00:00	20-Aug-16 11:00:00		1.35	0.00	0.00	5.59	2.1	329.7		0.45	0.00	0.00	1.84		10.35	18.92	83.84	86.68	20-Aug-16 10:00:00	**10.80**	**18.92**	**83.84**	**88.52**	
20-Aug-16 11:00:00	20-Aug-16 12:00:00		12.68	0.00	0.00	5.29	2.1	329.7		4.18	0.00	0.00	1.74		10.35	18.92	83.84	86.68	20-Aug-16 11:00:00	**14.53**	**18.92**	**83.84**	**88.42**	
20-Aug-16 12:00:00	20-Aug-16 13:00:00		10.48	0.00	0.00	5.10	2.1	329.7		3.46	0.00	0.00	1.68		10.35	18.92	83.84	86.68	20-Aug-16 12:00:00	**13.81**	**18.92**	**83.84**	**88.36**	
20-Aug-16 13:00:00	20-Aug-16 14:00:00		23.26	0.00	0.00	5.12	2.1	329.7		7.67	0.00	0.00	1.69		10.35	18.92	83.84	86.68	20-Aug-16 13:00:00	**18.02**	**18.92**	**83.84**	**88.37**	
20-Aug-16 14:00:00	20-Aug-16 15:00:00		22.45	0.00	0.00	5.14	2.1	329.7		7.40	0.00	0.00	1.69		10.35	18.92	83.84	86.68	20-Aug-16 14:00:00	**17.75**	**18.92**	**83.84**	**88.37**	
20-Aug-16 15:00:00	20-Aug-16 16:00:00		14.74	0.00	0.00	5.15	2.1	329.7		4.86	0.00	0.00	1.70		10.35	18.92	83.84	86.68	20-Aug-16 15:00:00	**15.21**	**18.92**	**83.84**	**88.38**	
20-Aug-16 16:00:00	20-Aug-16 17:00:00		4.61	0.00	0.00	5.18	2.1	329.7		1.52	0.00	0.00	1.71		10.35	18.92	83.84	86.68	20-Aug-16 16:00:00	**11.87**	**18.92**	**83.84**	**88.39**	
20-Aug-16 17:00:00	20-Aug-16 18:00:00		27.69	0.00	0.00	5.42	2.1	329.7		9.13	0.00	0.00	1.79		10.35	18.92	83.84	86.68	20-Aug-16 17:00:00	**19.48**	**18.92**	**83.84**	**88.47**	
20-Aug-16 18:00:00	20-Aug-16 19:00:00		23.83	0.00	0.00	5.67	2.1	329.7		7.86	0.00	0.00	1.87		10.35	18.92	83.84	86.68	20-Aug-16 18:00:00	**18.21**	**18.92**	**83.84**	**88.55**	
20-Aug-16 19:00:00	20-Aug-16 20:00:00		28.34	0.00	0.00	5.93	2.1	329.7		9.34	0.00	0.00	1.96		10.35	18.92	83.84	86.68	20-Aug-16 19:00:00	**19.69**	**18.92**	**83.84**	**88.64**	
20-Aug-16 20:00:00	20-Aug-16 21:00:00		16.41	0.00	0.00	6.10	2.1	329.7		5.41	0.00	0.00	2.01		10.35	18.92	83.84	86.68	20-Aug-16 20:00:00	**15.76**	**18.92**	**83.84**	**88.69**	
20-Aug-16 21:00:00	20-Aug-16 22:00:00		21.68	0.00	0.00	6.08	2.1	329.7		7.15	0.00	0.00	2.00		10.35	18.92	83.84	86.68	20-Aug-16 21:00:00	**17.50**	**18.92**	**83.84**	**88.68**	
20-Aug-16 22:00:00	20-Aug-16 23:00:00		21.79	0.00	0.00	6.05	2.1	329.7		7.18	0.00	0.00	2.00		10.35	18.92	83.84	86.68	20-Aug-16 22:00:00	**17.53**	**18.92**	**83.84**	**88.68**	
20-Aug-16 23:00:00	21-Aug-16 00:00:00		8.85	0.00	0.00	115.99	2.1	329.7		2.92	0.00	0.00	38.24		10.35	18.92	83.84	86.68	20-Aug-16 23:00:00	**13.27**	**18.92**	**83.84**	**124.92**	
21-Aug-16 00:00:00	21-Aug-16 01:00:00		0.50	945.36	0.00	6.06	2.1	329.7		0.17	311.69	0.00	2.00		10.35	18.92	83.84	86.68	21-Aug-16 00:00:00	**10.52**	**330.61**	**83.84**	**88.68**	
21-Aug-16 01:00:00	21-Aug-16 02:00:00		5.25	1,292.49	0.00	6.01	2.1	329.7		1.73	426.13	0.00	1.98		10.35	18.92	83.84	86.68	21-Aug-16 01:00:00	**12.08**	**445.05**	**83.84**	**88.66**	
21-Aug-16 02:00:00	21-Aug-16 03:00:00		3.55	1,514.07	0.00	6.77	2.1	329.7		1.17	499.19	0.00	2.23		10.35	18.92	83.84	86.68	21-Aug-16 02:00:00	**11.52**	**518.11**	**83.84**	**88.91**	
21-Aug-16 03:00:00	21-Aug-16 04:00:00		5.17	1,509.21	0.00	6.09	2.1	329.7		1.70	497.59	0.00	2.01		10.35	18.92	83.84	86.68	21-Aug-16 03:00:00	**12.05**	**516.51**	**83.84**	**88.69**	
21-Aug-16 04:00:00	21-Aug-16 05:00:00		15.11	1,499.87	0.00	6.17	2.1	329.7		4.98	494.51	0.00	2.04		10.35	18.92	83.84	86.68	21-Aug-16 04:00:00	**15.33**	**513.43**	**83.84**	**88.72**	
21-Aug-16 05:00:00	21-Aug-16 06:00:00		23.83	863.48	0.00	80.96	2.1	329.7		7.86	284.69	0.00	26.69		10.35	18.92	83.84	86.68	21-Aug-16 05:00:00	**18.21**	**303.61**	**83.84**	**113.37**	
21-Aug-16 06:00:00	21-Aug-16 07:00:00		18.89	0.00	0.00	6.16	2.1	329.7		6.23	0.00	0.00	2.03		10.35	18.92	83.84	86.68	21-Aug-16 06:00:00	**16.58**	**18.92**	**83.84**	**88.71**	
21-Aug-16 07:00:00	21-Aug-16 08:00:00		20.18	0.00	0.00	81.55	2.1	329.7		6.65	0.00	0.00	26.89		10.35	18.92	83.84	86.68	21-Aug-16 07:00:00	**17.00**	**18.92**	**83.84**	**113.57**	
21-Aug-16 08:00:00	21-Aug-16 09:00:00		19.26	0.00	0.00	6.19	2.1	329.7		6.35	0.00	0.00	2.04		10.35	18.92	83.84	86.68	21-Aug-16 08:00:00	**16.70**	**18.92**	**83.84**	**88.72**	
21-Aug-16 09:00:00	21-Aug-16 10:00:00		18.93	0.00	0.00	6.02	2.1	329.7		6.24	0.00	0.00	1.98		10.35	18.92	83.84	86.68	21-Aug-16 09:00:00	**16.59**	**18.92**	**83.84**	**88.66**	
21-Aug-16 10:00:00	21-Aug-16 11:00:00		12.29	0.00	0.00	5.85	2.1	329.7		4.05	0.00	0.00	1.93		10.35	18.92	83.84	86.68	21-Aug-16 10:00:00	**14.40**	**18.92**	**83.84**	**88.61**	
21-Aug-16 11:00:00	21-Aug-16 12:00:00		5.25	0.00	0.00	6.68	2.1	329.7		1.73	0.00	0.00	2.20		10.35	18.92	83.84	86.68	21-Aug-16 11:00:00	**12.08**	**18.92**	**83.84**	**88.88**	
21-Aug-16 12:00:00	21-Aug-16 13:00:00		5.22	0.00	0.00	5.37	2.1	329.7		1.72	0.00	0.00	1.77		10.35	18.92	83.84	86.68	21-Aug-16 12:00:00	**12.07**	**18.92**	**83.84**	**88.45**	
21-Aug-16 13:00:00	21-Aug-16 14:00:00		13.77	0.00	0.00	21.14	2.1	329.7		4.54	0.00	0.00	6.97		10.35	18.92	83.84	86.68	21-Aug-16 13:00:00	**14.89**	**18.92**	**83.84**	**93.65**	
21-Aug-16 14:00:00	21-Aug-16 15:00:00		7.02	0.00	0.00	8.89	2.1	329.7		2.31	0.00	0.00	2.93		10.35	18.92	83.84	86.68	21-Aug-16 14:00:00	**12.66**	**18.92**	**83.84**	**89.61**	
21-Aug-16 15:00:00	21-Aug-16 16:00:00		4.54	0.00	0.00	5.12	2.1	329.7		1.50	0.00	0.00	1.69		10.35	18.92	83.84	86.68	21-Aug-16 15:00:00	**11.85**	**18.92**	**83.84**	**88.37**	
21-Aug-16 16:00:00	21-Aug-16 17:00:00		0.00	0.00	0.00	5.12	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	21-Aug-16 16:00:00	**10.35**	**18.92**	**83.84**	**88.37**	
21-Aug-16 17:00:00	21-Aug-16 18:00:00		0.00	0.00	0.00	7.04	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	21-Aug-16 17:00:00	**10.35**	**18.92**	**83.84**	**89.00**	
21-Aug-16 18:00:00	21-Aug-16 19:00:00		0.00	0.00	0.00	5.25	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	21-Aug-16 18:00:00	**10.35**	**18.92**	**83.84**	**88.41**	
21-Aug-16 19:00:00	21-Aug-16 20:00:00		0.08	0.00	0.00	48.89	2.1	329.7		0.03	0.00	0.00	16.12		10.35	18.92	83.84	86.68	21-Aug-16 19:00:00	**10.38**	**18.92**	**83.84**	**102.80**	
21-Aug-16 20:00:00	21-Aug-16 21:00:00		1.20	0.00	0.00	5.64	2.1	329.7		0.39	0.00	0.00	1.86		10.35	18.92	83.84	86.68	21-Aug-16 20:00:00	**10.74**	**18.92**	**83.84**	**88.54**	
21-Aug-16 21:00:00	21-Aug-16 22:00:00		6.56	0.00	0.00	5.66	2.1	329.7		2.16	0.00	0.00	1.87		10.35	18.92	83.84	86.68	21-Aug-16 21:00:00	**12.51**	**18.92**	**83.84**	**88.55**	
21-Aug-16 22:00:00	21-Aug-16 23:00:00		6.61	0.00	0.00	5.68	2.1	329.7		2.18	0.00	0.00	1.87		10.35	18.92	83.84	86.68	21-Aug-16 22:00:00	**12.53**	**18.92**	**83.84**	**88.55**	
21-Aug-16 23:00:00	22-Aug-16 00:00:00		0.00	0.00	0.00	126.57	2.1	329.7		0.00	0.00	0.00	41.73		10.35	18.92	83.84	86.68	21-Aug-16 23:00:00	**10.35**	**18.92**	**83.84**	**128.41**	
22-Aug-16 00:00:00	22-Aug-16 01:00:00		5.57	0.00	0.00	5.65	2.1	329.7		1.84	0.00	0.00	1.86		10.35	18.92	83.84	86.68	22-Aug-16 00:00:00	**12.19**	**18.92**	**83.84**	**88.54**	
22-Aug-16 01:00:00	22-Aug-16 02:00:00		10.75	0.00	0.00	138.51	2.1	329.7		3.55	0.00	0.00	45.67		10.35	18.92	83.84	86.68	22-Aug-16 01:00:00	**13.90**	**18.92**	**83.84**	**132.35**	
22-Aug-16 02:00:00	22-Aug-16 03:00:00		6.01	0.00	0.00	5.71	2.1	329.7		1.98	0.00	0.00	1.88		10.35	18.92	83.84	86.68	22-Aug-16 02:00:00	**12.33**	**18.92**	**83.84**	**88.56**	
22-Aug-16 03:00:00	22-Aug-16 04:00:00		1.14	0.00	0.00	5.77	2.1	329.7		0.38	0.00	0.00	1.90		10.35	18.92	83.84	86.68	22-Aug-16 03:00:00	**10.73**	**18.92**	**83.84**	**88.58**	
22-Aug-16 04:00:00	22-Aug-16 05:00:00		2.10	0.00	0.00	14.36	2.1	329.7		0.69	0.00	0.00	4.73		10.35	18.92	83.84	86.68	22-Aug-16 04:00:00	**11.04**	**18.92**	**83.84**	**91.41**	
22-Aug-16 05:00:00	22-Aug-16 06:00:00		1.58	0.00	0.00	6.05	2.1	329.7		0.52	0.00	0.00	1.99		10.35	18.92	83.84	86.68	22-Aug-16 05:00:00	**10.87**	**18.92**	**83.84**	**88.67**	
22-Aug-16 06:00:00	22-Aug-16 07:00:00		1.77	0.00	0.00	6.07	2.1	329.7		0.58	0.00	0.00	2.00		10.35	18.92	83.84	86.68	22-Aug-16 06:00:00	**10.93**	**18.92**	**83.84**	**88.68**	
22-Aug-16 07:00:00	22-Aug-16 08:00:00		6.79	0.00	0.00	6.09	2.1	329.7		2.24	0.00	0.00	2.01		10.35	18.92	83.84	86.68	22-Aug-16 07:00:00	**12.59**	**18.92**	**83.84**	**88.69**	
22-Aug-16 08:00:00	22-Aug-16 09:00:00		4.88	0.00	0.00	7.49	2.1	329.7		1.61	0.00	0.00	2.47		10.35	18.92	83.84	86.68	22-Aug-16 08:00:00	**11.96**	**18.92**	**83.84**	**89.15**	
22-Aug-16 09:00:00	22-Aug-16 10:00:00		0.00	0.00	0.00	57.83	2.1	329.7		0.00	0.00	0.00	19.07		10.35	18.92	83.84	86.68	22-Aug-16 09:00:00	**10.35**	**18.92**	**83.84**	**105.75**	
22-Aug-16 10:00:00	22-Aug-16 11:00:00		0.00	0.00	0.00	63.31	2.1	329.7		0.00	0.00	0.00	20.87		10.35	18.92	83.84	86.68	22-Aug-16 10:00:00	**10.35**	**18.92**	**83.84**	**107.55**	
22-Aug-16 11:00:00	22-Aug-16 12:00:00		0.43	0.00	0.00	28.97	2.1	329.7		0.14	0.00	0.00	9.55		10.35	18.92	83.84	86.68	22-Aug-16 11:00:00	**10.49**	**18.92**	**83.84**	**96.23**	
22-Aug-16 12:00:00	22-Aug-16 13:00:00		1.21	0.00	0.00	5.22	2.1	329.7		0.40	0.00	0.00	1.72		10.35	18.92	83.84	86.68	22-Aug-16 12:00:00	**10.75**	**18.92**	**83.84**	**88.40**	
22-Aug-16 13:00:00	22-Aug-16 14:00:00		2.34	0.00	0.00	5.19	2.1	329.7		0.77	0.00	0.00	1.71		10.35	18.92	83.84	86.68	22-Aug-16 13:00:00	**11.12**	**18.92**	**83.84**	**88.39**	
22-Aug-16 14:00:00	22-Aug-16 15:00:00		1.06	0.00	0.00	24.11	2.1	329.7		0.35	0.00	0.00	7.95		10.35	18.92	83.84	86.68	22-Aug-16 14:00:00	**10.70**	**18.92**	**83.84**	**94.63**	
22-Aug-16 15:00:00	22-Aug-16 16:00:00		2.41	0.00	0.00	5.06	2.1	329.7		0.79	0.00	0.00	1.67		10.35	18.92	83.84	86.68	22-Aug-16 15:00:00	**11.14**	**18.92**	**83.84**	**88.35**	
22-Aug-16 16:00:00	22-Aug-16 17:00:00		3.27	0.00	0.00	29.28	2.1	329.7		1.08	0.00	0.00	9.65		10.35	18.92	83.84	86.68	22-Aug-16 16:00:00	**11.43**	**18.92**	**83.84**	**96.33**	
22-Aug-16 17:00:00	22-Aug-16 18:00:00		3.01	0.00	0.00	5.07	2.1	329.7		0.99	0.00	0.00	1.67		10.35	18.92	83.84	86.68	22-Aug-16 17:00:00	**11.34**	**18.92**	**83.84**	**88.35**	
22-Aug-16 18:00:00	22-Aug-16 19:00:00		2.84	0.00	0.00	5.09	2.1	329.7		0.94	0.00	0.00	1.68		10.35	18.92	83.84	86.68	22-Aug-16 18:00:00	**11.29**	**18.92**	**83.84**	**88.36**	
22-Aug-16 19:00:00	22-Aug-16 20:00:00		2.67	0.00	0.00	16.64	2.1	329.7		0.88	0.00	0.00	5.49		10.35	18.92	83.84	86.68	22-Aug-16 19:00:00	**11.23**	**18.92**	**83.84**	**92.17**	
22-Aug-16 20:00:00	22-Aug-16 21:00:00		2.46	0.00	0.00	40.78	2.1	329.7		0.81	0.00	0.00	13.45		10.35	18.92	83.84	86.68	22-Aug-16 20:00:00	**11.16**	**18.92**	**83.84**	**100.13**	
22-Aug-16 21:00:00	22-Aug-16 22:00:00		2.19	0.00	0.00	5.36	2.1	329.7		0.72	0.00	0.00	1.77		10.35	18.92	83.84	86.68	22-Aug-16 21:00:00	**11.07**	**18.92**	**83.84**	**88.45**	
22-Aug-16 22:00:00	22-Aug-16 23:00:00		1.87	0.00	0.00	5.51	2.1	329.7		0.62	0.00	0.00	1.82		10.35	18.92	83.84	86.68	22-Aug-16 22:00:00	**10.97**	**18.92**	**83.84**	**88.50**	
22-Aug-16 23:00:00	23-Aug-16 00:00:00		1.16	0.00	0.00	6.93	2.1	329.7		0.38	0.00	0.00	2.28		10.35	18.92	83.84	86.68	22-Aug-16 23:00:00	**10.73**	**18.92**	**83.84**	**88.96**	
23-Aug-16 00:00:00	23-Aug-16 01:00:00		0.66	0.00	0.00	5.76	2.1	329.7		0.22	0.00	0.00	1.90		10.35	18.92	83.84	86.68	23-Aug-16 00:00:00	**10.57**	**18.92**	**83.84**	**88.58**	
23-Aug-16 01:00:00	23-Aug-16 02:00:00		0.83	0.00	0.00	5.89	2.1	329.7		0.27	0.00	0.00	1.94		10.35	18.92	83.84	86.68	23-Aug-16 01:00:00	**10.62**	**18.92**	**83.84**	**88.62**	
23-Aug-16 02:00:00	23-Aug-16 03:00:00		0.00	0.00	0.00	6.02	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	23-Aug-16 02:00:00	**10.35**	**18.92**	**83.84**	**88.67**	
23-Aug-16 03:00:00	23-Aug-16 04:00:00		0.00	0.00	0.00	6.16	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	23-Aug-16 03:00:00	**10.35**	**18.92**	**83.84**	**88.71**	
23-Aug-16 04:00:00	23-Aug-16 05:00:00		9.93	0.00	0.00	6.22	2.1	329.7		3.27	0.00	0.00	2.05		10.35	18.92	83.84	86.68	23-Aug-16 04:00:00	**13.62**	**18.92**	**83.84**	**88.73**	
23-Aug-16 05:00:00	23-Aug-16 06:00:00		3.44	0.00	0.00	16.26	2.1	329.7		1.14	0.00	0.00	5.36		10.35	18.92	83.84	86.68	23-Aug-16 05:00:00	**11.49**	**18.92**	**83.84**	**92.04**	
23-Aug-16 06:00:00	23-Aug-16 07:00:00		8.96	0.00	0.00	6.29	2.1	329.7		2.95	0.00	0.00	2.07		10.35	18.92	83.84	86.68	23-Aug-16 06:00:00	**13.30**	**18.92**	**83.84**	**88.75**	
23-Aug-16 07:00:00	23-Aug-16 08:00:00		0.79	0.00	0.00	8.71	2.1	329.7		0.26	0.00	0.00	2.87		10.35	18.92	83.84	86.68	23-Aug-16 07:00:00	**10.61**	**18.92**	**83.84**	**89.55**	
23-Aug-16 08:00:00	23-Aug-16 09:00:00		10.66	0.00	0.00	6.22	2.1	329.7		3.51	0.00	0.00	2.05		10.35	18.92	83.84	86.68	23-Aug-16 08:00:00	**13.86**	**18.92**	**83.84**	**88.73**	
23-Aug-16 09:00:00	23-Aug-16 10:00:00		14.11	92.90	0.00	8.06	2.1	329.7		4.65	30.63	0.00	2.66		10.35	18.92	83.84	86.68	23-Aug-16 09:00:00	**15.00**	**49.55**	**83.84**	**89.34**	
23-Aug-16 10:00:00	23-Aug-16 11:00:00		12.96	0.00	0.00	5.77	2.1	329.7		4.27	0.00	0.00	1.90		10.35	18.92	83.84	86.68	23-Aug-16 10:00:00	**14.62**	**18.92**	**83.84**	**88.58**	
23-Aug-16 11:00:00	23-Aug-16 12:00:00		11.72	0.00	0.00	17.14	2.1	329.7		3.87	0.00	0.00	5.65		10.35	18.92	83.84	86.68	23-Aug-16 11:00:00	**14.22**	**18.92**	**83.84**	**92.33**	
23-Aug-16 12:00:00	23-Aug-16 13:00:00		9.67	0.00	0.00	5.19	2.1	329.7		3.19	0.00	0.00	1.71		10.35	18.92	83.84	86.68	23-Aug-16 12:00:00	**13.54**	**18.92**	**83.84**	**88.39**	
23-Aug-16 13:00:00	23-Aug-16 14:00:00		10.81	0.00	0.00	5.64	2.1	329.7		3.56	0.00	0.00	1.86		10.35	18.92	83.84	86.68	23-Aug-16 13:00:00	**13.91**	**18.92**	**83.84**	**88.54**	
23-Aug-16 14:00:00	23-Aug-16 15:00:00		8.88	0.00	0.00	4.91	2.1	329.7		2.93	0.00	0.00	1.62		10.35	18.92	83.84	86.68	23-Aug-16 14:00:00	**13.28**	**18.92**	**83.84**	**88.30**	
23-Aug-16 15:00:00	23-Aug-16 16:00:00		11.78	0.00	0.00	4.79	2.1	329.7		3.88	0.00	0.00	1.58		10.35	18.92	83.84	86.68	23-Aug-16 15:00:00	**14.23**	**18.92**	**83.84**	**88.26**	
23-Aug-16 16:00:00	23-Aug-16 17:00:00		10.60	0.00	0.00	4.67	2.1	329.7		3.50	0.00	0.00	1.54		10.35	18.92	83.84	86.68	23-Aug-16 16:00:00	**13.85**	**18.92**	**83.84**	**88.22**	
23-Aug-16 17:00:00	23-Aug-16 18:00:00		14.13	0.00	0.00	4.64	2.1	329.7		4.66	0.00	0.00	1.53		10.35	18.92	83.84	86.68	23-Aug-16 17:00:00	**15.01**	**18.92**	**83.84**	**88.21**	
23-Aug-16 18:00:00	23-Aug-16 19:00:00		10.06	0.00	0.00	5.36	2.1	329.7		3.32	0.00	0.00	1.77		10.35	18.92	83.84	86.68	23-Aug-16 18:00:00	**13.67**	**18.92**	**83.84**	**88.45**	
23-Aug-16 19:00:00	23-Aug-16 20:00:00		10.29	0.00	0.00	5.02	2.1	329.7		3.39	0.00	0.00	1.66		10.35	18.92	83.84	86.68	23-Aug-16 19:00:00	**13.74**	**18.92**	**83.84**	**88.34**	
23-Aug-16 20:00:00	23-Aug-16 21:00:00		16.36	0.00	0.00	5.22	2.1	329.7		5.39	0.00	0.00	1.72		10.35	18.92	83.84	86.68	23-Aug-16 20:00:00	**15.74**	**18.92**	**83.84**	**88.40**	
23-Aug-16 21:00:00	23-Aug-16 22:00:00		19.50	87.31	0.00	14.36	2.1	329.7		6.43	28.79	0.00	4.73		10.35	18.92	83.84	86.68	23-Aug-16 21:00:00	**16.78**	**47.71**	**83.84**	**91.41**	
23-Aug-16 22:00:00	23-Aug-16 23:00:00		20.02	1,313.85	0.00	25.21	2.1	329.7		6.60	433.18	0.00	8.31		10.35	18.92	83.84	86.68	23-Aug-16 22:00:00	**16.95**	**452.10**	**83.84**	**94.99**	
23-Aug-16 23:00:00	24-Aug-16 00:00:00		3.54	1,933.91	0.00	5.81	2.1	329.7		1.17	637.61	0.00	1.91		10.35	18.92	83.84	86.68	23-Aug-16 23:00:00	**11.52**	**656.53**	**83.84**	**88.59**	
24-Aug-16 00:00:00	24-Aug-16 01:00:00		20.51	1,099.66	0.00	5.99	2.1	329.7		6.76	362.56	0.00	1.97		10.35	18.92	83.84	86.68	24-Aug-16 00:00:00	**17.11**	**381.48**	**83.84**	**88.65**	
24-Aug-16 01:00:00	24-Aug-16 02:00:00		13.69	220.66	0.00	34.19	2.1	329.7		4.51	72.75	0.00	11.27		10.35	18.92	83.84	86.68	24-Aug-16 01:00:00	**14.86**	**91.67**	**83.84**	**97.95**	
24-Aug-16 02:00:00	24-Aug-16 03:00:00		0.62	0.23	0.00	6.23	2.1	329.7		0.21	0.08	0.00	2.05		10.35	18.92	83.84	86.68	24-Aug-16 02:00:00	**10.56**	**19.00**	**83.84**	**88.73**	
24-Aug-16 03:00:00	24-Aug-16 04:00:00		6.70	0.00	0.00	22.05	2.1	329.7		2.21	0.00	0.00	7.27		10.35	18.92	83.84	86.68	24-Aug-16 03:00:00	**12.56**	**18.92**	**83.84**	**93.95**	
24-Aug-16 04:00:00	24-Aug-16 05:00:00		2.34	0.00	0.00	9.80	2.1	329.7		0.77	0.00	0.00	3.23		10.35	18.92	83.84	86.68	24-Aug-16 04:00:00	**11.12**	**18.92**	**83.84**	**89.91**	
24-Aug-16 05:00:00	24-Aug-16 06:00:00		0.00	0.00	0.00	69.90	2.1	329.7		0.00	0.00	0.00	23.05		10.35	18.92	83.84	86.68	24-Aug-16 05:00:00	**10.35**	**18.92**	**83.84**	**109.73**	
24-Aug-16 06:00:00	24-Aug-16 07:00:00		0.00	0.00	0.00	6.21	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	24-Aug-16 06:00:00	**10.35**	**18.92**	**83.84**	**88.73**	
24-Aug-16 07:00:00	24-Aug-16 08:00:00		0.16

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
26-Aug-16 09:00:00	26-Aug-16 10:00:00		31.77	0.00	0.00	7.91	2.1	329.7		10.47	0.00	0.00	2.61		10.35	18.92	83.84	86.68	26-Aug-16 09:00:00		**20.82**	**18.92**	**83.84**	**89.29**
26-Aug-16 10:00:00	26-Aug-16 11:00:00		16.89	0.00	0.00	5.19	2.1	329.7		5.57	0.00	0.00	1.71		10.35	18.92	83.84	86.68	26-Aug-16 10:00:00		**15.92**	**18.92**	**83.84**	**88.39**
26-Aug-16 11:00:00	26-Aug-16 12:00:00		21.02	38.15	0.00	4.81	2.1	329.7		6.93	12.58	0.00	1.59		10.35	18.92	83.84	86.68	26-Aug-16 11:00:00		**17.28**	**31.50**	**83.84**	**88.27**
26-Aug-16 12:00:00	26-Aug-16 13:00:00		20.30	0.00	0.00	4.43	2.1	329.7		6.69	0.00	0.00	1.46		10.35	18.92	83.84	86.68	26-Aug-16 12:00:00		**17.04**	**18.92**	**83.84**	**88.14**
26-Aug-16 13:00:00	26-Aug-16 14:00:00		23.31	0.00	0.00	30.07	2.1	329.7		7.68	0.00	0.00	9.91		10.35	18.92	83.84	86.68	26-Aug-16 13:00:00		**18.03**	**18.92**	**83.84**	**96.59**
26-Aug-16 14:00:00	26-Aug-16 15:00:00		31.48	0.00	0.00	5.10	2.1	329.7		10.38	0.00	0.00	1.68		10.35	18.92	83.84	86.68	26-Aug-16 14:00:00		**20.73**	**18.92**	**83.84**	**88.36**
26-Aug-16 15:00:00	26-Aug-16 16:00:00		21.68	0.00	0.00	6.17	2.1	329.7		7.15	0.00	0.00	2.04		10.35	18.92	83.84	86.68	26-Aug-16 15:00:00		**17.50**	**18.92**	**83.84**	**88.72**
26-Aug-16 16:00:00	26-Aug-16 17:00:00		25.53	0.00	0.00	125.16	2.1	329.7		8.42	0.00	0.00	41.27		10.35	18.92	83.84	86.68	26-Aug-16 16:00:00		**18.77**	**18.92**	**83.84**	**127.95**
26-Aug-16 17:00:00	26-Aug-16 18:00:00		25.35	0.00	0.00	4.72	2.1	329.7		8.36	0.00	0.00	1.56		10.35	18.92	83.84	86.68	26-Aug-16 17:00:00		**18.71**	**18.92**	**83.84**	**88.24**
26-Aug-16 18:00:00	26-Aug-16 19:00:00		30.17	0.00	0.00	5.02	2.1	329.7		9.95	0.00	0.00	1.65		10.35	18.92	83.84	86.68	26-Aug-16 18:00:00		**20.30**	**18.92**	**83.84**	**88.33**
26-Aug-16 19:00:00	26-Aug-16 20:00:00		6.56	0.00	0.00	24.18	2.1	329.7		2.16	0.00	0.00	7.97		10.35	18.92	83.84	86.68	26-Aug-16 19:00:00		**12.51**	**18.92**	**83.84**	**94.65**
26-Aug-16 20:00:00	26-Aug-16 21:00:00		8.67	0.00	0.00	5.24	2.1	329.7		2.86	0.00	0.00	1.73		10.35	18.92	83.84	86.68	26-Aug-16 20:00:00		**13.21**	**18.92**	**83.84**	**88.41**
26-Aug-16 21:00:00	26-Aug-16 22:00:00		34.91	0.00	0.00	28.06	2.1	329.7		11.51	0.00	0.00	9.25		10.35	18.92	83.84	86.68	26-Aug-16 21:00:00		**21.86**	**18.92**	**83.84**	**95.93**
26-Aug-16 22:00:00	26-Aug-16 23:00:00		28.78	0.00	0.00	5.30	2.1	329.7		9.49	0.00	0.00	1.75		10.35	18.92	83.84	86.68	26-Aug-16 22:00:00		**19.84**	**18.92**	**83.84**	**88.43**
26-Aug-16 23:00:00	27-Aug-16 00:00:00		9.63	0.00	0.00	6.82	2.1	329.7		3.17	0.00	0.00	2.25		10.35	18.92	83.84	86.68	26-Aug-16 23:00:00		**13.52**	**18.92**	**83.84**	**88.93**
27-Aug-16 00:00:00	27-Aug-16 01:00:00		6.97	0.00	0.00	5.49	2.1	329.7		2.30	0.00	0.00	1.81		10.35	18.92	83.84	86.68	27-Aug-16 00:00:00		**12.65**	**18.92**	**83.84**	**88.49**
27-Aug-16 01:00:00	27-Aug-16 02:00:00		13.50	0.00	0.00	5.62	2.1	329.7		4.45	0.00	0.00	1.85		10.35	18.92	83.84	86.68	27-Aug-16 01:00:00		**14.80**	**18.92**	**83.84**	**88.53**
27-Aug-16 02:00:00	27-Aug-16 03:00:00		15.48	0.00	0.00	8.04	2.1	329.7		5.10	0.00	0.00	2.65		10.35	18.92	83.84	86.68	27-Aug-16 02:00:00		**15.45**	**18.92**	**83.84**	**89.33**
27-Aug-16 03:00:00	27-Aug-16 04:00:00		23.28	0.00	0.00	5.54	2.1	329.7		7.68	0.00	0.00	1.83		10.35	18.92	83.84	86.68	27-Aug-16 03:00:00		**18.03**	**18.92**	**83.84**	**88.51**
27-Aug-16 04:00:00	27-Aug-16 05:00:00		15.23	0.00	0.00	29.81	2.1	329.7		5.02	0.00	0.00	9.83		10.35	18.92	83.84	86.68	27-Aug-16 04:00:00		**15.37**	**18.92**	**83.84**	**96.51**
27-Aug-16 05:00:00	27-Aug-16 06:00:00		9.15	0.00	0.00	5.58	2.1	329.7		3.02	0.00	0.00	1.84		10.35	18.92	83.84	86.68	27-Aug-16 05:00:00		**13.37**	**18.92**	**83.84**	**88.52**
27-Aug-16 06:00:00	27-Aug-16 07:00:00		7.26	0.00	0.00	17.54	2.1	329.7		2.39	0.00	0.00	5.78		10.35	18.92	83.84	86.68	27-Aug-16 06:00:00		**12.74**	**18.92**	**83.84**	**92.46**
27-Aug-16 07:00:00	27-Aug-16 08:00:00		13.86	0.00	0.00	5.68	2.1	329.7		4.57	0.00	0.00	1.87		10.35	18.92	83.84	86.68	27-Aug-16 07:00:00		**14.92**	**18.92**	**83.84**	**88.55**
27-Aug-16 08:00:00	27-Aug-16 09:00:00		26.88	0.00	0.00	12.68	2.1	329.7		8.86	0.00	0.00	4.18		10.35	18.92	83.84	86.68	27-Aug-16 08:00:00		**19.21**	**18.92**	**83.84**	**90.86**
27-Aug-16 09:00:00	27-Aug-16 10:00:00		23.12	0.00	0.00	11.92	2.1	329.7		7.62	0.00	0.00	3.93		10.35	18.92	83.84	86.68	27-Aug-16 09:00:00		**17.97**	**18.92**	**83.84**	**90.61**
27-Aug-16 10:00:00	27-Aug-16 11:00:00		21.06	0.00	0.00	5.01	2.1	329.7		6.94	0.00	0.00	1.65		10.35	18.92	83.84	86.68	27-Aug-16 10:00:00		**17.29**	**18.92**	**83.84**	**88.33**
27-Aug-16 11:00:00	27-Aug-16 12:00:00		18.83	0.00	0.00	4.87	2.1	329.7		6.21	0.00	0.00	1.61		10.35	18.92	83.84	86.68	27-Aug-16 11:00:00		**16.56**	**18.92**	**83.84**	**88.29**
27-Aug-16 12:00:00	27-Aug-16 13:00:00		11.85	0.00	0.00	4.73	2.1	329.7		3.91	0.00	0.00	1.56		10.35	18.92	83.84	86.68	27-Aug-16 12:00:00		**14.26**	**18.92**	**83.84**	**88.24**
27-Aug-16 13:00:00	27-Aug-16 14:00:00		11.69	0.00	0.00	4.59	2.1	329.7		3.85	0.00	0.00	1.51		10.35	18.92	83.84	86.68	27-Aug-16 13:00:00		**14.20**	**18.92**	**83.84**	**88.19**
27-Aug-16 14:00:00	27-Aug-16 15:00:00		8.63	0.00	0.00	4.52	2.1	329.7		2.84	0.00	0.00	1.49		10.35	18.92	83.84	86.68	27-Aug-16 14:00:00		**13.19**	**18.92**	**83.84**	**88.17**
27-Aug-16 15:00:00	27-Aug-16 16:00:00		38.55	0.00	0.00	8.59	2.1	329.7		12.71	0.00	0.00	2.83		10.35	18.92	83.84	86.68	27-Aug-16 15:00:00		**23.06**	**18.92**	**83.84**	**89.51**
27-Aug-16 16:00:00	27-Aug-16 17:00:00		17.21	0.00	0.00	5.67	2.1	329.7		5.67	0.00	0.00	1.87		10.35	18.92	83.84	86.68	27-Aug-16 16:00:00		**16.02**	**18.92**	**83.84**	**88.55**
27-Aug-16 17:00:00	27-Aug-16 18:00:00		17.92	0.00	0.00	4.76	2.1	329.7		5.91	0.00	0.00	1.57		10.35	18.92	83.84	86.68	27-Aug-16 17:00:00		**16.26**	**18.92**	**83.84**	**88.25**
27-Aug-16 18:00:00	27-Aug-16 19:00:00		37.54	0.00	0.00	4.95	2.1	329.7		12.38	0.00	0.00	1.63		10.35	18.92	83.84	86.68	27-Aug-16 18:00:00		**22.73**	**18.92**	**83.84**	**88.31**
27-Aug-16 19:00:00	27-Aug-16 20:00:00		26.97	0.00	0.00	5.15	2.1	329.7		8.89	0.00	0.00	1.70		10.35	18.92	83.84	86.68	27-Aug-16 19:00:00		**19.24**	**18.92**	**83.84**	**88.38**
27-Aug-16 20:00:00	27-Aug-16 21:00:00		20.21	0.00	0.00	5.39	2.1	329.7		6.66	0.00	0.00	1.78		10.35	18.92	83.84	86.68	27-Aug-16 20:00:00		**17.01**	**18.92**	**83.84**	**88.46**
27-Aug-16 21:00:00	27-Aug-16 22:00:00		38.65	0.00	0.00	6.57	2.1	329.7		12.74	0.00	0.00	2.17		10.35	18.92	83.84	86.68	27-Aug-16 21:00:00		**23.09**	**18.92**	**83.84**	**88.85**
27-Aug-16 22:00:00	27-Aug-16 23:00:00		50.91	0.00	0.00	17.31	2.1	329.7		16.78	0.00	0.00	5.71		10.35	18.92	83.84	86.68	27-Aug-16 22:00:00		**27.13**	**18.92**	**83.84**	**92.39**
27-Aug-16 23:00:00	28-Aug-16 00:00:00		34.65	0.00	0.00	6.15	2.1	329.7		11.42	0.00	0.00	2.03		10.35	18.92	83.84	86.68	27-Aug-16 23:00:00		**21.77**	**18.92**	**83.84**	**88.71**
28-Aug-16 00:00:00	28-Aug-16 01:00:00		29.93	0.00	0.00	5.69	2.1	329.7		9.87	0.00	0.00	1.88		10.35	18.92	83.84	86.68	28-Aug-16 00:00:00		**20.22**	**18.92**	**83.84**	**88.56**
28-Aug-16 01:00:00	28-Aug-16 02:00:00		39.87	0.00	0.00	5.72	2.1	329.7		13.14	0.00	0.00	1.88		10.35	18.92	83.84	86.68	28-Aug-16 01:00:00		**23.49**	**18.92**	**83.84**	**88.56**
28-Aug-16 02:00:00	28-Aug-16 03:00:00		17.31	0.00	0.00	7.14	2.1	329.7		5.71	0.00	0.00	2.35		10.35	18.92	83.84	86.68	28-Aug-16 02:00:00		**16.06**	**18.92**	**83.84**	**89.03**
28-Aug-16 03:00:00	28-Aug-16 04:00:00		17.99	0.00	0.00	5.76	2.1	329.7		5.93	0.00	0.00	1.90		10.35	18.92	83.84	86.68	28-Aug-16 03:00:00		**16.28**	**18.92**	**83.84**	**88.58**
28-Aug-16 04:00:00	28-Aug-16 05:00:00		9.32	0.00	0.00	5.70	2.1	329.7		3.07	0.00	0.00	1.88		10.35	18.92	83.84	86.68	28-Aug-16 04:00:00		**13.42**	**18.92**	**83.84**	**88.56**
28-Aug-16 05:00:00	28-Aug-16 06:00:00		2.62	0.00	0.00	5.92	2.1	329.7		0.86	0.00	0.00	1.95		10.35	18.92	83.84	86.68	28-Aug-16 05:00:00		**11.21**	**18.92**	**83.84**	**88.63**
28-Aug-16 06:00:00	28-Aug-16 07:00:00		2.11	0.00	0.00	5.63	2.1	329.7		0.69	0.00	0.00	1.86		10.35	18.92	83.84	86.68	28-Aug-16 06:00:00		**11.04**	**18.92**	**83.84**	**88.54**
28-Aug-16 07:00:00	28-Aug-16 08:00:00		1.38	0.00	0.00	5.62	2.1	329.7		0.45	0.00	0.00	1.85		10.35	18.92	83.84	86.68	28-Aug-16 07:00:00		**10.80**	**18.92**	**83.84**	**88.53**
28-Aug-16 08:00:00	28-Aug-16 09:00:00		0.80	0.00	0.00	5.61	2.1	329.7		0.26	0.00	0.00	1.85		10.35	18.92	83.84	86.68	28-Aug-16 08:00:00		**10.61**	**18.92**	**83.84**	**88.53**
28-Aug-16 09:00:00	28-Aug-16 10:00:00		12.35	0.00	0.00	30.21	2.1	329.7		4.07	0.00	0.00	9.96		10.35	18.92	83.84	86.68	28-Aug-16 09:00:00		**14.42**	**18.92**	**83.84**	**96.64**
28-Aug-16 10:00:00	28-Aug-16 11:00:00		15.44	0.00	0.00	18.69	2.1	329.7		5.09	0.00	0.00	6.16		10.35	18.92	83.84	86.68	28-Aug-16 10:00:00		**15.44**	**18.92**	**83.84**	**92.84**
28-Aug-16 11:00:00	28-Aug-16 12:00:00		17.74	0.00	0.00	7.90	2.1	329.7		5.85	0.00	0.00	2.60		10.35	18.92	83.84	86.68	28-Aug-16 11:00:00		**16.20**	**18.92**	**83.84**	**89.28**
28-Aug-16 12:00:00	28-Aug-16 13:00:00		18.53	0.00	0.00	4.92	2.1	329.7		6.11	0.00	0.00	1.62		10.35	18.92	83.84	86.68	28-Aug-16 12:00:00		**16.46**	**18.92**	**83.84**	**88.30**
28-Aug-16 13:00:00	28-Aug-16 14:00:00		29.79	0.00	0.00	4.81	2.1	329.7		9.82	0.00	0.00	1.58		10.35	18.92	83.84	86.68	28-Aug-16 13:00:00		**20.17**	**18.92**	**83.84**	**88.26**
28-Aug-16 14:00:00	28-Aug-16 15:00:00		50.01	0.00	0.00	4.69	2.1	329.7		16.49	0.00	0.00	1.55		10.35	18.92	83.84	86.68	28-Aug-16 14:00:00		**26.84**	**18.92**	**83.84**	**88.23**
28-Aug-16 15:00:00	28-Aug-16 16:00:00		49.60	0.00	0.00	5.63	2.1	329.7		16.35	0.00	0.00	1.86		10.35	18.92	83.84	86.68	28-Aug-16 15:00:00		**26.70**	**18.92**	**83.84**	**88.54**
28-Aug-16 16:00:00	28-Aug-16 17:00:00		41.20	0.00	0.00	5.27	2.1	329.7		13.58	0.00	0.00	1.74		10.35	18.92	83.84	86.68	28-Aug-16 16:00:00		**23.93**	**18.92**	**83.84**	**88.42**
28-Aug-16 17:00:00	28-Aug-16 18:00:00		31.01	0.00	0.00	4.65	2.1	329.7		10.22	0.00	0.00	1.53		10.35	18.92	83.84	86.68	28-Aug-16 17:00:00		**20.57**	**18.92**	**83.84**	**88.21**
28-Aug-16 18:00:00	28-Aug-16 19:00:00		40.11	0.00	0.00	4.97	2.1	329.7		13.22	0.00	0.00	1.64		10.35	18.92	83.84	86.68	28-Aug-16 18:00:00		**23.57**	**18.92**	**83.84**	**88.32**
28-Aug-16 19:00:00	28-Aug-16 20:00:00		39.81	0.00	0.00	28.16	2.1	329.7		13.13	0.00	0.00	9.28		10.35	18.92	83.84	86.68	28-Aug-16 19:00:00		**23.48**	**18.92**	**83.84**	**95.96**
28-Aug-16 20:00:00	28-Aug-16 21:00:00		41.51	0.00	0.00	4.76	2.1	329.7		13.69	0.00	0.00	1.57		10.35	18.92	83.84	86.68	28-Aug-16 20:00:00		**24.04**	**18.92**	**83.84**	**88.25**
28-Aug-16 21:00:00	28-Aug-16 22:00:00		42.61	0.00	0.00	12.49	2.1	329.7		14.05	0.00	0.00	4.12		10.35	18.92	83.84	86.68	28-Aug-16 21:00:00		**24.40**	**18.92**	**83.84**	**90.80**
28-Aug-16 22:00:00	28-Aug-16 23:00:00		41.47	0.00	0.00	40.32	2.1	329.7		13.67	0.00	0.00	13.29		10.35	18.92	83.84	86.68	28-Aug-16 22:00:00		**24.02**	**18.92**	**83.84**	**99.97**
28-Aug-16 23:00:00	29-Aug-16 00:00:00		30.55	0.00	0.00	9.95	2.1	329.7		10.07	0.00	0.00	3.28		10.35	18.92	83.84	86.68	28-Aug-16 23:00:00		**20.42**	**18.92**	**83.84**	**89.96**
29-Aug-16 00:00:00	29-Aug-16 01:00:00		37.46	0.00	0.00	5.57	2.1	329.7		12.35	0.00	0.00	1.84		10.35	18.92	83.84	86.68	29-Aug-16 00:00:00		**22.70**	**18.92**	**83.84**	**88.52**
29-Aug-16 01:00:00	29-Aug-16 02:00:00		47.97	0.00	0.00	5.49	2.1	329.7		15.82	0.00	0.00	1.81		10.35	18.92	83.84	86.68	29-Aug-16 01:00:00		**26.17**	**18.92**	**83.84**	**88.49**
29-Aug-16 02:00:00	29-Aug-16 03:00:00		45.01	0.00	0.00	40.16	2.1	329.7		14.84	0.00	0.00	13.24		10.35	18.92	83.84	86.68	29-Aug-16 02:00:00		**25.19**	**18.92**	**83.84**	**99.92**
29-Aug-16 03:00:00	29-Aug-16 04:00:00		41.07	0.00	0.00	11.78	2.1	329.7		13.54	0.00	0.00	3.88		10.35	18.92	83.84	86.68	29-Aug-16 03:00:00		**23.89**	**18.92**	**83.84**	**90.56**
29-Aug-16 04:00:00	29-Aug-16 05:00:00		24.56	0.00	0.00	29.20	2.1	329.7		8.10	0.00	0.00	9.63		10.35	18.92	83.84	86.68	29-Aug-16 04:00:00		**18.45**	**18.92**	**83.84**	**96.31**
29-Aug-16 05:00:00	29-Aug-16 06:00:00		9.02	0.00	0.00	5.57	2.1	329.7		2.97	0.00	0.00	1.84		10.35	18.92	83.84	86.68	29-Aug-16 05:00:00		**13.32**	**18.92**	**83.84**	**88.52**
29-Aug-16 06:00:00	29-Aug-16 07:00:00		6.69	0.00	0.00	5.53	2.1	329.7		2.21	0.00	0.00	1.82		10.35	18.92	83.84	86.68	29-Aug-16 06:00:00		**12.56**	**18.92**	**83.84**	**88.50**
29-Aug-16 07:00:00	29-Aug-16 08:00:00		7.24	0.00	0.00	5.48	2.1	329.7		2.39	0.00	0.00	1.81		10.35	18.92	83.84	86.68	29-Aug-16 07:00:00		**12.74**	**18.92**	**83.84**	**88.49**
29-Aug-16 08:00:00	29-Aug-16 09:00:00		15.49	0.00	0.00	7.18	2.1	329.7		5.11	0.00	0.00	2.37		10.35	18.92	83.84	86.68	29-Aug-16 08:00:00		**15.46**	**18.92**	**83.84**	**89.05**
29-Aug-16 09:00:00	29-Aug-16 10:00:00		14.33	0.00	0.00	5.40	2.1	329.7		4.72	0.00	0.00	1.78		10.35	18.92	83.84	86.68	29-Aug-16 09:00:00		**15.07**	**18.92**	**83.84**	**88.46**
29-Aug-16 10:00:00	29-Aug-16 11:00:00		13.68	0.00	0.00	28.81	2.1	329.7		4.51	0.00	0.00	9.50		10.35	18.92	83.84	86.68	29-Aug-16 10:00:00		**14.86**	**18.92**	**83.84**	**96.18**
29-Aug-16 11:00:00	29-Aug-16 12:00:00		13.10	0.00	0.00	5.10	2.1	329.7		4.32	0.00	0.00	1.68		10.35	18.92	83.84	86.68	29-Aug-16 11:00:00		**14.67**	**18.92**	**83.84**	**88.36**
29-Aug-16 12:00:00	29-Aug-16 13:00:00		9.55	0.00	0.00	4.95	2.1	329.7		3.15	0.00	0.00	1.63		10.35	18.92	83.84	86.68	29-Aug-16 12:00:00		**13.50**	**18.92**	**83.84**	**88.31**
29-Aug-16 13:00:00	29-Aug-16 14:00:00		9.07	0.00	0.00	4.80	2.1	329.7		2.99	0.00	0.00	1.58		10.35	18.92	83.84	86.68	29-Aug-16 13:00:00		**13.34**	**18.92**	**83.84**	**88.26**
29-Aug-16 14:00:00	29-Aug-16 15:00:00		28.09	0.00	0.00	4.64	2.1	329.7		9.26	0.00	0.00	1.53		10.35	18.92	83.84	86.68	29-Aug-16 14:00:00		**19.61**	**18.92**	**83.84**	**88.21**
29-Aug-16 15:00:00	29-Aug-16 16:00:00		23.45	0.00	0.00	5.30	2.1	329.7		7.73	0.00	0.00	1.75		10.35	18.92	83.84	86.68	29-Aug-16 15:00:00		**18.08**	**18.92**	**83.84**	**88.43**
29-Aug-16 16:00:00	29-Aug-16 17:00:00		40.03	0.00	0.00	6.11	2.1	329.7		13.20	0.00	0.00	2.02		10.35	18.92	83.84	86.68	29-Aug-16 16:00:00		**23.55**	**18.92**	**83.84**	**88.70**
29-Aug-16 17:00:00	29-Aug-16 18:00:00		36.88	0.00	0.00	49.45	2.1	329.7		12.16	0.00	0.00	16.31		10.35	18.92	83.84	86.68	29-Aug-16 17:00:00		**22.51**	**18.92**	**83.84**	**102.99**
29-Aug-16 18:00:00	29-Aug-16 19:00:00		15.21	0.00	0.00	4.44	2.1	329.7		5.02	0.00	0.00	1.46		10.35	18.92	83.84	86.68	29-Aug-16 18:00:00		**15.37**	**18.92**	**83.84**	**88.14**
29-Aug-16 19:00:00	29-Aug-16 20:00:00		15.30	0.00	0.00	5.10	2.1	329.7		5.05	0.00	0.00	1.68		10.35	18.92	83.84	86.68	29-Aug-16 19:00:00		**15.40**	**18.92**	**83.84**	**88.36**
29-Aug-16 20:00:00	29-Aug-16 21:00:00		30.14	0.00	0.00	4.97	2.1	329.7		9.94	0.00	0.00	1.64		10.35	18.92	83.84	86.68	29-Aug-16 20:00:00		**20.29**	**18.92**	**83.84**	**88.32**
29-Aug-16 21:00:00	29-Aug-16 22:00:00		29.98	0.00	0.00	16.71	2.1	329.7		9.88	0.00	0.00	5.51		10.35	18.92	83.84	86.68	29-Aug-16 21:00:00		**20.23**	**18.92**	**83.84**	**92.19**
29-Aug-16 22:00:00	29-Aug-16 23:00:00		30.04	0.00	0.00	46.26	2.1	329.7		9.90	0.00	0.00	15.25		10.35	18.92	83.84	86.68	29-Aug-16 22:00:00		**20.25**	**18.92**	**83.84**	**101.93**
29-Aug-16 23:00:00	30-Aug-16 00:00:00		40.05	0.00	0.00	5.16	2.1	329.7		13.20	0.00	0.00	1.70		10.35	18.92	83.84	86.68	29-Aug-16 23:00:00		**23.55**	**18.92**	**83.84**	**88.38**
30-Aug-16 00:00:00	30-Aug-16 01:00:00		30.85	0.00	0.00	7.19	2.1	329.7		10.17	0.00	0.00	2.37		10.35	18.92	83.84	86.68	30-Aug-16 00:00:00		**20.52**	**18.92**	**83.84**	**89.05**
30-Aug-16 01:00:00	30-Aug-16 02:00:00		22.39	0.00	0.00	8.79	2.1	329.7		7.38	0.00	0.00	2.90		10.35	18.92	83.84	86.68	30-Aug-16 01:00:00		**17.73**	**18.92**	**83.84**	**89.58**
30-Aug-16 02:00:00	30-Aug-16 03:00:00		19.14	0.00	0.00	15.90	2.1	329.7		6.31	0.00	0.00	5.24		10.35	18.92	83.84	86.68	30-Aug-16 02:00:00		**16.66**	**18.92**	**83.84**	**91.92**
30-Aug-16 03:00:00	30-Aug-16 04:00:00		46.50	0.00	0.00	5.41	2.1	329.7		15.33	0.00	0.00	1.78		10.35	18.92	83.84	86.68	30-Aug-16 03:00:00		**25.68**	**18.92**	**83.84**	**88.46**
30-Aug-16 04:00:00	30-Aug-16 05:00:00		95.08	0.00	0.00	5.49	2.1	329.7		31.35	0.00	0.00	1.81		10.35	18.92	83.84	86.68	30-Aug-16 04:00:00		**41.70**	**18.92**	**83.84**	**88.49**
30-Aug-16 05:00:00	30-Aug-16 06:00:00		75.07	0.00	0.00	36.84	2.1	329.7		24.75	0.00	0.00	12.15		10.35	18.92	83.84	86.68	30-Aug-16 05:00:00		**35.10**	**18.92**	**83.84**	**98.83**
30-Aug-16 06:00:00	30-Aug-16 07:00:00		49.13	0.00	0.00	5.53

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
01-Sep-16 08:00:00	01-Sep-16 09:00:00		40.50	0.00	0.00	5.64	2.1	329.7		13.35	0.00	0.00	1.86		10.35	18.92	83.84	86.68	01-Sep-16 08:00:00		23.70	18.92	83.84	88.54
01-Sep-16 09:00:00	01-Sep-16 10:00:00		16.98	0.00	0.00	7.74	2.1	329.7		5.60	0.00	0.00	2.55		10.35	18.92	83.84	86.68	01-Sep-16 09:00:00		15.95	18.92	83.84	89.23
01-Sep-16 10:00:00	01-Sep-16 11:00:00		15.67	0.00	0.00	5.25	2.1	329.7		5.17	0.00	0.00	1.73		10.35	18.92	83.84	86.68	01-Sep-16 10:00:00		15.52	18.92	83.84	88.41
01-Sep-16 11:00:00	01-Sep-16 12:00:00		17.78	0.00	0.00	4.94	2.1	329.7		5.86	0.00	0.00	1.63		10.35	18.92	83.84	86.68	01-Sep-16 11:00:00		16.21	18.92	83.84	88.31
01-Sep-16 12:00:00	01-Sep-16 13:00:00		16.30	0.00	0.00	4.64	2.1	329.7		5.37	0.00	0.00	1.53		10.35	18.92	83.84	86.68	01-Sep-16 12:00:00		15.72	18.92	83.84	88.21
01-Sep-16 13:00:00	01-Sep-16 14:00:00		33.49	0.00	0.00	11.75	2.1	329.7		11.04	0.00	0.00	3.88		10.35	18.92	83.84	86.68	01-Sep-16 13:00:00		21.39	18.92	83.84	90.56
01-Sep-16 14:00:00	01-Sep-16 15:00:00		34.62	0.00	0.00	4.10	2.1	329.7		11.41	0.00	0.00	1.35		10.35	18.92	83.84	86.68	01-Sep-16 14:00:00		21.76	18.92	83.84	88.03
01-Sep-16 15:00:00	01-Sep-16 16:00:00		55.91	0.00	0.00	15.51	2.1	329.7		18.43	0.00	0.00	5.11		10.35	18.92	83.84	86.68	01-Sep-16 15:00:00		28.78	18.92	83.84	91.79
01-Sep-16 16:00:00	01-Sep-16 17:00:00		65.62	0.00	0.00	45.11	2.1	329.7		21.64	0.00	0.00	14.87		10.35	18.92	83.84	86.68	01-Sep-16 16:00:00		31.99	18.92	83.84	101.55
01-Sep-16 17:00:00	01-Sep-16 18:00:00		62.38	0.00	0.00	4.20	2.1	329.7		20.57	0.00	0.00	1.38		10.35	18.92	83.84	86.68	01-Sep-16 17:00:00		30.92	18.92	83.84	88.06
01-Sep-16 18:00:00	01-Sep-16 19:00:00		36.87	0.00	0.00	116.86	2.1	329.7		12.16	0.00	0.00	38.53		10.35	18.92	83.84	86.68	01-Sep-16 18:00:00		22.51	18.92	83.84	125.21
01-Sep-16 19:00:00	01-Sep-16 20:00:00		24.96	0.00	0.00	5.86	2.1	329.7		8.23	0.00	0.00	1.93		10.35	18.92	83.84	86.68	01-Sep-16 19:00:00		18.58	18.92	83.84	88.61
01-Sep-16 20:00:00	01-Sep-16 21:00:00		43.26	0.00	0.00	5.66	2.1	329.7		14.26	0.00	0.00	1.86		10.35	18.92	83.84	86.68	01-Sep-16 20:00:00		24.61	18.92	83.84	88.54
01-Sep-16 21:00:00	01-Sep-16 22:00:00		35.54	0.00	0.00	5.73	2.1	329.7		11.72	0.00	0.00	1.89		10.35	18.92	83.84	86.68	01-Sep-16 21:00:00		22.07	18.92	83.84	88.57
01-Sep-16 22:00:00	01-Sep-16 23:00:00		71.04	0.00	0.00	7.53	2.1	329.7		23.42	0.00	0.00	2.48		10.35	18.92	83.84	86.68	01-Sep-16 22:00:00		33.77	18.92	83.84	89.16
01-Sep-16 23:00:00	02-Sep-16 00:00:00		57.19	0.00	0.00	7.42	2.1	329.7		18.85	0.00	0.00	2.45		10.35	18.92	83.84	86.68	01-Sep-16 23:00:00		29.20	18.92	83.84	89.13
02-Sep-16 00:00:00	02-Sep-16 01:00:00		76.13	0.00	0.00	5.63	2.1	329.7		25.10	0.00	0.00	1.86		10.35	18.92	83.84	86.68	02-Sep-16 00:00:00		35.45	18.92	83.84	88.54
02-Sep-16 01:00:00	02-Sep-16 02:00:00		74.87	0.00	0.00	25.93	2.1	329.7		24.68	0.00	0.00	8.55		10.35	18.92	83.84	86.68	02-Sep-16 01:00:00		35.03	18.92	83.84	95.23
02-Sep-16 02:00:00	02-Sep-16 03:00:00		74.81	0.00	0.00	5.62	2.1	329.7		24.67	0.00	0.00	1.85		10.35	18.92	83.84	86.68	02-Sep-16 02:00:00		35.02	18.92	83.84	88.53
02-Sep-16 03:00:00	02-Sep-16 04:00:00		54.57	0.00	0.00	24.60	2.1	329.7		17.99	0.00	0.00	8.11		10.35	18.92	83.84	86.68	02-Sep-16 03:00:00		28.34	18.92	83.84	94.79
02-Sep-16 04:00:00	02-Sep-16 05:00:00		18.86	0.00	0.00	7.63	2.1	329.7		6.22	0.00	0.00	2.52		10.35	18.92	83.84	86.68	02-Sep-16 04:00:00		16.57	18.92	83.84	89.20
02-Sep-16 05:00:00	02-Sep-16 06:00:00		20.59	0.00	0.00	5.69	2.1	329.7		6.79	0.00	0.00	1.88		10.35	18.92	83.84	86.68	02-Sep-16 05:00:00		17.14	18.92	83.84	88.56
02-Sep-16 06:00:00	02-Sep-16 07:00:00		25.33	0.00	0.00	6.17	2.1	329.7		8.35	0.00	0.00	2.04		10.35	18.92	83.84	86.68	02-Sep-16 06:00:00		18.70	18.92	83.84	88.72
02-Sep-16 07:00:00	02-Sep-16 08:00:00		29.45	0.00	0.00	5.55	2.1	329.7		9.71	0.00	0.00	1.83		10.35	18.92	83.84	86.68	02-Sep-16 07:00:00		20.06	18.92	83.84	88.51
02-Sep-16 08:00:00	02-Sep-16 09:00:00		32.59	0.00	0.00	27.64	2.1	329.7		10.74	0.00	0.00	9.11		10.35	18.92	83.84	86.68	02-Sep-16 08:00:00		21.09	18.92	83.84	95.79
02-Sep-16 09:00:00	02-Sep-16 10:00:00		31.77	0.00	0.00	5.60	2.1	329.7		10.47	0.00	0.00	1.85		10.35	18.92	83.84	86.68	02-Sep-16 09:00:00		20.82	18.92	83.84	88.53
02-Sep-16 10:00:00	02-Sep-16 11:00:00		32.48	0.00	0.00	5.72	2.1	329.7		10.71	0.00	0.00	1.89		10.35	18.92	83.84	86.68	02-Sep-16 10:00:00		21.06	18.92	83.84	88.57
02-Sep-16 11:00:00	02-Sep-16 12:00:00		33.88	0.00	0.00	5.83	2.1	329.7		11.17	0.00	0.00	1.92		10.35	18.92	83.84	86.68	02-Sep-16 11:00:00		21.52	18.92	83.84	88.60
02-Sep-16 12:00:00	02-Sep-16 13:00:00		34.19	0.00	0.00	7.56	2.1	329.7		11.27	0.00	0.00	2.49		10.35	18.92	83.84	86.68	02-Sep-16 12:00:00		21.62	18.92	83.84	89.17
02-Sep-16 13:00:00	02-Sep-16 14:00:00		32.39	0.00	0.00	5.82	2.1	329.7		10.68	0.00	0.00	1.92		10.35	18.92	83.84	86.68	02-Sep-16 13:00:00		21.03	18.92	83.84	88.60
02-Sep-16 14:00:00	02-Sep-16 15:00:00		29.78	0.00	0.00	5.88	2.1	329.7		9.82	0.00	0.00	1.94		10.35	18.92	83.84	86.68	02-Sep-16 14:00:00		20.17	18.92	83.84	88.62
02-Sep-16 15:00:00	02-Sep-16 16:00:00		48.13	0.00	0.00	5.93	2.1	329.7		15.87	0.00	0.00	1.96		10.35	18.92	83.84	86.68	02-Sep-16 15:00:00		26.22	18.92	83.84	88.64
02-Sep-16 16:00:00	02-Sep-16 17:00:00		58.89	0.00	0.00	6.98	2.1	329.7		19.42	0.00	0.00	2.30		10.35	18.92	83.84	86.68	02-Sep-16 16:00:00		29.77	18.92	83.84	88.98
02-Sep-16 17:00:00	02-Sep-16 18:00:00		65.47	0.00	0.00	5.69	2.1	329.7		21.58	0.00	0.00	1.88		10.35	18.92	83.84	86.68	02-Sep-16 17:00:00		31.93	18.92	83.84	88.56
02-Sep-16 18:00:00	02-Sep-16 19:00:00		66.20	0.00	0.00	10.41	2.1	329.7		21.83	0.00	0.00	3.43		10.35	18.92	83.84	86.68	02-Sep-16 18:00:00		32.18	18.92	83.84	90.11
02-Sep-16 19:00:00	02-Sep-16 20:00:00		67.02	0.00	0.00	5.66	2.1	329.7		22.10	0.00	0.00	1.86		10.35	18.92	83.84	86.68	02-Sep-16 19:00:00		32.45	18.92	83.84	88.54
02-Sep-16 20:00:00	02-Sep-16 21:00:00		70.09	0.00	0.00	17.84	2.1	329.7		23.11	0.00	0.00	5.88		10.35	18.92	83.84	86.68	02-Sep-16 20:00:00		33.46	18.92	83.84	92.56
02-Sep-16 21:00:00	02-Sep-16 22:00:00		20.02	0.00	0.00	80.70	2.1	329.7		6.60	0.00	0.00	26.61		10.35	18.92	83.84	86.68	02-Sep-16 21:00:00		16.95	18.92	83.84	113.29
02-Sep-16 22:00:00	02-Sep-16 23:00:00		17.84	0.00	0.00	5.46	2.1	329.7		5.88	0.00	0.00	1.80		10.35	18.92	83.84	86.68	02-Sep-16 22:00:00		16.23	18.92	83.84	88.48
02-Sep-16 23:00:00	03-Sep-16 00:00:00		17.64	0.00	0.00	34.57	2.1	329.7		5.82	0.00	0.00	11.40		10.35	18.92	83.84	86.68	02-Sep-16 23:00:00		16.17	18.92	83.84	98.08
03-Sep-16 00:00:00	03-Sep-16 01:00:00		17.44	0.00	0.00	6.64	2.1	329.7		5.75	0.00	0.00	2.19		10.35	18.92	83.84	86.68	03-Sep-16 00:00:00		16.10	18.92	83.84	88.87
03-Sep-16 01:00:00	03-Sep-16 02:00:00		17.68	0.00	0.00	5.20	2.1	329.7		5.83	0.00	0.00	1.72		10.35	18.92	83.84	86.68	03-Sep-16 01:00:00		16.18	18.92	83.84	88.40
03-Sep-16 02:00:00	03-Sep-16 03:00:00		37.83	0.00	0.00	5.15	2.1	329.7		12.47	0.00	0.00	1.70		10.35	18.92	83.84	86.68	03-Sep-16 02:00:00		22.82	18.92	83.84	88.38
03-Sep-16 03:00:00	03-Sep-16 04:00:00		69.79	0.00	0.00	27.00	2.1	329.7		23.01	0.00	0.00	8.90		10.35	18.92	83.84	86.68	03-Sep-16 03:00:00		33.36	18.92	83.84	95.58
03-Sep-16 04:00:00	03-Sep-16 05:00:00		74.53	0.00	0.00	5.44	2.1	329.7		24.57	0.00	0.00	1.79		10.35	18.92	83.84	86.68	03-Sep-16 04:00:00		34.92	18.92	83.84	88.47
03-Sep-16 05:00:00	03-Sep-16 06:00:00		74.76	0.00	0.00	16.31	2.1	329.7		24.65	0.00	0.00	5.38		10.35	18.92	83.84	86.68	03-Sep-16 05:00:00		35.00	18.92	83.84	92.06
03-Sep-16 06:00:00	03-Sep-16 07:00:00		75.86	0.00	0.00	5.19	2.1	329.7		25.01	0.00	0.00	1.71		10.35	18.92	83.84	86.68	03-Sep-16 06:00:00		35.36	18.92	83.84	88.39
03-Sep-16 07:00:00	03-Sep-16 08:00:00		75.45	0.00	0.00	5.20	2.1	329.7		24.88	0.00	0.00	1.71		10.35	18.92	83.84	86.68	03-Sep-16 07:00:00		35.23	18.92	83.84	88.39
03-Sep-16 08:00:00	03-Sep-16 09:00:00		49.74	0.00	0.00	5.20	2.1	329.7		16.40	0.00	0.00	1.71		10.35	18.92	83.84	86.68	03-Sep-16 08:00:00		26.75	18.92	83.84	88.39
03-Sep-16 09:00:00	03-Sep-16 10:00:00		14.03	0.00	0.00	32.65	2.1	329.7		4.63	0.00	0.00	10.77		10.35	18.92	83.84	86.68	03-Sep-16 09:00:00		14.98	18.92	83.84	97.45
03-Sep-16 10:00:00	03-Sep-16 11:00:00		18.61	0.00	0.00	4.91	2.1	329.7		6.14	0.00	0.00	1.62		10.35	18.92	83.84	86.68	03-Sep-16 10:00:00		16.49	18.92	83.84	88.30
03-Sep-16 11:00:00	03-Sep-16 12:00:00		16.51	0.00	0.00	28.45	2.1	329.7		5.44	0.00	0.00	9.38		10.35	18.92	83.84	86.68	03-Sep-16 11:00:00		15.79	18.92	83.84	96.06
03-Sep-16 12:00:00	03-Sep-16 13:00:00		15.64	0.00	0.00	4.57	2.1	329.7		5.16	0.00	0.00	1.51		10.35	18.92	83.84	86.68	03-Sep-16 12:00:00		15.51	18.92	83.84	88.19
03-Sep-16 13:00:00	03-Sep-16 14:00:00		16.55	0.00	0.00	4.58	2.1	329.7		5.46	0.00	0.00	1.51		10.35	18.92	83.84	86.68	03-Sep-16 13:00:00		15.81	18.92	83.84	88.19
03-Sep-16 14:00:00	03-Sep-16 15:00:00		16.99	0.00	0.00	4.58	2.1	329.7		5.60	0.00	0.00	1.51		10.35	18.92	83.84	86.68	03-Sep-16 14:00:00		15.95	18.92	83.84	88.19
03-Sep-16 15:00:00	03-Sep-16 16:00:00		7.57	0.00	0.00	56.33	2.1	329.7		2.49	0.00	0.00	18.57		10.35	18.92	83.84	86.68	03-Sep-16 15:00:00		12.84	18.92	83.84	105.25
03-Sep-16 16:00:00	03-Sep-16 17:00:00		3.52	0.00	0.00	44.85	2.1	329.7		1.16	0.00	0.00	14.79		10.35	18.92	83.84	86.68	03-Sep-16 16:00:00		11.51	18.92	83.84	101.47
03-Sep-16 17:00:00	03-Sep-16 18:00:00		10.99	0.00	0.00	6.79	2.1	329.7		3.62	0.00	0.00	2.24		10.35	18.92	83.84	86.68	03-Sep-16 17:00:00		13.97	18.92	83.84	88.92
03-Sep-16 18:00:00	03-Sep-16 19:00:00		17.59	0.00	0.00	4.49	2.1	329.7		5.80	0.00	0.00	1.48		10.35	18.92	83.84	86.68	03-Sep-16 18:00:00		16.15	18.92	83.84	88.16
03-Sep-16 19:00:00	03-Sep-16 20:00:00		19.08	0.00	0.00	41.23	2.1	329.7		6.29	0.00	0.00	13.59		10.35	18.92	83.84	86.68	03-Sep-16 19:00:00		16.64	18.92	83.84	100.27
03-Sep-16 20:00:00	03-Sep-16 21:00:00		15.50	0.00	0.00	25.51	2.1	329.7		5.11	0.00	0.00	8.41		10.35	18.92	83.84	86.68	03-Sep-16 20:00:00		15.46	18.92	83.84	95.09
03-Sep-16 21:00:00	03-Sep-16 22:00:00		14.24	0.00	0.00	5.17	2.1	329.7		4.69	0.00	0.00	1.70		10.35	18.92	83.84	86.68	03-Sep-16 21:00:00		15.04	18.92	83.84	88.38
03-Sep-16 22:00:00	03-Sep-16 23:00:00		10.05	0.00	0.00	40.04	2.1	329.7		3.31	0.00	0.00	13.20		10.35	18.92	83.84	86.68	03-Sep-16 22:00:00		13.66	18.92	83.84	99.88
03-Sep-16 23:00:00	04-Sep-16 00:00:00		7.72	0.00	0.00	25.16	2.1	329.7		2.55	0.00	0.00	8.29		10.35	18.92	83.84	86.68	03-Sep-16 23:00:00		12.90	18.92	83.84	94.97
04-Sep-16 00:00:00	04-Sep-16 01:00:00		28.06	0.00	0.00	5.44	2.1	329.7		9.25	0.00	0.00	1.79		10.35	18.92	83.84	86.68	04-Sep-16 00:00:00		19.60	18.92	83.84	88.47
04-Sep-16 01:00:00	04-Sep-16 02:00:00		54.68	0.00	0.00	5.54	2.1	329.7		18.03	0.00	0.00	1.83		10.35	18.92	83.84	86.68	04-Sep-16 01:00:00		28.38	18.92	83.84	88.51
04-Sep-16 02:00:00	04-Sep-16 03:00:00		44.15	0.00	0.00	99.31	2.1	329.7		14.56	0.00	0.00	32.74		10.35	18.92	83.84	86.68	04-Sep-16 02:00:00		24.91	18.92	83.84	119.42
04-Sep-16 03:00:00	04-Sep-16 04:00:00		66.90	0.00	0.00	5.81	2.1	329.7		22.06	0.00	0.00	1.92		10.35	18.92	83.84	86.68	04-Sep-16 03:00:00		32.41	18.92	83.84	88.60
04-Sep-16 04:00:00	04-Sep-16 05:00:00		36.92	0.00	0.00	5.76	2.1	329.7		12.17	0.00	0.00	1.90		10.35	18.92	83.84	86.68	04-Sep-16 04:00:00		22.52	18.92	83.84	88.58
04-Sep-16 05:00:00	04-Sep-16 06:00:00		32.89	0.00	0.00	5.70	2.1	329.7		10.85	0.00	0.00	1.88		10.35	18.92	83.84	86.68	04-Sep-16 05:00:00		21.20	18.92	83.84	88.56
04-Sep-16 06:00:00	04-Sep-16 07:00:00		10.78	0.00	0.00	5.66	2.1	329.7		3.55	0.00	0.00	1.86		10.35	18.92	83.84	86.68	04-Sep-16 06:00:00		13.90	18.92	83.84	88.54
04-Sep-16 07:00:00	04-Sep-16 08:00:00		16.51	0.00	0.00	5.67	2.1	329.7		5.44	0.00	0.00	1.87		10.35	18.92	83.84	86.68	04-Sep-16 07:00:00		15.79	18.92	83.84	88.55
04-Sep-16 08:00:00	04-Sep-16 09:00:00		23.55	0.00	0.00	70.34	2.1	329.7		7.76	0.00	0.00	23.19		10.35	18.92	83.84	86.68	04-Sep-16 08:00:00		18.11	18.92	83.84	109.87
04-Sep-16 09:00:00	04-Sep-16 10:00:00		30.31	0.00	0.00	5.56	2.1	329.7		9.99	0.00	0.00	1.83		10.35	18.92	83.84	86.68	04-Sep-16 09:00:00		20.34	18.92	83.84	88.51
04-Sep-16 10:00:00	04-Sep-16 11:00:00		28.51	0.00	0.00	51.53	2.1	329.7		9.40	0.00	0.00	16.99		10.35	18.92	83.84	86.68	04-Sep-16 10:00:00		19.75	18.92	83.84	103.67
04-Sep-16 11:00:00	04-Sep-16 12:00:00		17.98	0.00	0.00	5.26	2.1	329.7		5.93	0.00	0.00	1.73		10.35	18.92	83.84	86.68	04-Sep-16 11:00:00		16.28	18.92	83.84	88.41
04-Sep-16 12:00:00	04-Sep-16 13:00:00		24.75	0.00	0.00	37.35	2.1	329.7		8.16	0.00	0.00	12.31		10.35	18.92	83.84	86.68	04-Sep-16 12:00:00		18.51	18.92	83.84	98.99
04-Sep-16 13:00:00	04-Sep-16 14:00:00		21.96	0.00	0.00	4.97	2.1	329.7		7.24	0.00	0.00	1.64		10.35	18.92	83.84	86.68	04-Sep-16 13:00:00		17.59	18.92	83.84	88.32
04-Sep-16 14:00:00	04-Sep-16 15:00:00		9.15	0.00	0.00	4.79	2.1	329.7		3.02	0.00	0.00	1.58		10.35	18.92	83.84	86.68	04-Sep-16 14:00:00		13.37	18.92	83.84	88.26
04-Sep-16 15:00:00	04-Sep-16 16:00:00		16.97	0.00	0.00	5.00	2.1	329.7		5.59	0.00	0.00	1.65		10.35	18.92	83.84	86.68	04-Sep-16 15:00:00		15.94	18.92	83.84	88.33
04-Sep-16 16:00:00	04-Sep-16 17:00:00		30.16	0.00	0.00	4.52	2.1	329.7		9.94	0.00	0.00	1.49		10.35	18.92	83.84	86.68	04-Sep-16 16:00:00		20.29	18.92	83.84	88.17
04-Sep-16 17:00:00	04-Sep-16 18:00:00		38.17	0.00	0.00	4.54	2.1	329.7		12.58	0.00	0.00	1.50		10.35	18.92	83.84	86.68	04-Sep-16 17:00:00		22.93	18.92	83.84	88.18
04-Sep-16 18:00:00	04-Sep-16 19:00:00		15.81	0.00	0.00	4.55	2.1	329.7		5.21	0.00	0.00	1.50		10.35	18.92	83.84	86.68	04-Sep-16 18:00:00		15.56	18.92	83.84	88.18
04-Sep-16 19:00:00	04-Sep-16 20:00:00		36.52	0.00	0.00	28.10	2.1	329.7		12.04	0.00	0.00	9.26		10.35	18.92	83.84	86.68	04-Sep-16 19:00:00		22.39	18.92	83.84	95.94
04-Sep-16 20:00:00	04-Sep-16 21:00:00		36.67	0.00	0.00	4.63	2.1	329.7		12.09	0.00	0.00	1.53		10.35	18.92	83.84	86.68	04-Sep-16 20:00:00		22.44	18.92	83.84	88.21
04-Sep-16 21:00:00	04-Sep-16 22:00:00		33.58	0.00	0.00	11.12	2.1	329.7		11.07	0.00	0.00	3.67		10.35	18.92	83.84	86.68	04-Sep-16 21:00:00		21.42	18.92	83.84	90.35
04-Sep-16 22:00:00	04-Sep-16 23:00:00		38.72	0.00	0.00	5.09	2.1	329.7		12.77	0.00	0.00	1.68		10.35	18.92	83.84	86.68	04-Sep-16 22:00:00		23.12	18.92	83.84	88.36
04-Sep-16 23:00:00	05-Sep-16 00:00:00		39.71	0.00	0.00	5.43	2.1	329.7		13.09	0.00	0.00	1.79		10.35	18.92	83.84	86.68	04-Sep-16 23:00:00		23.44	18.92	83.84	88.47
05-Sep-16 00:00:00	05-Sep-16 01:00:00		37.11	0.00	0.00	5.36	2.1	329.7		12.24	0.00	0.00	1.77		10.35	18.92	83.84	86.68	05-Sep-16 00:00:00		22.59	18.92	83.84	88.45
05-Sep-16 01:00:00	05-Sep-16 02:00:00		35.18	0.00	0.00	18.20	2.1	329.7		11.60	0.00	0.00	6.00		10.35	18.92	83.84	86.68	05-Sep-16 01:00:00		21.95	18.92	83.84	92.68
05-Sep-16 02:00:00	05-Sep-16 03:00:00		23.75	0.00	0.00	5.48	2.1	329.7		7.83	0.00	0.00	1.81		10.35	18.92	83.84	86.68	05-Sep-16 02:00:00		18.18	18.92	83.84	88.49
05-Sep-16 03:00:00	05-Sep-16 04:00:00		38.92	0.00	0.00	25.53	2.1	329.7		12.83	0.00	0.00	8.42		10.35	18.92	83.84	86.68	05-Sep-16 03:00:00		23.18	18.92	83.84	95.10
05-Sep-16 04:00:00	05-Sep-16 05:00:00		58.21	0.00	0.00	76.20	2.1	329.7		19.19	0.00	0.00	25.12		10.35	18.92	83.84	86.68	05-Sep-16 04:00:00		29.54	18.92	83.84	111.80
05-Sep-16 05:00:00	05-Sep-16 06:00:00		42.36	0.00	0.00	8.94

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
07-Sep-16 07:00:00	07-Sep-16 08:00:00		27.75	0.00	0.00	13.39	2.1	329.7		9.15	0.00	0.00	4.41		10.35	18.92	83.84	86.68	07-Sep-16 07:00:00		**19.50**	**18.92**	**83.84**	**91.09**
07-Sep-16 08:00:00	07-Sep-16 09:00:00		13.17	0.00	0.00	5.46	2.1	329.7		4.34	0.00	0.00	1.80		10.35	18.92	83.84	86.68	07-Sep-16 08:00:00		**14.69**	**18.92**	**83.84**	**88.48**
07-Sep-16 09:00:00	07-Sep-16 10:00:00		12.69	0.00	0.00	5.12	2.1	329.7		4.18	0.00	0.00	1.69		10.35	18.92	83.84	86.68	07-Sep-16 09:00:00		**14.53**	**18.92**	**83.84**	**88.37**
07-Sep-16 10:00:00	07-Sep-16 11:00:00		43.19	0.00	0.00	19.11	2.1	329.7		14.24	0.00	0.00	6.30		10.35	18.92	83.84	86.68	07-Sep-16 10:00:00		**24.59**	**18.92**	**83.84**	**92.98**
07-Sep-16 11:00:00	07-Sep-16 12:00:00		32.61	0.00	0.00	4.24	2.1	329.7		10.75	0.00	0.00	1.40		10.35	18.92	83.84	86.68	07-Sep-16 11:00:00		**21.10**	**18.92**	**83.84**	**88.08**
07-Sep-16 12:00:00	07-Sep-16 13:00:00		17.50	0.00	0.00	4.38	2.1	329.7		5.77	0.00	0.00	1.44		10.35	18.92	83.84	86.68	07-Sep-16 12:00:00		**16.12**	**18.92**	**83.84**	**88.12**
07-Sep-16 13:00:00	07-Sep-16 14:00:00		18.63	0.00	0.00	3.89	2.1	329.7		6.14	0.00	0.00	1.28		10.35	18.92	83.84	86.68	07-Sep-16 13:00:00		**16.49**	**18.92**	**83.84**	**87.96**
07-Sep-16 14:00:00	07-Sep-16 15:00:00		14.52	0.00	0.00	4.87	2.1	329.7		4.79	0.00	0.00	1.61		10.35	18.92	83.84	86.68	07-Sep-16 14:00:00		**15.14**	**18.92**	**83.84**	**88.29**
07-Sep-16 15:00:00	07-Sep-16 16:00:00		21.64	0.00	0.00	38.08	2.1	329.7		7.13	0.00	0.00	12.55		10.35	18.92	83.84	86.68	07-Sep-16 15:00:00		**17.48**	**18.92**	**83.84**	**99.23**
07-Sep-16 16:00:00	07-Sep-16 17:00:00		4.24	0.00	0.00	3.54	2.1	329.7		1.40	0.00	0.00	1.17		10.35	18.92	83.84	86.68	07-Sep-16 16:00:00		**11.75**	**18.92**	**83.84**	**87.85**
07-Sep-16 17:00:00	07-Sep-16 18:00:00		2.38	0.00	0.00	3.51	2.1	329.7		0.78	0.00	0.00	1.16		10.35	18.92	83.84	86.68	07-Sep-16 17:00:00		**11.13**	**18.92**	**83.84**	**87.84**
07-Sep-16 18:00:00	07-Sep-16 19:00:00		2.55	0.00	0.00	3.77	2.1	329.7		0.84	0.00	0.00	1.24		10.35	18.92	83.84	86.68	07-Sep-16 18:00:00		**11.19**	**18.92**	**83.84**	**87.92**
07-Sep-16 19:00:00	07-Sep-16 20:00:00		3.08	0.00	0.00	3.72	2.1	329.7		1.02	0.00	0.00	1.23		10.35	18.92	83.84	86.68	07-Sep-16 19:00:00		**11.37**	**18.92**	**83.84**	**87.91**
07-Sep-16 20:00:00	07-Sep-16 21:00:00		3.46	0.00	0.00	4.01	2.1	329.7		1.14	0.00	0.00	1.32		10.35	18.92	83.84	86.68	07-Sep-16 20:00:00		**11.49**	**18.92**	**83.84**	**88.00**
07-Sep-16 21:00:00	07-Sep-16 22:00:00		33.68	0.00	0.00	4.31	2.1	329.7		11.11	0.00	0.00	1.42		10.35	18.92	83.84	86.68	07-Sep-16 21:00:00		**21.46**	**18.92**	**83.84**	**88.10**
07-Sep-16 22:00:00	07-Sep-16 23:00:00		21.44	0.00	0.00	12.29	2.1	329.7		7.07	0.00	0.00	4.05		10.35	18.92	83.84	86.68	07-Sep-16 22:00:00		**17.42**	**18.92**	**83.84**	**90.73**
07-Sep-16 23:00:00	08-Sep-16 00:00:00		9.40	0.00	0.00	4.71	2.1	329.7		3.10	0.00	0.00	1.55		10.35	18.92	83.84	86.68	07-Sep-16 23:00:00		**13.45**	**18.92**	**83.84**	**88.23**
08-Sep-16 00:00:00	08-Sep-16 01:00:00		52.89	0.00	0.00	13.94	2.1	329.7		17.44	0.00	0.00	4.60		10.35	18.92	83.84	86.68	08-Sep-16 00:00:00		**27.79**	**18.92**	**83.84**	**91.28**
08-Sep-16 01:00:00	08-Sep-16 02:00:00		48.86	0.00	0.00	5.11	2.1	329.7		16.11	0.00	0.00	1.69		10.35	18.92	83.84	86.68	08-Sep-16 01:00:00		**26.46**	**18.92**	**83.84**	**88.37**
08-Sep-16 02:00:00	08-Sep-16 03:00:00		61.50	0.00	0.00	43.86	2.1	329.7		20.28	0.00	0.00	14.46		10.35	18.92	83.84	86.68	08-Sep-16 02:00:00		**30.63**	**18.92**	**83.84**	**101.14**
08-Sep-16 03:00:00	08-Sep-16 04:00:00		29.87	0.00	0.00	19.24	2.1	329.7		9.85	0.00	0.00	6.34		10.35	18.92	83.84	86.68	08-Sep-16 03:00:00		**20.20**	**18.92**	**83.84**	**93.02**
08-Sep-16 04:00:00	08-Sep-16 05:00:00		51.65	0.00	0.00	5.22	2.1	329.7		17.03	0.00	0.00	1.72		10.35	18.92	83.84	86.68	08-Sep-16 04:00:00		**27.38**	**18.92**	**83.84**	**88.40**
08-Sep-16 05:00:00	08-Sep-16 06:00:00		60.11	0.00	0.00	5.29	2.1	329.7		19.82	0.00	0.00	1.74		10.35	18.92	83.84	86.68	08-Sep-16 05:00:00		**30.17**	**18.92**	**83.84**	**88.42**
08-Sep-16 06:00:00	08-Sep-16 07:00:00		40.96	0.00	0.00	5.68	2.1	329.7		13.50	0.00	0.00	1.87		10.35	18.92	83.84	86.68	08-Sep-16 06:00:00		**23.85**	**18.92**	**83.84**	**88.55**
08-Sep-16 07:00:00	08-Sep-16 08:00:00		49.08	0.00	0.00	36.48	2.1	329.7		16.18	0.00	0.00	12.03		10.35	18.92	83.84	86.68	08-Sep-16 07:00:00		**26.53**	**18.92**	**83.84**	**98.71**
08-Sep-16 08:00:00	08-Sep-16 09:00:00		75.72	0.00	0.00	5.30	2.1	329.7		24.96	0.00	0.00	1.75		10.35	18.92	83.84	86.68	08-Sep-16 08:00:00		**35.31**	**18.92**	**83.84**	**88.43**
08-Sep-16 09:00:00	08-Sep-16 10:00:00		56.98	0.00	0.00	25.53	2.1	329.7		18.79	0.00	0.00	8.42		10.35	18.92	83.84	86.68	08-Sep-16 09:00:00		**29.14**	**18.92**	**83.84**	**95.10**
08-Sep-16 10:00:00	08-Sep-16 11:00:00		42.46	0.00	0.00	4.89	2.1	329.7		14.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	08-Sep-16 10:00:00		**24.35**	**18.92**	**83.84**	**88.29**
08-Sep-16 11:00:00	08-Sep-16 12:00:00		41.41	0.00	0.00	4.58	2.1	329.7		13.65	0.00	0.00	1.51		10.35	18.92	83.84	86.68	08-Sep-16 11:00:00		**24.00**	**18.92**	**83.84**	**88.19**
08-Sep-16 12:00:00	08-Sep-16 13:00:00		29.87	0.00	0.00	4.26	2.1	329.7		9.85	0.00	0.00	1.41		10.35	18.92	83.84	86.68	08-Sep-16 12:00:00		**20.20**	**18.92**	**83.84**	**88.09**
08-Sep-16 13:00:00	08-Sep-16 14:00:00		24.54	0.00	0.00	4.23	2.1	329.7		8.09	0.00	0.00	1.39		10.35	18.92	83.84	86.68	08-Sep-16 13:00:00		**18.44**	**18.92**	**83.84**	**88.07**
08-Sep-16 14:00:00	08-Sep-16 15:00:00		22.58	0.00	0.00	3.96	2.1	329.7		7.44	0.00	0.00	1.30		10.35	18.92	83.84	86.68	08-Sep-16 14:00:00		**17.79**	**18.92**	**83.84**	**87.98**
08-Sep-16 15:00:00	08-Sep-16 16:00:00		36.86	0.00	0.00	3.96	2.1	329.7		12.15	0.00	0.00	1.31		10.35	18.92	83.84	86.68	08-Sep-16 15:00:00		**22.50**	**18.92**	**83.84**	**87.99**
08-Sep-16 16:00:00	08-Sep-16 17:00:00		33.73	0.00	0.00	3.96	2.1	329.7		11.12	0.00	0.00	1.31		10.35	18.92	83.84	86.68	08-Sep-16 16:00:00		**21.47**	**18.92**	**83.84**	**87.99**
08-Sep-16 17:00:00	08-Sep-16 18:00:00		59.16	0.00	0.00	3.97	2.1	329.7		19.51	0.00	0.00	1.31		10.35	18.92	83.84	86.68	08-Sep-16 17:00:00		**29.86**	**18.92**	**83.84**	**87.99**
08-Sep-16 18:00:00	08-Sep-16 19:00:00		49.60	0.00	0.00	4.30	2.1	329.7		16.35	0.00	0.00	1.42		10.35	18.92	83.84	86.68	08-Sep-16 18:00:00		**26.70**	**18.92**	**83.84**	**88.10**
08-Sep-16 19:00:00	08-Sep-16 20:00:00		48.72	0.00	0.00	4.21	2.1	329.7		16.06	0.00	0.00	1.39		10.35	18.92	83.84	86.68	08-Sep-16 19:00:00		**26.41**	**18.92**	**83.84**	**88.07**
08-Sep-16 20:00:00	08-Sep-16 21:00:00		34.58	0.00	0.00	4.49	2.1	329.7		11.40	0.00	0.00	1.48		10.35	18.92	83.84	86.68	08-Sep-16 20:00:00		**21.75**	**18.92**	**83.84**	**88.16**
08-Sep-16 21:00:00	08-Sep-16 22:00:00		25.32	0.00	0.00	4.77	2.1	329.7		8.35	0.00	0.00	1.57		10.35	18.92	83.84	86.68	08-Sep-16 21:00:00		**18.70**	**18.92**	**83.84**	**88.25**
08-Sep-16 22:00:00	08-Sep-16 23:00:00		26.80	0.00	0.00	5.03	2.1	329.7		8.84	0.00	0.00	1.66		10.35	18.92	83.84	86.68	08-Sep-16 22:00:00		**19.19**	**18.92**	**83.84**	**88.34**
08-Sep-16 23:00:00	09-Sep-16 00:00:00		20.66	0.00	0.00	28.55	2.1	329.7		6.81	0.00	0.00	9.41		10.35	18.92	83.84	86.68	08-Sep-16 23:00:00		**17.16**	**18.92**	**83.84**	**96.09**
09-Sep-16 00:00:00	09-Sep-16 01:00:00		18.06	0.00	0.00	55.70	2.1	329.7		5.95	0.00	0.00	18.37		10.35	18.92	83.84	86.68	09-Sep-16 00:00:00		**16.30**	**18.92**	**83.84**	**105.05**
09-Sep-16 01:00:00	09-Sep-16 02:00:00		11.00	0.00	0.00	16.77	2.1	329.7		3.63	0.00	0.00	5.53		10.35	18.92	83.84	86.68	09-Sep-16 01:00:00		**13.98**	**18.92**	**83.84**	**92.21**
09-Sep-16 02:00:00	09-Sep-16 03:00:00		22.39	0.00	0.00	5.45	2.1	329.7		7.38	0.00	0.00	1.80		10.35	18.92	83.84	86.68	09-Sep-16 02:00:00		**17.73**	**18.92**	**83.84**	**88.48**
09-Sep-16 03:00:00	09-Sep-16 04:00:00		0.59	0.00	0.00	5.53	2.1	329.7		0.19	0.00	0.00	1.82		10.35	18.92	83.84	86.68	09-Sep-16 03:00:00		**10.54**	**18.92**	**83.84**	**88.50**
09-Sep-16 04:00:00	09-Sep-16 05:00:00		5.64	0.00	0.00	8.28	2.1	329.7		1.86	0.00	0.00	2.73		10.35	18.92	83.84	86.68	09-Sep-16 04:00:00		**12.21**	**18.92**	**83.84**	**89.41**
09-Sep-16 05:00:00	09-Sep-16 06:00:00		40.53	0.00	0.00	5.65	2.1	329.7		13.36	0.00	0.00	1.86		10.35	18.92	83.84	86.68	09-Sep-16 05:00:00		**23.71**	**18.92**	**83.84**	**88.54**
09-Sep-16 06:00:00	09-Sep-16 07:00:00		44.00	0.00	0.00	6.08	2.1	329.7		14.51	0.00	0.00	2.00		10.35	18.92	83.84	86.68	09-Sep-16 06:00:00		**24.86**	**18.92**	**83.84**	**88.68**
09-Sep-16 07:00:00	09-Sep-16 08:00:00		53.86	0.00	0.00	5.72	2.1	329.7		17.76	0.00	0.00	1.89		10.35	18.92	83.84	86.68	09-Sep-16 07:00:00		**28.11**	**18.92**	**83.84**	**88.57**
09-Sep-16 08:00:00	09-Sep-16 09:00:00		85.97	0.00	0.00	9.01	2.1	329.7		28.34	0.00	0.00	2.97		10.35	18.92	83.84	86.68	09-Sep-16 08:00:00		**38.69**	**18.92**	**83.84**	**89.65**
09-Sep-16 09:00:00	09-Sep-16 10:00:00		87.72	0.00	0.00	5.62	2.1	329.7		28.92	0.00	0.00	1.85		10.35	18.92	83.84	86.68	09-Sep-16 09:00:00		**39.27**	**18.92**	**83.84**	**88.53**
09-Sep-16 10:00:00	09-Sep-16 11:00:00		83.66	0.00	0.00	5.31	2.1	329.7		27.58	0.00	0.00	1.75		10.35	18.92	83.84	86.68	09-Sep-16 10:00:00		**37.93**	**18.92**	**83.84**	**88.43**
09-Sep-16 11:00:00	09-Sep-16 12:00:00		64.41	0.00	0.00	4.99	2.1	329.7		21.24	0.00	0.00	1.65		10.35	18.92	83.84	86.68	09-Sep-16 11:00:00		**31.59**	**18.92**	**83.84**	**88.33**
09-Sep-16 12:00:00	09-Sep-16 13:00:00		21.95	0.00	0.00	4.68	2.1	329.7		7.24	0.00	0.00	1.54		10.35	18.92	83.84	86.68	09-Sep-16 12:00:00		**17.59**	**18.92**	**83.84**	**88.22**
09-Sep-16 13:00:00	09-Sep-16 14:00:00		31.06	0.00	0.00	14.82	2.1	329.7		10.24	0.00	0.00	4.89		10.35	18.92	83.84	86.68	09-Sep-16 13:00:00		**20.59**	**18.92**	**83.84**	**91.57**
09-Sep-16 14:00:00	09-Sep-16 15:00:00		24.80	0.00	0.00	4.23	2.1	329.7		8.18	0.00	0.00	1.40		10.35	18.92	83.84	86.68	09-Sep-16 14:00:00		**18.53**	**18.92**	**83.84**	**88.08**
09-Sep-16 15:00:00	09-Sep-16 16:00:00		31.54	0.00	0.00	4.23	2.1	329.7		10.40	0.00	0.00	1.39		10.35	18.92	83.84	86.68	09-Sep-16 15:00:00		**20.75**	**18.92**	**83.84**	**88.07**
09-Sep-16 16:00:00	09-Sep-16 17:00:00		28.04	0.00	0.00	4.22	2.1	329.7		9.25	0.00	0.00	1.39		10.35	18.92	83.84	86.68	09-Sep-16 16:00:00		**19.60**	**18.92**	**83.84**	**88.07**
09-Sep-16 17:00:00	09-Sep-16 18:00:00		3.79	0.00	0.00	5.08	2.1	329.7		1.25	0.00	0.00	1.67		10.35	18.92	83.84	86.68	09-Sep-16 17:00:00		**11.60**	**18.92**	**83.84**	**88.35**
09-Sep-16 18:00:00	09-Sep-16 19:00:00		3.65	0.00	0.00	4.27	2.1	329.7		1.20	0.00	0.00	1.41		10.35	18.92	83.84	86.68	09-Sep-16 18:00:00		**11.55**	**18.92**	**83.84**	**88.09**
09-Sep-16 19:00:00	09-Sep-16 20:00:00		3.69	0.00	0.00	4.64	2.1	329.7		1.22	0.00	0.00	1.53		10.35	18.92	83.84	86.68	09-Sep-16 19:00:00		**11.57**	**18.92**	**83.84**	**88.21**
09-Sep-16 20:00:00	09-Sep-16 21:00:00		4.81	0.00	0.00	4.64	2.1	329.7		1.58	0.00	0.00	1.53		10.35	18.92	83.84	86.68	09-Sep-16 20:00:00		**11.93**	**18.92**	**83.84**	**88.21**
09-Sep-16 21:00:00	09-Sep-16 22:00:00		11.37	0.00	0.00	4.84	2.1	329.7		3.75	0.00	0.00	1.60		10.35	18.92	83.84	86.68	09-Sep-16 21:00:00		**14.10**	**18.92**	**83.84**	**88.28**
09-Sep-16 22:00:00	09-Sep-16 23:00:00		33.87	0.00	0.00	5.04	2.1	329.7		11.17	0.00	0.00	1.66		10.35	18.92	83.84	86.68	09-Sep-16 22:00:00		**21.52**	**18.92**	**83.84**	**88.34**
09-Sep-16 23:00:00	10-Sep-16 00:00:00		18.89	0.00	0.00	5.23	2.1	329.7		6.23	0.00	0.00	1.72		10.35	18.92	83.84	86.68	09-Sep-16 23:00:00		**16.58**	**18.92**	**83.84**	**88.40**
10-Sep-16 00:00:00	10-Sep-16 01:00:00		27.99	0.00	0.00	5.79	2.1	329.7		9.23	0.00	0.00	1.91		10.35	18.92	83.84	86.68	10-Sep-16 00:00:00		**19.58**	**18.92**	**83.84**	**88.59**
10-Sep-16 01:00:00	10-Sep-16 02:00:00		28.14	0.00	0.00	12.86	2.1	329.7		9.28	0.00	0.00	4.24		10.35	18.92	83.84	86.68	10-Sep-16 01:00:00		**19.63**	**18.92**	**83.84**	**90.92**
10-Sep-16 02:00:00	10-Sep-16 03:00:00		35.49	0.00	0.00	5.56	2.1	329.7		11.70	0.00	0.00	1.83		10.35	18.92	83.84	86.68	10-Sep-16 02:00:00		**22.05**	**18.92**	**83.84**	**88.51**
10-Sep-16 03:00:00	10-Sep-16 04:00:00		37.91	0.00	0.00	5.60	2.1	329.7		12.50	0.00	0.00	1.84		10.35	18.92	83.84	86.68	10-Sep-16 03:00:00		**22.85**	**18.92**	**83.84**	**88.52**
10-Sep-16 04:00:00	10-Sep-16 05:00:00		5.05	0.00	0.00	5.63	2.1	329.7		1.66	0.00	0.00	1.86		10.35	18.92	83.84	86.68	10-Sep-16 04:00:00		**12.01**	**18.92**	**83.84**	**88.54**
10-Sep-16 05:00:00	10-Sep-16 06:00:00		24.45	0.00	0.00	5.66	2.1	329.7		8.06	0.00	0.00	1.87		10.35	18.92	83.84	86.68	10-Sep-16 05:00:00		**18.41**	**18.92**	**83.84**	**88.55**
10-Sep-16 06:00:00	10-Sep-16 07:00:00		65.66	0.00	0.00	5.66	2.1	329.7		21.65	0.00	0.00	1.87		10.35	18.92	83.84	86.68	10-Sep-16 06:00:00		**32.00**	**18.92**	**83.84**	**88.55**
10-Sep-16 07:00:00	10-Sep-16 08:00:00		52.04	0.00	0.00	5.65	2.1	329.7		17.16	0.00	0.00	1.86		10.35	18.92	83.84	86.68	10-Sep-16 07:00:00		**27.51**	**18.92**	**83.84**	**88.54**
10-Sep-16 08:00:00	10-Sep-16 09:00:00		59.47	0.00	0.00	57.28	2.1	329.7		19.61	0.00	0.00	18.89		10.35	18.92	83.84	86.68	10-Sep-16 08:00:00		**29.96**	**18.92**	**83.84**	**105.57**
10-Sep-16 09:00:00	10-Sep-16 10:00:00		60.22	0.00	0.00	5.59	2.1	329.7		19.85	0.00	0.00	1.84		10.35	18.92	83.84	86.68	10-Sep-16 09:00:00		**30.20**	**18.92**	**83.84**	**88.52**
10-Sep-16 10:00:00	10-Sep-16 11:00:00		62.21	0.00	0.00	5.31	2.1	329.7		20.51	0.00	0.00	1.75		10.35	18.92	83.84	86.68	10-Sep-16 10:00:00		**30.86**	**18.92**	**83.84**	**88.43**
10-Sep-16 11:00:00	10-Sep-16 12:00:00		39.70	0.00	0.00	5.04	2.1	329.7		13.09	0.00	0.00	1.66		10.35	18.92	83.84	86.68	10-Sep-16 11:00:00		**23.44**	**18.92**	**83.84**	**88.34**
10-Sep-16 12:00:00	10-Sep-16 13:00:00		24.04	0.00	0.00	4.77	2.1	329.7		7.92	0.00	0.00	1.57		10.35	18.92	83.84	86.68	10-Sep-16 12:00:00		**18.27**	**18.92**	**83.84**	**88.25**
10-Sep-16 13:00:00	10-Sep-16 14:00:00		21.29	0.00	0.00	4.55	2.1	329.7		7.02	0.00	0.00	1.50		10.35	18.92	83.84	86.68	10-Sep-16 13:00:00		**17.37**	**18.92**	**83.84**	**88.18**
10-Sep-16 14:00:00	10-Sep-16 15:00:00		42.25	0.00	0.00	4.37	2.1	329.7		13.93	0.00	0.00	1.44		10.35	18.92	83.84	86.68	10-Sep-16 14:00:00		**24.28**	**18.92**	**83.84**	**88.12**
10-Sep-16 15:00:00	10-Sep-16 16:00:00		25.06	0.00	0.00	4.19	2.1	329.7		8.26	0.00	0.00	1.38		10.35	18.92	83.84	86.68	10-Sep-16 15:00:00		**18.61**	**18.92**	**83.84**	**88.06**
10-Sep-16 16:00:00	10-Sep-16 17:00:00		31.96	0.00	0.00	26.84	2.1	329.7		10.54	0.00	0.00	8.85		10.35	18.92	83.84	86.68	10-Sep-16 16:00:00		**20.89**	**18.92**	**83.84**	**95.53**
10-Sep-16 17:00:00	10-Sep-16 18:00:00		38.61	0.00	0.00	4.05	2.1	329.7		12.73	0.00	0.00	1.33		10.35	18.92	83.84	86.68	10-Sep-16 17:00:00		**23.08**	**18.92**	**83.84**	**88.01**
10-Sep-16 18:00:00	10-Sep-16 19:00:00		47.30	0.00	0.00	4.15	2.1	329.7		15.60	0.00	0.00	1.37		10.35	18.92	83.84	86.68	10-Sep-16 18:00:00		**25.95**	**18.92**	**83.84**	**88.05**
10-Sep-16 19:00:00	10-Sep-16 20:00:00		69.57	0.00	0.00	4.27	2.1	329.7		22.94	0.00	0.00	1.41		10.35	18.92	83.84	86.68	10-Sep-16 19:00:00		**33.29**	**18.92**	**83.84**	**88.09**
10-Sep-16 20:00:00	10-Sep-16 21:00:00		69.16	0.00	0.00	4.47	2.1	329.7		22.80	0.00	0.00	1.47		10.35	18.92	83.84	86.68	10-Sep-16 20:00:00		**33.15**	**18.92**	**83.84**	**88.15**
10-Sep-16 21:00:00	10-Sep-16 22:00:00		25.49	0.00	0.00	4.80	2.1	329.7		8.40	0.00	0.00	1.58		10.35	18.92	83.84	86.68	10-Sep-16 21:00:00		**18.75**	**18.92**	**83.84**	**88.26**
10-Sep-16 22:00:00	10-Sep-16 23:00:00		23.82	0.00	0.00	69.95	2.1	329.7		7.85	0.00	0.00	23.06		10.35	18.92	83.84	86.68	10-Sep-16 22:00:00		**18.20**	**18.92**	**83.84**	**109.74**
10-Sep-16 23:00:00	11-Sep-16 00:00:00		33.48	0.00	0.00	5.12	2.1	329.7		11.04	0.00	0.00	1.69		10.35	18.92	83.84	86.68	10-Sep-16 23:00:00		**21.39**	**18.92**	**83.84**	**88.37**
11-Sep-16 00:00:00	11-Sep-16 01:00:00		60.79	0.00	0.00	28.96	2.1	329.7		20.04	0.00	0.00	9.55		10.35	18.92	83.84	86.68	11-Sep-16 00:00:00		**30.39**	**18.92**	**83.84**	**96.23**
11-Sep-16 01:00:00	11-Sep-16 02:00:00		54.69	0.00	0.00	5.38	2.1	329.7		18.03	0.00	0.00	1.77		10.35	18.92	83.84	86.68	11-Sep-16 01:00:00		**28.38**	**18.92**	**83.84**	**88.45**
11-Sep-16 02:00:00	11-Sep-16 03:00:00		29.45	0.00	0.00	5.48	2.1	329.7		9.71	0.00	0.00	1.81		10.35	18.92	83.84	86.68	11-Sep-16 02:00:00		**20.06**	**18.92**	**83.84**	**88.49**
11-Sep-16 03:00:00	11-Sep-16 04:00:00		33.47	0.00	0.00	47.96	2.1	329.7		11.04	0.00	0.00	15.81		10.35	18.92	83.84	86.68	11-Sep-16 03:00:00		**21.39**	**18.92**	**83.84**	**102.49**
11-Sep-16 04:00:00	11-Sep-16 05:00:00		37.31	0.00	0.00	25.35

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
13-Sep-16 06:00:00	13-Sep-16 07:00:00		84.65	0.00	0.00	5.81	2.1	329.7		27.91	0.00	0.00	1.91		10.35	18.92	83.84	86.68	13-Sep-16 06:00:00		**38.26**	**18.92**	**83.84**	**88.59**
13-Sep-16 07:00:00	13-Sep-16 08:00:00		73.70	0.00	0.00	5.40	2.1	329.7		24.30	0.00	0.00	1.78		10.35	18.92	83.84	86.68	13-Sep-16 07:00:00		**34.65**	**18.92**	**83.84**	**88.46**
13-Sep-16 08:00:00	13-Sep-16 09:00:00		59.48	0.00	0.00	5.30	2.1	329.7		19.61	0.00	0.00	1.75		10.35	18.92	83.84	86.68	13-Sep-16 08:00:00		**29.96**	**18.92**	**83.84**	**88.43**
13-Sep-16 09:00:00	13-Sep-16 10:00:00		59.88	0.00	0.00	115.20	2.1	329.7		19.74	0.00	0.00	37.98		10.35	18.92	83.84	86.68	13-Sep-16 09:00:00		**30.09**	**18.92**	**83.84**	**124.66**
13-Sep-16 10:00:00	13-Sep-16 11:00:00		57.29	0.00	0.00	5.84	2.1	329.7		18.89	0.00	0.00	1.93		10.35	18.92	83.84	86.68	13-Sep-16 10:00:00		**29.24**	**18.92**	**83.84**	**88.61**
13-Sep-16 11:00:00	13-Sep-16 12:00:00		55.77	0.00	0.00	99.42	2.1	329.7		18.39	0.00	0.00	32.78		10.35	18.92	83.84	86.68	13-Sep-16 11:00:00		**28.74**	**18.92**	**83.84**	**119.46**
13-Sep-16 12:00:00	13-Sep-16 13:00:00		66.43	0.00	0.00	4.89	2.1	329.7		21.90	0.00	0.00	1.61		10.35	18.92	83.84	86.68	13-Sep-16 12:00:00		**32.25**	**18.92**	**83.84**	**88.29**
13-Sep-16 13:00:00	13-Sep-16 14:00:00		64.32	0.00	0.00	4.51	2.1	329.7		21.21	0.00	0.00	1.49		10.35	18.92	83.84	86.68	13-Sep-16 13:00:00		**31.56**	**18.92**	**83.84**	**88.17**
13-Sep-16 14:00:00	13-Sep-16 15:00:00		48.06	0.00	0.00	4.49	2.1	329.7		15.84	0.00	0.00	1.48		10.35	18.92	83.84	86.68	13-Sep-16 14:00:00		**26.19**	**18.92**	**83.84**	**88.16**
13-Sep-16 15:00:00	13-Sep-16 16:00:00		6.93	0.00	0.00	4.30	2.1	329.7		2.28	0.00	0.00	1.42		10.35	18.92	83.84	86.68	13-Sep-16 15:00:00		**12.63**	**18.92**	**83.84**	**88.10**
13-Sep-16 16:00:00	13-Sep-16 17:00:00		29.34	0.00	0.00	4.32	2.1	329.7		9.67	0.00	0.00	1.42		10.35	18.92	83.84	86.68	13-Sep-16 16:00:00		**20.02**	**18.92**	**83.84**	**88.10**
13-Sep-16 17:00:00	13-Sep-16 18:00:00		53.26	0.00	0.00	4.37	2.1	329.7		17.56	0.00	0.00	1.44		10.35	18.92	83.84	86.68	13-Sep-16 17:00:00		**27.91**	**18.92**	**83.84**	**88.12**
13-Sep-16 18:00:00	13-Sep-16 19:00:00		52.12	0.00	0.00	4.41	2.1	329.7		17.18	0.00	0.00	1.45		10.35	18.92	83.84	86.68	13-Sep-16 18:00:00		**27.53**	**18.92**	**83.84**	**88.13**
13-Sep-16 19:00:00	13-Sep-16 20:00:00		49.26	0.00	0.00	5.00	2.1	329.7		16.24	0.00	0.00	1.65		10.35	18.92	83.84	86.68	13-Sep-16 19:00:00		**26.59**	**18.92**	**83.84**	**88.33**
13-Sep-16 20:00:00	13-Sep-16 21:00:00		48.58	0.00	0.00	4.66	2.1	329.7		16.02	0.00	0.00	1.54		10.35	18.92	83.84	86.68	13-Sep-16 20:00:00		**26.37**	**18.92**	**83.84**	**88.22**
13-Sep-16 21:00:00	13-Sep-16 22:00:00		44.93	0.00	0.00	46.92	2.1	329.7		14.81	0.00	0.00	15.47		10.35	18.92	83.84	86.68	13-Sep-16 21:00:00		**25.16**	**18.92**	**83.84**	**102.15**
13-Sep-16 22:00:00	13-Sep-16 23:00:00		12.02	0.00	0.00	5.00	2.1	329.7		3.96	0.00	0.00	1.65		10.35	18.92	83.84	86.68	13-Sep-16 22:00:00		**14.31**	**18.92**	**83.84**	**88.33**
13-Sep-16 23:00:00	14-Sep-16 00:00:00		10.15	0.00	0.00	5.11	2.1	329.7		3.35	0.00	0.00	1.69		10.35	18.92	83.84	86.68	13-Sep-16 23:00:00		**13.70**	**18.92**	**83.84**	**88.37**
14-Sep-16 00:00:00	14-Sep-16 01:00:00		42.65	0.00	0.00	5.23	2.1	329.7		14.06	0.00	0.00	1.73		10.35	18.92	83.84	86.68	14-Sep-16 00:00:00		**24.41**	**18.92**	**83.84**	**88.41**
14-Sep-16 01:00:00	14-Sep-16 02:00:00		39.33	0.00	0.00	5.36	2.1	329.7		12.97	0.00	0.00	1.77		10.35	18.92	83.84	86.68	14-Sep-16 01:00:00		**23.32**	**18.92**	**83.84**	**88.45**
14-Sep-16 02:00:00	14-Sep-16 03:00:00		0.00	0.00	0.00	9.93	2.1	329.7		0.00	0.00	0.00	3.27		10.35	18.92	83.84	86.68	14-Sep-16 02:00:00		**10.35**	**18.92**	**83.84**	**89.95**
14-Sep-16 03:00:00	14-Sep-16 04:00:00		65.07	0.00	0.00	5.50	2.1	329.7		21.45	0.00	0.00	1.81		10.35	18.92	83.84	86.68	14-Sep-16 03:00:00		**31.80**	**18.92**	**83.84**	**88.49**
14-Sep-16 04:00:00	14-Sep-16 05:00:00		19.41	0.00	0.00	5.49	2.1	329.7		6.40	0.00	0.00	1.81		10.35	18.92	83.84	86.68	14-Sep-16 04:00:00		**16.75**	**18.92**	**83.84**	**88.49**
14-Sep-16 05:00:00	14-Sep-16 06:00:00		0.75	0.00	0.00	5.49	2.1	329.7		0.25	0.00	0.00	1.81		10.35	18.92	83.84	86.68	14-Sep-16 05:00:00		**10.60**	**18.92**	**83.84**	**88.49**
14-Sep-16 06:00:00	14-Sep-16 07:00:00		3.19	0.00	0.00	5.50	2.1	329.7		1.05	0.00	0.00	1.81		10.35	18.92	83.84	86.68	14-Sep-16 06:00:00		**11.40**	**18.92**	**83.84**	**88.49**
14-Sep-16 07:00:00	14-Sep-16 08:00:00		3.25	0.00	0.00	5.48	2.1	329.7		1.07	0.00	0.00	1.81		10.35	18.92	83.84	86.68	14-Sep-16 07:00:00		**11.42**	**18.92**	**83.84**	**88.49**
14-Sep-16 08:00:00	14-Sep-16 09:00:00		3.91	0.00	0.00	5.36	2.1	329.7		1.29	0.00	0.00	1.77		10.35	18.92	83.84	86.68	14-Sep-16 08:00:00		**11.64**	**18.92**	**83.84**	**88.45**
14-Sep-16 09:00:00	14-Sep-16 10:00:00		4.57	0.00	0.00	5.23	2.1	329.7		1.51	0.00	0.00	1.72		10.35	18.92	83.84	86.68	14-Sep-16 09:00:00		**11.86**	**18.92**	**83.84**	**88.40**
14-Sep-16 10:00:00	14-Sep-16 11:00:00		5.82	0.00	0.00	5.07	2.1	329.7		1.92	0.00	0.00	1.67		10.35	18.92	83.84	86.68	14-Sep-16 10:00:00		**12.27**	**18.92**	**83.84**	**88.35**
14-Sep-16 11:00:00	14-Sep-16 12:00:00		5.74	0.00	0.00	4.78	2.1	329.7		1.89	0.00	0.00	1.58		10.35	18.92	83.84	86.68	14-Sep-16 11:00:00		**12.24**	**18.92**	**83.84**	**88.26**
14-Sep-16 12:00:00	14-Sep-16 13:00:00		11.16	0.00	0.00	4.52	2.1	329.7		3.68	0.00	0.00	1.49		10.35	18.92	83.84	86.68	14-Sep-16 12:00:00		**14.03**	**18.92**	**83.84**	**88.17**
14-Sep-16 13:00:00	14-Sep-16 14:00:00		20.83	0.00	0.00	4.27	2.1	329.7		6.87	0.00	0.00	1.41		10.35	18.92	83.84	86.68	14-Sep-16 13:00:00		**17.22**	**18.92**	**83.84**	**88.09**
14-Sep-16 14:00:00	14-Sep-16 15:00:00		21.52	0.00	0.00	4.02	2.1	329.7		7.10	0.00	0.00	1.33		10.35	18.92	83.84	86.68	14-Sep-16 14:00:00		**17.45**	**18.92**	**83.84**	**88.01**
14-Sep-16 15:00:00	14-Sep-16 16:00:00		8.32	0.00	0.00	3.97	2.1	329.7		2.74	0.00	0.00	1.31		10.35	18.92	83.84	86.68	14-Sep-16 15:00:00		**13.09**	**18.92**	**83.84**	**87.99**
14-Sep-16 16:00:00	14-Sep-16 17:00:00		19.50	0.00	0.00	3.98	2.1	329.7		6.43	0.00	0.00	1.31		10.35	18.92	83.84	86.68	14-Sep-16 16:00:00		**16.78**	**18.92**	**83.84**	**87.99**
14-Sep-16 17:00:00	14-Sep-16 18:00:00		32.43	0.00	0.00	3.99	2.1	329.7		10.69	0.00	0.00	1.32		10.35	18.92	83.84	86.68	14-Sep-16 17:00:00		**21.04**	**18.92**	**83.84**	**88.00**
14-Sep-16 18:00:00	14-Sep-16 19:00:00		46.31	0.00	0.00	4.03	2.1	329.7		15.27	0.00	0.00	1.33		10.35	18.92	83.84	86.68	14-Sep-16 18:00:00		**25.62**	**18.92**	**83.84**	**88.01**
14-Sep-16 19:00:00	14-Sep-16 20:00:00		39.84	0.00	0.00	4.28	2.1	329.7		13.14	0.00	0.00	1.41		10.35	18.92	83.84	86.68	14-Sep-16 19:00:00		**23.49**	**18.92**	**83.84**	**88.09**
14-Sep-16 20:00:00	14-Sep-16 21:00:00		22.76	0.00	0.00	4.53	2.1	329.7		7.50	0.00	0.00	1.49		10.35	18.92	83.84	86.68	14-Sep-16 20:00:00		**17.85**	**18.92**	**83.84**	**88.17**
14-Sep-16 21:00:00	14-Sep-16 22:00:00		20.93	0.00	0.00	4.77	2.1	329.7		6.90	0.00	0.00	1.57		10.35	18.92	83.84	86.68	14-Sep-16 21:00:00		**17.25**	**18.92**	**83.84**	**88.25**
14-Sep-16 22:00:00	14-Sep-16 23:00:00		27.90	0.00	0.00	5.01	2.1	329.7		9.20	0.00	0.00	1.65		10.35	18.92	83.84	86.68	14-Sep-16 22:00:00		**19.55**	**18.92**	**83.84**	**88.33**
14-Sep-16 23:00:00	15-Sep-16 00:00:00		28.97	0.00	0.00	5.16	2.1	329.7		9.55	0.00	0.00	1.70		10.35	18.92	83.84	86.68	14-Sep-16 23:00:00		**19.90**	**18.92**	**83.84**	**88.38**
15-Sep-16 00:00:00	15-Sep-16 01:00:00		27.91	0.00	0.00	5.27	2.1	329.7		9.20	0.00	0.00	1.74		10.35	18.92	83.84	86.68	15-Sep-16 00:00:00		**19.55**	**18.92**	**83.84**	**88.42**
15-Sep-16 01:00:00	15-Sep-16 02:00:00		6.16	0.00	0.00	5.38	2.1	329.7		2.03	0.00	0.00	1.78		10.35	18.92	83.84	86.68	15-Sep-16 01:00:00		**12.38**	**18.92**	**83.84**	**88.46**
15-Sep-16 02:00:00	15-Sep-16 03:00:00		1.90	0.00	0.00	5.50	2.1	329.7		0.63	0.00	0.00	1.81		10.35	18.92	83.84	86.68	15-Sep-16 02:00:00		**10.98**	**18.92**	**83.84**	**88.49**
15-Sep-16 03:00:00	15-Sep-16 04:00:00		1.68	0.00	0.00	5.56	2.1	329.7		0.55	0.00	0.00	1.83		10.35	18.92	83.84	86.68	15-Sep-16 03:00:00		**10.90**	**18.92**	**83.84**	**88.51**
15-Sep-16 04:00:00	15-Sep-16 05:00:00		1.61	0.00	0.00	5.59	2.1	329.7		0.53	0.00	0.00	1.84		10.35	18.92	83.84	86.68	15-Sep-16 04:00:00		**10.88**	**18.92**	**83.84**	**88.52**
15-Sep-16 05:00:00	15-Sep-16 06:00:00		3.64	0.00	0.00	5.61	2.1	329.7		1.20	0.00	0.00	1.85		10.35	18.92	83.84	86.68	15-Sep-16 05:00:00		**11.55**	**18.92**	**83.84**	**88.53**
15-Sep-16 06:00:00	15-Sep-16 07:00:00		14.27	0.00	0.00	5.64	2.1	329.7		4.70	0.00	0.00	1.86		10.35	18.92	83.84	86.68	15-Sep-16 06:00:00		**15.05**	**18.92**	**83.84**	**88.54**
15-Sep-16 07:00:00	15-Sep-16 08:00:00		36.30	0.00	0.00	5.51	2.1	329.7		11.97	0.00	0.00	1.82		10.35	18.92	83.84	86.68	15-Sep-16 07:00:00		**22.32**	**18.92**	**83.84**	**88.50**
15-Sep-16 08:00:00	15-Sep-16 09:00:00		25.64	0.00	0.00	5.32	2.1	329.7		8.45	0.00	0.00	1.76		10.35	18.92	83.84	86.68	15-Sep-16 08:00:00		**18.80**	**18.92**	**83.84**	**88.44**
15-Sep-16 09:00:00	15-Sep-16 10:00:00		24.40	0.00	0.00	5.13	2.1	329.7		8.05	0.00	0.00	1.69		10.35	18.92	83.84	86.68	15-Sep-16 09:00:00		**18.40**	**18.92**	**83.84**	**88.37**
15-Sep-16 10:00:00	15-Sep-16 11:00:00		14.01	0.00	0.00	4.92	2.1	329.7		4.62	0.00	0.00	1.62		10.35	18.92	83.84	86.68	15-Sep-16 10:00:00		**14.97**	**18.92**	**83.84**	**88.30**
15-Sep-16 11:00:00	15-Sep-16 12:00:00		15.88	0.00	0.00	4.62	2.1	329.7		5.24	0.00	0.00	1.52		10.35	18.92	83.84	86.68	15-Sep-16 11:00:00		**15.59**	**18.92**	**83.84**	**88.20**
15-Sep-16 12:00:00	15-Sep-16 13:00:00		26.88	0.00	0.00	4.39	2.1	329.7		8.86	0.00	0.00	1.45		10.35	18.92	83.84	86.68	15-Sep-16 12:00:00		**19.21**	**18.92**	**83.84**	**88.13**
15-Sep-16 13:00:00	15-Sep-16 14:00:00		22.67	0.00	0.00	4.16	2.1	329.7		7.48	0.00	0.00	1.37		10.35	18.92	83.84	86.68	15-Sep-16 13:00:00		**17.83**	**18.92**	**83.84**	**88.05**
15-Sep-16 14:00:00	15-Sep-16 15:00:00		6.78	0.00	0.00	3.93	2.1	329.7		2.24	0.00	0.00	1.30		10.35	18.92	83.84	86.68	15-Sep-16 14:00:00		**12.59**	**18.92**	**83.84**	**87.98**
15-Sep-16 15:00:00	15-Sep-16 16:00:00		15.29	0.00	0.00	3.86	2.1	329.7		5.04	0.00	0.00	1.27		10.35	18.92	83.84	86.68	15-Sep-16 15:00:00		**15.39**	**18.92**	**83.84**	**87.95**
15-Sep-16 16:00:00	15-Sep-16 17:00:00		31.62	0.00	0.00	3.89	2.1	329.7		10.42	0.00	0.00	1.28		10.35	18.92	83.84	86.68	15-Sep-16 16:00:00		**20.77**	**18.92**	**83.84**	**87.96**
15-Sep-16 17:00:00	15-Sep-16 18:00:00		19.30	0.00	0.00	3.92	2.1	329.7		6.36	0.00	0.00	1.29		10.35	18.92	83.84	86.68	15-Sep-16 17:00:00		**16.71**	**18.92**	**83.84**	**87.97**
15-Sep-16 18:00:00	15-Sep-16 19:00:00		26.26	0.00	0.00	3.95	2.1	329.7		8.66	0.00	0.00	1.30		10.35	18.92	83.84	86.68	15-Sep-16 18:00:00		**19.01**	**18.92**	**83.84**	**87.98**
15-Sep-16 19:00:00	15-Sep-16 20:00:00		26.92	0.00	0.00	4.13	2.1	329.7		8.88	0.00	0.00	1.36		10.35	18.92	83.84	86.68	15-Sep-16 19:00:00		**19.23**	**18.92**	**83.84**	**88.04**
15-Sep-16 20:00:00	15-Sep-16 21:00:00		20.67	0.00	0.00	4.39	2.1	329.7		6.81	0.00	0.00	1.45		10.35	18.92	83.84	86.68	15-Sep-16 20:00:00		**17.16**	**18.92**	**83.84**	**88.13**
15-Sep-16 21:00:00	15-Sep-16 22:00:00		13.18	0.00	0.00	4.64	2.1	329.7		4.35	0.00	0.00	1.53		10.35	18.92	83.84	86.68	15-Sep-16 21:00:00		**14.70**	**18.92**	**83.84**	**88.21**
15-Sep-16 22:00:00	15-Sep-16 23:00:00		15.66	0.00	0.00	4.89	2.1	329.7		5.16	0.00	0.00	1.61		10.35	18.92	83.84	86.68	15-Sep-16 22:00:00		**15.51**	**18.92**	**83.84**	**88.29**
15-Sep-16 23:00:00	16-Sep-16 00:00:00		24.04	0.00	0.00	5.02	2.1	329.7		7.93	0.00	0.00	1.65		10.35	18.92	83.84	86.68	15-Sep-16 23:00:00		**18.28**	**18.92**	**83.84**	**88.33**
16-Sep-16 00:00:00	16-Sep-16 01:00:00		33.08	0.00	0.00	5.06	2.1	329.7		10.91	0.00	0.00	1.67		10.35	18.92	83.84	86.68	16-Sep-16 00:00:00		**21.26**	**18.92**	**83.84**	**88.35**
16-Sep-16 01:00:00	16-Sep-16 02:00:00		2.19	0.00	0.00	5.10	2.1	329.7		0.72	0.00	0.00	1.68		10.35	18.92	83.84	86.68	16-Sep-16 01:00:00		**11.07**	**18.92**	**83.84**	**88.36**
16-Sep-16 02:00:00	16-Sep-16 03:00:00		35.09	0.00	0.00	5.15	2.1	329.7		11.57	0.00	0.00	1.70		10.35	18.92	83.84	86.68	16-Sep-16 02:00:00		**21.92**	**18.92**	**83.84**	**88.38**
16-Sep-16 03:00:00	16-Sep-16 04:00:00		52.50	0.00	0.00	5.28	2.1	329.7		17.31	0.00	0.00	1.74		10.35	18.92	83.84	86.68	16-Sep-16 03:00:00		**27.66**	**18.92**	**83.84**	**88.42**
16-Sep-16 04:00:00	16-Sep-16 05:00:00		43.66	0.00	0.00	5.38	2.1	329.7		14.40	0.00	0.00	1.77		10.35	18.92	83.84	86.68	16-Sep-16 04:00:00		**24.75**	**18.92**	**83.84**	**88.45**
16-Sep-16 05:00:00	16-Sep-16 06:00:00		39.89	0.00	0.00	5.47	2.1	329.7		13.15	0.00	0.00	1.80		10.35	18.92	83.84	86.68	16-Sep-16 05:00:00		**23.50**	**18.92**	**83.84**	**88.48**
16-Sep-16 06:00:00	16-Sep-16 07:00:00		25.79	0.00	0.00	5.55	2.1	329.7		8.50	0.00	0.00	1.83		10.35	18.92	83.84	86.68	16-Sep-16 06:00:00		**18.85**	**18.92**	**83.84**	**88.51**
16-Sep-16 07:00:00	16-Sep-16 08:00:00		14.61	0.00	0.00	5.46	2.1	329.7		4.82	0.00	0.00	1.80		10.35	18.92	83.84	86.68	16-Sep-16 07:00:00		**15.17**	**18.92**	**83.84**	**88.48**
16-Sep-16 08:00:00	16-Sep-16 09:00:00		24.41	0.00	0.00	5.33	2.1	329.7		8.05	0.00	0.00	1.76		10.35	18.92	83.84	86.68	16-Sep-16 08:00:00		**18.40**	**18.92**	**83.84**	**88.44**
16-Sep-16 09:00:00	16-Sep-16 10:00:00		90.74	0.00	0.00	5.20	2.1	329.7		29.92	0.00	0.00	1.72		10.35	18.92	83.84	86.68	16-Sep-16 09:00:00		**40.27**	**18.92**	**83.84**	**88.40**
16-Sep-16 10:00:00	16-Sep-16 11:00:00		94.05	0.00	0.00	5.08	2.1	329.7		31.01	0.00	0.00	1.68		10.35	18.92	83.84	86.68	16-Sep-16 10:00:00		**41.36**	**18.92**	**83.84**	**88.36**
16-Sep-16 11:00:00	16-Sep-16 12:00:00		88.62	0.00	0.00	4.92	2.1	329.7		29.22	0.00	0.00	1.62		10.35	18.92	83.84	86.68	16-Sep-16 11:00:00		**39.57**	**18.92**	**83.84**	**88.30**
16-Sep-16 12:00:00	16-Sep-16 13:00:00		75.62	0.00	0.00	4.68	2.1	329.7		24.93	0.00	0.00	1.54		10.35	18.92	83.84	86.68	16-Sep-16 12:00:00		**35.28**	**18.92**	**83.84**	**88.22**
16-Sep-16 13:00:00	16-Sep-16 14:00:00		43.23	0.00	0.00	4.43	2.1	329.7		14.25	0.00	0.00	1.46		10.35	18.92	83.84	86.68	16-Sep-16 13:00:00		**24.60**	**18.92**	**83.84**	**88.14**
16-Sep-16 14:00:00	16-Sep-16 15:00:00		51.64	0.00	0.00	4.18	2.1	329.7		17.03	0.00	0.00	1.38		10.35	18.92	83.84	86.68	16-Sep-16 14:00:00		**27.38**	**18.92**	**83.84**	**88.06**
16-Sep-16 15:00:00	16-Sep-16 16:00:00		46.82	0.00	0.00	4.04	2.1	329.7		15.44	0.00	0.00	1.33		10.35	18.92	83.84	86.68	16-Sep-16 15:00:00		**25.79**	**18.92**	**83.84**	**88.01**
16-Sep-16 16:00:00	16-Sep-16 17:00:00		37.81	0.00	0.00	4.05	2.1	329.7		12.47	0.00	0.00	1.34		10.35	18.92	83.84	86.68	16-Sep-16 16:00:00		**22.82**	**18.92**	**83.84**	**88.02**
16-Sep-16 17:00:00	16-Sep-16 18:00:00		27.42	0.00	0.00	4.07	2.1	329.7		9.04	0.00	0.00	1.34		10.35	18.92	83.84	86.68	16-Sep-16 17:00:00		**19.39**	**18.92**	**83.84**	**88.02**
16-Sep-16 18:00:00	16-Sep-16 19:00:00		23.06	0.00	0.00	4.06	2.1	329.7		7.60	0.00	0.00	1.34		10.35	18.92	83.84	86.68	16-Sep-16 18:00:00		**17.95**	**18.92**	**83.84**	**88.02**
16-Sep-16 19:00:00	16-Sep-16 20:00:00		18.45	0.00	0.00	4.13	2.1	329.7		6.08	0.00	0.00	1.36		10.35	18.92	83.84	86.68	16-Sep-16 19:00:00		**16.43**	**18.92**	**83.84**	**88.04**
16-Sep-16 20:00:00	16-Sep-16 21:00:00		17.27	0.00	0.00	4.39	2.1	329.7		5.69	0.00	0.00	1.45		10.35	18.92	83.84	86.68	16-Sep-16 20:00:00		**16.04**	**18.92**	**83.84**	**88.13**
16-Sep-16 21:00:00	16-Sep-16 22:00:00		16.49	0.00	0.00	4.66	2.1	329.7		5.44	0.00	0.00	1.53		10.35	18.92	83.84	86.68	16-Sep-16 21:00:00		**15.79**	**18.92**	**83.84**	**88.21**
16-Sep-16 22:00:00	16-Sep-16 23:00:00		32.18	0.00	0.00	4.92	2.1	329.7		10.61	0.00	0.00	1.62		10.35	18.92	83.84	86.68	16-Sep-16 22:00:00		**20.96**	**18.92**	**83.84**	**88.30**
16-Sep-16 23:00:00	17-Sep-16 00:00:00		42.22	0.00	0.00	5.07	2.1	329.7		13.92	0.00	0.00	1.67		10.35	18.92	83.84	86.68	16-Sep-16 23:00:00		**24.27**	**18.92**	**83.84**	**88.35**
17-Sep-16 00:00:00	17-Sep-16 01:00:00		42.75	0.00	0.00	5.07	2.1	329.7		14.09	0.00	0.00	1.67		10.35	18.92	83.84	86.68	17-Sep-16 00:00:00		**24.44**	**18.92**	**83.84**	**88.35**
17-Sep-16 01:00:00	17-Sep-16 02:00:00		69.03	0.00	0.00	5.08	2.1	329.7		22.76	0.00	0.00	1.67		10.35	18.92	83.84	86.68	17-Sep-16 01:00:00		**33.11**	**18.92**	**83.84**	**88.35**
17-Sep-16 02:00:00	17-Sep-16 03:00:00		83.83	0.00	0.00	5.09	2.1	329.7		27.64	0.00	0.00	1.68		10.35	18.92	83.84	86.68	17-Sep-16 02:00:00		**37.99**	**18.92**	**83.84**	**88.36**
17-Sep-16 03:00:00	17-Sep-16 04:00:00		46.74	0.00	0.00	5.

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
19-Sep-16 05:00:00	19-Sep-16 06:00:00		14.67	0.00	0.00	4.85	2.1	329.7		4.84	0.00	0.00	1.60		10.35	18.92	83.84	86.68	19-Sep-16 05:00:00		15.19	18.92	83.84	88.28
19-Sep-16 06:00:00	19-Sep-16 07:00:00		39.10	0.00	0.00	4.94	2.1	329.7		12.89	0.00	0.00	1.63		10.35	18.92	83.84	86.68	19-Sep-16 06:00:00		23.24	18.92	83.84	88.31
19-Sep-16 07:00:00	19-Sep-16 08:00:00		51.42	0.00	0.00	4.69	2.1	329.7		16.95	0.00	0.00	1.55		10.35	18.92	83.84	86.68	19-Sep-16 07:00:00		27.30	18.92	83.84	88.23
19-Sep-16 08:00:00	19-Sep-16 09:00:00		26.53	0.00	0.00	4.45	2.1	329.7		8.75	0.00	0.00	1.47		10.35	18.92	83.84	86.68	19-Sep-16 08:00:00		19.10	18.92	83.84	88.15
19-Sep-16 09:00:00	19-Sep-16 10:00:00		14.66	0.00	0.00	4.21	2.1	329.7		4.83	0.00	0.00	1.39		10.35	18.92	83.84	86.68	19-Sep-16 09:00:00		15.18	18.92	83.84	88.07
19-Sep-16 10:00:00	19-Sep-16 11:00:00		11.12	0.00	0.00	3.97	2.1	329.7		3.67	0.00	0.00	1.31		10.35	18.92	83.84	86.68	19-Sep-16 10:00:00		14.02	18.92	83.84	87.99
19-Sep-16 11:00:00	19-Sep-16 12:00:00		22.03	0.00	0.00	3.83	2.1	329.7		7.26	0.00	0.00	1.26		10.35	18.92	83.84	86.68	19-Sep-16 11:00:00		17.61	18.92	83.84	87.94
19-Sep-16 12:00:00	19-Sep-16 13:00:00		31.39	0.00	0.00	3.72	2.1	329.7		10.35	0.00	0.00	1.23		10.35	18.92	83.84	86.68	19-Sep-16 12:00:00		20.70	18.92	83.84	87.91
19-Sep-16 13:00:00	19-Sep-16 14:00:00		18.78	0.00	0.00	3.61	2.1	329.7		6.19	0.00	0.00	1.19		10.35	18.92	83.84	86.68	19-Sep-16 13:00:00		16.54	18.92	83.84	87.87
19-Sep-16 14:00:00	19-Sep-16 15:00:00		24.92	0.00	0.00	3.50	2.1	329.7		8.22	0.00	0.00	1.15		10.35	18.92	83.84	86.68	19-Sep-16 14:00:00		18.57	18.92	83.84	87.83
19-Sep-16 15:00:00	19-Sep-16 16:00:00		38.52	0.00	0.00	3.54	2.1	329.7		12.70	0.00	0.00	1.17		10.35	18.92	83.84	86.68	19-Sep-16 15:00:00		23.05	18.92	83.84	87.85
19-Sep-16 16:00:00	19-Sep-16 17:00:00		22.36	0.00	0.00	3.72	2.1	329.7		7.37	0.00	0.00	1.23		10.35	18.92	83.84	86.68	19-Sep-16 16:00:00		17.72	18.92	83.84	87.91
19-Sep-16 17:00:00	19-Sep-16 18:00:00		16.58	0.00	0.00	3.90	2.1	329.7		5.46	0.00	0.00	1.28		10.35	18.92	83.84	86.68	19-Sep-16 17:00:00		15.81	18.92	83.84	87.96
19-Sep-16 18:00:00	19-Sep-16 19:00:00		7.07	0.00	0.00	4.07	2.1	329.7		2.33	0.00	0.00	1.34		10.35	18.92	83.84	86.68	19-Sep-16 18:00:00		12.68	18.92	83.84	88.02
19-Sep-16 19:00:00	19-Sep-16 20:00:00		1.66	0.00	0.00	4.24	2.1	329.7		0.55	0.00	0.00	1.40		10.35	18.92	83.84	86.68	19-Sep-16 19:00:00		10.90	18.92	83.84	88.08
19-Sep-16 20:00:00	19-Sep-16 21:00:00		17.05	0.00	0.00	4.40	2.1	329.7		5.62	0.00	0.00	1.45		10.35	18.92	83.84	86.68	19-Sep-16 20:00:00		15.97	18.92	83.84	88.13
19-Sep-16 21:00:00	19-Sep-16 22:00:00		26.40	0.00	0.00	4.56	2.1	329.7		8.70	0.00	0.00	1.50		10.35	18.92	83.84	86.68	19-Sep-16 21:00:00		19.05	18.92	83.84	88.18
19-Sep-16 22:00:00	19-Sep-16 23:00:00		34.58	0.00	0.00	4.71	2.1	329.7		11.40	0.00	0.00	1.55		10.35	18.92	83.84	86.68	19-Sep-16 22:00:00		21.75	18.92	83.84	88.23
19-Sep-16 23:00:00	20-Sep-16 00:00:00		13.11	0.00	0.00	4.81	2.1	329.7		4.32	0.00	0.00	1.58		10.35	18.92	83.84	86.68	19-Sep-16 23:00:00		14.67	18.92	83.84	88.26
20-Sep-16 00:00:00	20-Sep-16 01:00:00		16.74	0.00	0.00	4.87	2.1	329.7		5.52	0.00	0.00	1.61		10.35	18.92	83.84	86.68	20-Sep-16 00:00:00		15.87	18.92	83.84	88.29
20-Sep-16 01:00:00	20-Sep-16 02:00:00		17.38	0.00	0.00	4.93	2.1	329.7		5.73	0.00	0.00	1.63		10.35	18.92	83.84	86.68	20-Sep-16 01:00:00		16.08	18.92	83.84	88.31
20-Sep-16 02:00:00	20-Sep-16 03:00:00		52.24	0.00	0.00	5.00	2.1	329.7		17.22	0.00	0.00	1.65		10.35	18.92	83.84	86.68	20-Sep-16 02:00:00		27.57	18.92	83.84	88.33
20-Sep-16 03:00:00	20-Sep-16 04:00:00		62.05	0.00	0.00	5.08	2.1	329.7		20.46	0.00	0.00	1.68		10.35	18.92	83.84	86.68	20-Sep-16 03:00:00		30.81	18.92	83.84	88.36
20-Sep-16 04:00:00	20-Sep-16 05:00:00		60.91	0.00	0.00	5.07	2.1	329.7		20.08	0.00	0.00	1.67		10.35	18.92	83.84	86.68	20-Sep-16 04:00:00		30.43	18.92	83.84	88.35
20-Sep-16 05:00:00	20-Sep-16 06:00:00		59.41	0.00	0.00	5.07	2.1	329.7		19.59	0.00	0.00	1.67		10.35	18.92	83.84	86.68	20-Sep-16 05:00:00		29.94	18.92	83.84	88.35
20-Sep-16 06:00:00	20-Sep-16 07:00:00		52.66	0.00	0.00	5.06	2.1	329.7		17.36	0.00	0.00	1.67		10.35	18.92	83.84	86.68	20-Sep-16 06:00:00		27.71	18.92	83.84	88.35
20-Sep-16 07:00:00	20-Sep-16 08:00:00		31.55	0.00	0.00	5.04	2.1	329.7		10.40	0.00	0.00	1.66		10.35	18.92	83.84	86.68	20-Sep-16 07:00:00		20.75	18.92	83.84	88.34
20-Sep-16 08:00:00	20-Sep-16 09:00:00		76.52	31.20	0.00	4.92	2.1	329.7		25.23	10.29	0.00	1.62		10.35	18.92	83.84	86.68	20-Sep-16 08:00:00		35.58	29.21	83.84	88.30
20-Sep-16 09:00:00	20-Sep-16 10:00:00		35.14	1,209.06	0.00	4.79	2.1	329.7		11.59	398.63	0.00	1.58		10.35	18.92	83.84	86.68	20-Sep-16 09:00:00		21.94	417.55	83.84	88.26
20-Sep-16 10:00:00	20-Sep-16 11:00:00		31.36	2,265.05	0.00	4.67	2.1	329.7		10.34	746.79	0.00	1.54		10.35	18.92	83.84	86.68	20-Sep-16 10:00:00		20.69	765.71	83.84	88.22
20-Sep-16 11:00:00	20-Sep-16 12:00:00		38.66	2,530.08	0.00	4.53	2.1	329.7		12.74	834.17	0.00	1.49		10.35	18.92	83.84	86.68	20-Sep-16 11:00:00		23.09	853.09	83.84	88.17
20-Sep-16 12:00:00	20-Sep-16 13:00:00		36.83	2,525.53	0.00	4.36	2.1	329.7		12.14	832.67	0.00	1.44		10.35	18.92	83.84	86.68	20-Sep-16 12:00:00		22.49	851.59	83.84	88.12
20-Sep-16 13:00:00	20-Sep-16 14:00:00		48.84	2,525.71	0.00	4.20	2.1	329.7		16.10	832.73	0.00	1.38		10.35	18.92	83.84	86.68	20-Sep-16 13:00:00		26.45	851.65	83.84	88.06
20-Sep-16 14:00:00	20-Sep-16 15:00:00		25.88	2,516.82	0.00	4.03	2.1	329.7		8.53	829.79	0.00	1.33		10.35	18.92	83.84	86.68	20-Sep-16 14:00:00		18.88	848.71	83.84	88.01
20-Sep-16 15:00:00	20-Sep-16 16:00:00		22.84	2,519.43	0.00	4.02	2.1	329.7		7.53	830.66	0.00	1.33		10.35	18.92	83.84	86.68	20-Sep-16 15:00:00		17.88	849.58	83.84	88.01
20-Sep-16 16:00:00	20-Sep-16 17:00:00		43.58	2,518.28	0.00	4.16	2.1	329.7		14.37	830.28	0.00	1.37		10.35	18.92	83.84	86.68	20-Sep-16 16:00:00		24.72	849.20	83.84	88.05
20-Sep-16 17:00:00	20-Sep-16 18:00:00		46.97	2,518.98	0.00	4.30	2.1	329.7		15.49	830.51	0.00	1.42		10.35	18.92	83.84	86.68	20-Sep-16 17:00:00		25.84	849.43	83.84	88.10
20-Sep-16 18:00:00	20-Sep-16 19:00:00		54.90	1,726.42	0.00	4.43	2.1	329.7		18.10	569.20	0.00	1.46		10.35	18.92	83.84	86.68	20-Sep-16 18:00:00		28.45	588.12	83.84	88.14
20-Sep-16 19:00:00	20-Sep-16 20:00:00		51.23	0.00	0.00	4.40	2.1	329.7		16.89	0.00	0.00	1.45		10.35	18.92	83.84	86.68	20-Sep-16 19:00:00		27.24	18.92	83.84	88.13
20-Sep-16 20:00:00	20-Sep-16 21:00:00		51.37	0.00	0.00	4.45	2.1	329.7		16.94	0.00	0.00	1.47		10.35	18.92	83.84	86.68	20-Sep-16 20:00:00		27.29	18.92	83.84	88.15
20-Sep-16 21:00:00	20-Sep-16 22:00:00		48.94	0.00	0.00	4.52	2.1	329.7		16.14	0.00	0.00	1.49		10.35	18.92	83.84	86.68	20-Sep-16 21:00:00		26.49	18.92	83.84	88.17
20-Sep-16 22:00:00	20-Sep-16 23:00:00		51.78	0.00	0.00	4.58	2.1	329.7		17.07	0.00	0.00	1.51		10.35	18.92	83.84	86.68	20-Sep-16 22:00:00		27.42	18.92	83.84	88.19
20-Sep-16 23:00:00	21-Sep-16 00:00:00		9.35	0.00	0.00	4.60	2.1	329.7		3.08	0.00	0.00	1.52		10.35	18.92	83.84	86.68	20-Sep-16 23:00:00		13.43	18.92	83.84	88.20
21-Sep-16 00:00:00	21-Sep-16 01:00:00		9.26	0.00	0.00	4.62	2.1	329.7		3.05	0.00	0.00	1.52		10.35	18.92	83.84	86.68	21-Sep-16 00:00:00		13.40	18.92	83.84	88.20
21-Sep-16 01:00:00	21-Sep-16 02:00:00		9.40	0.00	0.00	4.65	2.1	329.7		3.10	0.00	0.00	1.53		10.35	18.92	83.84	86.68	21-Sep-16 01:00:00		13.45	18.92	83.84	88.21
21-Sep-16 02:00:00	21-Sep-16 03:00:00		9.46	0.00	0.00	4.68	2.1	329.7		3.12	0.00	0.00	1.54		10.35	18.92	83.84	86.68	21-Sep-16 02:00:00		13.47	18.92	83.84	88.22
21-Sep-16 03:00:00	21-Sep-16 04:00:00		9.78	0.00	0.00	4.68	2.1	329.7		3.22	0.00	0.00	1.54		10.35	18.92	83.84	86.68	21-Sep-16 03:00:00		13.57	18.92	83.84	88.22
21-Sep-16 04:00:00	21-Sep-16 05:00:00		8.79	0.00	0.00	4.68	2.1	329.7		2.90	0.00	0.00	1.54		10.35	18.92	83.84	86.68	21-Sep-16 04:00:00		13.25	18.92	83.84	88.22
21-Sep-16 05:00:00	21-Sep-16 06:00:00		8.85	0.00	0.00	4.67	2.1	329.7		2.92	0.00	0.00	1.54		10.35	18.92	83.84	86.68	21-Sep-16 05:00:00		13.27	18.92	83.84	88.22
21-Sep-16 06:00:00	21-Sep-16 07:00:00		8.91	0.00	0.00	4.67	2.1	329.7		2.94	0.00	0.00	1.54		10.35	18.92	83.84	86.68	21-Sep-16 06:00:00		13.29	18.92	83.84	88.22
21-Sep-16 07:00:00	21-Sep-16 08:00:00		8.75	0.00	0.00	4.69	2.1	329.7		2.89	0.00	0.00	1.55		10.35	18.92	83.84	86.68	21-Sep-16 07:00:00		13.24	18.92	83.84	88.23
21-Sep-16 08:00:00	21-Sep-16 09:00:00		9.61	0.00	0.00	4.53	2.1	329.7		3.17	0.00	0.00	1.49		10.35	18.92	83.84	86.68	21-Sep-16 08:00:00		13.52	18.92	83.84	88.17
21-Sep-16 09:00:00	21-Sep-16 10:00:00		8.72	0.00	0.00	4.36	2.1	329.7		2.87	0.00	0.00	1.44		10.35	18.92	83.84	86.68	21-Sep-16 09:00:00		13.22	18.92	83.84	88.12
21-Sep-16 10:00:00	21-Sep-16 11:00:00		9.44	0.00	0.00	4.19	2.1	329.7		3.11	0.00	0.00	1.38		10.35	18.92	83.84	86.68	21-Sep-16 10:00:00		13.46	18.92	83.84	88.06
21-Sep-16 11:00:00	21-Sep-16 12:00:00		10.17	0.00	0.00	4.28	2.1	329.7		3.35	0.00	0.00	1.41		10.35	18.92	83.84	86.68	21-Sep-16 11:00:00		13.70	18.92	83.84	88.09
21-Sep-16 12:00:00	21-Sep-16 13:00:00		10.93	0.00	0.00	4.25	2.1	329.7		3.60	0.00	0.00	1.40		10.35	18.92	83.84	86.68	21-Sep-16 12:00:00		13.95	18.92	83.84	88.08
21-Sep-16 13:00:00	21-Sep-16 14:00:00		9.87	0.00	0.00	4.20	2.1	329.7		3.26	0.00	0.00	1.39		10.35	18.92	83.84	86.68	21-Sep-16 13:00:00		13.61	18.92	83.84	88.07
21-Sep-16 14:00:00	21-Sep-16 15:00:00		9.03	0.00	0.00	4.16	2.1	329.7		2.98	0.00	0.00	1.37		10.35	18.92	83.84	86.68	21-Sep-16 14:00:00		13.33	18.92	83.84	88.05
21-Sep-16 15:00:00	21-Sep-16 16:00:00		9.32	0.00	0.00	4.32	2.1	329.7		3.07	0.00	0.00	1.43		10.35	18.92	83.84	86.68	21-Sep-16 15:00:00		13.42	18.92	83.84	88.11
21-Sep-16 16:00:00	21-Sep-16 17:00:00		9.17	0.00	0.00	4.39	2.1	329.7		3.02	0.00	0.00	1.45		10.35	18.92	83.84	86.68	21-Sep-16 16:00:00		13.37	18.92	83.84	88.13
21-Sep-16 17:00:00	21-Sep-16 18:00:00		7.96	0.00	0.00	4.44	2.1	329.7		2.62	0.00	0.00	1.46		10.35	18.92	83.84	86.68	21-Sep-16 17:00:00		12.97	18.92	83.84	88.14
21-Sep-16 18:00:00	21-Sep-16 19:00:00		1.09	0.00	0.00	4.49	2.1	329.7		0.36	0.00	0.00	1.48		10.35	18.92	83.84	86.68	21-Sep-16 18:00:00		10.71	18.92	83.84	88.16
21-Sep-16 19:00:00	21-Sep-16 20:00:00		0.29	0.00	0.00	4.62	2.1	329.7		0.10	0.00	0.00	1.52		10.35	18.92	83.84	86.68	21-Sep-16 19:00:00		10.45	18.92	83.84	88.20
21-Sep-16 20:00:00	21-Sep-16 21:00:00		0.00	0.00	0.00	4.65	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	21-Sep-16 20:00:00		10.35	18.92	83.84	88.21
21-Sep-16 21:00:00	21-Sep-16 22:00:00		0.00	0.00	0.00	4.68	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	21-Sep-16 21:00:00		10.35	18.92	83.84	88.22
21-Sep-16 22:00:00	21-Sep-16 23:00:00		1.79	58.02	0.00	4.71	2.1	329.7		0.59	19.13	0.00	1.55		10.35	18.92	83.84	86.68	21-Sep-16 22:00:00		10.94	38.05	83.84	88.23
21-Sep-16 23:00:00	22-Sep-16 00:00:00		20.87	48.95	0.00	4.79	2.1	329.7		6.88	16.14	0.00	1.58		10.35	18.92	83.84	86.68	21-Sep-16 23:00:00		17.23	35.06	83.84	88.26
22-Sep-16 00:00:00	22-Sep-16 01:00:00		33.96	223.02	0.00	13.36	2.1	329.7		11.20	73.53	0.00	4.40		10.35	18.92	83.84	86.68	22-Sep-16 00:00:00		21.55	92.45	83.84	91.08
22-Sep-16 01:00:00	22-Sep-16 02:00:00		41.87	406.30	0.00	4.98	2.1	329.7		13.81	133.96	0.00	1.64		10.35	18.92	83.84	86.68	22-Sep-16 01:00:00		24.16	152.88	83.84	88.32
22-Sep-16 02:00:00	22-Sep-16 03:00:00		41.31	622.77	0.00	6.15	2.1	329.7		13.62	205.33	0.00	2.03		10.35	18.92	83.84	86.68	22-Sep-16 02:00:00		23.97	224.25	83.84	88.71
22-Sep-16 03:00:00	22-Sep-16 04:00:00		43.84	884.91	0.00	7.97	2.1	329.7		14.45	291.76	0.00	2.63		10.35	18.92	83.84	86.68	22-Sep-16 03:00:00		24.80	310.68	83.84	89.31
22-Sep-16 04:00:00	22-Sep-16 05:00:00		41.44	581.15	0.00	4.88	2.1	329.7		13.66	191.61	0.00	1.61		10.35	18.92	83.84	86.68	22-Sep-16 04:00:00		24.01	210.53	83.84	88.29
22-Sep-16 05:00:00	22-Sep-16 06:00:00		44.58	1,154.27	0.00	5.02	2.1	329.7		14.70	380.56	0.00	1.66		10.35	18.92	83.84	86.68	22-Sep-16 05:00:00		25.05	399.48	83.84	88.34
22-Sep-16 06:00:00	22-Sep-16 07:00:00		30.46	1,620.57	0.00	5.17	2.1	329.7		10.04	534.30	0.00	1.70		10.35	18.92	83.84	86.68	22-Sep-16 06:00:00		20.39	553.22	83.84	88.38
22-Sep-16 07:00:00	22-Sep-16 08:00:00		67.58	1,616.17	0.00	9.87	2.1	329.7		22.28	532.85	0.00	3.25		10.35	18.92	83.84	86.68	22-Sep-16 07:00:00		32.63	551.77	83.84	89.93
22-Sep-16 08:00:00	22-Sep-16 09:00:00		72.36	1,020.90	0.00	6.26	2.1	329.7		23.86	336.59	0.00	2.06		10.35	18.92	83.84	86.68	22-Sep-16 08:00:00		34.21	355.51	83.84	88.74
22-Sep-16 09:00:00	22-Sep-16 10:00:00		41.92	449.42	0.00	5.04	2.1	329.7		13.82	148.17	0.00	1.66		10.35	18.92	83.84	86.68	22-Sep-16 09:00:00		24.17	167.09	83.84	88.34
22-Sep-16 10:00:00	22-Sep-16 11:00:00		11.57	0.00	0.00	5.00	2.1	329.7		3.82	0.00	0.00	1.65		10.35	18.92	83.84	86.68	22-Sep-16 10:00:00		14.17	18.92	83.84	88.33
22-Sep-16 11:00:00	22-Sep-16 12:00:00		25.06	0.00	0.00	4.96	2.1	329.7		8.26	0.00	0.00	1.64		10.35	18.92	83.84	86.68	22-Sep-16 11:00:00		18.61	18.92	83.84	88.32
22-Sep-16 12:00:00	22-Sep-16 13:00:00		26.93	0.00	0.00	4.90	2.1	329.7		8.88	0.00	0.00	1.61		10.35	18.92	83.84	86.68	22-Sep-16 12:00:00		19.23	18.92	83.84	88.29
22-Sep-16 13:00:00	22-Sep-16 14:00:00		33.61	0.00	0.00	4.74	2.1	329.7		11.08	0.00	0.00	1.56		10.35	18.92	83.84	86.68	22-Sep-16 13:00:00		21.43	18.92	83.84	88.24
22-Sep-16 14:00:00	22-Sep-16 15:00:00		75.62	0.00	0.00	4.57	2.1	329.7		24.93	0.00	0.00	1.51		10.35	18.92	83.84	86.68	22-Sep-16 14:00:00		35.28	18.92	83.84	88.19
22-Sep-16 15:00:00	22-Sep-16 16:00:00		23.88	0.00	0.00	4.40	2.1	329.7		7.87	0.00	0.00	1.45		10.35	18.92	83.84	86.68	22-Sep-16 15:00:00		18.22	18.92	83.84	88.13
22-Sep-16 16:00:00	22-Sep-16 17:00:00		23.39	0.00	0.00	55.88	2.1	329.7		7.71	0.00	0.00	18.42		10.35	18.92	83.84	86.68	22-Sep-16 16:00:00		18.06	18.92	83.84	105.10
22-Sep-16 17:00:00	22-Sep-16 18:00:00		24.99	0.00	0.00	13.36	2.1	329.7		8.24	0.00	0.00	4.41		10.35	18.92	83.84	86.68	22-Sep-16 17:00:00		18.59	18.92	83.84	91.08
22-Sep-16 18:00:00	22-Sep-16 19:00:00		20.57	0.00	0.00	4.48	2.1	329.7		6.78	0.00	0.00	1.48		10.35	18.92	83.84	86.68	22-Sep-16 18:00:00		17.13	18.92	83.84	88.16
22-Sep-16 19:00:00	22-Sep-16 20:00:00		16.78	0.00	0.00	4.50	2.1	329.7		5.53	0.00	0.00	1.48		10.35	18.92	83.84	86.68	22-Sep-16 19:00:00		15.88	18.92	83.84	88.16
22-Sep-16 20:00:00	22-Sep-16 21:00:00		22.38	0.00	0.00	4.52	2.1	329.7		7.38	0.00	0.00	1.49		10.35	18.92	83.84	86.68	22-Sep-16 20:00:00		17.73	18.92	83.84	88.17
22-Sep-16 21:00:00	22-Sep-16 22:00:00		23.66	0.00	0.00	4.57	2.1	329.7		7.80	0.00	0.00	1.51		10.35	18.92	83.84	86.68	22-Sep-16 21:00:00		18.15	18.92	83.84	88.19
22-Sep-16 22:00:00	22-Sep-16 23:00:00		20.49	0.00	0.00	4.69	2.1	329.7		6.76	0.00	0.00	1.55		10.35	18.92	83.84	86.68	22-Sep-16 22:00:00		17.11	18.92	83.84	88.23
22-Sep-16 23:00:00	23-Sep-16 00:00:00		15.29	0.00	0.00	4.81	2.1	329.7		5.04	0.00	0.00	1.58		10.35	18.92	83.84	86.68	22-Sep-16 23:00:00		15.39	18.92	83.84	88.26
23-Sep-16 00:00:00	23-Sep-16 01:00:00		22.25	0.00	0.00	4.92	2.1	329.7		7.34	0.00	0.00	1.62		10.35	18.92	83.84	86.68	23-Sep-16 00:00:00		17.69	18.92	83.84	88.30
23-Sep-16 01:00:00	23-Sep-16 02:00:00		15.85	0.00	0.00	4.98	2.1	329.7		5.22	0.00	0.00	1.64		10.35	18.92	83.84	86.68	23-Sep-16 01:00:00		15.57	18.92	83.84	88.32
23-Sep-16 02:00:00	23-Sep-16 03:00:

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
25-Sep-16 04:00:00	25-Sep-16 05:00:00		26.18	0.00	0.00	5.05	2.1	329.7		8.63	0.00	0.00	1.66		10.35	18.92	83.84	86.68	25-Sep-16 04:00:00		**18.98**	**18.92**	**83.84**	**88.34**
25-Sep-16 05:00:00	25-Sep-16 06:00:00		17.41	0.00	0.00	5.02	2.1	329.7		5.74	0.00	0.00	1.66		10.35	18.92	83.84	86.68	25-Sep-16 05:00:00		**16.09**	**18.92**	**83.84**	**88.34**
25-Sep-16 06:00:00	25-Sep-16 07:00:00		21.92	0.00	0.00	5.01	2.1	329.7		7.23	0.00	0.00	1.65		10.35	18.92	83.84	86.68	25-Sep-16 06:00:00		**17.58**	**18.92**	**83.84**	**88.33**
25-Sep-16 07:00:00	25-Sep-16 08:00:00		38.39	0.00	0.00	5.00	2.1	329.7		12.66	0.00	0.00	1.65		10.35	18.92	83.84	86.68	25-Sep-16 07:00:00		**23.01**	**18.92**	**83.84**	**88.33**
25-Sep-16 08:00:00	25-Sep-16 09:00:00		24.08	0.00	0.00	5.00	2.1	329.7		7.94	0.00	0.00	1.65		10.35	18.92	83.84	86.68	25-Sep-16 08:00:00		**18.29**	**18.92**	**83.84**	**88.33**
25-Sep-16 09:00:00	25-Sep-16 10:00:00		31.47	0.00	0.00	4.84	2.1	329.7		10.38	0.00	0.00	1.59		10.35	18.92	83.84	86.68	25-Sep-16 09:00:00		**20.73**	**18.92**	**83.84**	**88.27**
25-Sep-16 10:00:00	25-Sep-16 11:00:00		37.78	0.00	0.00	4.52	2.1	329.7		12.46	0.00	0.00	1.49		10.35	18.92	83.84	86.68	25-Sep-16 10:00:00		**22.81**	**18.92**	**83.84**	**88.17**
25-Sep-16 11:00:00	25-Sep-16 12:00:00		37.11	0.00	0.00	4.21	2.1	329.7		12.23	0.00	0.00	1.39		10.35	18.92	83.84	86.68	25-Sep-16 11:00:00		**22.58**	**18.92**	**83.84**	**88.07**
25-Sep-16 12:00:00	25-Sep-16 13:00:00		27.57	0.00	0.00	3.88	2.1	329.7		9.09	0.00	0.00	1.28		10.35	18.92	83.84	86.68	25-Sep-16 12:00:00		**19.44**	**18.92**	**83.84**	**87.96**
25-Sep-16 13:00:00	25-Sep-16 14:00:00		43.59	0.00	0.00	3.56	2.1	329.7		14.37	0.00	0.00	1.18		10.35	18.92	83.84	86.68	25-Sep-16 13:00:00		**24.72**	**18.92**	**83.84**	**87.86**
25-Sep-16 14:00:00	25-Sep-16 15:00:00		40.83	0.00	0.00	3.53	2.1	329.7		13.46	0.00	0.00	1.16		10.35	18.92	83.84	86.68	25-Sep-16 14:00:00		**23.81**	**18.92**	**83.84**	**87.84**
25-Sep-16 15:00:00	25-Sep-16 16:00:00		17.47	0.00	0.00	3.50	2.1	329.7		5.76	0.00	0.00	1.15		10.35	18.92	83.84	86.68	25-Sep-16 15:00:00		**16.11**	**18.92**	**83.84**	**87.83**
25-Sep-16 16:00:00	25-Sep-16 17:00:00		7.09	0.00	0.00	3.47	2.1	329.7		2.34	0.00	0.00	1.15		10.35	18.92	83.84	86.68	25-Sep-16 16:00:00		**12.69**	**18.92**	**83.84**	**87.83**
25-Sep-16 17:00:00	25-Sep-16 18:00:00		3.13	0.00	0.00	3.65	2.1	329.7		1.03	0.00	0.00	1.20		10.35	18.92	83.84	86.68	25-Sep-16 17:00:00		**11.38**	**18.92**	**83.84**	**87.88**
25-Sep-16 18:00:00	25-Sep-16 19:00:00		1.24	0.00	0.00	3.91	2.1	329.7		0.41	0.00	0.00	1.29		10.35	18.92	83.84	86.68	25-Sep-16 18:00:00		**10.76**	**18.92**	**83.84**	**87.97**
25-Sep-16 19:00:00	25-Sep-16 20:00:00		1.63	0.00	0.00	4.16	2.1	329.7		0.54	0.00	0.00	1.37		10.35	18.92	83.84	86.68	25-Sep-16 19:00:00		**10.89**	**18.92**	**83.84**	**88.05**
25-Sep-16 20:00:00	25-Sep-16 21:00:00		3.45	0.00	0.00	4.41	2.1	329.7		1.14	0.00	0.00	1.46		10.35	18.92	83.84	86.68	25-Sep-16 20:00:00		**11.49**	**18.92**	**83.84**	**88.14**
25-Sep-16 21:00:00	25-Sep-16 22:00:00		11.91	0.00	0.00	4.60	2.1	329.7		3.93	0.00	0.00	1.52		10.35	18.92	83.84	86.68	25-Sep-16 21:00:00		**14.28**	**18.92**	**83.84**	**88.20**
25-Sep-16 22:00:00	25-Sep-16 23:00:00		15.06	0.00	0.00	4.74	2.1	329.7		4.97	0.00	0.00	1.56		10.35	18.92	83.84	86.68	25-Sep-16 22:00:00		**15.32**	**18.92**	**83.84**	**88.24**
25-Sep-16 23:00:00	26-Sep-16 00:00:00		16.44	0.00	0.00	4.88	2.1	329.7		5.42	0.00	0.00	1.61		10.35	18.92	83.84	86.68	25-Sep-16 23:00:00		**15.77**	**18.92**	**83.84**	**88.29**
26-Sep-16 00:00:00	26-Sep-16 01:00:00		22.34	0.00	0.00	5.03	2.1	329.7		7.37	0.00	0.00	1.66		10.35	18.92	83.84	86.68	26-Sep-16 00:00:00		**17.72**	**18.92**	**83.84**	**88.34**
26-Sep-16 01:00:00	26-Sep-16 02:00:00		39.35	0.00	0.00	5.05	2.1	329.7		12.98	0.00	0.00	1.66		10.35	18.92	83.84	86.68	26-Sep-16 01:00:00		**23.33**	**18.92**	**83.84**	**88.34**
26-Sep-16 02:00:00	26-Sep-16 03:00:00		30.49	0.00	0.00	4.92	2.1	329.7		10.05	0.00	0.00	1.62		10.35	18.92	83.84	86.68	26-Sep-16 02:00:00		**20.40**	**18.92**	**83.84**	**88.30**
26-Sep-16 03:00:00	26-Sep-16 04:00:00		29.06	0.00	0.00	4.79	2.1	329.7		9.58	0.00	0.00	1.58		10.35	18.92	83.84	86.68	26-Sep-16 03:00:00		**19.93**	**18.92**	**83.84**	**88.26**
26-Sep-16 04:00:00	26-Sep-16 05:00:00		27.42	0.00	0.00	4.67	2.1	329.7		9.04	0.00	0.00	1.54		10.35	18.92	83.84	86.68	26-Sep-16 04:00:00		**19.39**	**18.92**	**83.84**	**88.22**
26-Sep-16 05:00:00	26-Sep-16 06:00:00		25.01	0.00	0.00	4.82	2.1	329.7		8.25	0.00	0.00	1.59		10.35	18.92	83.84	86.68	26-Sep-16 05:00:00		**18.60**	**18.92**	**83.84**	**88.27**
26-Sep-16 06:00:00	26-Sep-16 07:00:00		32.02	0.00	0.00	6.86	2.1	329.7		10.56	0.00	0.00	2.26		10.35	18.92	83.84	86.68	26-Sep-16 06:00:00		**20.91**	**18.92**	**83.84**	**88.94**
26-Sep-16 07:00:00	26-Sep-16 08:00:00		40.55	0.00	0.00	6.87	2.1	329.7		13.37	0.00	0.00	2.27		10.35	18.92	83.84	86.68	26-Sep-16 07:00:00		**23.72**	**18.92**	**83.84**	**88.95**
26-Sep-16 08:00:00	26-Sep-16 09:00:00		41.84	0.00	0.00	5.07	2.1	329.7		13.79	0.00	0.00	1.67		10.35	18.92	83.84	86.68	26-Sep-16 08:00:00		**24.14**	**18.92**	**83.84**	**88.35**
26-Sep-16 09:00:00	26-Sep-16 10:00:00		60.07	0.00	0.00	5.05	2.1	329.7		19.81	0.00	0.00	1.66		10.35	18.92	83.84	86.68	26-Sep-16 09:00:00		**30.16**	**18.92**	**83.84**	**88.34**
26-Sep-16 10:00:00	26-Sep-16 11:00:00		60.14	0.00	0.00	5.03	2.1	329.7		19.83	0.00	0.00	1.66		10.35	18.92	83.84	86.68	26-Sep-16 10:00:00		**30.18**	**18.92**	**83.84**	**88.34**
26-Sep-16 11:00:00	26-Sep-16 12:00:00		58.88	0.00	0.00	5.28	2.1	329.7		19.41	0.00	0.00	1.74		10.35	18.92	83.84	86.68	26-Sep-16 11:00:00		**29.76**	**18.92**	**83.84**	**88.42**
26-Sep-16 12:00:00	26-Sep-16 13:00:00		56.32	0.00	0.00	4.67	2.1	329.7		18.57	0.00	0.00	1.54		10.35	18.92	83.84	86.68	26-Sep-16 12:00:00		**28.92**	**18.92**	**83.84**	**88.22**
26-Sep-16 13:00:00	26-Sep-16 14:00:00		44.89	0.00	0.00	4.42	2.1	329.7		14.80	0.00	0.00	1.46		10.35	18.92	83.84	86.68	26-Sep-16 13:00:00		**25.15**	**18.92**	**83.84**	**88.14**
26-Sep-16 14:00:00	26-Sep-16 15:00:00		28.77	0.00	0.00	4.17	2.1	329.7		9.49	0.00	0.00	1.38		10.35	18.92	83.84	86.68	26-Sep-16 14:00:00		**19.84**	**18.92**	**83.84**	**88.06**
26-Sep-16 15:00:00	26-Sep-16 16:00:00		29.63	0.00	0.00	3.96	2.1	329.7		9.77	0.00	0.00	1.30		10.35	18.92	83.84	86.68	26-Sep-16 15:00:00		**20.12**	**18.92**	**83.84**	**87.98**
26-Sep-16 16:00:00	26-Sep-16 17:00:00		31.40	0.00	0.00	3.95	2.1	329.7		10.35	0.00	0.00	1.30		10.35	18.92	83.84	86.68	26-Sep-16 16:00:00		**20.70**	**18.92**	**83.84**	**87.98**
26-Sep-16 17:00:00	26-Sep-16 18:00:00		35.91	0.00	0.00	3.98	2.1	329.7		11.84	0.00	0.00	1.31		10.35	18.92	83.84	86.68	26-Sep-16 17:00:00		**22.19**	**18.92**	**83.84**	**87.99**
26-Sep-16 18:00:00	26-Sep-16 19:00:00		72.19	0.00	0.00	4.01	2.1	329.7		23.80	0.00	0.00	1.32		10.35	18.92	83.84	86.68	26-Sep-16 18:00:00		**34.15**	**18.92**	**83.84**	**88.00**
26-Sep-16 19:00:00	26-Sep-16 20:00:00		33.11	0.00	0.00	4.01	2.1	329.7		10.92	0.00	0.00	1.32		10.35	18.92	83.84	86.68	26-Sep-16 19:00:00		**21.27**	**18.92**	**83.84**	**88.00**
26-Sep-16 20:00:00	26-Sep-16 21:00:00		31.74	0.00	0.00	4.12	2.1	329.7		10.46	0.00	0.00	1.36		10.35	18.92	83.84	86.68	26-Sep-16 20:00:00		**20.81**	**18.92**	**83.84**	**88.04**
26-Sep-16 21:00:00	26-Sep-16 22:00:00		31.79	0.00	0.00	4.26	2.1	329.7		10.48	0.00	0.00	1.40		10.35	18.92	83.84	86.68	26-Sep-16 21:00:00		**20.83**	**18.92**	**83.84**	**88.08**
26-Sep-16 22:00:00	26-Sep-16 23:00:00		28.01	0.00	0.00	4.40	2.1	329.7		9.23	0.00	0.00	1.45		10.35	18.92	83.84	86.68	26-Sep-16 22:00:00		**19.58**	**18.92**	**83.84**	**88.13**
26-Sep-16 23:00:00	27-Sep-16 00:00:00		14.26	0.00	0.00	4.60	2.1	329.7		4.70	0.00	0.00	1.52		10.35	18.92	83.84	86.68	26-Sep-16 23:00:00		**15.05**	**18.92**	**83.84**	**88.20**
27-Sep-16 00:00:00	27-Sep-16 01:00:00		11.92	0.00	0.00	4.77	2.1	329.7		3.93	0.00	0.00	1.57		10.35	18.92	83.84	86.68	27-Sep-16 00:00:00		**14.28**	**18.92**	**83.84**	**88.25**
27-Sep-16 01:00:00	27-Sep-16 02:00:00		24.73	0.00	0.00	4.91	2.1	329.7		8.15	0.00	0.00	1.62		10.35	18.92	83.84	86.68	27-Sep-16 01:00:00		**18.50**	**18.92**	**83.84**	**88.30**
27-Sep-16 02:00:00	27-Sep-16 03:00:00		44.43	0.00	0.00	5.05	2.1	329.7		14.65	0.00	0.00	1.67		10.35	18.92	83.84	86.68	27-Sep-16 02:00:00		**25.00**	**18.92**	**83.84**	**88.35**
27-Sep-16 03:00:00	27-Sep-16 04:00:00		31.79	0.00	0.00	5.16	2.1	329.7		10.48	0.00	0.00	1.70		10.35	18.92	83.84	86.68	27-Sep-16 03:00:00		**20.83**	**18.92**	**83.84**	**88.38**
27-Sep-16 04:00:00	27-Sep-16 05:00:00		36.75	0.00	0.00	7.75	2.1	329.7		12.12	0.00	0.00	2.55		10.35	18.92	83.84	86.68	27-Sep-16 04:00:00		**22.47**	**18.92**	**83.84**	**89.23**
27-Sep-16 05:00:00	27-Sep-16 06:00:00		33.04	0.00	0.00	5.32	2.1	329.7		10.89	0.00	0.00	1.76		10.35	18.92	83.84	86.68	27-Sep-16 05:00:00		**21.24**	**18.92**	**83.84**	**88.44**
27-Sep-16 06:00:00	27-Sep-16 07:00:00		31.63	0.00	0.00	7.59	2.1	329.7		10.43	0.00	0.00	2.50		10.35	18.92	83.84	86.68	27-Sep-16 06:00:00		**20.78**	**18.92**	**83.84**	**89.18**
27-Sep-16 07:00:00	27-Sep-16 08:00:00		37.62	0.00	0.00	15.30	2.1	329.7		12.40	0.00	0.00	5.04		10.35	18.92	83.84	86.68	27-Sep-16 07:00:00		**22.75**	**18.92**	**83.84**	**91.72**
27-Sep-16 08:00:00	27-Sep-16 09:00:00		41.27	0.00	0.00	11.28	2.1	329.7		13.61	0.00	0.00	3.72		10.35	18.92	83.84	86.68	27-Sep-16 08:00:00		**23.96**	**18.92**	**83.84**	**90.40**
27-Sep-16 09:00:00	27-Sep-16 10:00:00		36.89	0.00	0.00	6.00	2.1	329.7		12.16	0.00	0.00	1.98		10.35	18.92	83.84	86.68	27-Sep-16 09:00:00		**22.51**	**18.92**	**83.84**	**88.66**
27-Sep-16 10:00:00	27-Sep-16 11:00:00		26.04	0.00	0.00	7.03	2.1	329.7		8.58	0.00	0.00	2.32		10.35	18.92	83.84	86.68	27-Sep-16 10:00:00		**18.93**	**18.92**	**83.84**	**89.00**
27-Sep-16 11:00:00	27-Sep-16 12:00:00		34.22	0.00	0.00	4.39	2.1	329.7		11.28	0.00	0.00	1.45		10.35	18.92	83.84	86.68	27-Sep-16 11:00:00		**21.63**	**18.92**	**83.84**	**88.13**
27-Sep-16 12:00:00	27-Sep-16 13:00:00		55.90	0.00	0.00	4.24	2.1	329.7		18.43	0.00	0.00	1.40		10.35	18.92	83.84	86.68	27-Sep-16 12:00:00		**28.78**	**18.92**	**83.84**	**88.08**
27-Sep-16 13:00:00	27-Sep-16 14:00:00		23.51	0.00	0.00	4.10	2.1	329.7		7.75	0.00	0.00	1.35		10.35	18.92	83.84	86.68	27-Sep-16 13:00:00		**18.10**	**18.92**	**83.84**	**88.03**
27-Sep-16 14:00:00	27-Sep-16 15:00:00		27.96	0.00	0.00	3.99	2.1	329.7		9.22	0.00	0.00	1.32		10.35	18.92	83.84	86.68	27-Sep-16 14:00:00		**19.57**	**18.92**	**83.84**	**88.00**
27-Sep-16 15:00:00	27-Sep-16 16:00:00		25.60	0.00	0.00	3.98	2.1	329.7		8.44	0.00	0.00	1.31		10.35	18.92	83.84	86.68	27-Sep-16 15:00:00		**18.79**	**18.92**	**83.84**	**87.99**
27-Sep-16 16:00:00	27-Sep-16 17:00:00		22.71	0.00	0.00	3.97	2.1	329.7		7.49	0.00	0.00	1.31		10.35	18.92	83.84	86.68	27-Sep-16 16:00:00		**17.84**	**18.92**	**83.84**	**87.99**
27-Sep-16 17:00:00	27-Sep-16 18:00:00		24.32	0.00	0.00	3.96	2.1	329.7		8.02	0.00	0.00	1.31		10.35	18.92	83.84	86.68	27-Sep-16 17:00:00		**18.37**	**18.92**	**83.84**	**87.99**
27-Sep-16 18:00:00	27-Sep-16 19:00:00		33.56	0.00	0.00	3.96	2.1	329.7		11.07	0.00	0.00	1.31		10.35	18.92	83.84	86.68	27-Sep-16 18:00:00		**21.42**	**18.92**	**83.84**	**87.99**
27-Sep-16 19:00:00	27-Sep-16 20:00:00		35.85	0.00	0.00	4.07	2.1	329.7		11.82	0.00	0.00	1.34		10.35	18.92	83.84	86.68	27-Sep-16 19:00:00		**22.17**	**18.92**	**83.84**	**88.02**
27-Sep-16 20:00:00	27-Sep-16 21:00:00		33.62	0.00	0.00	4.22	2.1	329.7		11.09	0.00	0.00	1.39		10.35	18.92	83.84	86.68	27-Sep-16 20:00:00		**21.44**	**18.92**	**83.84**	**88.07**
27-Sep-16 21:00:00	27-Sep-16 22:00:00		34.50	0.00	0.00	4.37	2.1	329.7		11.37	0.00	0.00	1.44		10.35	18.92	83.84	86.68	27-Sep-16 21:00:00		**21.72**	**18.92**	**83.84**	**88.12**
27-Sep-16 22:00:00	27-Sep-16 23:00:00		28.17	0.00	0.00	4.49	2.1	329.7		9.29	0.00	0.00	1.48		10.35	18.92	83.84	86.68	27-Sep-16 22:00:00		**19.64**	**18.92**	**83.84**	**88.16**
27-Sep-16 23:00:00	28-Sep-16 00:00:00		8.17	0.00	0.00	4.59	2.1	329.7		2.69	0.00	0.00	1.51		10.35	18.92	83.84	86.68	27-Sep-16 23:00:00		**13.04**	**18.92**	**83.84**	**88.19**
28-Sep-16 00:00:00	28-Sep-16 01:00:00		32.75	0.00	0.00	4.70	2.1	329.7		10.80	0.00	0.00	1.55		10.35	18.92	83.84	86.68	28-Sep-16 00:00:00		**21.15**	**18.92**	**83.84**	**88.23**
28-Sep-16 01:00:00	28-Sep-16 02:00:00		40.85	0.00	0.00	4.81	2.1	329.7		13.47	0.00	0.00	1.59		10.35	18.92	83.84	86.68	28-Sep-16 01:00:00		**23.82**	**18.92**	**83.84**	**88.27**
28-Sep-16 02:00:00	28-Sep-16 03:00:00		44.93	0.00	0.00	4.86	2.1	329.7		14.81	0.00	0.00	1.60		10.35	18.92	83.84	86.68	28-Sep-16 02:00:00		**25.16**	**18.92**	**83.84**	**88.28**
28-Sep-16 03:00:00	28-Sep-16 04:00:00		45.45	0.00	0.00	4.86	2.1	329.7		14.99	0.00	0.00	1.60		10.35	18.92	83.84	86.68	28-Sep-16 03:00:00		**25.34**	**18.92**	**83.84**	**88.28**
28-Sep-16 04:00:00	28-Sep-16 05:00:00		44.86	0.00	0.00	4.94	2.1	329.7		14.79	0.00	0.00	1.63		10.35	18.92	83.84	86.68	28-Sep-16 04:00:00		**25.14**	**18.92**	**83.84**	**88.31**
28-Sep-16 05:00:00	28-Sep-16 06:00:00		48.61	0.00	0.00	5.02	2.1	329.7		16.03	0.00	0.00	1.66		10.35	18.92	83.84	86.68	28-Sep-16 05:00:00		**26.38**	**18.92**	**83.84**	**88.34**
28-Sep-16 06:00:00	28-Sep-16 07:00:00		21.54	0.00	0.00	5.09	2.1	329.7		7.10	0.00	0.00	1.68		10.35	18.92	83.84	86.68	28-Sep-16 06:00:00		**17.45**	**18.92**	**83.84**	**88.36**
28-Sep-16 07:00:00	28-Sep-16 08:00:00		12.40	0.00	0.00	5.00	2.1	329.7		4.09	0.00	0.00	1.65		10.35	18.92	83.84	86.68	28-Sep-16 07:00:00		**14.44**	**18.92**	**83.84**	**88.33**
28-Sep-16 08:00:00	28-Sep-16 09:00:00		29.81	0.00	0.00	4.85	2.1	329.7		9.83	0.00	0.00	1.60		10.35	18.92	83.84	86.68	28-Sep-16 08:00:00		**20.18**	**18.92**	**83.84**	**88.28**
28-Sep-16 09:00:00	28-Sep-16 10:00:00		29.65	0.00	0.00	4.70	2.1	329.7		9.77	0.00	0.00	1.55		10.35	18.92	83.84	86.68	28-Sep-16 09:00:00		**20.12**	**18.92**	**83.84**	**88.23**
28-Sep-16 10:00:00	28-Sep-16 11:00:00		28.78	0.00	0.00	4.52	2.1	329.7		9.49	0.00	0.00	1.49		10.35	18.92	83.84	86.68	28-Sep-16 10:00:00		**19.84**	**18.92**	**83.84**	**88.17**
28-Sep-16 11:00:00	28-Sep-16 12:00:00		28.11	0.00	0.00	4.17	2.1	329.7		9.27	0.00	0.00	1.37		10.35	18.92	83.84	86.68	28-Sep-16 11:00:00		**19.62**	**18.92**	**83.84**	**88.05**
28-Sep-16 12:00:00	28-Sep-16 13:00:00		41.02	0.00	0.00	3.78	2.1	329.7		13.52	0.00	0.00	1.24		10.35	18.92	83.84	86.68	28-Sep-16 12:00:00		**23.87**	**18.92**	**83.84**	**87.92**
28-Sep-16 13:00:00	28-Sep-16 14:00:00		19.51	0.00	0.00	5.60	2.1	329.7		6.43	0.00	0.00	1.85		10.35	18.92	83.84	86.68	28-Sep-16 13:00:00		**16.78**	**18.92**	**83.84**	**88.53**
28-Sep-16 14:00:00	28-Sep-16 15:00:00		28.79	0.00	0.00	3.60	2.1	329.7		9.49	0.00	0.00	1.19		10.35	18.92	83.84	86.68	28-Sep-16 14:00:00		**19.84**	**18.92**	**83.84**	**87.87**
28-Sep-16 15:00:00	28-Sep-16 16:00:00		20.59	0.00	0.00	3.69	2.1	329.7		6.79	0.00	0.00	1.22		10.35	18.92	83.84	86.68	28-Sep-16 15:00:00		**17.14**	**18.92**	**83.84**	**87.90**
28-Sep-16 16:00:00	28-Sep-16 17:00:00		8.79	0.00	0.00	3.79	2.1	329.7		2.90	0.00	0.00	1.25		10.35	18.92	83.84	86.68	28-Sep-16 16:00:00		**13.25**	**18.92**	**83.84**	**87.93**
28-Sep-16 17:00:00	28-Sep-16 18:00:00		6.35	0.00	0.00	3.86	2.1	329.7		2.09	0.00	0.00	1.27		10.35	18.92	83.84	86.68	28-Sep-16 17:00:00		**12.44**	**18.92**	**83.84**	**87.95**
28-Sep-16 18:00:00	28-Sep-16 19:00:00		8.92	0.00	0.00	4.07	2.1	329.7		2.94	0.00	0.00	1.34		10.35	18.92	83.84	86.68	28-Sep-16 18:00:00		**13.29**	**18.92**	**83.84**	**88.02**
28-Sep-16 19:00:00	28-Sep-16 20:00:00		9.13	0.00	0.00	4.29	2.1	329.7		3.01	0.00	0.00	1.41		10.35	18.92	83.84	86.68	28-Sep-16 19:00:00		**13.36**	**18.92**	**83.84**	**88.09**
28-Sep-16 20:00:00	28-Sep-16 21:00:00		27.45	0.00	0.00	4.51	2.1	329.7		9.05	0.00	0.00	1.49		10.35	18.92	83.84	86.68	28-Sep-16 20:00:00		**19.40**	**18.92**	**83.84**	**88.17**
28-Sep-16 21:00:00	28-Sep-16 22:00:00		11.69	0.00	0.00	4.74	2.1	329.7		3.86	0.00	0.00	1.56		10.35	18.92	83.84	86.68	28-Sep-16 21:00:00		**14.21**	**18.92**	**83.84**	**88.24**
28-Sep-16 22:00:00	28-Sep-16 23:00:00		19.52	0.00	0.00	4.97	2.1	329.7		6.44	0.00	0.00	1.64		10.35	18.92	83.84	86.68	28-Sep-16 22:00:00		**16.79**	**18.92**	**83.84**	**88.32**
28-Sep-16 23:00:00	29-Sep-16 00:00:00		50.67	0.00	0.00	15.24	2.1	329.7		16.70	0.00	0.00	5.03		10.35	18.92	83.84	86.68	28-Sep-16 23:00:00		**27.05**	**18.92**	**83.84**	**91.71**
29-Sep-16 00:00:00	29-Sep-16 01:00:00		75.42	0.00	0.00	5.14	2.1	329.7		24.86	0.00	0.00	1.69		10.35	18.92	83.84	86.68	29-Sep-16 00:00:00		**35.21**	**18.92**	**83.84**	**88.37**
29-Sep-16 01:00:00	29-Sep-16 02:00:00		74.92	0.00	0.00	5.17

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
01-Oct-16 03:00:00	01-Oct-16 04:00:00		15.87	0.00	0.00	5.70	2.1	329.7		5.23	0.00	0.00	1.88		10.35	18.92	83.84	86.68	01-Oct-16 03:00:00		15.58	18.92	83.84	88.56
01-Oct-16 04:00:00	01-Oct-16 05:00:00		11.77	0.00	0.00	15.81	2.1	329.7		3.88	0.00	0.00	5.21		10.35	18.92	83.84	86.68	01-Oct-16 04:00:00		14.23	18.92	83.84	91.89
01-Oct-16 05:00:00	01-Oct-16 06:00:00		761.18	0.00	0.00	5.72	2.1	329.7		250.96	0.00	0.00	1.89		10.35	18.92	83.84	86.68	01-Oct-16 05:00:00		261.31	18.92	83.84	88.57
01-Oct-16 06:00:00	01-Oct-16 07:00:00		1,563.57	0.00	0.00	5.70	2.1	329.7		515.51	0.00	0.00	1.88		10.35	18.92	83.84	86.68	01-Oct-16 06:00:00		525.86	18.92	83.84	88.56
01-Oct-16 07:00:00	01-Oct-16 08:00:00		1,597.06	0.00	0.00	5.68	2.1	329.7		526.55	0.00	0.00	1.87		10.35	18.92	83.84	86.68	01-Oct-16 07:00:00		536.90	18.92	83.84	88.55
01-Oct-16 08:00:00	01-Oct-16 09:00:00		1,407.43	0.00	0.00	5.64	2.1	329.7		464.03	0.00	0.00	1.86		10.35	18.92	83.84	86.68	01-Oct-16 08:00:00		474.38	18.92	83.84	88.54
01-Oct-16 09:00:00	01-Oct-16 10:00:00		1,421.18	0.00	0.00	5.39	2.1	329.7		468.56	0.00	0.00	1.78		10.35	18.92	83.84	86.68	01-Oct-16 09:00:00		478.91	18.92	83.84	88.46
01-Oct-16 10:00:00	01-Oct-16 11:00:00		1,505.45	0.00	0.00	5.05	2.1	329.7		496.35	0.00	0.00	1.67		10.35	18.92	83.84	86.68	01-Oct-16 10:00:00		506.70	18.92	83.84	88.35
01-Oct-16 11:00:00	01-Oct-16 12:00:00		1,389.43	0.00	0.00	4.72	2.1	329.7		458.09	0.00	0.00	1.56		10.35	18.92	83.84	86.68	01-Oct-16 11:00:00		468.44	18.92	83.84	88.24
01-Oct-16 12:00:00	01-Oct-16 13:00:00		168.65	0.00	0.00	4.36	2.1	329.7		55.60	0.00	0.00	1.44		10.35	18.92	83.84	86.68	01-Oct-16 12:00:00		65.95	18.92	83.84	88.12
01-Oct-16 13:00:00	01-Oct-16 14:00:00		4.35	0.00	0.00	4.14	2.1	329.7		1.44	0.00	0.00	1.36		10.35	18.92	83.84	86.68	01-Oct-16 13:00:00		11.79	18.92	83.84	88.04
01-Oct-16 14:00:00	01-Oct-16 15:00:00		3.00	0.00	0.00	4.05	2.1	329.7		0.99	0.00	0.00	1.33		10.35	18.92	83.84	86.68	01-Oct-16 14:00:00		11.34	18.92	83.84	88.01
01-Oct-16 15:00:00	01-Oct-16 16:00:00		2.51	0.00	0.00	3.96	2.1	329.7		0.83	0.00	0.00	1.31		10.35	18.92	83.84	86.68	01-Oct-16 15:00:00		11.18	18.92	83.84	87.99
01-Oct-16 16:00:00	01-Oct-16 17:00:00		1.07	0.00	0.00	3.91	2.1	329.7		0.35	0.00	0.00	1.29		10.35	18.92	83.84	86.68	01-Oct-16 16:00:00		10.70	18.92	83.84	87.97
01-Oct-16 17:00:00	01-Oct-16 18:00:00		0.00	0.00	0.00	4.03	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	01-Oct-16 17:00:00		10.35	18.92	83.84	88.01
01-Oct-16 18:00:00	01-Oct-16 19:00:00		1.12	0.00	0.00	4.13	2.1	329.7		0.37	0.00	0.00	1.36		10.35	18.92	83.84	86.68	01-Oct-16 18:00:00		10.72	18.92	83.84	88.04
01-Oct-16 19:00:00	01-Oct-16 20:00:00		1.91	0.00	0.00	4.23	2.1	329.7		0.63	0.00	0.00	1.40		10.35	18.92	83.84	86.68	01-Oct-16 19:00:00		10.98	18.92	83.84	88.08
01-Oct-16 20:00:00	01-Oct-16 21:00:00		7.08	0.00	0.00	4.35	2.1	329.7		2.33	0.00	0.00	1.43		10.35	18.92	83.84	86.68	01-Oct-16 20:00:00		12.68	18.92	83.84	88.11
01-Oct-16 21:00:00	01-Oct-16 22:00:00		39.87	0.00	0.00	4.67	2.1	329.7		13.14	0.00	0.00	1.54		10.35	18.92	83.84	86.68	01-Oct-16 21:00:00		23.49	18.92	83.84	88.22
01-Oct-16 22:00:00	01-Oct-16 23:00:00		31.12	0.00	0.00	54.26	2.1	329.7		10.26	0.00	0.00	17.89		10.35	18.92	83.84	86.68	01-Oct-16 22:00:00		20.61	18.92	83.84	104.57
01-Oct-16 23:00:00	02-Oct-16 00:00:00		6.42	0.00	0.00	5.25	2.1	329.7		2.12	0.00	0.00	1.73		10.35	18.92	83.84	86.68	01-Oct-16 23:00:00		12.47	18.92	83.84	88.41
02-Oct-16 00:00:00	02-Oct-16 01:00:00		14.28	0.00	0.00	118.47	2.1	329.7		4.71	0.00	0.00	39.06		10.35	18.92	83.84	86.68	02-Oct-16 00:00:00		15.06	18.92	83.84	125.74
02-Oct-16 01:00:00	02-Oct-16 02:00:00		1.04	0.00	0.00	5.34	2.1	329.7		0.34	0.00	0.00	1.76		10.35	18.92	83.84	86.68	02-Oct-16 01:00:00		10.69	18.92	83.84	88.44
02-Oct-16 02:00:00	02-Oct-16 03:00:00		2.55	0.00	0.00	5.43	2.1	329.7		0.84	0.00	0.00	1.79		10.35	18.92	83.84	86.68	02-Oct-16 02:00:00		11.19	18.92	83.84	88.47
02-Oct-16 03:00:00	02-Oct-16 04:00:00		12.59	0.00	0.00	5.53	2.1	329.7		4.15	0.00	0.00	1.82		10.35	18.92	83.84	86.68	02-Oct-16 03:00:00		14.50	18.92	83.84	88.50
02-Oct-16 04:00:00	02-Oct-16 05:00:00		7.80	0.00	0.00	5.62	2.1	329.7		2.57	0.00	0.00	1.85		10.35	18.92	83.84	86.68	02-Oct-16 04:00:00		12.92	18.92	83.84	88.53
02-Oct-16 05:00:00	02-Oct-16 06:00:00		7.09	0.00	0.00	5.62	2.1	329.7		2.34	0.00	0.00	1.85		10.35	18.92	83.84	86.68	02-Oct-16 05:00:00		12.69	18.92	83.84	88.53
02-Oct-16 06:00:00	02-Oct-16 07:00:00		6.47	0.00	0.00	5.56	2.1	329.7		2.13	0.00	0.00	1.83		10.35	18.92	83.84	86.68	02-Oct-16 06:00:00		12.48	18.92	83.84	88.51
02-Oct-16 07:00:00	02-Oct-16 08:00:00		5.07	0.00	0.00	5.50	2.1	329.7		1.67	0.00	0.00	1.81		10.35	18.92	83.84	86.68	02-Oct-16 07:00:00		12.02	18.92	83.84	88.49
02-Oct-16 08:00:00	02-Oct-16 09:00:00		37.43	0.00	0.00	5.43	2.1	329.7		12.34	0.00	0.00	1.79		10.35	18.92	83.84	86.68	02-Oct-16 08:00:00		22.69	18.92	83.84	88.47
02-Oct-16 09:00:00	02-Oct-16 10:00:00		20.49	0.00	0.00	5.11	2.1	329.7		6.76	0.00	0.00	1.69		10.35	18.92	83.84	86.68	02-Oct-16 09:00:00		17.11	18.92	83.84	88.37
02-Oct-16 10:00:00	02-Oct-16 11:00:00		63.01	0.00	0.00	4.65	2.1	329.7		20.77	0.00	0.00	1.53		10.35	18.92	83.84	86.68	02-Oct-16 10:00:00		31.12	18.92	83.84	88.21
02-Oct-16 11:00:00	02-Oct-16 12:00:00		17.48	0.00	0.00	4.19	2.1	329.7		5.76	0.00	0.00	1.38		10.35	18.92	83.84	86.68	02-Oct-16 11:00:00		16.11	18.92	83.84	88.06
02-Oct-16 12:00:00	02-Oct-16 13:00:00		12.17	0.00	0.00	3.75	2.1	329.7		4.01	0.00	0.00	1.24		10.35	18.92	83.84	86.68	02-Oct-16 12:00:00		14.36	18.92	83.84	87.92
02-Oct-16 13:00:00	02-Oct-16 14:00:00		11.75	0.00	0.00	3.69	2.1	329.7		3.88	0.00	0.00	1.22		10.35	18.92	83.84	86.68	02-Oct-16 13:00:00		14.23	18.92	83.84	87.90
02-Oct-16 14:00:00	02-Oct-16 15:00:00		26.90	0.00	0.00	3.76	2.1	329.7		8.87	0.00	0.00	1.24		10.35	18.92	83.84	86.68	02-Oct-16 14:00:00		19.22	18.92	83.84	87.92
02-Oct-16 15:00:00	02-Oct-16 16:00:00		31.87	0.00	0.00	3.83	2.1	329.7		10.51	0.00	0.00	1.26		10.35	18.92	83.84	86.68	02-Oct-16 15:00:00		20.86	18.92	83.84	87.94
02-Oct-16 16:00:00	02-Oct-16 17:00:00		35.01	0.00	0.00	3.90	2.1	329.7		11.54	0.00	0.00	1.29		10.35	18.92	83.84	86.68	02-Oct-16 16:00:00		21.89	18.92	83.84	87.97
02-Oct-16 17:00:00	02-Oct-16 18:00:00		18.64	0.00	0.00	3.95	2.1	329.7		6.14	0.00	0.00	1.30		10.35	18.92	83.84	86.68	02-Oct-16 17:00:00		16.49	18.92	83.84	87.98
02-Oct-16 18:00:00	02-Oct-16 19:00:00		12.33	0.00	0.00	4.02	2.1	329.7		4.07	0.00	0.00	1.33		10.35	18.92	83.84	86.68	02-Oct-16 18:00:00		14.42	18.92	83.84	88.01
02-Oct-16 19:00:00	02-Oct-16 20:00:00		19.73	0.00	0.00	4.09	2.1	329.7		6.51	0.00	0.00	1.35		10.35	18.92	83.84	86.68	02-Oct-16 19:00:00		16.86	18.92	83.84	88.03
02-Oct-16 20:00:00	02-Oct-16 21:00:00		15.93	0.00	0.00	4.13	2.1	329.7		5.25	0.00	0.00	1.36		10.35	18.92	83.84	86.68	02-Oct-16 20:00:00		15.60	18.92	83.84	88.04
02-Oct-16 21:00:00	02-Oct-16 22:00:00		20.03	0.00	0.00	4.18	2.1	329.7		6.60	0.00	0.00	1.38		10.35	18.92	83.84	86.68	02-Oct-16 21:00:00		16.95	18.92	83.84	88.06
02-Oct-16 22:00:00	02-Oct-16 23:00:00		9.32	0.00	0.00	4.40	2.1	329.7		3.07	0.00	0.00	1.45		10.35	18.92	83.84	86.68	02-Oct-16 22:00:00		13.42	18.92	83.84	88.13
02-Oct-16 23:00:00	03-Oct-16 00:00:00		3.50	0.00	0.00	4.62	2.1	329.7		1.15	0.00	0.00	1.52		10.35	18.92	83.84	86.68	02-Oct-16 23:00:00		11.50	18.92	83.84	88.20
03-Oct-16 00:00:00	03-Oct-16 01:00:00		2.31	0.00	0.00	4.81	2.1	329.7		0.76	0.00	0.00	1.58		10.35	18.92	83.84	86.68	03-Oct-16 00:00:00		11.11	18.92	83.84	88.26
03-Oct-16 01:00:00	03-Oct-16 02:00:00		1.06	0.00	0.00	4.80	2.1	329.7		0.35	0.00	0.00	1.58		10.35	18.92	83.84	86.68	03-Oct-16 01:00:00		10.70	18.92	83.84	88.26
03-Oct-16 02:00:00	03-Oct-16 03:00:00		0.00	0.00	0.00	4.89	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	03-Oct-16 02:00:00		10.35	18.92	83.84	88.29
03-Oct-16 03:00:00	03-Oct-16 04:00:00		0.00	0.00	0.00	4.99	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	03-Oct-16 03:00:00		10.35	18.92	83.84	88.32
03-Oct-16 04:00:00	03-Oct-16 05:00:00		0.00	0.00	0.00	5.08	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	03-Oct-16 04:00:00		10.35	18.92	83.84	88.35
03-Oct-16 05:00:00	03-Oct-16 06:00:00		0.00	0.00	0.00	5.08	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	03-Oct-16 05:00:00		10.35	18.92	83.84	88.36
03-Oct-16 06:00:00	03-Oct-16 07:00:00		0.00	0.00	0.00	5.08	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	03-Oct-16 06:00:00		10.35	18.92	83.84	88.36
03-Oct-16 07:00:00	03-Oct-16 08:00:00		0.00	0.00	0.00	5.08	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	03-Oct-16 07:00:00		10.35	18.92	83.84	88.36
03-Oct-16 08:00:00	03-Oct-16 09:00:00		0.00	0.00	0.00	5.08	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	03-Oct-16 08:00:00		10.35	18.92	83.84	88.35
03-Oct-16 09:00:00	03-Oct-16 10:00:00		0.00	0.00	0.00	4.90	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	03-Oct-16 09:00:00		10.35	18.92	83.84	88.30
03-Oct-16 10:00:00	03-Oct-16 11:00:00		7.26	0.00	0.00	4.62	2.1	329.7		2.39	0.00	0.00	1.52		10.35	18.92	83.84	86.68	03-Oct-16 10:00:00		12.74	18.92	83.84	88.20
03-Oct-16 11:00:00	03-Oct-16 12:00:00		0.00	0.00	0.00	4.34	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	03-Oct-16 11:00:00		10.35	18.92	83.84	88.11
03-Oct-16 12:00:00	03-Oct-16 13:00:00		0.00	0.00	0.00	4.06	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	03-Oct-16 12:00:00		10.35	18.92	83.84	88.02
03-Oct-16 13:00:00	03-Oct-16 14:00:00		4.74	0.00	0.00	3.91	2.1	329.7		1.56	0.00	0.00	1.29		10.35	18.92	83.84	86.68	03-Oct-16 13:00:00		11.91	18.92	83.84	87.97
03-Oct-16 14:00:00	03-Oct-16 15:00:00		12.92	0.00	0.00	3.87	2.1	329.7		4.26	0.00	0.00	1.27		10.35	18.92	83.84	86.68	03-Oct-16 14:00:00		14.61	18.92	83.84	87.95
03-Oct-16 15:00:00	03-Oct-16 16:00:00		8.16	0.00	0.00	3.83	2.1	329.7		2.69	0.00	0.00	1.26		10.35	18.92	83.84	86.68	03-Oct-16 15:00:00		13.04	18.92	83.84	87.94
03-Oct-16 16:00:00	03-Oct-16 17:00:00		17.42	0.00	0.00	3.80	2.1	329.7		5.74	0.00	0.00	1.25		10.35	18.92	83.84	86.68	03-Oct-16 16:00:00		16.09	18.92	83.84	87.93
03-Oct-16 17:00:00	03-Oct-16 18:00:00		1.20	0.00	0.00	4.00	2.1	329.7		0.40	0.00	0.00	1.32		10.35	18.92	83.84	86.68	03-Oct-16 17:00:00		10.75	18.92	83.84	88.00
03-Oct-16 18:00:00	03-Oct-16 19:00:00		0.00	0.00	0.00	4.16	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	03-Oct-16 18:00:00		10.35	18.92	83.84	88.05
03-Oct-16 19:00:00	03-Oct-16 20:00:00		0.00	0.00	0.00	4.31	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	03-Oct-16 19:00:00		10.35	18.92	83.84	88.10
03-Oct-16 20:00:00	03-Oct-16 21:00:00		0.00	0.00	0.00	4.47	2.1	329.7		0.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	03-Oct-16 20:00:00		10.35	18.92	83.84	88.15
03-Oct-16 21:00:00	03-Oct-16 22:00:00		0.00	0.00	0.00	4.65	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	03-Oct-16 21:00:00		10.35	18.92	83.84	88.21
03-Oct-16 22:00:00	03-Oct-16 23:00:00		0.38	0.00	0.00	4.78	2.1	329.7		0.12	0.00	0.00	1.57		10.35	18.92	83.84	86.68	03-Oct-16 22:00:00		10.47	18.92	83.84	88.25
03-Oct-16 23:00:00	04-Oct-16 00:00:00		1.19	0.00	0.00	4.90	2.1	329.7		0.39	0.00	0.00	1.62		10.35	18.92	83.84	86.68	03-Oct-16 23:00:00		10.74	18.92	83.84	88.30
04-Oct-16 00:00:00	04-Oct-16 01:00:00		0.84	0.00	0.00	5.04	2.1	329.7		0.28	0.00	0.00	1.66		10.35	18.92	83.84	86.68	04-Oct-16 00:00:00		10.63	18.92	83.84	88.34
04-Oct-16 01:00:00	04-Oct-16 02:00:00		0.49	0.00	0.00	5.14	2.1	329.7		0.16	0.00	0.00	1.70		10.35	18.92	83.84	86.68	04-Oct-16 01:00:00		10.51	18.92	83.84	88.38
04-Oct-16 02:00:00	04-Oct-16 03:00:00		0.15	0.00	0.00	5.14	2.1	329.7		0.05	0.00	0.00	1.69		10.35	18.92	83.84	86.68	04-Oct-16 02:00:00		10.40	18.92	83.84	88.37
04-Oct-16 03:00:00	04-Oct-16 04:00:00		0.00	0.00	0.00	5.14	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	04-Oct-16 03:00:00		10.35	18.92	83.84	88.37
04-Oct-16 04:00:00	04-Oct-16 05:00:00		0.00	0.00	0.00	5.13	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	04-Oct-16 04:00:00		10.35	18.92	83.84	88.37
04-Oct-16 05:00:00	04-Oct-16 06:00:00		0.00	0.00	0.00	5.08	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	04-Oct-16 05:00:00		10.35	18.92	83.84	88.35
04-Oct-16 06:00:00	04-Oct-16 07:00:00		0.00	0.00	0.00	5.08	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	04-Oct-16 06:00:00		10.35	18.92	83.84	88.35
04-Oct-16 07:00:00	04-Oct-16 08:00:00		0.00	0.00	0.00	5.08	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	04-Oct-16 07:00:00		10.35	18.92	83.84	88.36
04-Oct-16 08:00:00	04-Oct-16 09:00:00		2.80	0.00	0.00	5.09	2.1	329.7		0.92	0.00	0.00	1.68		10.35	18.92	83.84	86.68	04-Oct-16 08:00:00		11.27	18.92	83.84	88.36
04-Oct-16 09:00:00	04-Oct-16 10:00:00		10.92	0.00	0.00	5.00	2.1	329.7		3.60	0.00	0.00	1.65		10.35	18.92	83.84	86.68	04-Oct-16 09:00:00		13.95	18.92	83.84	88.33
04-Oct-16 10:00:00	04-Oct-16 11:00:00		25.69	0.00	0.00	4.75	2.1	329.7		8.47	0.00	0.00	1.57		10.35	18.92	83.84	86.68	04-Oct-16 10:00:00		18.82	18.92	83.84	88.25
04-Oct-16 11:00:00	04-Oct-16 12:00:00		32.04	0.00	0.00	4.51	2.1	329.7		10.56	0.00	0.00	1.49		10.35	18.92	83.84	86.68	04-Oct-16 11:00:00		20.91	18.92	83.84	88.17
04-Oct-16 12:00:00	04-Oct-16 13:00:00		0.00	0.00	0.00	4.26	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	04-Oct-16 12:00:00		10.35	18.92	83.84	88.08
04-Oct-16 13:00:00	04-Oct-16 14:00:00		1.91	0.00	0.00	4.05	2.1	329.7		0.63	0.00	0.00	1.34		10.35	18.92	83.84	86.68	04-Oct-16 13:00:00		10.98	18.92	83.84	88.02
04-Oct-16 14:00:00	04-Oct-16 15:00:00		0.00	0.00	0.00	4.04	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	04-Oct-16 14:00:00		10.35	18.92	83.84	88.01
04-Oct-16 15:00:00	04-Oct-16 16:00:00		0.00	0.00	0.00	4.02	2.1	329.7		0.00	0.00	0.00	1.32		10.35	18.92	83.84	86.68	04-Oct-16 15:00:00		10.35	18.92	83.84	88.00
04-Oct-16 16:00:00	04-Oct-16 17:00:00		0.00	0.00	0.00	4.00	2.1	329.7		0.00	0.00	0.00	1.32		10.35	18.92	83.84	86.68	04-Oct-16 16:00:00		10.35	18.92	83.84	88.00
04-Oct-16 17:00:00	04-Oct-16 18:00:00		0.00	0.00	0.00	4.04	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	04-Oct-16 17:00:00		10.35	18.92	83.84	88.01
04-Oct-16 18:00:00	04-Oct-16 19:00:00		0.00	0.00	0.00	4.18	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	04-Oct-16 18:00:00		10.35	18.92	83.84	88.06
04-Oct-16 19:00:00	04-Oct-16 20:00:00		0.00	0.00	0.00	4.32	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	04-Oct-16 19:00:00		10.35	18.92	83.84	88.10
04-Oct-16 20:00:00	04-Oct-16 21:00:00		0.00	0.00	0.00	4.46	2.1	329.7		0.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	04-Oct-16 20:00:00		10.35	18.92	83.84	88.15
04-Oct-16 21:00:00	04-Oct-16 22:00:00		0.00	0.00	0.00	4.68	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	04-Oct-16 21:00:00		10.35	18.92	83.84	88.22
04-Oct-16 22:00:00	04-Oct-16 23:00:00		0.00	0.00	0.00	4.84	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	04-Oct-16 22:00:00		10.35	18.92	83.84	88.28
04-Oct-16 23:00:00	05-Oct-16 00:00:00		0.00	0.00	0.00	5.00	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	04-Oct-16 23:00:00		10.35	18.92	83.84	88.33
05-Oct-16 00:00:00	05-Oct-16 01:00:00		0.00	0.00

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
07-Oct-16 02:00:00	07-Oct-16 03:00:00		0.00	0.00	0.00	4.78	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	07-Oct-16 02:00:00		**10.35**	**18.92**	**83.84**	**88.25**
07-Oct-16 03:00:00	07-Oct-16 04:00:00		0.00	0.00	0.00	4.87	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	07-Oct-16 03:00:00		**10.35**	**18.92**	**83.84**	**88.28**
07-Oct-16 04:00:00	07-Oct-16 05:00:00		0.00	0.00	0.00	4.96	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	07-Oct-16 04:00:00		**10.35**	**18.92**	**83.84**	**88.31**
07-Oct-16 05:00:00	07-Oct-16 06:00:00		0.00	0.00	0.00	4.97	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	07-Oct-16 05:00:00		**10.35**	**18.92**	**83.84**	**88.32**
07-Oct-16 06:00:00	07-Oct-16 07:00:00		0.00	0.00	0.00	4.99	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	07-Oct-16 06:00:00		**10.35**	**18.92**	**83.84**	**88.32**
07-Oct-16 07:00:00	07-Oct-16 08:00:00		0.00	0.00	0.00	5.01	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	07-Oct-16 07:00:00		**10.35**	**18.92**	**83.84**	**88.33**
07-Oct-16 08:00:00	07-Oct-16 09:00:00		0.00	0.00	0.00	5.04	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	07-Oct-16 08:00:00		**10.35**	**18.92**	**83.84**	**88.34**
07-Oct-16 09:00:00	07-Oct-16 10:00:00		0.00	0.00	0.00	5.03	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	07-Oct-16 09:00:00		**10.35**	**18.92**	**83.84**	**88.34**
07-Oct-16 10:00:00	07-Oct-16 11:00:00		0.00	0.00	0.00	4.92	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	07-Oct-16 10:00:00		**10.35**	**18.92**	**83.84**	**88.30**
07-Oct-16 11:00:00	07-Oct-16 12:00:00		0.00	0.00	0.00	4.80	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	07-Oct-16 11:00:00		**10.35**	**18.92**	**83.84**	**88.26**
07-Oct-16 12:00:00	07-Oct-16 13:00:00		0.00	0.00	0.00	4.69	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	07-Oct-16 12:00:00		**10.35**	**18.92**	**83.84**	**88.23**
07-Oct-16 13:00:00	07-Oct-16 14:00:00		0.00	0.00	0.00	4.52	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	07-Oct-16 13:00:00		**10.35**	**18.92**	**83.84**	**88.17**
07-Oct-16 14:00:00	07-Oct-16 15:00:00		0.00	0.00	0.00	4.47	2.1	329.7		0.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	07-Oct-16 14:00:00		**10.35**	**18.92**	**83.84**	**88.15**
07-Oct-16 15:00:00	07-Oct-16 16:00:00		0.00	0.00	0.00	4.43	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	07-Oct-16 15:00:00		**10.35**	**18.92**	**83.84**	**88.14**
07-Oct-16 16:00:00	07-Oct-16 17:00:00		0.00	0.00	0.00	4.40	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	07-Oct-16 16:00:00		**10.35**	**18.92**	**83.84**	**88.13**
07-Oct-16 17:00:00	07-Oct-16 18:00:00		0.00	0.00	0.00	4.30	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	07-Oct-16 17:00:00		**10.35**	**18.92**	**83.84**	**88.10**
07-Oct-16 18:00:00	07-Oct-16 19:00:00		0.00	0.00	0.00	4.29	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	07-Oct-16 18:00:00		**10.35**	**18.92**	**83.84**	**88.09**
07-Oct-16 19:00:00	07-Oct-16 20:00:00		0.00	0.00	0.00	4.30	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	07-Oct-16 19:00:00		**10.35**	**18.92**	**83.84**	**88.10**
07-Oct-16 20:00:00	07-Oct-16 21:00:00		0.00	0.00	0.00	4.30	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	07-Oct-16 20:00:00		**10.35**	**18.92**	**83.84**	**88.10**
07-Oct-16 21:00:00	07-Oct-16 22:00:00		0.00	0.00	0.00	4.32	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	07-Oct-16 21:00:00		**10.35**	**18.92**	**83.84**	**88.11**
07-Oct-16 22:00:00	07-Oct-16 23:00:00		0.00	0.00	0.00	4.40	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	07-Oct-16 22:00:00		**10.35**	**18.92**	**83.84**	**88.13**
07-Oct-16 23:00:00	08-Oct-16 00:00:00		0.00	0.00	0.00	4.48	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	07-Oct-16 23:00:00		**10.35**	**18.92**	**83.84**	**88.16**
08-Oct-16 00:00:00	08-Oct-16 01:00:00		0.00	0.00	0.00	4.56	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	08-Oct-16 00:00:00		**10.35**	**18.92**	**83.84**	**88.18**
08-Oct-16 01:00:00	08-Oct-16 02:00:00		0.00	0.00	0.00	4.68	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	08-Oct-16 01:00:00		**10.35**	**18.92**	**83.84**	**88.22**
08-Oct-16 02:00:00	08-Oct-16 03:00:00		0.00	0.00	0.00	4.67	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	08-Oct-16 02:00:00		**10.35**	**18.92**	**83.84**	**88.22**
08-Oct-16 03:00:00	08-Oct-16 04:00:00		0.00	0.00	0.00	4.65	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	08-Oct-16 03:00:00		**10.35**	**18.92**	**83.84**	**88.21**
08-Oct-16 04:00:00	08-Oct-16 05:00:00		0.00	0.00	0.00	4.63	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	08-Oct-16 04:00:00		**10.35**	**18.92**	**83.84**	**88.21**
08-Oct-16 05:00:00	08-Oct-16 06:00:00		0.00	0.00	0.00	4.67	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	08-Oct-16 05:00:00		**10.35**	**18.92**	**83.84**	**88.22**
08-Oct-16 06:00:00	08-Oct-16 07:00:00		0.00	0.00	0.00	4.84	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	08-Oct-16 06:00:00		**10.35**	**18.92**	**83.84**	**88.28**
08-Oct-16 07:00:00	08-Oct-16 08:00:00		0.00	0.00	0.00	115.16	2.1	329.7		0.00	0.00	0.00	37.97		10.35	18.92	83.84	86.68	08-Oct-16 07:00:00		**10.35**	**18.92**	**83.84**	**124.65**
08-Oct-16 08:00:00	08-Oct-16 09:00:00		0.00	0.00	0.00	5.03	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	08-Oct-16 08:00:00		**10.35**	**18.92**	**83.84**	**88.34**
08-Oct-16 09:00:00	08-Oct-16 10:00:00		0.00	0.00	0.00	4.90	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	08-Oct-16 09:00:00		**10.35**	**18.92**	**83.84**	**88.30**
08-Oct-16 10:00:00	08-Oct-16 11:00:00		0.00	0.00	0.00	4.78	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	08-Oct-16 10:00:00		**10.35**	**18.92**	**83.84**	**88.26**
08-Oct-16 11:00:00	08-Oct-16 12:00:00		0.00	0.00	0.00	4.66	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	08-Oct-16 11:00:00		**10.35**	**18.92**	**83.84**	**88.22**
08-Oct-16 12:00:00	08-Oct-16 13:00:00		0.00	0.00	0.00	4.52	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	08-Oct-16 12:00:00		**10.35**	**18.92**	**83.84**	**88.17**
08-Oct-16 13:00:00	08-Oct-16 14:00:00		0.00	0.00	0.00	4.49	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	08-Oct-16 13:00:00		**10.35**	**18.92**	**83.84**	**88.16**
08-Oct-16 14:00:00	08-Oct-16 15:00:00		0.00	0.00	0.00	4.45	2.1	329.7		0.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	08-Oct-16 14:00:00		**10.35**	**18.92**	**83.84**	**88.15**
08-Oct-16 15:00:00	08-Oct-16 16:00:00		2.90	0.00	0.00	4.42	2.1	329.7		0.96	0.00	0.00	1.46		10.35	18.92	83.84	86.68	08-Oct-16 15:00:00		**11.31**	**18.92**	**83.84**	**88.14**
08-Oct-16 16:00:00	08-Oct-16 17:00:00		60.48	0.00	0.00	4.30	2.1	329.7		19.94	0.00	0.00	1.42		10.35	18.92	83.84	86.68	08-Oct-16 16:00:00		**30.29**	**18.92**	**83.84**	**88.10**
08-Oct-16 17:00:00	08-Oct-16 18:00:00		95.96	0.00	0.00	4.22	2.1	329.7		31.64	0.00	0.00	1.39		10.35	18.92	83.84	86.68	08-Oct-16 17:00:00		**41.99**	**18.92**	**83.84**	**88.07**
08-Oct-16 18:00:00	08-Oct-16 19:00:00		65.73	0.00	0.00	4.13	2.1	329.7		21.67	0.00	0.00	1.36		10.35	18.92	83.84	86.68	08-Oct-16 18:00:00		**32.02**	**18.92**	**83.84**	**88.04**
08-Oct-16 19:00:00	08-Oct-16 20:00:00		175.50	0.00	0.00	4.05	2.1	329.7		57.86	0.00	0.00	1.34		10.35	18.92	83.84	86.68	08-Oct-16 19:00:00		**68.21**	**18.92**	**83.84**	**88.02**
08-Oct-16 20:00:00	08-Oct-16 21:00:00		262.76	0.00	0.00	4.01	2.1	329.7		86.63	0.00	0.00	1.32		10.35	18.92	83.84	86.68	08-Oct-16 20:00:00		**96.98**	**18.92**	**83.84**	**88.00**
08-Oct-16 21:00:00	08-Oct-16 22:00:00		510.01	0.00	0.00	4.08	2.1	329.7		168.15	0.00	0.00	1.35		10.35	18.92	83.84	86.68	08-Oct-16 21:00:00		**178.50**	**18.92**	**83.84**	**88.03**
08-Oct-16 22:00:00	08-Oct-16 23:00:00		514.15	0.00	0.00	4.16	2.1	329.7		169.52	0.00	0.00	1.37		10.35	18.92	83.84	86.68	08-Oct-16 22:00:00		**179.87**	**18.92**	**83.84**	**88.05**
08-Oct-16 23:00:00	09-Oct-16 00:00:00		670.28	0.00	0.00	4.23	2.1	329.7		220.99	0.00	0.00	1.40		10.35	18.92	83.84	86.68	08-Oct-16 23:00:00		**231.34**	**18.92**	**83.84**	**88.08**
09-Oct-16 00:00:00	09-Oct-16 01:00:00		1,163.62	0.00	0.00	4.43	2.1	329.7		383.64	0.00	0.00	1.46		10.35	18.92	83.84	86.68	09-Oct-16 00:00:00		**393.99**	**18.92**	**83.84**	**88.14**
09-Oct-16 01:00:00	09-Oct-16 02:00:00		1,656.23	0.00	0.00	4.62	2.1	329.7		546.06	0.00	0.00	1.52		10.35	18.92	83.84	86.68	09-Oct-16 01:00:00		**556.41**	**18.92**	**83.84**	**88.20**
09-Oct-16 02:00:00	09-Oct-16 03:00:00		1,294.68	0.00	0.00	4.81	2.1	329.7		426.86	0.00	0.00	1.59		10.35	18.92	83.84	86.68	09-Oct-16 02:00:00		**437.21**	**18.92**	**83.84**	**88.27**
09-Oct-16 03:00:00	09-Oct-16 04:00:00		608.36	0.00	0.00	5.00	2.1	329.7		200.58	0.00	0.00	1.65		10.35	18.92	83.84	86.68	09-Oct-16 03:00:00		**210.93**	**18.92**	**83.84**	**88.33**
09-Oct-16 04:00:00	09-Oct-16 05:00:00		123.42	0.00	0.00	5.15	2.1	329.7		40.69	0.00	0.00	1.70		10.35	18.92	83.84	86.68	09-Oct-16 04:00:00		**51.04**	**18.92**	**83.84**	**88.38**
09-Oct-16 05:00:00	09-Oct-16 06:00:00		0.00	0.00	0.00	5.29	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	09-Oct-16 05:00:00		**10.35**	**18.92**	**83.84**	**88.42**
09-Oct-16 06:00:00	09-Oct-16 07:00:00		0.00	0.00	0.00	5.43	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	09-Oct-16 06:00:00		**10.35**	**18.92**	**83.84**	**88.47**
09-Oct-16 07:00:00	09-Oct-16 08:00:00		0.00	0.00	0.00	5.57	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	09-Oct-16 07:00:00		**10.35**	**18.92**	**83.84**	**88.52**
09-Oct-16 08:00:00	09-Oct-16 09:00:00		0.00	0.00	0.00	5.47	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	09-Oct-16 08:00:00		**10.35**	**18.92**	**83.84**	**88.48**
09-Oct-16 09:00:00	09-Oct-16 10:00:00		0.00	0.00	0.00	5.07	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	09-Oct-16 09:00:00		**10.35**	**18.92**	**83.84**	**88.35**
09-Oct-16 10:00:00	09-Oct-16 11:00:00		0.00	0.00	0.00	4.67	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	09-Oct-16 10:00:00		**10.35**	**18.92**	**83.84**	**88.22**
09-Oct-16 11:00:00	09-Oct-16 12:00:00		0.00	0.00	0.00	4.27	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	09-Oct-16 11:00:00		**10.35**	**18.92**	**83.84**	**88.09**
09-Oct-16 12:00:00	09-Oct-16 13:00:00		3.09	0.00	0.00	4.08	2.1	329.7		1.02	0.00	0.00	1.35		10.35	18.92	83.84	86.68	09-Oct-16 12:00:00		**11.37**	**18.92**	**83.84**	**88.03**
09-Oct-16 13:00:00	09-Oct-16 14:00:00		11.86	0.00	0.00	3.91	2.1	329.7		3.91	0.00	0.00	1.29		10.35	18.92	83.84	86.68	09-Oct-16 13:00:00		**14.26**	**18.92**	**83.84**	**87.97**
09-Oct-16 14:00:00	09-Oct-16 15:00:00		7.73	0.00	0.00	3.72	2.1	329.7		2.55	0.00	0.00	1.23		10.35	18.92	83.84	86.68	09-Oct-16 14:00:00		**12.90**	**18.92**	**83.84**	**87.91**
09-Oct-16 15:00:00	09-Oct-16 16:00:00		15.84	0.00	0.00	3.53	2.1	329.7		5.22	0.00	0.00	1.16		10.35	18.92	83.84	86.68	09-Oct-16 15:00:00		**15.57**	**18.92**	**83.84**	**87.84**
09-Oct-16 16:00:00	09-Oct-16 17:00:00		0.00	0.00	0.00	16.80	2.1	329.7		0.00	0.00	0.00	5.54		10.35	18.92	83.84	86.68	09-Oct-16 16:00:00		**10.35**	**18.92**	**83.84**	**92.22**
09-Oct-16 17:00:00	09-Oct-16 18:00:00		4.82	0.00	0.00	3.63	2.1	329.7		1.59	0.00	0.00	1.20		10.35	18.92	83.84	86.68	09-Oct-16 17:00:00		**11.94**	**18.92**	**83.84**	**87.88**
09-Oct-16 18:00:00	09-Oct-16 19:00:00		5.53	0.00	0.00	4.10	2.1	329.7		1.82	0.00	0.00	1.35		10.35	18.92	83.84	86.68	09-Oct-16 18:00:00		**12.17**	**18.92**	**83.84**	**88.03**
09-Oct-16 19:00:00	09-Oct-16 20:00:00		6.15	0.00	0.00	3.89	2.1	329.7		2.03	0.00	0.00	1.28		10.35	18.92	83.84	86.68	09-Oct-16 19:00:00		**12.38**	**18.92**	**83.84**	**87.96**
09-Oct-16 20:00:00	09-Oct-16 21:00:00		6.17	0.00	0.00	4.12	2.1	329.7		2.03	0.00	0.00	1.36		10.35	18.92	83.84	86.68	09-Oct-16 20:00:00		**12.38**	**18.92**	**83.84**	**88.04**
09-Oct-16 21:00:00	09-Oct-16 22:00:00		5.08	0.00	0.00	4.36	2.1	329.7		1.67	0.00	0.00	1.44		10.35	18.92	83.84	86.68	09-Oct-16 21:00:00		**12.02**	**18.92**	**83.84**	**88.12**
09-Oct-16 22:00:00	09-Oct-16 23:00:00		0.82	0.00	0.00	4.52	2.1	329.7		0.27	0.00	0.00	1.49		10.35	18.92	83.84	86.68	09-Oct-16 22:00:00		**10.62**	**18.92**	**83.84**	**88.17**
09-Oct-16 23:00:00	10-Oct-16 00:00:00		2.40	0.00	0.00	4.76	2.1	329.7		0.79	0.00	0.00	1.57		10.35	18.92	83.84	86.68	09-Oct-16 23:00:00		**11.14**	**18.92**	**83.84**	**88.25**
10-Oct-16 00:00:00	10-Oct-16 01:00:00		0.00	0.00	0.00	5.00	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	10-Oct-16 00:00:00		**10.35**	**18.92**	**83.84**	**88.33**
10-Oct-16 01:00:00	10-Oct-16 02:00:00		0.00	0.00	0.00	5.24	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	10-Oct-16 01:00:00		**10.35**	**18.92**	**83.84**	**88.41**
10-Oct-16 02:00:00	10-Oct-16 03:00:00		0.00	0.00	0.00	5.38	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	10-Oct-16 02:00:00		**10.35**	**18.92**	**83.84**	**88.45**
10-Oct-16 03:00:00	10-Oct-16 04:00:00		0.00	0.00	0.00	5.45	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	10-Oct-16 03:00:00		**10.35**	**18.92**	**83.84**	**88.48**
10-Oct-16 04:00:00	10-Oct-16 05:00:00		0.00	0.00	0.00	5.53	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	10-Oct-16 04:00:00		**10.35**	**18.92**	**83.84**	**88.50**
10-Oct-16 05:00:00	10-Oct-16 06:00:00		3.15	0.00	0.00	5.61	2.1	329.7		1.04	0.00	0.00	1.85		10.35	18.92	83.84	86.68	10-Oct-16 05:00:00		**11.39**	**18.92**	**83.84**	**88.53**
10-Oct-16 06:00:00	10-Oct-16 07:00:00		2.56	0.00	0.00	5.65	2.1	329.7		0.84	0.00	0.00	1.86		10.35	18.92	83.84	86.68	10-Oct-16 06:00:00		**11.19**	**18.92**	**83.84**	**88.54**
10-Oct-16 07:00:00	10-Oct-16 08:00:00		3.32	0.00	0.00	5.65	2.1	329.7		1.10	0.00	0.00	1.86		10.35	18.92	83.84	86.68	10-Oct-16 07:00:00		**11.45**	**18.92**	**83.84**	**88.54**
10-Oct-16 08:00:00	10-Oct-16 09:00:00		1.76	0.00	0.00	5.65	2.1	329.7		0.58	0.00	0.00	1.86		10.35	18.92	83.84	86.68	10-Oct-16 08:00:00		**10.93**	**18.92**	**83.84**	**88.54**
10-Oct-16 09:00:00	10-Oct-16 10:00:00		1.09	0.00	0.00	5.65	2.1	329.7		0.36	0.00	0.00	1.86		10.35	18.92	83.84	86.68	10-Oct-16 09:00:00		**10.71**	**18.92**	**83.84**	**88.54**
10-Oct-16 10:00:00	10-Oct-16 11:00:00		0.42	0.00	0.00	5.57	2.1	329.7		0.14	0.00	0.00	1.83		10.35	18.92	83.84	86.68	10-Oct-16 10:00:00		**10.49**	**18.92**	**83.84**	**88.51**
10-Oct-16 11:00:00	10-Oct-16 12:00:00		1.62	0.00	0.00	5.28	2.1	329.7		0.53	0.00	0.00	1.74		10.35	18.92	83.84	86.68	10-Oct-16 11:00:00		**10.88**	**18.92**	**83.84**	**88.42**
10-Oct-16 12:00:00	10-Oct-16 13:00:00		1.97	0.00	0.00	4.99	2.1	329.7		0.65	0.00	0.00	1.65		10.35	18.92	83.84	86.68	10-Oct-16 12:00:00		**11.00**	**18.92**	**83.84**	**88.33**
10-Oct-16 13:00:00	10-Oct-16 14:00:00		0.00	0.00	0.00	4.70	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	10-Oct-16 13:00:00		**10.35**	**18.92**	**83.84**	**88.23**
10-Oct-16 14:00:00	10-Oct-16 15:00:00		0.00	0.00	0.00	4.51	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	10-Oct-16 14:00:00		**10.35**	**18.92**	**83.84**	**88.17**
10-Oct-16 15:00:00	10-Oct-16 16:00:00		0.00	0.00	0.00	4.48	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	10-Oct-16 15:00:00		**10.35**	**18.92**	**83.84**	**88.16**
10-Oct-16 16:00:00	10-Oct-16 17:00:00		0.00	0.00	0.00	4.45	2.1	329.7		0.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	10-Oct-16 16:00:00		**10.35**	**18.92**	**83.84**	**88.15**
10-Oct-16 17:00:00	10-Oct-16 18:00:00		0.00	0.00	0.00	4.43	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	10-Oct-16 17:00:00		**10.35**	**18.92**	**83.84**	**88.14**
10-Oct-16 18:00:00	10-Oct-16 19:00:00		0.00	0.00	0.00	4.41	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	10-Oct-16 18:00:00		**10.35**	**18.92**	**83.84**	**88.13**
10-Oct-16 19:00:00	10-Oct-16 20:00:00		0.00	0.00	0.00	4.59	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	10-Oct-16 19:00:00		**10.35**	**18.92**	**83.84**	**88.19**
10-Oct-16 20:00:00	10-Oct-16 21:00:00		0.00	0.00	0.00	4.79	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	10-Oct-16 20:00:00		**10.35**	**18.92**	**83.84**	**88.26**
10-Oct-16 21:00:00	10-Oct-16 22:00:00		0.00	0.00	0.00	4.98	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	10-Oct-16 21:00:00		**10.35**	**18.92**	**83.84**	**88.32**
10-Oct-16 22:00:00	10-Oct-16 23:00:00		0.00	0.00	0.00	5.14	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	10-Oct-16 22:00:00		**10.35**	**18.92**	**83.84**	**88.37**
10-Oct-16 23:00:00	11-Oct-16 00:00:00		0.00	0.00	0.00

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
13-Oct-16 01:00:00	13-Oct-16 02:00:00		0.00	0.00	0.00	5.06	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	13-Oct-16 01:00:00		10.35	18.92	83.84	88.35
13-Oct-16 02:00:00	13-Oct-16 03:00:00		0.00	0.00	0.00	5.20	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	13-Oct-16 02:00:00		10.35	18.92	83.84	88.39
13-Oct-16 03:00:00	13-Oct-16 04:00:00		0.00	0.00	0.00	5.31	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	13-Oct-16 03:00:00		10.35	18.92	83.84	88.43
13-Oct-16 04:00:00	13-Oct-16 05:00:00		0.00	0.00	0.00	5.40	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	13-Oct-16 04:00:00		10.35	18.92	83.84	88.46
13-Oct-16 05:00:00	13-Oct-16 06:00:00		0.00	0.00	0.00	5.49	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	13-Oct-16 05:00:00		10.35	18.92	83.84	88.49
13-Oct-16 06:00:00	13-Oct-16 07:00:00		0.00	0.00	0.00	5.46	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	13-Oct-16 06:00:00		10.35	18.92	83.84	88.48
13-Oct-16 07:00:00	13-Oct-16 08:00:00		0.00	0.00	0.00	5.20	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	13-Oct-16 07:00:00		10.35	18.92	83.84	88.39
13-Oct-16 08:00:00	13-Oct-16 09:00:00		0.00	0.00	0.00	4.99	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	13-Oct-16 08:00:00		10.35	18.92	83.84	88.32
13-Oct-16 09:00:00	13-Oct-16 10:00:00		0.00	0.00	0.00	4.78	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	13-Oct-16 09:00:00		10.35	18.92	83.84	88.25
13-Oct-16 10:00:00	13-Oct-16 11:00:00		0.00	0.00	0.00	4.54	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	13-Oct-16 10:00:00		10.35	18.92	83.84	88.18
13-Oct-16 11:00:00	13-Oct-16 12:00:00		0.00	0.00	0.00	4.28	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	13-Oct-16 11:00:00		10.35	18.92	83.84	88.09
13-Oct-16 12:00:00	13-Oct-16 13:00:00		0.00	0.00	0.00	4.04	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	13-Oct-16 12:00:00		10.35	18.92	83.84	88.01
13-Oct-16 13:00:00	13-Oct-16 14:00:00		0.00	0.00	0.00	3.80	2.1	329.7		0.00	0.00	0.00	1.25		10.35	18.92	83.84	86.68	13-Oct-16 13:00:00		10.35	18.92	83.84	87.93
13-Oct-16 14:00:00	13-Oct-16 15:00:00		0.00	0.00	0.00	3.58	2.1	329.7		0.00	0.00	0.00	1.18		10.35	18.92	83.84	86.68	13-Oct-16 14:00:00		10.35	18.92	83.84	87.86
13-Oct-16 15:00:00	13-Oct-16 16:00:00		0.00	0.00	0.00	3.52	2.1	329.7		0.00	0.00	0.00	1.16		10.35	18.92	83.84	86.68	13-Oct-16 15:00:00		10.35	18.92	83.84	87.84
13-Oct-16 16:00:00	13-Oct-16 17:00:00		0.00	0.00	0.00	3.48	2.1	329.7		0.00	0.00	0.00	1.15		10.35	18.92	83.84	86.68	13-Oct-16 16:00:00		10.35	18.92	83.84	87.83
13-Oct-16 17:00:00	13-Oct-16 18:00:00		0.00	0.00	0.00	3.45	2.1	329.7		0.00	0.00	0.00	1.14		10.35	18.92	83.84	86.68	13-Oct-16 17:00:00		10.35	18.92	83.84	87.82
13-Oct-16 18:00:00	13-Oct-16 19:00:00		0.00	0.00	0.00	3.50	2.1	329.7		0.00	0.00	0.00	1.15		10.35	18.92	83.84	86.68	13-Oct-16 18:00:00		10.35	18.92	83.84	87.83
13-Oct-16 19:00:00	13-Oct-16 20:00:00		0.00	0.00	0.00	3.77	2.1	329.7		0.00	0.00	0.00	1.24		10.35	18.92	83.84	86.68	13-Oct-16 19:00:00		10.35	18.92	83.84	87.92
13-Oct-16 20:00:00	13-Oct-16 21:00:00		0.00	0.00	0.00	4.04	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	13-Oct-16 20:00:00		10.35	18.92	83.84	88.01
13-Oct-16 21:00:00	13-Oct-16 22:00:00		0.00	0.00	0.00	4.31	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	13-Oct-16 21:00:00		10.35	18.92	83.84	88.10
13-Oct-16 22:00:00	13-Oct-16 23:00:00		34.17	0.00	0.00	4.61	2.1	329.7		11.27	0.00	0.00	1.52		10.35	18.92	83.84	86.68	13-Oct-16 22:00:00		21.62	18.92	83.84	88.20
13-Oct-16 23:00:00	14-Oct-16 00:00:00		239.70	0.00	0.00	4.77	2.1	329.7		79.03	0.00	0.00	1.57		10.35	18.92	83.84	86.68	13-Oct-16 23:00:00		89.38	18.92	83.84	88.25
14-Oct-16 00:00:00	14-Oct-16 01:00:00		236.46	0.00	0.00	4.87	2.1	329.7		77.96	0.00	0.00	1.60		10.35	18.92	83.84	86.68	14-Oct-16 00:00:00		88.31	18.92	83.84	88.28
14-Oct-16 01:00:00	14-Oct-16 02:00:00		148.84	0.00	0.00	4.96	2.1	329.7		49.07	0.00	0.00	1.64		10.35	18.92	83.84	86.68	14-Oct-16 01:00:00		59.42	18.92	83.84	88.32
14-Oct-16 02:00:00	14-Oct-16 03:00:00		0.00	0.00	0.00	5.00	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	14-Oct-16 02:00:00		10.35	18.92	83.84	88.33
14-Oct-16 03:00:00	14-Oct-16 04:00:00		0.00	0.00	0.00	5.00	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	14-Oct-16 03:00:00		10.35	18.92	83.84	88.33
14-Oct-16 04:00:00	14-Oct-16 05:00:00		0.00	0.00	0.00	5.06	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	14-Oct-16 04:00:00		10.35	18.92	83.84	88.35
14-Oct-16 05:00:00	14-Oct-16 06:00:00		0.00	0.00	0.00	5.13	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	14-Oct-16 05:00:00		10.35	18.92	83.84	88.37
14-Oct-16 06:00:00	14-Oct-16 07:00:00		0.00	0.00	0.00	5.13	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	14-Oct-16 06:00:00		10.35	18.92	83.84	88.37
14-Oct-16 07:00:00	14-Oct-16 08:00:00		0.00	0.00	0.00	5.06	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	14-Oct-16 07:00:00		10.35	18.92	83.84	88.35
14-Oct-16 08:00:00	14-Oct-16 09:00:00		0.00	0.00	0.00	5.04	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	14-Oct-16 08:00:00		10.35	18.92	83.84	88.34
14-Oct-16 09:00:00	14-Oct-16 10:00:00		0.00	0.00	0.00	5.02	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	14-Oct-16 09:00:00		10.35	18.92	83.84	88.34
14-Oct-16 10:00:00	14-Oct-16 11:00:00		0.00	0.00	0.00	5.00	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	14-Oct-16 10:00:00		10.35	18.92	83.84	88.33
14-Oct-16 11:00:00	14-Oct-16 12:00:00		0.00	0.00	0.00	4.89	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	14-Oct-16 11:00:00		10.35	18.92	83.84	88.29
14-Oct-16 12:00:00	14-Oct-16 13:00:00		0.00	0.00	0.00	4.75	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	14-Oct-16 12:00:00		10.35	18.92	83.84	88.25
14-Oct-16 13:00:00	14-Oct-16 14:00:00		0.00	0.00	0.00	4.61	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	14-Oct-16 13:00:00		10.35	18.92	83.84	88.20
14-Oct-16 14:00:00	14-Oct-16 15:00:00		0.00	0.00	0.00	4.40	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	14-Oct-16 14:00:00		10.35	18.92	83.84	88.13
14-Oct-16 15:00:00	14-Oct-16 16:00:00		0.00	0.00	0.00	4.28	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	14-Oct-16 15:00:00		10.35	18.92	83.84	88.09
14-Oct-16 16:00:00	14-Oct-16 17:00:00		0.00	0.00	0.00	4.31	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	14-Oct-16 16:00:00		10.35	18.92	83.84	88.10
14-Oct-16 17:00:00	14-Oct-16 18:00:00		0.00	0.00	0.00	4.34	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	14-Oct-16 17:00:00		10.35	18.92	83.84	88.11
14-Oct-16 18:00:00	14-Oct-16 19:00:00		0.00	0.00	0.00	4.34	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	14-Oct-16 18:00:00		10.35	18.92	83.84	88.11
14-Oct-16 19:00:00	14-Oct-16 20:00:00		0.00	0.00	0.00	4.44	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	14-Oct-16 19:00:00		10.35	18.92	83.84	88.14
14-Oct-16 20:00:00	14-Oct-16 21:00:00		0.00	0.00	0.00	4.63	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	14-Oct-16 20:00:00		10.35	18.92	83.84	88.21
14-Oct-16 21:00:00	14-Oct-16 22:00:00		0.00	0.00	0.00	4.81	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	14-Oct-16 21:00:00		10.35	18.92	83.84	88.27
14-Oct-16 22:00:00	14-Oct-16 23:00:00		0.00	0.00	0.00	4.99	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	14-Oct-16 22:00:00		10.35	18.92	83.84	88.33
14-Oct-16 23:00:00	15-Oct-16 00:00:00		0.00	0.00	0.00	5.01	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	14-Oct-16 23:00:00		10.35	18.92	83.84	88.33
15-Oct-16 00:00:00	15-Oct-16 01:00:00		0.00	0.00	0.00	4.97	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	15-Oct-16 00:00:00		10.35	18.92	83.84	88.32
15-Oct-16 01:00:00	15-Oct-16 02:00:00		0.00	0.00	0.00	4.93	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	15-Oct-16 01:00:00		10.35	18.92	83.84	88.31
15-Oct-16 02:00:00	15-Oct-16 03:00:00		0.00	0.00	0.00	4.93	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	15-Oct-16 02:00:00		10.35	18.92	83.84	88.31
15-Oct-16 03:00:00	15-Oct-16 04:00:00		0.00	0.00	0.00	5.01	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	15-Oct-16 03:00:00		10.35	18.92	83.84	88.33
15-Oct-16 04:00:00	15-Oct-16 05:00:00		0.00	0.00	0.00	5.06	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	15-Oct-16 04:00:00		10.35	18.92	83.84	88.35
15-Oct-16 05:00:00	15-Oct-16 06:00:00		0.00	0.00	0.00	5.10	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	15-Oct-16 05:00:00		10.35	18.92	83.84	88.36
15-Oct-16 06:00:00	15-Oct-16 07:00:00		0.00	0.00	0.00	5.12	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	15-Oct-16 06:00:00		10.35	18.92	83.84	88.37
15-Oct-16 07:00:00	15-Oct-16 08:00:00		0.00	0.00	0.00	5.07	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	15-Oct-16 07:00:00		10.35	18.92	83.84	88.35
15-Oct-16 08:00:00	15-Oct-16 09:00:00		0.00	0.00	0.00	5.06	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	15-Oct-16 08:00:00		10.35	18.92	83.84	88.35
15-Oct-16 09:00:00	15-Oct-16 10:00:00		0.00	0.00	0.00	5.05	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	15-Oct-16 09:00:00		10.35	18.92	83.84	88.34
15-Oct-16 10:00:00	15-Oct-16 11:00:00		0.00	0.00	0.00	5.03	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	15-Oct-16 10:00:00		10.35	18.92	83.84	88.34
15-Oct-16 11:00:00	15-Oct-16 12:00:00		0.00	0.00	0.00	4.84	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	15-Oct-16 11:00:00		10.35	18.92	83.84	88.28
15-Oct-16 12:00:00	15-Oct-16 13:00:00		0.00	0.00	0.00	4.57	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	15-Oct-16 12:00:00		10.35	18.92	83.84	88.19
15-Oct-16 13:00:00	15-Oct-16 14:00:00		0.00	0.00	0.00	4.29	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	15-Oct-16 13:00:00		10.35	18.92	83.84	88.09
15-Oct-16 14:00:00	15-Oct-16 15:00:00		0.00	0.00	0.00	4.04	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	15-Oct-16 14:00:00		10.35	18.92	83.84	88.01
15-Oct-16 15:00:00	15-Oct-16 16:00:00		0.00	0.00	0.00	3.98	2.1	329.7		0.00	0.00	0.00	1.31		10.35	18.92	83.84	86.68	15-Oct-16 15:00:00		10.35	18.92	83.84	87.99
15-Oct-16 16:00:00	15-Oct-16 17:00:00		0.00	0.00	0.00	3.96	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	15-Oct-16 16:00:00		10.35	18.92	83.84	87.98
15-Oct-16 17:00:00	15-Oct-16 18:00:00		0.00	0.00	0.00	3.93	2.1	329.7		0.00	0.00	0.00	1.29		10.35	18.92	83.84	86.68	15-Oct-16 17:00:00		10.35	18.92	83.84	87.97
15-Oct-16 18:00:00	15-Oct-16 19:00:00		0.00	0.00	0.00	3.91	2.1	329.7		0.00	0.00	0.00	1.29		10.35	18.92	83.84	86.68	15-Oct-16 18:00:00		10.35	18.92	83.84	87.97
15-Oct-16 19:00:00	15-Oct-16 20:00:00		0.00	0.00	0.00	4.00	2.1	329.7		0.00	0.00	0.00	1.32		10.35	18.92	83.84	86.68	15-Oct-16 19:00:00		10.35	18.92	83.84	88.00
15-Oct-16 20:00:00	15-Oct-16 21:00:00		0.00	0.00	0.00	4.10	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	15-Oct-16 20:00:00		10.35	18.92	83.84	88.03
15-Oct-16 21:00:00	15-Oct-16 22:00:00		0.00	0.00	0.00	4.21	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	15-Oct-16 21:00:00		10.35	18.92	83.84	88.07
15-Oct-16 22:00:00	15-Oct-16 23:00:00		0.00	0.00	0.00	4.32	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	15-Oct-16 22:00:00		10.35	18.92	83.84	88.10
15-Oct-16 23:00:00	16-Oct-16 00:00:00		0.00	0.00	0.00	4.45	2.1	329.7		0.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	15-Oct-16 23:00:00		10.35	18.92	83.84	88.15
16-Oct-16 00:00:00	16-Oct-16 01:00:00		0.00	0.00	0.00	4.58	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	16-Oct-16 00:00:00		10.35	18.92	83.84	88.19
16-Oct-16 01:00:00	16-Oct-16 02:00:00		0.00	0.00	0.00	4.70	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	16-Oct-16 01:00:00		10.35	18.92	83.84	88.23
16-Oct-16 02:00:00	16-Oct-16 03:00:00		0.00	0.00	0.00	4.88	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	16-Oct-16 02:00:00		10.35	18.92	83.84	88.29
16-Oct-16 03:00:00	16-Oct-16 04:00:00		0.00	0.00	0.00	5.02	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	16-Oct-16 03:00:00		10.35	18.92	83.84	88.33
16-Oct-16 04:00:00	16-Oct-16 05:00:00		0.00	0.00	0.00	5.04	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	16-Oct-16 04:00:00		10.35	18.92	83.84	88.34
16-Oct-16 05:00:00	16-Oct-16 06:00:00		0.00	0.00	0.00	5.06	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	16-Oct-16 05:00:00		10.35	18.92	83.84	88.35
16-Oct-16 06:00:00	16-Oct-16 07:00:00		0.00	0.00	0.00	5.07	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	16-Oct-16 06:00:00		10.35	18.92	83.84	88.35
16-Oct-16 07:00:00	16-Oct-16 08:00:00		0.00	0.00	0.00	4.92	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	16-Oct-16 07:00:00		10.35	18.92	83.84	88.30
16-Oct-16 08:00:00	16-Oct-16 09:00:00		0.00	0.00	0.00	4.71	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	16-Oct-16 08:00:00		10.35	18.92	83.84	88.23
16-Oct-16 09:00:00	16-Oct-16 10:00:00		0.00	0.00	0.00	4.50	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	16-Oct-16 09:00:00		10.35	18.92	83.84	88.17
16-Oct-16 10:00:00	16-Oct-16 11:00:00		0.00	0.00	0.00	4.23	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	16-Oct-16 10:00:00		10.35	18.92	83.84	88.07
16-Oct-16 11:00:00	16-Oct-16 12:00:00		0.00	0.00	0.00	3.92	2.1	329.7		0.00	0.00	0.00	1.29		10.35	18.92	83.84	86.68	16-Oct-16 11:00:00		10.35	18.92	83.84	87.97
16-Oct-16 12:00:00	16-Oct-16 13:00:00		0.00	0.00	0.00	3.77	2.1	329.7		0.00	0.00	0.00	1.24		10.35	18.92	83.84	86.68	16-Oct-16 12:00:00		10.35	18.92	83.84	87.92
16-Oct-16 13:00:00	16-Oct-16 14:00:00		0.00	0.00	0.00	3.62	2.1	329.7		0.00	0.00	0.00	1.19		10.35	18.92	83.84	86.68	16-Oct-16 13:00:00		10.35	18.92	83.84	87.87
16-Oct-16 14:00:00	16-Oct-16 15:00:00		0.00	0.00	0.00	3.50	2.1	329.7		0.00	0.00	0.00	1.15		10.35	18.92	83.84	86.68	16-Oct-16 14:00:00		10.35	18.92	83.84	87.83
16-Oct-16 15:00:00	16-Oct-16 16:00:00		0.85	0.00	0.00	3.53	2.1	329.7		0.28	0.00	0.00	1.16		10.35	18.92	83.84	86.68	16-Oct-16 15:00:00		10.63	18.92	83.84	87.84
16-Oct-16 16:00:00	16-Oct-16 17:00:00		5.26	0.00	0.00	3.55	2.1	329.7		1.73	0.00	0.00	1.17		10.35	18.92	83.84	86.68	16-Oct-16 16:00:00		12.08	18.92	83.84	87.85
16-Oct-16 17:00:00	16-Oct-16 18:00:00		3.47	0.00	0.00	3.56	2.1	329.7		1.15	0.00	0.00	1.17		10.35	18.92	83.84	86.68	16-Oct-16 17:00:00		11.50	18.92	83.84	87.85
16-Oct-16 18:00:00	16-Oct-16 19:00:00		0.00	0.00	0.00	3.55	2.1	329.7		0.00	0.00	0.00	1.17		10.35	18.92	83.84	86.68	16-Oct-16 18:00:00		10.35	18.92	83.84	87.85
16-Oct-16 19:00:00	16-Oct-16 20:00:00		0.00	0.00	0.00	3.66	2.1	329.7		0.00	0.00	0.00	1.21		10.35	18.92	83.84	86.68	16-Oct-16 19:00:00		10.35	18.92	83.84	87.89
16-Oct-16 20:00:00	16-Oct-16 21:00:00		0.07	0.00	0.00	3.90	2.1	329.7		0.02	0.00	0.00	1.28		10.35	18.92	83.84	86.68	16-Oct-16 20:00:00		10.37	18.92	83.84	87.96
16-Oct-16 21:00:00	16-Oct-16 22:00:00		0.37	0.00	0.00	4.14	2.1	329.7		0.12	0.00	0.00	1.36		10.35	18.92	83.84	86.68	16-Oct-16 21:00:00		10.47	18.92	83.84	88.04
16-Oct-16 22:00:00	16-Oct-16 23:00:00		0.00	0.00	0.00	4.38

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
19-Oct-16 00:00:00	19-Oct-16 01:00:00		0.00	0.00	0.00	4.07	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	19-Oct-16 00:00:00		10.35	18.92	83.84	88.02
19-Oct-16 01:00:00	19-Oct-16 02:00:00		0.00	0.00	0.00	4.18	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	19-Oct-16 01:00:00		10.35	18.92	83.84	88.06
19-Oct-16 02:00:00	19-Oct-16 03:00:00		0.00	0.00	0.00	4.30	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	19-Oct-16 02:00:00		10.35	18.92	83.84	88.10
19-Oct-16 03:00:00	19-Oct-16 04:00:00		0.00	0.00	0.00	4.42	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	19-Oct-16 03:00:00		10.35	18.92	83.84	88.14
19-Oct-16 04:00:00	19-Oct-16 05:00:00		0.00	0.00	0.00	4.53	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	19-Oct-16 04:00:00		10.35	18.92	83.84	88.18
19-Oct-16 05:00:00	19-Oct-16 06:00:00		0.00	0.00	0.00	4.65	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	19-Oct-16 05:00:00		10.35	18.92	83.84	88.21
19-Oct-16 06:00:00	19-Oct-16 07:00:00		0.00	0.00	0.00	4.77	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	19-Oct-16 06:00:00		10.35	18.92	83.84	88.25
19-Oct-16 07:00:00	19-Oct-16 08:00:00		0.00	0.00	0.00	4.88	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	19-Oct-16 07:00:00		10.35	18.92	83.84	88.29
19-Oct-16 08:00:00	19-Oct-16 09:00:00		0.00	0.00	0.00	4.70	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	19-Oct-16 08:00:00		10.35	18.92	83.84	88.23
19-Oct-16 09:00:00	19-Oct-16 10:00:00		0.00	0.00	0.00	4.33	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	19-Oct-16 09:00:00		10.35	18.92	83.84	88.11
19-Oct-16 10:00:00	19-Oct-16 11:00:00		0.00	0.00	0.00	4.05	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	19-Oct-16 10:00:00		10.35	18.92	83.84	88.02
19-Oct-16 11:00:00	19-Oct-16 12:00:00		0.00	0.00	0.00	3.78	2.1	329.7		0.00	0.00	0.00	1.25		10.35	18.92	83.84	86.68	19-Oct-16 11:00:00		10.35	18.92	83.84	87.93
19-Oct-16 12:00:00	19-Oct-16 13:00:00		0.26	0.00	0.00	3.45	2.1	329.7		0.09	0.00	0.00	1.14		10.35	18.92	83.84	86.68	19-Oct-16 12:00:00		10.44	18.92	83.84	87.82
19-Oct-16 13:00:00	19-Oct-16 14:00:00		7.06	0.00	0.00	3.29	2.1	329.7		2.33	0.00	0.00	1.09		10.35	18.92	83.84	86.68	19-Oct-16 13:00:00		12.68	18.92	83.84	87.77
19-Oct-16 14:00:00	19-Oct-16 15:00:00		19.72	0.00	0.00	3.19	2.1	329.7		6.50	0.00	0.00	1.05		10.35	18.92	83.84	86.68	19-Oct-16 14:00:00		16.85	18.92	83.84	87.73
19-Oct-16 15:00:00	19-Oct-16 16:00:00		30.46	0.00	0.00	3.08	2.1	329.7		10.04	0.00	0.00	1.02		10.35	18.92	83.84	86.68	19-Oct-16 15:00:00		20.39	18.92	83.84	87.70
19-Oct-16 16:00:00	19-Oct-16 17:00:00		8.33	0.00	0.00	3.03	2.1	329.7		2.75	0.00	0.00	1.00		10.35	18.92	83.84	86.68	19-Oct-16 16:00:00		13.10	18.92	83.84	87.68
19-Oct-16 17:00:00	19-Oct-16 18:00:00		11.21	0.00	0.00	3.18	2.1	329.7		3.70	0.00	0.00	1.05		10.35	18.92	83.84	86.68	19-Oct-16 17:00:00		14.05	18.92	83.84	87.73
19-Oct-16 18:00:00	19-Oct-16 19:00:00		6.10	0.00	0.00	3.36	2.1	329.7		2.01	0.00	0.00	1.11		10.35	18.92	83.84	86.68	19-Oct-16 18:00:00		12.36	18.92	83.84	87.79
19-Oct-16 19:00:00	19-Oct-16 20:00:00		6.92	0.00	0.00	3.53	2.1	329.7		2.28	0.00	0.00	1.16		10.35	18.92	83.84	86.68	19-Oct-16 19:00:00		12.63	18.92	83.84	87.84
19-Oct-16 20:00:00	19-Oct-16 21:00:00		0.99	0.00	0.00	3.72	2.1	329.7		0.33	0.00	0.00	1.23		10.35	18.92	83.84	86.68	19-Oct-16 20:00:00		10.68	18.92	83.84	87.91
19-Oct-16 21:00:00	19-Oct-16 22:00:00		1.82	0.00	0.00	3.94	2.1	329.7		0.60	0.00	0.00	1.30		10.35	18.92	83.84	86.68	19-Oct-16 21:00:00		10.95	18.92	83.84	87.98
19-Oct-16 22:00:00	19-Oct-16 23:00:00		1.79	0.00	0.00	4.14	2.1	329.7		0.59	0.00	0.00	1.37		10.35	18.92	83.84	86.68	19-Oct-16 22:00:00		10.94	18.92	83.84	88.05
19-Oct-16 23:00:00	19-Oct-16 05:00:00		2.34	0.00	0.00	4.35	2.1	329.7		0.77	0.00	0.00	1.43		10.35	18.92	83.84	86.68	19-Oct-16 23:00:00		11.12	18.92	83.84	88.11
20-Oct-16 00:00:00	20-Oct-16 01:00:00		0.68	0.00	0.00	4.57	2.1	329.7		0.22	0.00	0.00	1.51		10.35	18.92	83.84	86.68	20-Oct-16 00:00:00		10.57	18.92	83.84	88.19
20-Oct-16 01:00:00	20-Oct-16 02:00:00		1.66	0.00	0.00	4.62	2.1	329.7		0.55	0.00	0.00	1.52		10.35	18.92	83.84	86.68	20-Oct-16 01:00:00		10.90	18.92	83.84	88.20
20-Oct-16 02:00:00	20-Oct-16 03:00:00		0.00	0.00	0.00	4.63	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	20-Oct-16 02:00:00		10.35	18.92	83.84	88.21
20-Oct-16 03:00:00	20-Oct-16 04:00:00		0.00	0.00	0.00	4.63	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	20-Oct-16 03:00:00		10.35	18.92	83.84	88.21
20-Oct-16 04:00:00	20-Oct-16 05:00:00		0.00	0.00	0.00	4.74	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	20-Oct-16 04:00:00		10.35	18.92	83.84	88.24
20-Oct-16 05:00:00	20-Oct-16 06:00:00		0.00	0.00	0.00	4.87	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	20-Oct-16 05:00:00		10.35	18.92	83.84	88.29
20-Oct-16 06:00:00	20-Oct-16 07:00:00		0.00	0.00	0.00	4.94	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	20-Oct-16 06:00:00		10.35	18.92	83.84	88.31
20-Oct-16 07:00:00	20-Oct-16 08:00:00		0.00	0.00	0.00	5.02	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	20-Oct-16 07:00:00		10.35	18.92	83.84	88.33
20-Oct-16 08:00:00	20-Oct-16 09:00:00		0.00	0.00	0.00	5.02	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	20-Oct-16 08:00:00		10.35	18.92	83.84	88.34
20-Oct-16 09:00:00	20-Oct-16 10:00:00		0.00	0.00	0.00	4.73	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	20-Oct-16 09:00:00		10.35	18.92	83.84	88.24
20-Oct-16 10:00:00	20-Oct-16 11:00:00		0.00	0.00	0.00	4.41	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	20-Oct-16 10:00:00		10.35	18.92	83.84	88.13
20-Oct-16 11:00:00	20-Oct-16 12:00:00		0.06	0.00	0.00	4.09	2.1	329.7		0.02	0.00	0.00	1.35		10.35	18.92	83.84	86.68	20-Oct-16 11:00:00		10.37	18.92	83.84	88.03
20-Oct-16 12:00:00	20-Oct-16 13:00:00		3.89	0.00	0.00	3.82	2.1	329.7		1.28	0.00	0.00	1.26		10.35	18.92	83.84	86.68	20-Oct-16 12:00:00		11.63	18.92	83.84	87.94
20-Oct-16 13:00:00	20-Oct-16 14:00:00		10.00	0.00	0.00	3.69	2.1	329.7		3.30	0.00	0.00	1.22		10.35	18.92	83.84	86.68	20-Oct-16 13:00:00		13.65	18.92	83.84	87.90
20-Oct-16 14:00:00	20-Oct-16 15:00:00		34.01	0.00	0.00	3.57	2.1	329.7		11.21	0.00	0.00	1.18		10.35	18.92	83.84	86.68	20-Oct-16 14:00:00		21.56	18.92	83.84	87.86
20-Oct-16 15:00:00	20-Oct-16 16:00:00		30.54	0.00	0.00	3.46	2.1	329.7		10.07	0.00	0.00	1.14		10.35	18.92	83.84	86.68	20-Oct-16 15:00:00		20.42	18.92	83.84	87.82
20-Oct-16 16:00:00	20-Oct-16 17:00:00		40.23	0.00	0.00	3.34	2.1	329.7		13.26	0.00	0.00	1.10		10.35	18.92	83.84	86.68	20-Oct-16 16:00:00		23.61	18.92	83.84	87.78
20-Oct-16 17:00:00	20-Oct-16 18:00:00		40.18	0.00	0.00	3.46	2.1	329.7		13.25	0.00	0.00	1.14		10.35	18.92	83.84	86.68	20-Oct-16 17:00:00		23.60	18.92	83.84	87.82
20-Oct-16 18:00:00	20-Oct-16 19:00:00		43.66	0.00	0.00	3.63	2.1	329.7		14.39	0.00	0.00	1.20		10.35	18.92	83.84	86.68	20-Oct-16 18:00:00		24.74	18.92	83.84	87.88
20-Oct-16 19:00:00	20-Oct-16 20:00:00		33.94	0.00	0.00	3.80	2.1	329.7		11.19	0.00	0.00	1.25		10.35	18.92	83.84	86.68	20-Oct-16 19:00:00		21.54	18.92	83.84	87.93
20-Oct-16 20:00:00	20-Oct-16 21:00:00		36.97	0.00	0.00	3.94	2.1	329.7		12.19	0.00	0.00	1.30		10.35	18.92	83.84	86.68	20-Oct-16 20:00:00		22.54	18.92	83.84	87.98
20-Oct-16 21:00:00	20-Oct-16 22:00:00		11.46	0.00	0.00	4.07	2.1	329.7		3.78	0.00	0.00	1.34		10.35	18.92	83.84	86.68	20-Oct-16 21:00:00		14.13	18.92	83.84	88.02
20-Oct-16 22:00:00	20-Oct-16 23:00:00		7.97	0.00	0.00	4.22	2.1	329.7		2.63	0.00	0.00	1.39		10.35	18.92	83.84	86.68	20-Oct-16 22:00:00		12.98	18.92	83.84	88.07
20-Oct-16 23:00:00	21-Oct-16 00:00:00		3.26	0.00	0.00	4.38	2.1	329.7		1.08	0.00	0.00	1.44		10.35	18.92	83.84	86.68	20-Oct-16 23:00:00		11.43	18.92	83.84	88.12
21-Oct-16 00:00:00	21-Oct-16 01:00:00		7.52	0.00	0.00	4.53	2.1	329.7		2.48	0.00	0.00	1.49		10.35	18.92	83.84	86.68	21-Oct-16 00:00:00		12.83	18.92	83.84	88.17
21-Oct-16 01:00:00	21-Oct-16 02:00:00		0.70	0.00	0.00	4.57	2.1	329.7		0.23	0.00	0.00	1.51		10.35	18.92	83.84	86.68	21-Oct-16 01:00:00		10.58	18.92	83.84	88.19
21-Oct-16 02:00:00	21-Oct-16 03:00:00		0.00	0.00	0.00	4.58	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	21-Oct-16 02:00:00		10.35	18.92	83.84	88.19
21-Oct-16 03:00:00	21-Oct-16 04:00:00		0.09	0.00	0.00	4.59	2.1	329.7		0.03	0.00	0.00	1.51		10.35	18.92	83.84	86.68	21-Oct-16 03:00:00		10.38	18.92	83.84	88.19
21-Oct-16 04:00:00	21-Oct-16 05:00:00		0.00	0.00	0.00	4.55	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	21-Oct-16 04:00:00		10.35	18.92	83.84	88.18
21-Oct-16 05:00:00	21-Oct-16 06:00:00		0.06	0.00	0.00	4.52	2.1	329.7		0.02	0.00	0.00	1.49		10.35	18.92	83.84	86.68	21-Oct-16 05:00:00		10.37	18.92	83.84	88.17
21-Oct-16 06:00:00	21-Oct-16 07:00:00		0.00	0.00	0.00	4.52	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	21-Oct-16 06:00:00		10.35	18.92	83.84	88.17
21-Oct-16 07:00:00	21-Oct-16 08:00:00		0.00	0.00	0.00	4.52	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	21-Oct-16 07:00:00		10.35	18.92	83.84	88.17
21-Oct-16 08:00:00	21-Oct-16 09:00:00		0.00	0.00	0.00	4.50	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	21-Oct-16 08:00:00		10.35	18.92	83.84	88.16
21-Oct-16 09:00:00	21-Oct-16 10:00:00		0.00	0.00	0.00	4.38	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	21-Oct-16 09:00:00		10.35	18.92	83.84	88.13
21-Oct-16 10:00:00	21-Oct-16 11:00:00		0.00	0.00	0.00	4.25	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	21-Oct-16 10:00:00		10.35	18.92	83.84	88.08
21-Oct-16 11:00:00	21-Oct-16 12:00:00		0.00	0.00	0.00	4.12	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	21-Oct-16 11:00:00		10.35	18.92	83.84	88.04
21-Oct-16 12:00:00	21-Oct-16 13:00:00		0.83	0.00	0.00	4.02	2.1	329.7		0.27	0.00	0.00	1.32		10.35	18.92	83.84	86.68	21-Oct-16 12:00:00		10.62	18.92	83.84	88.00
21-Oct-16 13:00:00	21-Oct-16 14:00:00		27.14	0.00	0.00	4.04	2.1	329.7		8.95	0.00	0.00	1.33		10.35	18.92	83.84	86.68	21-Oct-16 13:00:00		19.30	18.92	83.84	88.01
21-Oct-16 14:00:00	21-Oct-16 15:00:00		39.88	0.00	0.00	4.09	2.1	329.7		13.15	0.00	0.00	1.35		10.35	18.92	83.84	86.68	21-Oct-16 14:00:00		23.50	18.92	83.84	88.03
21-Oct-16 15:00:00	21-Oct-16 16:00:00		29.24	0.00	0.00	4.13	2.1	329.7		9.64	0.00	0.00	1.36		10.35	18.92	83.84	86.68	21-Oct-16 15:00:00		19.99	18.92	83.84	88.04
21-Oct-16 16:00:00	21-Oct-16 17:00:00		12.95	0.00	0.00	4.13	2.1	329.7		4.27	0.00	0.00	1.36		10.35	18.92	83.84	86.68	21-Oct-16 16:00:00		14.62	18.92	83.84	88.04
21-Oct-16 17:00:00	21-Oct-16 18:00:00		6.38	0.00	0.00	4.29	2.1	329.7		2.10	0.00	0.00	1.42		10.35	18.92	83.84	86.68	21-Oct-16 17:00:00		12.45	18.92	83.84	88.10
21-Oct-16 18:00:00	21-Oct-16 19:00:00		26.46	0.00	0.00	4.56	2.1	329.7		8.72	0.00	0.00	1.50		10.35	18.92	83.84	86.68	21-Oct-16 18:00:00		19.07	18.92	83.84	88.18
21-Oct-16 19:00:00	21-Oct-16 20:00:00		11.64	0.00	0.00	4.82	2.1	329.7		3.84	0.00	0.00	1.59		10.35	18.92	83.84	86.68	21-Oct-16 19:00:00		14.19	18.92	83.84	88.27
21-Oct-16 20:00:00	21-Oct-16 21:00:00		0.00	0.00	0.00	5.06	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	21-Oct-16 20:00:00		10.35	18.92	83.84	88.35
21-Oct-16 21:00:00	21-Oct-16 22:00:00		0.00	0.00	0.00	5.18	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	21-Oct-16 21:00:00		10.35	18.92	83.84	88.39
21-Oct-16 22:00:00	21-Oct-16 23:00:00		0.00	0.00	0.00	5.27	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	21-Oct-16 22:00:00		10.35	18.92	83.84	88.42
21-Oct-16 23:00:00	22-Oct-16 00:00:00		0.00	0.00	0.00	5.36	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	21-Oct-16 23:00:00		10.35	18.92	83.84	88.45
22-Oct-16 00:00:00	22-Oct-16 01:00:00		0.00	0.00	0.00	5.48	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	22-Oct-16 00:00:00		10.35	18.92	83.84	88.49
22-Oct-16 01:00:00	22-Oct-16 02:00:00		0.00	0.00	0.00	5.63	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	22-Oct-16 01:00:00		10.35	18.92	83.84	88.54
22-Oct-16 02:00:00	22-Oct-16 03:00:00		0.80	0.00	0.00	5.75	2.1	329.7		0.26	0.00	0.00	1.90		10.35	18.92	83.84	86.68	22-Oct-16 02:00:00		10.61	18.92	83.84	88.58
22-Oct-16 03:00:00	22-Oct-16 04:00:00		0.73	0.00	0.00	5.88	2.1	329.7		0.24	0.00	0.00	1.94		10.35	18.92	83.84	86.68	22-Oct-16 03:00:00		10.59	18.92	83.84	88.62
22-Oct-16 04:00:00	22-Oct-16 05:00:00		0.32	0.00	0.00	5.92	2.1	329.7		0.10	0.00	0.00	1.95		10.35	18.92	83.84	86.68	22-Oct-16 04:00:00		10.45	18.92	83.84	88.63
22-Oct-16 05:00:00	22-Oct-16 06:00:00		1.00	0.00	0.00	5.86	2.1	329.7		0.33	0.00	0.00	1.93		10.35	18.92	83.84	86.68	22-Oct-16 05:00:00		10.68	18.92	83.84	88.61
22-Oct-16 06:00:00	22-Oct-16 07:00:00		13.43	0.00	0.00	5.87	2.1	329.7		4.43	0.00	0.00	1.94		10.35	18.92	83.84	86.68	22-Oct-16 06:00:00		14.78	18.92	83.84	88.62
22-Oct-16 07:00:00	22-Oct-16 08:00:00		0.00	0.00	0.00	5.89	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	22-Oct-16 07:00:00		10.35	18.92	83.84	88.62
22-Oct-16 08:00:00	22-Oct-16 09:00:00		0.00	0.00	0.00	5.93	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	22-Oct-16 08:00:00		10.35	18.92	83.84	88.63
22-Oct-16 09:00:00	22-Oct-16 10:00:00		0.00	0.00	0.00	5.75	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	22-Oct-16 09:00:00		10.35	18.92	83.84	88.58
22-Oct-16 10:00:00	22-Oct-16 11:00:00		2.01	0.00	0.00	5.46	2.1	329.7		0.66	0.00	0.00	1.80		10.35	18.92	83.84	86.68	22-Oct-16 10:00:00		11.01	18.92	83.84	88.48
22-Oct-16 11:00:00	22-Oct-16 12:00:00		1.00	0.00	0.00	5.18	2.1	329.7		0.33	0.00	0.00	1.71		10.35	18.92	83.84	86.68	22-Oct-16 11:00:00		10.68	18.92	83.84	88.39
22-Oct-16 12:00:00	22-Oct-16 13:00:00		0.00	0.00	0.00	4.91	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	22-Oct-16 12:00:00		10.35	18.92	83.84	88.30
22-Oct-16 13:00:00	22-Oct-16 14:00:00		0.17	0.00	0.00	4.78	2.1	329.7		0.06	0.00	0.00	1.58		10.35	18.92	83.84	86.68	22-Oct-16 13:00:00		10.41	18.92	83.84	88.26
22-Oct-16 14:00:00	22-Oct-16 15:00:00		0.00	0.00	0.00	4.70	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	22-Oct-16 14:00:00		10.35	18.92	83.84	88.23
22-Oct-16 15:00:00	22-Oct-16 16:00:00		0.00	0.00	0.00	4.61	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	22-Oct-16 15:00:00		10.35	18.92	83.84	88.20
22-Oct-16 16:00:00	22-Oct-16 17:00:00		0.00	0.00	0.00	4.55	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	22-Oct-16 16:00:00		10.35	18.92	83.84	88.18
22-Oct-16 17:00:00	22-Oct-16 18:00:00		0.00	0.00	0.00	4.68	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	22-Oct-16 17:00:00		10.35	18.92	83.84	88.22
22-Oct-16 18:00:00	22-Oct-16 19:00:00		0.00	0.00	0.00	4.85	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	22-Oct-16 18:00:00		10.35	18.92	83.84	88.28
22-Oct-16 19:00:00	22-Oct-16 20:00:00		0.00	0.00	0.00	5.01	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	22-Oct-16 19:00:00		10.35	18.92	83.84	88.33
22-Oct-16 20:00:00	22-Oct-16 21:00:00		0.00	0.00	0.00	5.14	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	22-Oct-16 20:00:00		10.35	18.92	83.84	88.38
22-Oct-16 21:00:00	22-Oct-16 22:00:00		0.00	0.00	0.00	5.24

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
24-Oct-16 23:00:00	25-Oct-16 00:00:00		0.06	0.00	0.00	4.71	2.1	329.7		0.02	0.00	0.00	1.55		10.35	18.92	83.84	86.68	24-Oct-16 23:00:00		10.37	18.92	83.84	88.23
25-Oct-16 00:00:00	25-Oct-16 01:00:00		0.00	0.00	0.00	4.95	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	25-Oct-16 00:00:00		10.35	18.92	83.84	88.31
25-Oct-16 01:00:00	25-Oct-16 02:00:00		2.25	0.00	0.00	5.03	2.1	329.7		0.74	0.00	0.00	1.66		10.35	18.92	83.84	86.68	25-Oct-16 01:00:00		11.09	18.92	83.84	88.34
25-Oct-16 02:00:00	25-Oct-16 03:00:00		0.94	0.00	0.00	5.10	2.1	329.7		0.31	0.00	0.00	1.68		10.35	18.92	83.84	86.68	25-Oct-16 02:00:00		10.66	18.92	83.84	88.36
25-Oct-16 03:00:00	25-Oct-16 04:00:00		0.59	0.00	0.00	5.17	2.1	329.7		0.20	0.00	0.00	1.71		10.35	18.92	83.84	86.68	25-Oct-16 03:00:00		10.55	18.92	83.84	88.39
25-Oct-16 04:00:00	25-Oct-16 05:00:00		0.25	0.00	0.00	5.19	2.1	329.7		0.08	0.00	0.00	1.71		10.35	18.92	83.84	86.68	25-Oct-16 04:00:00		10.43	18.92	83.84	88.39
25-Oct-16 05:00:00	25-Oct-16 06:00:00		11.45	0.00	0.00	5.20	2.1	329.7		3.78	0.00	0.00	1.71		10.35	18.92	83.84	86.68	25-Oct-16 05:00:00		14.13	18.92	83.84	88.39
25-Oct-16 06:00:00	25-Oct-16 07:00:00		10.43	0.00	0.00	5.34	2.1	329.7		3.44	0.00	0.00	1.76		10.35	18.92	83.84	86.68	25-Oct-16 06:00:00		13.79	18.92	83.84	88.44
25-Oct-16 07:00:00	25-Oct-16 08:00:00		6.63	0.00	0.00	5.49	2.1	329.7		2.18	0.00	0.00	1.81		10.35	18.92	83.84	86.68	25-Oct-16 07:00:00		12.53	18.92	83.84	88.49
25-Oct-16 08:00:00	25-Oct-16 09:00:00		0.52	0.00	0.00	5.60	2.1	329.7		0.17	0.00	0.00	1.85		10.35	18.92	83.84	86.68	25-Oct-16 08:00:00		10.52	18.92	83.84	88.53
25-Oct-16 09:00:00	25-Oct-16 10:00:00		1.38	0.00	0.00	5.32	2.1	329.7		0.46	0.00	0.00	1.75		10.35	18.92	83.84	86.68	25-Oct-16 09:00:00		10.81	18.92	83.84	88.43
25-Oct-16 10:00:00	25-Oct-16 11:00:00		2.25	0.00	0.00	4.91	2.1	329.7		0.74	0.00	0.00	1.62		10.35	18.92	83.84	86.68	25-Oct-16 10:00:00		11.09	18.92	83.84	88.30
25-Oct-16 11:00:00	25-Oct-16 12:00:00		12.80	0.00	0.00	4.49	2.1	329.7		4.22	0.00	0.00	1.48		10.35	18.92	83.84	86.68	25-Oct-16 11:00:00		14.57	18.92	83.84	88.16
25-Oct-16 12:00:00	25-Oct-16 13:00:00		0.89	0.00	0.00	4.09	2.1	329.7		0.29	0.00	0.00	1.35		10.35	18.92	83.84	86.68	25-Oct-16 12:00:00		10.64	18.92	83.84	88.03
25-Oct-16 13:00:00	25-Oct-16 14:00:00		0.00	0.00	0.00	3.98	2.1	329.7		0.00	0.00	0.00	1.31		10.35	18.92	83.84	86.68	25-Oct-16 13:00:00		10.35	18.92	83.84	87.99
25-Oct-16 14:00:00	25-Oct-16 15:00:00		0.00	0.00	0.00	4.00	2.1	329.7		0.00	0.00	0.00	1.32		10.35	18.92	83.84	86.68	25-Oct-16 14:00:00		10.35	18.92	83.84	88.00
25-Oct-16 15:00:00	25-Oct-16 16:00:00		0.00	0.00	0.00	4.03	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	25-Oct-16 15:00:00		10.35	18.92	83.84	88.01
25-Oct-16 16:00:00	25-Oct-16 17:00:00		0.00	0.00	0.00	4.04	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	25-Oct-16 16:00:00		10.35	18.92	83.84	88.01
25-Oct-16 17:00:00	25-Oct-16 18:00:00		0.00	0.00	0.00	4.19	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	25-Oct-16 17:00:00		10.35	18.92	83.84	88.06
25-Oct-16 18:00:00	25-Oct-16 19:00:00		0.00	0.00	0.00	4.43	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	25-Oct-16 18:00:00		10.35	18.92	83.84	88.14
25-Oct-16 19:00:00	25-Oct-16 20:00:00		0.00	0.00	0.00	4.68	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	25-Oct-16 19:00:00		10.35	18.92	83.84	88.22
25-Oct-16 20:00:00	25-Oct-16 21:00:00		0.27	0.00	0.00	4.89	2.1	329.7		0.09	0.00	0.00	1.61		10.35	18.92	83.84	86.68	25-Oct-16 20:00:00		10.44	18.92	83.84	88.29
25-Oct-16 21:00:00	25-Oct-16 22:00:00		8.23	0.00	0.00	4.99	2.1	329.7		2.71	0.00	0.00	1.65		10.35	18.92	83.84	86.68	25-Oct-16 21:00:00		13.06	18.92	83.84	88.33
25-Oct-16 22:00:00	25-Oct-16 23:00:00		7.33	0.00	0.00	5.15	2.1	329.7		2.42	0.00	0.00	1.70		10.35	18.92	83.84	86.68	25-Oct-16 22:00:00		12.77	18.92	83.84	88.38
25-Oct-16 23:00:00	26-Oct-16 00:00:00		11.85	0.00	0.00	5.30	2.1	329.7		3.91	0.00	0.00	1.75		10.35	18.92	83.84	86.68	25-Oct-16 23:00:00		14.26	18.92	83.84	88.43
26-Oct-16 00:00:00	26-Oct-16 01:00:00		12.52	0.00	0.00	5.48	2.1	329.7		4.13	0.00	0.00	1.81		10.35	18.92	83.84	86.68	26-Oct-16 00:00:00		14.48	18.92	83.84	88.49
26-Oct-16 01:00:00	26-Oct-16 02:00:00		4.87	0.00	0.00	5.62	2.1	329.7		1.61	0.00	0.00	1.85		10.35	18.92	83.84	86.68	26-Oct-16 01:00:00		11.96	18.92	83.84	88.53
26-Oct-16 02:00:00	26-Oct-16 03:00:00		13.13	0.00	0.00	5.63	2.1	329.7		4.33	0.00	0.00	1.86		10.35	18.92	83.84	86.68	26-Oct-16 02:00:00		14.68	18.92	83.84	88.54
26-Oct-16 03:00:00	26-Oct-16 04:00:00		4.48	0.00	0.00	5.64	2.1	329.7		1.48	0.00	0.00	1.86		10.35	18.92	83.84	86.68	26-Oct-16 03:00:00		11.83	18.92	83.84	88.54
26-Oct-16 04:00:00	26-Oct-16 05:00:00		5.29	0.00	0.00	5.64	2.1	329.7		1.74	0.00	0.00	1.86		10.35	18.92	83.84	86.68	26-Oct-16 04:00:00		12.09	18.92	83.84	88.54
26-Oct-16 05:00:00	26-Oct-16 06:00:00		0.00	0.00	0.00	5.65	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	26-Oct-16 05:00:00		10.35	18.92	83.84	88.54
26-Oct-16 06:00:00	26-Oct-16 07:00:00		0.00	0.00	0.00	5.65	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	26-Oct-16 06:00:00		10.35	18.92	83.84	88.54
26-Oct-16 07:00:00	26-Oct-16 08:00:00		0.00	0.00	0.00	5.65	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	26-Oct-16 07:00:00		10.35	18.92	83.84	88.54
26-Oct-16 08:00:00	26-Oct-16 09:00:00		0.00	0.00	0.00	5.64	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	26-Oct-16 08:00:00		10.35	18.92	83.84	88.54
26-Oct-16 09:00:00	26-Oct-16 10:00:00		0.00	0.00	0.00	5.35	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	26-Oct-16 09:00:00		10.35	18.92	83.84	88.44
26-Oct-16 10:00:00	26-Oct-16 11:00:00		0.00	0.00	0.00	4.92	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	26-Oct-16 10:00:00		10.35	18.92	83.84	88.30
26-Oct-16 11:00:00	26-Oct-16 12:00:00		5.92	0.00	0.00	4.49	2.1	329.7		1.95	0.00	0.00	1.48		10.35	18.92	83.84	86.68	26-Oct-16 11:00:00		12.30	18.92	83.84	88.16
26-Oct-16 12:00:00	26-Oct-16 13:00:00		7.34	0.00	0.00	4.07	2.1	329.7		2.42	0.00	0.00	1.34		10.35	18.92	83.84	86.68	26-Oct-16 12:00:00		12.77	18.92	83.84	88.02
26-Oct-16 13:00:00	26-Oct-16 14:00:00		4.79	0.00	0.00	3.95	2.1	329.7		1.58	0.00	0.00	1.30		10.35	18.92	83.84	86.68	26-Oct-16 13:00:00		11.93	18.92	83.84	87.98
26-Oct-16 14:00:00	26-Oct-16 15:00:00		0.00	0.00	0.00	3.94	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	26-Oct-16 14:00:00		10.35	18.92	83.84	87.98
26-Oct-16 15:00:00	26-Oct-16 16:00:00		0.00	0.00	0.00	3.94	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	26-Oct-16 15:00:00		10.35	18.92	83.84	87.98
26-Oct-16 16:00:00	26-Oct-16 17:00:00		0.00	0.00	0.00	3.93	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	26-Oct-16 16:00:00		10.35	18.92	83.84	87.98
26-Oct-16 17:00:00	26-Oct-16 18:00:00		0.01	0.00	0.00	3.95	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	26-Oct-16 17:00:00		10.35	18.92	83.84	87.98
26-Oct-16 18:00:00	26-Oct-16 19:00:00		0.20	0.00	0.00	3.98	2.1	329.7		0.07	0.00	0.00	1.31		10.35	18.92	83.84	86.68	26-Oct-16 18:00:00		10.42	18.92	83.84	87.99
26-Oct-16 19:00:00	26-Oct-16 20:00:00		0.49	0.00	0.00	13.04	2.1	329.7		0.16	0.00	0.00	4.30		10.35	18.92	83.84	86.68	26-Oct-16 19:00:00		10.51	18.92	83.84	90.98
26-Oct-16 20:00:00	26-Oct-16 21:00:00		0.66	0.00	0.00	4.48	2.1	329.7		0.22	0.00	0.00	1.48		10.35	18.92	83.84	86.68	26-Oct-16 20:00:00		10.57	18.92	83.84	88.16
26-Oct-16 21:00:00	26-Oct-16 22:00:00		2.79	0.00	0.00	14.01	2.1	329.7		0.92	0.00	0.00	4.62		10.35	18.92	83.84	86.68	26-Oct-16 21:00:00		11.27	18.92	83.84	91.30
26-Oct-16 22:00:00	26-Oct-16 23:00:00		3.47	0.00	0.00	5.01	2.1	329.7		1.14	0.00	0.00	1.65		10.35	18.92	83.84	86.68	26-Oct-16 22:00:00		11.49	18.92	83.84	88.33
26-Oct-16 23:00:00	27-Oct-16 00:00:00		6.61	0.00	0.00	5.17	2.1	329.7		2.18	0.00	0.00	1.71		10.35	18.92	83.84	86.68	26-Oct-16 23:00:00		12.53	18.92	83.84	88.39
27-Oct-16 00:00:00	27-Oct-16 01:00:00		22.89	0.00	0.00	5.34	2.1	329.7		7.55	0.00	0.00	1.76		10.35	18.92	83.84	86.68	27-Oct-16 00:00:00		17.90	18.92	83.84	88.44
27-Oct-16 01:00:00	27-Oct-16 02:00:00		23.12	0.00	0.00	43.54	2.1	329.7		7.62	0.00	0.00	14.35		10.35	18.92	83.84	86.68	27-Oct-16 01:00:00		17.97	18.92	83.84	101.03
27-Oct-16 02:00:00	27-Oct-16 03:00:00		23.43	0.00	0.00	5.37	2.1	329.7		7.73	0.00	0.00	1.77		10.35	18.92	83.84	86.68	27-Oct-16 02:00:00		18.08	18.92	83.84	88.45
27-Oct-16 03:00:00	27-Oct-16 04:00:00		27.58	0.00	0.00	5.23	2.1	329.7		9.09	0.00	0.00	1.72		10.35	18.92	83.84	86.68	27-Oct-16 03:00:00		19.44	18.92	83.84	88.40
27-Oct-16 04:00:00	27-Oct-16 05:00:00		18.72	0.00	0.00	15.40	2.1	329.7		6.17	0.00	0.00	5.08		10.35	18.92	83.84	86.68	27-Oct-16 04:00:00		16.52	18.92	83.84	91.76
27-Oct-16 05:00:00	27-Oct-16 06:00:00		0.76	0.00	0.00	5.09	2.1	329.7		0.25	0.00	0.00	1.68		10.35	18.92	83.84	86.68	27-Oct-16 05:00:00		10.60	18.92	83.84	88.36
27-Oct-16 06:00:00	27-Oct-16 07:00:00		8.17	0.00	0.00	30.32	2.1	329.7		2.69	0.00	0.00	10.00		10.35	18.92	83.84	86.68	27-Oct-16 06:00:00		13.04	18.92	83.84	96.68
27-Oct-16 07:00:00	27-Oct-16 08:00:00		24.51	0.00	0.00	4.92	2.1	329.7		8.08	0.00	0.00	1.62		10.35	18.92	83.84	86.68	27-Oct-16 07:00:00		18.43	18.92	83.84	88.30
27-Oct-16 08:00:00	27-Oct-16 09:00:00		19.86	0.00	0.00	4.63	2.1	329.7		6.55	0.00	0.00	1.53		10.35	18.92	83.84	86.68	27-Oct-16 08:00:00		16.90	18.92	83.84	88.21
27-Oct-16 09:00:00	27-Oct-16 10:00:00		19.83	0.00	0.00	4.35	2.1	329.7		6.54	0.00	0.00	1.43		10.35	18.92	83.84	86.68	27-Oct-16 09:00:00		16.89	18.92	83.84	88.11
27-Oct-16 10:00:00	27-Oct-16 11:00:00		16.05	0.00	0.00	4.06	2.1	329.7		5.29	0.00	0.00	1.34		10.35	18.92	83.84	86.68	27-Oct-16 10:00:00		15.64	18.92	83.84	88.02
27-Oct-16 11:00:00	27-Oct-16 12:00:00		3.61	0.00	0.00	3.90	2.1	329.7		1.19	0.00	0.00	1.29		10.35	18.92	83.84	86.68	27-Oct-16 11:00:00		11.54	18.92	83.84	87.97
27-Oct-16 12:00:00	27-Oct-16 13:00:00		0.66	0.00	0.00	3.82	2.1	329.7		0.22	0.00	0.00	1.26		10.35	18.92	83.84	86.68	27-Oct-16 12:00:00		10.57	18.92	83.84	87.94
27-Oct-16 13:00:00	27-Oct-16 14:00:00		1.47	0.00	0.00	37.15	2.1	329.7		0.48	0.00	0.00	12.25		10.35	18.92	83.84	86.68	27-Oct-16 13:00:00		10.83	18.92	83.84	98.93
27-Oct-16 14:00:00	27-Oct-16 15:00:00		2.28	0.00	0.00	3.66	2.1	329.7		0.75	0.00	0.00	1.21		10.35	18.92	83.84	86.68	27-Oct-16 14:00:00		11.10	18.92	83.84	87.89
27-Oct-16 15:00:00	27-Oct-16 16:00:00		1.65	0.00	0.00	3.55	2.1	329.7		0.54	0.00	0.00	1.17		10.35	18.92	83.84	86.68	27-Oct-16 15:00:00		10.89	18.92	83.84	87.85
27-Oct-16 16:00:00	27-Oct-16 17:00:00		0.00	0.00	0.00	3.45	2.1	329.7		0.00	0.00	0.00	1.14		10.35	18.92	83.84	86.68	27-Oct-16 16:00:00		10.35	18.92	83.84	87.82
27-Oct-16 17:00:00	27-Oct-16 18:00:00		0.00	0.00	0.00	15.62	2.1	329.7		0.00	0.00	0.00	5.15		10.35	18.92	83.84	86.68	27-Oct-16 17:00:00		10.35	18.92	83.84	91.83
27-Oct-16 18:00:00	27-Oct-16 19:00:00		0.00	0.00	0.00	15.67	2.1	329.7		0.00	0.00	0.00	5.17		10.35	18.92	83.84	86.68	27-Oct-16 18:00:00		10.35	18.92	83.84	91.85
27-Oct-16 19:00:00	27-Oct-16 20:00:00		0.00	0.00	0.00	3.40	2.1	329.7		0.00	0.00	0.00	1.12		10.35	18.92	83.84	86.68	27-Oct-16 19:00:00		10.35	18.92	83.84	87.80
27-Oct-16 20:00:00	27-Oct-16 21:00:00		0.00	0.00	0.00	13.08	2.1	329.7		0.00	0.00	0.00	4.31		10.35	18.92	83.84	86.68	27-Oct-16 20:00:00		10.35	18.92	83.84	90.99
27-Oct-16 21:00:00	27-Oct-16 22:00:00		0.00	0.00	0.00	3.76	2.1	329.7		0.00	0.00	0.00	1.24		10.35	18.92	83.84	86.68	27-Oct-16 21:00:00		10.35	18.92	83.84	87.92
27-Oct-16 22:00:00	27-Oct-16 23:00:00		0.00	0.00	0.00	4.03	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	27-Oct-16 22:00:00		10.35	18.92	83.84	88.01
27-Oct-16 23:00:00	28-Oct-16 00:00:00		0.00	0.00	0.00	65.31	2.1	329.7		0.00	0.00	0.00	21.53		10.35	18.92	83.84	86.68	27-Oct-16 23:00:00		10.35	18.92	83.84	108.21
28-Oct-16 00:00:00	28-Oct-16 01:00:00		0.00	0.00	0.00	4.04	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	28-Oct-16 00:00:00		10.35	18.92	83.84	88.01
28-Oct-16 01:00:00	28-Oct-16 02:00:00		0.00	0.00	0.00	9.49	2.1	329.7		0.00	0.00	0.00	3.13		10.35	18.92	83.84	86.68	28-Oct-16 01:00:00		10.35	18.92	83.84	89.81
28-Oct-16 02:00:00	28-Oct-16 03:00:00		0.00	0.00	0.00	18.96	2.1	329.7		0.00	0.00	0.00	6.25		10.35	18.92	83.84	86.68	28-Oct-16 02:00:00		10.35	18.92	83.84	92.93
28-Oct-16 03:00:00	28-Oct-16 04:00:00		0.00	0.00	0.00	4.47	2.1	329.7		0.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	28-Oct-16 03:00:00		10.35	18.92	83.84	88.15
28-Oct-16 04:00:00	28-Oct-16 05:00:00		0.00	0.00	0.00	4.83	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	28-Oct-16 04:00:00		10.35	18.92	83.84	88.27
28-Oct-16 05:00:00	28-Oct-16 06:00:00		0.00	0.00	0.00	15.42	2.1	329.7		0.00	0.00	0.00	5.09		10.35	18.92	83.84	86.68	28-Oct-16 05:00:00		10.35	18.92	83.84	91.77
28-Oct-16 06:00:00	28-Oct-16 07:00:00		0.00	0.00	0.00	4.83	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	28-Oct-16 06:00:00		10.35	18.92	83.84	88.27
28-Oct-16 07:00:00	28-Oct-16 08:00:00		0.00	0.00	0.00	4.92	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	28-Oct-16 07:00:00		10.35	18.92	83.84	88.30
28-Oct-16 08:00:00	28-Oct-16 09:00:00		0.00	0.00	0.00	5.00	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	28-Oct-16 08:00:00		10.35	18.92	83.84	88.33
28-Oct-16 09:00:00	28-Oct-16 10:00:00		316.71	0.00	0.00	4.98	2.1	329.7		104.42	0.00	0.00	1.64		10.35	18.92	83.84	86.68	28-Oct-16 09:00:00		114.77	18.92	83.84	88.32
28-Oct-16 10:00:00	28-Oct-16 11:00:00		527.99	0.00	0.00	4.48	2.1	329.7		174.08	0.00	0.00	1.48		10.35	18.92	83.84	86.68	28-Oct-16 10:00:00		184.43	18.92	83.84	88.16
28-Oct-16 11:00:00	28-Oct-16 12:00:00		585.90	0.00	0.00	6.86	2.1	329.7		193.17	0.00	0.00	2.26		10.35	18.92	83.84	86.68	28-Oct-16 11:00:00		203.52	18.92	83.84	88.94
28-Oct-16 12:00:00	28-Oct-16 13:00:00		750.46	0.00	0.00	3.64	2.1	329.7		247.43	0.00	0.00	1.20		10.35	18.92	83.84	86.68	28-Oct-16 12:00:00		257.78	18.92	83.84	87.88
28-Oct-16 13:00:00	28-Oct-16 14:00:00		757.76	0.00	0.00	3.35	2.1	329.7		249.83	0.00	0.00	1.10		10.35	18.92	83.84	86.68	28-Oct-16 13:00:00		260.18	18.92	83.84	87.78
28-Oct-16 14:00:00	28-Oct-16 15:00:00		798.46	0.00	0.00	3.05	2.1	329.7		263.25	0.00	0.00	1.00		10.35	18.92	83.84	86.68	28-Oct-16 14:00:00		273.60	18.92	83.84	87.68
28-Oct-16 15:00:00	28-Oct-16 16:00:00		801.17	0.00	0.00	7.31	2.1	329.7		264.15	0.00	0.00	2.41		10.35	18.92	83.84	86.68	28-Oct-16 15:00:00		274.50	18.92	83.84	89.09
28-Oct-16 16:00:00	28-Oct-16 17:00:00		531.91	0.00	0.00	3.22	2.1	329.7		175.37	0.00	0.00	1.06		10.35	18.92	83.84	86.68	28-Oct-16 16:00:00		185.72	18.92	83.84	87.74
28-Oct-16 17:00:00	28-Oct-16 18:00:00		0.00	0.00	0.00	3.48	2.1	329.7		0.00	0.00	0.00	1.15		10.35	18.92	83.84	86.68	28-Oct-16 17:00:00		10.35	18.92	83.84	87.83
28-Oct-16 18:00:00	28-Oct-16 19:00:00		0.00	0.00	0.00	3.45	2.1	329.7		0.00	0.00	0.00	1.14		10.35	18.92	83.84	86.68	28-Oct-16 18:00:00		10.35	18.92	83.84	87.82
28-Oct-16 19:00:00	28-Oct-16 20:00:00		0.08	0.00	0.00	3.72	2.1	329.7		0.03	0.00	0.00	1.23		10.35	18.92	83.84	86.68	28-Oct-16 19:00:00		10.38	18.92	83.84	87.91
28-Oct-16 20:00:00	28-Oct-16 21:00:00		0.00	0.00	0.00	71.72

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
30-Oct-16 22:00:00	30-Oct-16 23:00:00		0.00	0.00	0.00	7.99	2.1	329.7		0.00	0.00	0.00	2.63		10.35	18.92	83.84	86.68	30-Oct-16 22:00:00		**10.35**	**18.92**	**83.84**	**89.31**
30-Oct-16 23:00:00	31-Oct-16 00:00:00		0.00	0.00	0.00	4.25	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	30-Oct-16 23:00:00		**10.35**	**18.92**	**83.84**	**88.08**
31-Oct-16 00:00:00	31-Oct-16 01:00:00		0.00	0.00	0.00	4.36	2.1	329.7		0.00	0.00	0.00	1.44		10.35	18.92	83.84	86.68	31-Oct-16 00:00:00		**10.35**	**18.92**	**83.84**	**88.12**
31-Oct-16 01:00:00	31-Oct-16 02:00:00		0.00	0.00	0.00	4.47	2.1	329.7		0.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	31-Oct-16 01:00:00		**10.35**	**18.92**	**83.84**	**88.15**
31-Oct-16 02:00:00	31-Oct-16 03:00:00		0.00	0.00	0.00	4.61	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	31-Oct-16 02:00:00		**10.35**	**18.92**	**83.84**	**88.20**
31-Oct-16 03:00:00	31-Oct-16 04:00:00		0.00	0.00	0.00	4.81	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	31-Oct-16 03:00:00		**10.35**	**18.92**	**83.84**	**88.27**
31-Oct-16 04:00:00	31-Oct-16 05:00:00		0.00	0.00	0.00	11.14	2.1	329.7		0.00	0.00	0.00	3.67		10.35	18.92	83.84	86.68	31-Oct-16 04:00:00		**10.35**	**18.92**	**83.84**	**90.35**
31-Oct-16 05:00:00	31-Oct-16 06:00:00		0.00	0.00	0.00	5.01	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	31-Oct-16 05:00:00		**10.35**	**18.92**	**83.84**	**88.33**
31-Oct-16 06:00:00	31-Oct-16 07:00:00		0.00	0.00	0.00	8.59	2.1	329.7		0.00	0.00	0.00	2.83		10.35	18.92	83.84	86.68	31-Oct-16 06:00:00		**10.35**	**18.92**	**83.84**	**89.51**
31-Oct-16 07:00:00	31-Oct-16 08:00:00		0.00	0.00	0.00	4.98	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	31-Oct-16 07:00:00		**10.35**	**18.92**	**83.84**	**88.32**
31-Oct-16 08:00:00	31-Oct-16 09:00:00		5.47	0.00	0.00	4.79	2.1	329.7		1.80	0.00	0.00	1.58		10.35	18.92	83.84	86.68	31-Oct-16 08:00:00		**12.15**	**18.92**	**83.84**	**88.26**
31-Oct-16 09:00:00	31-Oct-16 10:00:00		499.27	0.00	0.00	4.61	2.1	329.7		164.61	0.00	0.00	1.52		10.35	18.92	83.84	86.68	31-Oct-16 09:00:00		**174.96**	**18.92**	**83.84**	**88.20**
31-Oct-16 10:00:00	31-Oct-16 11:00:00		867.33	0.00	0.00	9.21	2.1	329.7		285.96	0.00	0.00	3.04		10.35	18.92	83.84	86.68	31-Oct-16 10:00:00		**296.31**	**18.92**	**83.84**	**89.72**
31-Oct-16 11:00:00	31-Oct-16 12:00:00		888.06	0.00	0.00	4.12	2.1	329.7		292.79	0.00	0.00	1.36		10.35	18.92	83.84	86.68	31-Oct-16 11:00:00		**303.14**	**18.92**	**83.84**	**88.04**
31-Oct-16 12:00:00	31-Oct-16 13:00:00		1,054.72	0.00	0.00	3.84	2.1	329.7		347.74	0.00	0.00	1.27		10.35	18.92	83.84	86.68	31-Oct-16 12:00:00		**358.09**	**18.92**	**83.84**	**87.95**
31-Oct-16 13:00:00	31-Oct-16 14:00:00		1,062.82	0.00	0.00	30.17	2.1	329.7		350.41	0.00	0.00	9.95		10.35	18.92	83.84	86.68	31-Oct-16 13:00:00		**360.76**	**18.92**	**83.84**	**96.63**
31-Oct-16 14:00:00	31-Oct-16 15:00:00		1,043.32	0.00	0.00	3.45	2.1	329.7		343.98	0.00	0.00	1.14		10.35	18.92	83.84	86.68	31-Oct-16 14:00:00		**354.33**	**18.92**	**83.84**	**87.82**
31-Oct-16 15:00:00	31-Oct-16 16:00:00		625.31	0.00	0.00	3.38	2.1	329.7		206.16	0.00	0.00	1.12		10.35	18.92	83.84	86.68	31-Oct-16 15:00:00		**216.51**	**18.92**	**83.84**	**87.80**
31-Oct-16 16:00:00	31-Oct-16 17:00:00		235.63	0.00	0.00	7.08	2.1	329.7		77.69	0.00	0.00	2.33		10.35	18.92	83.84	86.68	31-Oct-16 16:00:00		**88.04**	**18.92**	**83.84**	**89.01**
31-Oct-16 17:00:00	31-Oct-16 18:00:00		13.76	0.00	0.00	7.50	2.1	329.7		4.54	0.00	0.00	2.47		10.35	18.92	83.84	86.68	31-Oct-16 17:00:00		**14.89**	**18.92**	**83.84**	**89.15**
31-Oct-16 18:00:00	31-Oct-16 19:00:00		18.41	0.00	0.00	3.65	2.1	329.7		6.07	0.00	0.00	1.20		10.35	18.92	83.84	86.68	31-Oct-16 18:00:00		**16.42**	**18.92**	**83.84**	**87.88**
31-Oct-16 19:00:00	31-Oct-16 20:00:00		18.24	0.00	0.00	3.83	2.1	329.7		6.01	0.00	0.00	1.26		10.35	18.92	83.84	86.68	31-Oct-16 19:00:00		**16.36**	**18.92**	**83.84**	**87.94**
31-Oct-16 20:00:00	31-Oct-16 21:00:00		22.95	0.00	0.00	11.40	2.1	329.7		7.57	0.00	0.00	3.76		10.35	18.92	83.84	86.68	31-Oct-16 20:00:00		**17.92**	**18.92**	**83.84**	**90.44**
31-Oct-16 21:00:00	31-Oct-16 22:00:00		0.09	0.00	0.00	4.22	2.1	329.7		0.03	0.00	0.00	1.39		10.35	18.92	83.84	86.68	31-Oct-16 21:00:00		**10.38**	**18.92**	**83.84**	**88.07**
31-Oct-16 22:00:00	31-Oct-16 23:00:00		0.00	0.00	0.00	20.10	2.1	329.7		0.00	0.00	0.00	6.63		10.35	18.92	83.84	86.68	31-Oct-16 22:00:00		**10.35**	**18.92**	**83.84**	**93.31**
31-Oct-16 23:00:00	01-Nov-16 00:00:00		4.56	0.00	0.00	4.54	2.1	329.7		1.50	0.00	0.00	1.50		10.35	18.92	83.84	86.68	31-Oct-16 23:00:00		**11.85**	**18.92**	**83.84**	**88.18**
01-Nov-16 00:00:00	01-Nov-16 01:00:00		1.48	0.00	0.00	4.56	2.1	329.7		0.49	0.00	0.00	1.50		10.35	18.92	83.84	86.68	01-Nov-16 00:00:00		**10.84**	**18.92**	**83.84**	**88.18**
01-Nov-16 01:00:00	01-Nov-16 02:00:00		1.13	0.00	0.00	4.59	2.1	329.7		0.37	0.00	0.00	1.51		10.35	18.92	83.84	86.68	01-Nov-16 01:00:00		**10.72**	**18.92**	**83.84**	**88.19**
01-Nov-16 02:00:00	01-Nov-16 03:00:00		0.76	0.00	0.00	21.63	2.1	329.7		0.25	0.00	0.00	7.13		10.35	18.92	83.84	86.68	01-Nov-16 02:00:00		**10.60**	**18.92**	**83.84**	**93.81**
01-Nov-16 03:00:00	01-Nov-16 04:00:00		0.38	0.00	0.00	4.59	2.1	329.7		0.13	0.00	0.00	1.51		10.35	18.92	83.84	86.68	01-Nov-16 03:00:00		**10.48**	**18.92**	**83.84**	**88.19**
01-Nov-16 04:00:00	01-Nov-16 05:00:00		0.05	0.00	0.00	4.57	2.1	329.7		0.02	0.00	0.00	1.51		10.35	18.92	83.84	86.68	01-Nov-16 04:00:00		**10.37**	**18.92**	**83.84**	**88.19**
01-Nov-16 05:00:00	01-Nov-16 06:00:00		3.49	0.00	0.00	8.76	2.1	329.7		1.15	0.00	0.00	2.89		10.35	18.92	83.84	86.68	01-Nov-16 05:00:00		**11.50**	**18.92**	**83.84**	**89.57**
01-Nov-16 06:00:00	01-Nov-16 07:00:00		0.00	0.00	0.00	4.69	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	01-Nov-16 06:00:00		**10.35**	**18.92**	**83.84**	**88.23**
01-Nov-16 07:00:00	01-Nov-16 08:00:00		0.00	0.00	0.00	4.74	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	01-Nov-16 07:00:00		**10.35**	**18.92**	**83.84**	**88.24**
01-Nov-16 08:00:00	01-Nov-16 09:00:00		0.00	0.00	0.00	13.53	2.1	329.7		0.00	0.00	0.00	4.46		10.35	18.92	83.84	86.68	01-Nov-16 08:00:00		**10.35**	**18.92**	**83.84**	**91.14**
01-Nov-16 09:00:00	01-Nov-16 10:00:00		0.00	0.00	0.00	4.89	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	01-Nov-16 09:00:00		**10.35**	**18.92**	**83.84**	**88.29**
01-Nov-16 10:00:00	01-Nov-16 11:00:00		0.00	0.00	0.00	4.84	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	01-Nov-16 10:00:00		**10.35**	**18.92**	**83.84**	**88.28**
01-Nov-16 11:00:00	01-Nov-16 12:00:00		0.00	0.00	0.00	9.26	2.1	329.7		0.00	0.00	0.00	3.05		10.35	18.92	83.84	86.68	01-Nov-16 11:00:00		**10.35**	**18.92**	**83.84**	**89.73**
01-Nov-16 12:00:00	01-Nov-16 13:00:00		0.00	0.00	0.00	4.54	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	01-Nov-16 12:00:00		**10.35**	**18.92**	**83.84**	**88.18**
01-Nov-16 13:00:00	01-Nov-16 14:00:00		0.00	0.00	0.00	4.36	2.1	329.7		0.00	0.00	0.00	1.44		10.35	18.92	83.84	86.68	01-Nov-16 13:00:00		**10.35**	**18.92**	**83.84**	**88.12**
01-Nov-16 14:00:00	01-Nov-16 15:00:00		0.00	0.00	0.00	4.17	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	01-Nov-16 14:00:00		**10.35**	**18.92**	**83.84**	**88.05**
01-Nov-16 15:00:00	01-Nov-16 16:00:00		0.00	0.00	0.00	28.91	2.1	329.7		0.00	0.00	0.00	9.53		10.35	18.92	83.84	86.68	01-Nov-16 15:00:00		**10.35**	**18.92**	**83.84**	**96.21**
01-Nov-16 16:00:00	01-Nov-16 17:00:00		0.00	0.00	0.00	4.10	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	01-Nov-16 16:00:00		**10.35**	**18.92**	**83.84**	**88.03**
01-Nov-16 17:00:00	01-Nov-16 18:00:00		0.00	0.00	0.00	34.90	2.1	329.7		0.00	0.00	0.00	11.51		10.35	18.92	83.84	86.68	01-Nov-16 17:00:00		**10.35**	**18.92**	**83.84**	**98.19**
01-Nov-16 18:00:00	01-Nov-16 19:00:00		0.00	0.00	0.00	4.09	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	01-Nov-16 18:00:00		**10.35**	**18.92**	**83.84**	**88.03**
01-Nov-16 19:00:00	01-Nov-16 20:00:00		0.00	0.00	0.00	4.11	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	01-Nov-16 19:00:00		**10.35**	**18.92**	**83.84**	**88.04**
01-Nov-16 20:00:00	01-Nov-16 21:00:00		0.00	0.00	0.00	17.07	2.1	329.7		0.00	0.00	0.00	5.63		10.35	18.92	83.84	86.68	01-Nov-16 20:00:00		**10.35**	**18.92**	**83.84**	**92.31**
01-Nov-16 21:00:00	01-Nov-16 22:00:00		0.00	0.00	0.00	4.17	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	01-Nov-16 21:00:00		**10.35**	**18.92**	**83.84**	**88.05**
01-Nov-16 22:00:00	01-Nov-16 23:00:00		0.00	0.00	0.00	4.30	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	01-Nov-16 22:00:00		**10.35**	**18.92**	**83.84**	**88.10**
01-Nov-16 23:00:00	02-Nov-16 00:00:00		0.85	0.00	0.00	4.44	2.1	329.7		0.28	0.00	0.00	1.46		10.35	18.92	83.84	86.68	01-Nov-16 23:00:00		**10.63**	**18.92**	**83.84**	**88.14**
02-Nov-16 00:00:00	02-Nov-16 01:00:00		0.00	0.00	0.00	11.07	2.1	329.7		0.00	0.00	0.00	3.65		10.35	18.92	83.84	86.68	02-Nov-16 00:00:00		**10.35**	**18.92**	**83.84**	**90.33**
02-Nov-16 01:00:00	02-Nov-16 02:00:00		1.18	0.00	0.00	4.57	2.1	329.7		0.39	0.00	0.00	1.51		10.35	18.92	83.84	86.68	02-Nov-16 01:00:00		**10.74**	**18.92**	**83.84**	**88.19**
02-Nov-16 02:00:00	02-Nov-16 03:00:00		1.48	0.00	0.00	4.62	2.1	329.7		0.49	0.00	0.00	1.52		10.35	18.92	83.84	86.68	02-Nov-16 02:00:00		**10.84**	**18.92**	**83.84**	**88.20**
02-Nov-16 03:00:00	02-Nov-16 04:00:00		1.01	0.00	0.00	22.81	2.1	329.7		0.33	0.00	0.00	7.52		10.35	18.92	83.84	86.68	02-Nov-16 03:00:00		**10.68**	**18.92**	**83.84**	**94.20**
02-Nov-16 04:00:00	02-Nov-16 05:00:00		0.54	0.00	0.00	4.98	2.1	329.7		0.18	0.00	0.00	1.64		10.35	18.92	83.84	86.68	02-Nov-16 04:00:00		**10.53**	**18.92**	**83.84**	**88.32**
02-Nov-16 05:00:00	02-Nov-16 06:00:00		0.31	0.00	0.00	5.02	2.1	329.7		0.10	0.00	0.00	1.65		10.35	18.92	83.84	86.68	02-Nov-16 05:00:00		**10.45**	**18.92**	**83.84**	**88.33**
02-Nov-16 06:00:00	02-Nov-16 07:00:00		3.49	0.00	0.00	5.05	2.1	329.7		1.15	0.00	0.00	1.66		10.35	18.92	83.84	86.68	02-Nov-16 06:00:00		**11.50**	**18.92**	**83.84**	**88.34**
02-Nov-16 07:00:00	02-Nov-16 08:00:00		5.43	0.00	0.00	5.02	2.1	329.7		1.79	0.00	0.00	1.66		10.35	18.92	83.84	86.68	02-Nov-16 07:00:00		**12.14**	**18.92**	**83.84**	**88.34**
02-Nov-16 08:00:00	02-Nov-16 09:00:00		17.57	0.00	0.00	4.77	2.1	329.7		5.79	0.00	0.00	1.57		10.35	18.92	83.84	86.68	02-Nov-16 08:00:00		**16.14**	**18.92**	**83.84**	**88.25**
02-Nov-16 09:00:00	02-Nov-16 10:00:00		7.61	0.00	0.00	4.51	2.1	329.7		2.51	0.00	0.00	1.49		10.35	18.92	83.84	86.68	02-Nov-16 09:00:00		**12.86**	**18.92**	**83.84**	**88.17**
02-Nov-16 10:00:00	02-Nov-16 11:00:00		6.85	0.00	0.00	4.25	2.1	329.7		2.26	0.00	0.00	1.40		10.35	18.92	83.84	86.68	02-Nov-16 10:00:00		**12.61**	**18.92**	**83.84**	**88.08**
02-Nov-16 11:00:00	02-Nov-16 12:00:00		0.16	0.00	0.00	86.53	2.1	329.7		0.05	0.00	0.00	28.53		10.35	18.92	83.84	86.68	02-Nov-16 11:00:00		**10.40**	**18.92**	**83.84**	**115.21**
02-Nov-16 12:00:00	02-Nov-16 13:00:00		0.13	0.00	0.00	3.78	2.1	329.7		0.04	0.00	0.00	1.25		10.35	18.92	83.84	86.68	02-Nov-16 12:00:00		**10.39**	**18.92**	**83.84**	**87.93**
02-Nov-16 13:00:00	02-Nov-16 14:00:00		0.67	0.00	0.00	29.95	2.1	329.7		0.22	0.00	0.00	9.87		10.35	18.92	83.84	86.68	02-Nov-16 13:00:00		**10.57**	**18.92**	**83.84**	**96.55**
02-Nov-16 14:00:00	02-Nov-16 15:00:00		4.46	0.00	0.00	3.55	2.1	329.7		1.47	0.00	0.00	1.17		10.35	18.92	83.84	86.68	02-Nov-16 14:00:00		**11.82**	**18.92**	**83.84**	**87.85**
02-Nov-16 15:00:00	02-Nov-16 16:00:00		2.94	0.00	0.00	13.55	2.1	329.7		0.97	0.00	0.00	4.47		10.35	18.92	83.84	86.68	02-Nov-16 15:00:00		**11.32**	**18.92**	**83.84**	**91.15**
02-Nov-16 16:00:00	02-Nov-16 17:00:00		14.16	0.00	0.00	3.38	2.1	329.7		4.67	0.00	0.00	1.11		10.35	18.92	83.84	86.68	02-Nov-16 16:00:00		**15.02**	**18.92**	**83.84**	**87.79**
02-Nov-16 17:00:00	02-Nov-16 18:00:00		14.25	0.00	0.00	3.36	2.1	329.7		4.70	0.00	0.00	1.11		10.35	18.92	83.84	86.68	02-Nov-16 17:00:00		**15.05**	**18.92**	**83.84**	**87.79**
02-Nov-16 18:00:00	02-Nov-16 19:00:00		8.80	0.00	0.00	3.35	2.1	329.7		2.90	0.00	0.00	1.11		10.35	18.92	83.84	86.68	02-Nov-16 18:00:00		**13.25**	**18.92**	**83.84**	**87.79**
02-Nov-16 19:00:00	02-Nov-16 20:00:00		10.44	0.00	0.00	8.97	2.1	329.7		3.44	0.00	0.00	2.96		10.35	18.92	83.84	86.68	02-Nov-16 19:00:00		**13.79**	**18.92**	**83.84**	**89.64**
02-Nov-16 20:00:00	02-Nov-16 21:00:00		3.60	0.00	0.00	3.61	2.1	329.7		1.19	0.00	0.00	1.19		10.35	18.92	83.84	86.68	02-Nov-16 20:00:00		**11.54**	**18.92**	**83.84**	**87.87**
02-Nov-16 21:00:00	02-Nov-16 22:00:00		1.26	0.00	0.00	3.84	2.1	329.7		0.42	0.00	0.00	1.27		10.35	18.92	83.84	86.68	02-Nov-16 21:00:00		**10.77**	**18.92**	**83.84**	**87.95**
02-Nov-16 22:00:00	02-Nov-16 23:00:00		1.33	0.00	0.00	6.19	2.1	329.7		0.44	0.00	0.00	2.04		10.35	18.92	83.84	86.68	02-Nov-16 22:00:00		**10.79**	**18.92**	**83.84**	**88.72**
02-Nov-16 23:00:00	03-Nov-16 00:00:00		0.23	0.00	0.00	10.76	2.1	329.7		0.08	0.00	0.00	3.55		10.35	18.92	83.84	86.68	02-Nov-16 23:00:00		**10.43**	**18.92**	**83.84**	**90.23**
03-Nov-16 00:00:00	03-Nov-16 01:00:00		0.16	0.00	0.00	4.34	2.1	329.7		0.05	0.00	0.00	1.43		10.35	18.92	83.84	86.68	03-Nov-16 00:00:00		**10.40**	**18.92**	**83.84**	**88.11**
03-Nov-16 01:00:00	03-Nov-16 02:00:00		0.08	0.00	0.00	4.46	2.1	329.7		0.03	0.00	0.00	1.47		10.35	18.92	83.84	86.68	03-Nov-16 01:00:00		**10.38**	**18.92**	**83.84**	**88.15**
03-Nov-16 02:00:00	03-Nov-16 03:00:00		0.02	0.00	0.00	16.69	2.1	329.7		0.01	0.00	0.00	5.50		10.35	18.92	83.84	86.68	03-Nov-16 02:00:00		**10.36**	**18.92**	**83.84**	**92.18**
03-Nov-16 03:00:00	03-Nov-16 04:00:00		0.00	0.00	0.00	4.61	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	03-Nov-16 03:00:00		**10.35**	**18.92**	**83.84**	**88.20**
03-Nov-16 04:00:00	03-Nov-16 05:00:00		0.00	0.00	0.00	16.37	2.1	329.7		0.00	0.00	0.00	5.40		10.35	18.92	83.84	86.68	03-Nov-16 04:00:00		**10.35**	**18.92**	**83.84**	**92.08**
03-Nov-16 05:00:00	03-Nov-16 06:00:00		0.00	0.00	0.00	10.84	2.1	329.7		0.00	0.00	0.00	3.57		10.35	18.92	83.84	86.68	03-Nov-16 05:00:00		**10.35**	**18.92**	**83.84**	**90.25**
03-Nov-16 06:00:00	03-Nov-16 07:00:00		0.00	0.00	0.00	4.67	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	03-Nov-16 06:00:00		**10.35**	**18.92**	**83.84**	**88.22**
03-Nov-16 07:00:00	03-Nov-16 08:00:00		0.00	0.00	0.00	4.67	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	03-Nov-16 07:00:00		**10.35**	**18.92**	**83.84**	**88.22**
03-Nov-16 08:00:00	03-Nov-16 09:00:00		0.00	0.00	0.00	9.01	2.1	329.7		0.00	0.00	0.00	2.97		10.35	18.92	83.84	86.68	03-Nov-16 08:00:00		**10.35**	**18.92**	**83.84**	**89.65**
03-Nov-16 09:00:00	03-Nov-16 10:00:00		0.00	0.00	0.00	4.38	2.1	329.7		0.00	0.00	0.00	1.44		10.35	18.92	83.84	86.68	03-Nov-16 09:00:00		**10.35**	**18.92**	**83.84**	**88.12**
03-Nov-16 10:00:00	03-Nov-16 11:00:00		0.00	0.00	0.00	12.54	2.1	329.7		0.00	0.00	0.00	4.13		10.35	18.92	83.84	86.68	03-Nov-16 10:00:00		**10.35**	**18.92**	**83.84**	**90.81**
03-Nov-16 11:00:00	03-Nov-16 12:00:00		1.36	0.00	0.00	3.94	2.1	329.7		0.45	0.00	0.00	1.30		10.35	18.92	83.84	86.68	03-Nov-16 11:00:00		**10.80**	**18.92**	**83.84**	**87.98**
03-Nov-16 12:00:00	03-Nov-16 13:00:00		1.69	0.00	0.00	3.74	2.1	329.7		0.56	0.00	0.00	1.23		10.35	18.92	83.84	86.68	03-Nov-16 12:00:00		**10.91**	**18.92**	**83.84**	**87.91**
03-Nov-16 13:00:00	03-Nov-16 14:00:00		6.80	0.00	0.00	22.52	2.1	329.7		2.24	0.00	0.00	7.42		10.35	18.92	83.84	86.68	03-Nov-16 13:00:00		**12.59**	**18.92**	**83.84**	**94.10**
03-Nov-16 14:00:00	03-Nov-16 15:00:00		7.81	0.00	0.00	3.51	2.1	329.7		2.58	0.00	0.00	1.16		10.35	18.92	83.84	86.68	03-Nov-16 14:00:00		**12.93**	**18.92**	**83.84**	**87.84**
03-Nov-16 15:00:00	03-Nov-16 16:00:00		9.35	0.00	0.00	3.27	2.1	329.7		3.08	0.00	0.00	1.08		10.35	18.92	83.84	86.68	03-Nov-16 15:00:00		**13.43**	**18.92**	**83.84**	**87.76**
03-Nov-16 16:00:00	03-Nov-16 17:00:00		342.95	0.00	0.00	3.16	2.1	329.7		113.07	0.00	0.00	1.04		10.35	18.92	83.84	86.68	03-Nov-16 16:00:00		**123.42**	**18.92**	**83.84**	**87.72**
03-Nov-16 17:00:00	03-Nov-16 18:00:00		679.62	0.00	0.00	6.20	2.1	329.7		224.07	0.00	0.00	2.04		10.35	18.92	83.84	86.68	03-Nov-16 17:00:00		**234.42**	**18.92**	**83.84**	**88.72**
03-Nov-16 18:00:00	03-Nov-16 19:00:00		884.55	0.00	0.00	3.21	2.1	329.7		291.64	0.00	0.00	1.06		10.35	18.92	83.84	86.68	03-Nov-16 18:00:00		**301.99**	**18.92**	**83.84**	**87.74**
03-Nov-16 19:00:00	03-Nov-16 20:00:00		1,018.30	0.00	0.00

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
05-Nov-16 21:00:00	05-Nov-16 22:00:00		0.00	0.00	0.00	4.80	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	05-Nov-16 21:00:00		10.35	18.92	83.84	88.26
05-Nov-16 22:00:00	05-Nov-16 23:00:00		0.08	0.00	0.00	5.12	2.1	329.7		0.03	0.00	0.00	1.69		10.35	18.92	83.84	86.68	05-Nov-16 22:00:00		10.38	18.92	83.84	88.37
05-Nov-16 23:00:00	06-Nov-16 00:00:00		2.98	0.00	0.00	39.76	2.1	329.7		0.98	0.00	0.00	13.11		10.35	18.92	83.84	86.68	05-Nov-16 23:00:00		11.33	18.92	83.84	99.79
06-Nov-16 00:00:00	06-Nov-16 01:00:00		0.02	0.00	0.00	5.62	2.1	329.7		0.01	0.00	0.00	1.85		10.35	18.92	83.84	86.68	06-Nov-16 00:00:00		10.36	18.92	83.84	88.53
06-Nov-16 01:00:00	06-Nov-16 02:00:00		2.99	0.00	0.00	7.64	2.1	329.7		0.99	0.00	0.00	2.52		10.35	18.92	83.84	86.68	06-Nov-16 01:00:00		11.34	18.92	83.84	89.20
06-Nov-16 02:00:00	06-Nov-16 03:00:00		0.00	0.00	0.00	5.59	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	06-Nov-16 02:00:00		10.35	18.92	83.84	88.52
06-Nov-16 03:00:00	06-Nov-16 04:00:00		0.00	0.00	0.00	13.94	2.1	329.7		0.00	0.00	0.00	4.60		10.35	18.92	83.84	86.68	06-Nov-16 03:00:00		10.35	18.92	83.84	91.28
06-Nov-16 04:00:00	06-Nov-16 05:00:00		0.00	0.00	0.00	5.65	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	06-Nov-16 04:00:00		10.35	18.92	83.84	88.54
06-Nov-16 05:00:00	06-Nov-16 06:00:00		0.00	0.00	0.00	5.65	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	06-Nov-16 05:00:00		10.35	18.92	83.84	88.54
06-Nov-16 06:00:00	06-Nov-16 07:00:00		0.00	0.00	0.00	19.94	2.1	329.7		0.00	0.00	0.00	6.57		10.35	18.92	83.84	86.68	06-Nov-16 06:00:00		10.35	18.92	83.84	93.25
06-Nov-16 06:00:00	06-Nov-16 07:00:00		0.00	0.00	0.00	5.55	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	06-Nov-16 06:00:00		10.35	18.92	83.84	88.51
06-Nov-16 07:00:00	06-Nov-16 08:00:00		0.00	0.00	0.00	5.40	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	06-Nov-16 07:00:00		10.35	18.92	83.84	88.46
06-Nov-16 08:00:00	06-Nov-16 09:00:00		0.00	0.00	0.00	5.26	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	06-Nov-16 08:00:00		10.35	18.92	83.84	88.41
06-Nov-16 09:00:00	06-Nov-16 10:00:00		0.00	0.00	0.00	5.10	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	06-Nov-16 09:00:00		10.35	18.92	83.84	88.36
06-Nov-16 10:00:00	06-Nov-16 11:00:00		1.72	0.00	0.00	4.56	2.1	329.7		0.57	0.00	0.00	1.50		10.35	18.92	83.84	86.68	06-Nov-16 10:00:00		10.92	18.92	83.84	88.18
06-Nov-16 11:00:00	06-Nov-16 12:00:00		11.72	0.00	0.00	11.50	2.1	329.7		3.86	0.00	0.00	3.79		10.35	18.92	83.84	86.68	06-Nov-16 11:00:00		14.21	18.92	83.84	90.47
06-Nov-16 12:00:00	06-Nov-16 13:00:00		6.21	0.00	0.00	3.54	2.1	329.7		2.05	0.00	0.00	1.17		10.35	18.92	83.84	86.68	06-Nov-16 12:00:00		12.40	18.92	83.84	87.85
06-Nov-16 13:00:00	06-Nov-16 14:00:00		0.00	0.00	0.00	57.50	2.1	329.7		0.00	0.00	0.00	18.96		10.35	18.92	83.84	86.68	06-Nov-16 13:00:00		10.35	18.92	83.84	105.64
06-Nov-16 14:00:00	06-Nov-16 15:00:00		0.00	0.00	0.00	3.47	2.1	329.7		0.00	0.00	0.00	1.14		10.35	18.92	83.84	86.68	06-Nov-16 14:00:00		10.35	18.92	83.84	87.82
06-Nov-16 15:00:00	06-Nov-16 16:00:00		0.00	0.00	0.00	3.42	2.1	329.7		0.00	0.00	0.00	1.13		10.35	18.92	83.84	86.68	06-Nov-16 15:00:00		10.35	18.92	83.84	87.81
06-Nov-16 16:00:00	06-Nov-16 17:00:00		0.00	0.00	0.00	12.89	2.1	329.7		0.00	0.00	0.00	4.25		10.35	18.92	83.84	86.68	06-Nov-16 16:00:00		10.35	18.92	83.84	90.93
06-Nov-16 17:00:00	06-Nov-16 18:00:00		0.00	0.00	0.00	3.91	2.1	329.7		0.00	0.00	0.00	1.29		10.35	18.92	83.84	86.68	06-Nov-16 17:00:00		10.35	18.92	83.84	87.97
06-Nov-16 18:00:00	06-Nov-16 19:00:00		0.00	0.00	0.00	4.29	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	06-Nov-16 18:00:00		10.35	18.92	83.84	88.09
06-Nov-16 19:00:00	06-Nov-16 20:00:00		0.00	0.00	0.00	7.86	2.1	329.7		0.00	0.00	0.00	2.59		10.35	18.92	83.84	86.68	06-Nov-16 19:00:00		10.35	18.92	83.84	89.27
06-Nov-16 20:00:00	06-Nov-16 21:00:00		1.24	0.00	0.00	4.64	2.1	329.7		0.41	0.00	0.00	1.53		10.35	18.92	83.84	86.68	06-Nov-16 20:00:00		10.76	18.92	83.84	88.21
06-Nov-16 21:00:00	06-Nov-16 22:00:00		7.87	0.00	0.00	4.74	2.1	329.7		2.59	0.00	0.00	1.56		10.35	18.92	83.84	86.68	06-Nov-16 21:00:00		12.94	18.92	83.84	88.24
06-Nov-16 22:00:00	06-Nov-16 23:00:00		0.00	0.00	0.00	12.01	2.1	329.7		0.00	0.00	0.00	3.96		10.35	18.92	83.84	86.68	06-Nov-16 22:00:00		10.35	18.92	83.84	90.64
06-Nov-16 23:00:00	07-Nov-16 00:00:00		1.64	0.00	0.00	5.00	2.1	329.7		0.54	0.00	0.00	1.65		10.35	18.92	83.84	86.68	06-Nov-16 23:00:00		10.89	18.92	83.84	88.33
07-Nov-16 00:00:00	07-Nov-16 01:00:00		0.07	0.00	0.00	5.09	2.1	329.7		0.02	0.00	0.00	1.68		10.35	18.92	83.84	86.68	07-Nov-16 00:00:00		10.37	18.92	83.84	88.36
07-Nov-16 01:00:00	07-Nov-16 02:00:00		0.10	0.00	0.00	77.78	2.1	329.7		0.03	0.00	0.00	25.64		10.35	18.92	83.84	86.68	07-Nov-16 01:00:00		10.38	18.92	83.84	112.32
07-Nov-16 02:00:00	07-Nov-16 03:00:00		0.93	0.00	0.00	5.36	2.1	329.7		0.31	0.00	0.00	1.77		10.35	18.92	83.84	86.68	07-Nov-16 02:00:00		10.66	18.92	83.84	88.45
07-Nov-16 03:00:00	07-Nov-16 04:00:00		1.41	0.00	0.00	5.46	2.1	329.7		0.47	0.00	0.00	1.80		10.35	18.92	83.84	86.68	07-Nov-16 03:00:00		10.82	18.92	83.84	88.48
07-Nov-16 04:00:00	07-Nov-16 05:00:00		0.00	0.00	0.00	5.56	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	07-Nov-16 04:00:00		10.35	18.92	83.84	88.51
07-Nov-16 05:00:00	07-Nov-16 06:00:00		0.00	0.00	0.00	45.91	2.1	329.7		0.00	0.00	0.00	15.14		10.35	18.92	83.84	86.68	07-Nov-16 05:00:00		10.35	18.92	83.84	101.82
07-Nov-16 06:00:00	07-Nov-16 07:00:00		0.00	0.00	0.00	5.54	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	07-Nov-16 06:00:00		10.35	18.92	83.84	88.51
07-Nov-16 07:00:00	07-Nov-16 08:00:00		0.00	0.00	0.00	5.37	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	07-Nov-16 07:00:00		10.35	18.92	83.84	88.45
07-Nov-16 08:00:00	07-Nov-16 09:00:00		0.00	0.00	0.00	5.20	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	07-Nov-16 08:00:00		10.35	18.92	83.84	88.39
07-Nov-16 09:00:00	07-Nov-16 10:00:00		0.00	0.00	0.00	5.01	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	07-Nov-16 09:00:00		10.35	18.92	83.84	88.33
07-Nov-16 10:00:00	07-Nov-16 11:00:00		0.25	0.00	0.00	4.74	2.1	329.7		0.08	0.00	0.00	1.56		10.35	18.92	83.84	86.68	07-Nov-16 10:00:00		10.43	18.92	83.84	88.24
07-Nov-16 11:00:00	07-Nov-16 12:00:00		9.71	0.00	0.00	28.07	2.1	329.7		3.20	0.00	0.00	9.26		10.35	18.92	83.84	86.68	07-Nov-16 11:00:00		13.55	18.92	83.84	95.94
07-Nov-16 12:00:00	07-Nov-16 13:00:00		105.11	0.00	0.00	4.37	2.1	329.7		34.66	0.00	0.00	1.44		10.35	18.92	83.84	86.68	07-Nov-16 12:00:00		45.01	18.92	83.84	88.12
07-Nov-16 13:00:00	07-Nov-16 14:00:00		484.89	0.00	0.00	4.24	2.1	329.7		159.87	0.00	0.00	1.40		10.35	18.92	83.84	86.68	07-Nov-16 13:00:00		170.22	18.92	83.84	88.08
07-Nov-16 14:00:00	07-Nov-16 15:00:00		0.00	0.00	0.00	4.12	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	07-Nov-16 14:00:00		10.35	18.92	83.84	88.04
07-Nov-16 15:00:00	07-Nov-16 16:00:00		0.00	0.00	0.00	21.85	2.1	329.7		0.00	0.00	0.00	7.20		10.35	18.92	83.84	86.68	07-Nov-16 15:00:00		10.35	18.92	83.84	93.88
07-Nov-16 16:00:00	07-Nov-16 17:00:00		0.00	0.00	0.00	3.91	2.1	329.7		0.00	0.00	0.00	1.29		10.35	18.92	83.84	86.68	07-Nov-16 16:00:00		10.35	18.92	83.84	87.97
07-Nov-16 17:00:00	07-Nov-16 18:00:00		0.00	0.00	0.00	3.94	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	07-Nov-16 17:00:00		10.35	18.92	83.84	87.98
07-Nov-16 18:00:00	07-Nov-16 19:00:00		0.00	0.00	0.00	28.44	2.1	329.7		0.00	0.00	0.00	9.38		10.35	18.92	83.84	86.68	07-Nov-16 18:00:00		10.35	18.92	83.84	96.06
07-Nov-16 19:00:00	07-Nov-16 20:00:00		3.49	0.00	0.00	4.36	2.1	329.7		1.15	0.00	0.00	1.44		10.35	18.92	83.84	86.68	07-Nov-16 19:00:00		11.50	18.92	83.84	88.12
07-Nov-16 20:00:00	07-Nov-16 21:00:00		1.65	0.00	0.00	4.64	2.1	329.7		0.54	0.00	0.00	1.53		10.35	18.92	83.84	86.68	07-Nov-16 20:00:00		10.89	18.92	83.84	88.21
07-Nov-16 21:00:00	07-Nov-16 22:00:00		1.58	0.00	0.00	4.92	2.1	329.7		0.52	0.00	0.00	1.62		10.35	18.92	83.84	86.68	07-Nov-16 21:00:00		10.87	18.92	83.84	88.30
07-Nov-16 22:00:00	07-Nov-16 23:00:00		0.95	0.00	0.00	13.42	2.1	329.7		0.31	0.00	0.00	4.42		10.35	18.92	83.84	86.68	07-Nov-16 22:00:00		10.66	18.92	83.84	91.10
07-Nov-16 23:00:00	08-Nov-16 00:00:00		0.00	0.00	0.00	5.15	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	07-Nov-16 23:00:00		10.35	18.92	83.84	88.38
08-Nov-16 00:00:00	08-Nov-16 01:00:00		0.00	0.00	0.00	5.25	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	08-Nov-16 00:00:00		10.35	18.92	83.84	88.41
08-Nov-16 01:00:00	08-Nov-16 02:00:00		0.00	0.00	0.00	11.02	2.1	329.7		0.00	0.00	0.00	3.63		10.35	18.92	83.84	86.68	08-Nov-16 01:00:00		10.35	18.92	83.84	90.31
08-Nov-16 02:00:00	08-Nov-16 03:00:00		0.00	0.00	0.00	5.42	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	08-Nov-16 02:00:00		10.35	18.92	83.84	88.47
08-Nov-16 03:00:00	08-Nov-16 04:00:00		0.00	0.00	0.00	7.79	2.1	329.7		0.00	0.00	0.00	2.57		10.35	18.92	83.84	86.68	08-Nov-16 03:00:00		10.35	18.92	83.84	89.25
08-Nov-16 04:00:00	08-Nov-16 05:00:00		0.00	0.00	0.00	5.65	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	08-Nov-16 04:00:00		10.35	18.92	83.84	88.54
08-Nov-16 05:00:00	08-Nov-16 06:00:00		0.65	0.00	0.00	5.66	2.1	329.7		0.21	0.00	0.00	1.87		10.35	18.92	83.84	86.68	08-Nov-16 05:00:00		10.56	18.92	83.84	88.55
08-Nov-16 06:00:00	08-Nov-16 07:00:00		0.24	0.00	0.00	5.67	2.1	329.7		0.08	0.00	0.00	1.87		10.35	18.92	83.84	86.68	08-Nov-16 06:00:00		10.43	18.92	83.84	88.55
08-Nov-16 07:00:00	08-Nov-16 08:00:00		3.48	0.00	0.00	8.88	2.1	329.7		1.15	0.00	0.00	2.93		10.35	18.92	83.84	86.68	08-Nov-16 07:00:00		11.50	18.92	83.84	89.61
08-Nov-16 08:00:00	08-Nov-16 09:00:00		6.50	0.00	0.00	5.32	2.1	329.7		2.14	0.00	0.00	1.75		10.35	18.92	83.84	86.68	08-Nov-16 08:00:00		12.49	18.92	83.84	88.43
08-Nov-16 09:00:00	08-Nov-16 10:00:00		5.35	0.00	0.00	4.95	2.1	329.7		1.76	0.00	0.00	1.63		10.35	18.92	83.84	86.68	08-Nov-16 09:00:00		12.11	18.92	83.84	88.31
08-Nov-16 10:00:00	08-Nov-16 11:00:00		1.59	0.00	0.00	9.12	2.1	329.7		0.52	0.00	0.00	3.01		10.35	18.92	83.84	86.68	08-Nov-16 10:00:00		10.87	18.92	83.84	89.69
08-Nov-16 11:00:00	08-Nov-16 12:00:00		1.68	0.00	0.00	4.23	2.1	329.7		0.56	0.00	0.00	1.40		10.35	18.92	83.84	86.68	08-Nov-16 11:00:00		10.91	18.92	83.84	88.08
08-Nov-16 12:00:00	08-Nov-16 13:00:00		1.59	0.00	0.00	11.42	2.1	329.7		0.52	0.00	0.00	3.77		10.35	18.92	83.84	86.68	08-Nov-16 12:00:00		10.87	18.92	83.84	90.45
08-Nov-16 13:00:00	08-Nov-16 14:00:00		5.77	0.00	0.00	3.82	2.1	329.7		1.90	0.00	0.00	1.26		10.35	18.92	83.84	86.68	08-Nov-16 13:00:00		12.25	18.92	83.84	87.94
08-Nov-16 14:00:00	08-Nov-16 15:00:00		2.15	0.00	0.00	3.70	2.1	329.7		0.71	0.00	0.00	1.22		10.35	18.92	83.84	86.68	08-Nov-16 14:00:00		11.06	18.92	83.84	87.90
08-Nov-16 15:00:00	08-Nov-16 16:00:00		0.00	0.00	0.00	3.59	2.1	329.7		0.00	0.00	0.00	1.18		10.35	18.92	83.84	86.68	08-Nov-16 15:00:00		10.35	18.92	83.84	87.86
08-Nov-16 16:00:00	08-Nov-16 17:00:00		0.00	0.00	0.00	3.50	2.1	329.7		0.00	0.00	0.00	1.15		10.35	18.92	83.84	86.68	08-Nov-16 16:00:00		10.35	18.92	83.84	87.83
08-Nov-16 17:00:00	08-Nov-16 18:00:00		0.00	0.00	0.00	8.72	2.1	329.7		0.00	0.00	0.00	2.87		10.35	18.92	83.84	86.68	08-Nov-16 17:00:00		10.35	18.92	83.84	89.55
08-Nov-16 18:00:00	08-Nov-16 19:00:00		0.00	0.00	0.00	3.85	2.1	329.7		0.00	0.00	0.00	1.27		10.35	18.92	83.84	86.68	08-Nov-16 18:00:00		10.35	18.92	83.84	87.95
08-Nov-16 19:00:00	08-Nov-16 20:00:00		0.00	0.00	0.00	4.03	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	08-Nov-16 19:00:00		10.35	18.92	83.84	88.01
08-Nov-16 20:00:00	08-Nov-16 21:00:00		0.00	0.00	0.00	11.27	2.1	329.7		0.00	0.00	0.00	3.71		10.35	18.92	83.84	86.68	08-Nov-16 20:00:00		10.35	18.92	83.84	90.39
08-Nov-16 21:00:00	08-Nov-16 22:00:00		0.00	0.00	0.00	16.83	2.1	329.7		0.00	0.00	0.00	5.55		10.35	18.92	83.84	86.68	08-Nov-16 21:00:00		10.35	18.92	83.84	92.23
08-Nov-16 22:00:00	08-Nov-16 23:00:00		12.43	0.00	0.00	4.46	2.1	329.7		4.10	0.00	0.00	1.47		10.35	18.92	83.84	86.68	08-Nov-16 22:00:00		14.45	18.92	83.84	88.15
08-Nov-16 23:00:00	09-Nov-16 00:00:00		311.30	0.00	0.00	4.50	2.1	329.7		102.64	0.00	0.00	1.48		10.35	18.92	83.84	86.68	08-Nov-16 23:00:00		112.99	18.92	83.84	88.16
09-Nov-16 00:00:00	09-Nov-16 01:00:00		738.04	0.00	0.00	4.53	2.1	329.7		243.33	0.00	0.00	1.49		10.35	18.92	83.84	86.68	09-Nov-16 00:00:00		253.68	18.92	83.84	88.17
09-Nov-16 01:00:00	09-Nov-16 02:00:00		737.54	0.00	0.00	4.54	2.1	329.7		243.17	0.00	0.00	1.50		10.35	18.92	83.84	86.68	09-Nov-16 01:00:00		253.52	18.92	83.84	88.18
09-Nov-16 02:00:00	09-Nov-16 03:00:00		427.32	0.00	0.00	4.58	2.1	329.7		140.89	0.00	0.00	1.51		10.35	18.92	83.84	86.68	09-Nov-16 02:00:00		151.24	18.92	83.84	88.19
09-Nov-16 03:00:00	09-Nov-16 04:00:00		0.73	0.00	0.00	4.63	2.1	329.7		0.24	0.00	0.00	1.53		10.35	18.92	83.84	86.68	09-Nov-16 03:00:00		10.59	18.92	83.84	88.21
09-Nov-16 04:00:00	09-Nov-16 05:00:00		2.33	0.00	0.00	4.68	2.1	329.7		0.77	0.00	0.00	1.54		10.35	18.92	83.84	86.68	09-Nov-16 04:00:00		11.12	18.92	83.84	88.22
09-Nov-16 05:00:00	09-Nov-16 06:00:00		3.19	0.00	0.00	4.82	2.1	329.7		1.05	0.00	0.00	1.59		10.35	18.92	83.84	86.68	09-Nov-16 05:00:00		11.40	18.92	83.84	88.27
09-Nov-16 06:00:00	09-Nov-16 07:00:00		0.00	0.00	0.00	4.83	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	09-Nov-16 06:00:00		10.35	18.92	83.84	88.27
09-Nov-16 07:00:00	09-Nov-16 08:00:00		0.00	0.00	0.00	4.82	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	09-Nov-16 07:00:00		10.35	18.92	83.84	88.27
09-Nov-16 08:00:00	09-Nov-16 09:00:00		0.00	0.00	0.00	4.80	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	09-Nov-16 08:00:00		10.35	18.92	83.84	88.26
09-Nov-16 09:00:00	09-Nov-16 10:00:00		0.07	0.00	0.00	4.72	2.1	329.7		0.02	0.00	0.00	1.56		10.35	18.92	83.84	86.68	09-Nov-16 09:00:00		10.37	18.92	83.84	88.24
09-Nov-16 10:00:00	09-Nov-16 11:00:00		0.40	0.00	0.00	100.75	2.1	329.7		0.13	0.00	0.00	33.22		10.35	18.92	83.84	86.68	09-Nov-16 10:00:00		10.48	18.92	83.84	119.90
09-Nov-16 11:00:00	09-Nov-16 12:00:00		0.60	0.00	0.00	18.86	2.1	329.7		0.20	0.00	0.00	6.22		10.35	18.92	83.84	86.68	09-Nov-16 11:00:00		10.55	18.92	83.84	92.90
09-Nov-16 12:00:00	09-Nov-16 13:00:00		0.00	0.00	0.00	3.68	2.1	329.7		0.00	0.00	0.00	1.21		10.35	18.92	83.84	86.68	09-Nov-16 12:00:00		10.35	18.92	83.84	87.89
09-Nov-16 13:00:00	09-Nov-16 14:00:00		0.00	0.00	0.00	3.47	2.1	329.7		0.00	0.00	0.00	1.14		10.35	18.92	83.84	86.68	09-Nov-16 13:00:00		10.35	18.92	83.84	87.82
09-Nov-16 14:00:00	09-Nov-16 15:00:00		0.00	0.00	0.00	93.75	2.1	329.7		0.00	0.00	0.00	30.91		10.35	18.92	83.84	86.68	09-Nov-16 14:00:00		10.35	18.92	83.84	117.59
09-Nov-16 15:00:00	09-Nov-16 16:00:00		0.00	0.00	0.00	3.41	2.1	329.7		0.00	0.00	0.00	1.12		10.35	18.92	83.84	86.68	09-Nov-16 15:00:00		10.35	18.92	83.84	87.80
09-Nov-16 16:00:00	09-Nov-16 17:00:00		0.00	0.00	0.00	3.43	2.1	329.7		0.00	0.00	0.00	1.13		10.35	18.92	83.84	86.68	09-Nov-16 16:00:00		10.35	18.92	83.84	87.81
09-Nov-16 17:00:00	09-Nov-16 18:00:00		0.00	0.00	0.00	5.02

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
11-Nov-16 19:00:00	11-Nov-16 20:00:00		0.00	0.00	0.00	65.35	2.1	329.7		0.00	0.00	0.00	21.55		10.35	18.92	83.84	86.68	11-Nov-16 19:00:00		10.35	18.92	83.84	108.23
11-Nov-16 20:00:00	11-Nov-16 21:00:00		0.99	0.00	0.00	4.27	2.1	329.7		0.33	0.00	0.00	1.41		10.35	18.92	83.84	86.68	11-Nov-16 20:00:00		10.68	18.92	83.84	88.09
11-Nov-16 21:00:00	11-Nov-16 22:00:00		0.00	0.00	0.00	35.65	2.1	329.7		0.00	0.00	0.00	11.75		10.35	18.92	83.84	86.68	11-Nov-16 21:00:00		10.35	18.92	83.84	98.43
11-Nov-16 22:00:00	11-Nov-16 23:00:00		0.00	0.00	0.00	8.38	2.1	329.7		0.00	0.00	0.00	2.76		10.35	18.92	83.84	86.68	11-Nov-16 22:00:00		10.35	18.92	83.84	89.44
11-Nov-16 23:00:00	12-Nov-16 00:00:00		0.00	0.00	0.00	4.52	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	11-Nov-16 23:00:00		10.35	18.92	83.84	88.17
12-Nov-16 00:00:00	12-Nov-16 01:00:00		0.00	0.00	0.00	4.58	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	12-Nov-16 00:00:00		10.35	18.92	83.84	88.19
12-Nov-16 01:00:00	12-Nov-16 02:00:00		0.00	0.00	0.00	6.41	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	12-Nov-16 01:00:00		10.35	18.92	83.84	88.79
12-Nov-16 02:00:00	12-Nov-16 03:00:00		0.00	0.00	0.00	4.70	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	12-Nov-16 02:00:00		10.35	18.92	83.84	88.23
12-Nov-16 03:00:00	12-Nov-16 04:00:00		0.00	0.00	0.00	4.86	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	12-Nov-16 03:00:00		10.35	18.92	83.84	88.28
12-Nov-16 04:00:00	12-Nov-16 05:00:00		0.00	0.00	0.00	5.02	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	12-Nov-16 04:00:00		10.35	18.92	83.84	88.34
12-Nov-16 05:00:00	12-Nov-16 06:00:00		1.60	0.00	0.00	36.34	2.1	329.7		0.53	0.00	0.00	11.98		10.35	18.92	83.84	86.68	12-Nov-16 05:00:00		10.88	18.92	83.84	98.66
12-Nov-16 06:00:00	12-Nov-16 07:00:00		1.25	0.00	0.00	5.25	2.1	329.7		0.41	0.00	0.00	1.73		10.35	18.92	83.84	86.68	12-Nov-16 06:00:00		10.76	18.92	83.84	88.41
12-Nov-16 07:00:00	12-Nov-16 08:00:00		0.80	0.00	0.00	5.30	2.1	329.7		0.26	0.00	0.00	1.75		10.35	18.92	83.84	86.68	12-Nov-16 07:00:00		10.61	18.92	83.84	88.43
12-Nov-16 08:00:00	12-Nov-16 09:00:00		0.36	0.00	0.00	5.36	2.1	329.7		0.12	0.00	0.00	1.77		10.35	18.92	83.84	86.68	12-Nov-16 08:00:00		10.47	18.92	83.84	88.45
12-Nov-16 09:00:00	12-Nov-16 10:00:00		0.02	0.00	0.00	5.14	2.1	329.7		0.01	0.00	0.00	1.69		10.35	18.92	83.84	86.68	12-Nov-16 09:00:00		10.36	18.92	83.84	88.37
12-Nov-16 10:00:00	12-Nov-16 11:00:00		0.00	0.00	0.00	4.97	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	12-Nov-16 10:00:00		10.35	18.92	83.84	88.32
12-Nov-16 11:00:00	12-Nov-16 12:00:00		0.00	0.00	0.00	6.24	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	12-Nov-16 11:00:00		10.35	18.92	83.84	88.74
12-Nov-16 12:00:00	12-Nov-16 13:00:00		0.00	0.00	0.00	4.59	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	12-Nov-16 12:00:00		10.35	18.92	83.84	88.19
12-Nov-16 13:00:00	12-Nov-16 14:00:00		0.00	0.00	0.00	16.64	2.1	329.7		0.00	0.00	0.00	5.49		10.35	18.92	83.84	86.68	12-Nov-16 13:00:00		10.35	18.92	83.84	92.17
12-Nov-16 14:00:00	12-Nov-16 15:00:00		0.00	0.00	0.00	4.39	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	12-Nov-16 14:00:00		10.35	18.92	83.84	88.13
12-Nov-16 15:00:00	12-Nov-16 16:00:00		0.00	0.00	0.00	4.32	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	12-Nov-16 15:00:00		10.35	18.92	83.84	88.10
12-Nov-16 16:00:00	12-Nov-16 17:00:00		0.00	0.00	0.00	4.24	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	12-Nov-16 16:00:00		10.35	18.92	83.84	88.08
12-Nov-16 17:00:00	12-Nov-16 18:00:00		0.00	0.00	0.00	4.25	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	12-Nov-16 17:00:00		10.35	18.92	83.84	88.08
12-Nov-16 18:00:00	12-Nov-16 19:00:00		0.00	0.00	0.00	4.44	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	12-Nov-16 18:00:00		10.35	18.92	83.84	88.14
12-Nov-16 19:00:00	12-Nov-16 20:00:00		0.00	0.00	0.00	27.20	2.1	329.7		0.00	0.00	0.00	8.97		10.35	18.92	83.84	86.68	12-Nov-16 19:00:00		10.35	18.92	83.84	95.65
12-Nov-16 20:00:00	12-Nov-16 21:00:00		0.00	0.00	0.00	5.05	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	12-Nov-16 20:00:00		10.35	18.92	83.84	88.34
12-Nov-16 21:00:00	12-Nov-16 22:00:00		0.00	0.00	0.00	27.38	2.1	329.7		0.00	0.00	0.00	9.03		10.35	18.92	83.84	86.68	12-Nov-16 21:00:00		10.35	18.92	83.84	95.71
12-Nov-16 22:00:00	12-Nov-16 23:00:00		0.00	0.00	0.00	13.46	2.1	329.7		0.00	0.00	0.00	4.44		10.35	18.92	83.84	86.68	12-Nov-16 22:00:00		10.35	18.92	83.84	91.12
12-Nov-16 23:00:00	13-Nov-16 00:00:00		0.00	0.00	0.00	5.61	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	12-Nov-16 23:00:00		10.35	18.92	83.84	88.53
13-Nov-16 00:00:00	13-Nov-16 01:00:00		0.00	0.00	0.00	5.62	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	13-Nov-16 00:00:00		10.35	18.92	83.84	88.53
13-Nov-16 01:00:00	13-Nov-16 02:00:00		0.38	0.00	0.00	5.63	2.1	329.7		0.13	0.00	0.00	1.86		10.35	18.92	83.84	86.68	13-Nov-16 01:00:00		10.48	18.92	83.84	88.54
13-Nov-16 02:00:00	13-Nov-16 03:00:00		2.08	0.00	0.00	5.64	2.1	329.7		0.69	0.00	0.00	1.86		10.35	18.92	83.84	86.68	13-Nov-16 02:00:00		11.04	18.92	83.84	88.54
13-Nov-16 03:00:00	13-Nov-16 04:00:00		8.74	0.00	0.00	5.65	2.1	329.7		2.88	0.00	0.00	1.86		10.35	18.92	83.84	86.68	13-Nov-16 03:00:00		13.23	18.92	83.84	88.54
13-Nov-16 04:00:00	13-Nov-16 05:00:00		0.00	0.00	0.00	5.65	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	13-Nov-16 04:00:00		10.35	18.92	83.84	88.54
13-Nov-16 05:00:00	13-Nov-16 06:00:00		3.26	0.00	0.00	11.33	2.1	329.7		1.08	0.00	0.00	3.74		10.35	18.92	83.84	86.68	13-Nov-16 05:00:00		11.43	18.92	83.84	90.42
13-Nov-16 06:00:00	13-Nov-16 07:00:00		9.56	0.00	0.00	13.41	2.1	329.7		3.15	0.00	0.00	4.42		10.35	18.92	83.84	86.68	13-Nov-16 06:00:00		13.50	18.92	83.84	91.10
13-Nov-16 07:00:00	13-Nov-16 08:00:00		9.27	0.00	0.00	5.61	2.1	329.7		3.06	0.00	0.00	1.85		10.35	18.92	83.84	86.68	13-Nov-16 07:00:00		13.41	18.92	83.84	88.53
13-Nov-16 08:00:00	13-Nov-16 09:00:00		6.46	0.00	0.00	11.92	2.1	329.7		2.13	0.00	0.00	3.93		10.35	18.92	83.84	86.68	13-Nov-16 08:00:00		12.48	18.92	83.84	90.61
13-Nov-16 09:00:00	13-Nov-16 10:00:00		5.64	0.00	0.00	5.63	2.1	329.7		1.86	0.00	0.00	1.86		10.35	18.92	83.84	86.68	13-Nov-16 09:00:00		12.21	18.92	83.84	88.54
13-Nov-16 10:00:00	13-Nov-16 11:00:00		4.64	0.00	0.00	5.60	2.1	329.7		1.53	0.00	0.00	1.85		10.35	18.92	83.84	86.68	13-Nov-16 10:00:00		11.88	18.92	83.84	88.53
13-Nov-16 11:00:00	13-Nov-16 12:00:00		1.35	0.00	0.00	5.57	2.1	329.7		0.44	0.00	0.00	1.84		10.35	18.92	83.84	86.68	13-Nov-16 11:00:00		10.79	18.92	83.84	88.52
13-Nov-16 12:00:00	13-Nov-16 13:00:00		0.13	0.00	0.00	5.54	2.1	329.7		0.04	0.00	0.00	1.83		10.35	18.92	83.84	86.68	13-Nov-16 12:00:00		10.39	18.92	83.84	88.51
13-Nov-16 13:00:00	13-Nov-16 14:00:00		0.00	0.00	0.00	5.42	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	13-Nov-16 13:00:00		10.35	18.92	83.84	88.47
13-Nov-16 14:00:00	13-Nov-16 15:00:00		0.00	0.00	0.00	5.27	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	13-Nov-16 14:00:00		10.35	18.92	83.84	88.42
13-Nov-16 15:00:00	13-Nov-16 16:00:00		1.63	0.00	0.00	5.12	2.1	329.7		0.54	0.00	0.00	1.69		10.35	18.92	83.84	86.68	13-Nov-16 15:00:00		10.89	18.92	83.84	88.37
13-Nov-16 16:00:00	13-Nov-16 17:00:00		3.99	0.00	0.00	88.24	2.1	329.7		1.31	0.00	0.00	29.09		10.35	18.92	83.84	86.68	13-Nov-16 16:00:00		11.66	18.92	83.84	115.77
13-Nov-16 17:00:00	13-Nov-16 18:00:00		7.19	0.00	0.00	5.10	2.1	329.7		2.37	0.00	0.00	1.68		10.35	18.92	83.84	86.68	13-Nov-16 17:00:00		12.72	18.92	83.84	88.36
13-Nov-16 18:00:00	13-Nov-16 19:00:00		0.00	0.00	0.00	5.11	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	13-Nov-16 18:00:00		10.35	18.92	83.84	88.36
13-Nov-16 19:00:00	13-Nov-16 20:00:00		0.00	0.00	0.00	27.42	2.1	329.7		0.00	0.00	0.00	9.04		10.35	18.92	83.84	86.68	13-Nov-16 19:00:00		10.35	18.92	83.84	95.72
13-Nov-16 20:00:00	13-Nov-16 21:00:00		0.00	0.00	0.00	4.85	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	13-Nov-16 20:00:00		10.35	18.92	83.84	88.28
13-Nov-16 21:00:00	13-Nov-16 22:00:00		0.00	0.00	0.00	94.99	2.1	329.7		0.00	0.00	0.00	31.32		10.35	18.92	83.84	86.68	13-Nov-16 21:00:00		10.35	18.92	83.84	118.00
13-Nov-16 22:00:00	13-Nov-16 23:00:00		0.00	0.00	0.00	4.83	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	13-Nov-16 22:00:00		10.35	18.92	83.84	88.27
13-Nov-16 23:00:00	14-Nov-16 00:00:00		0.00	0.00	0.00	4.73	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	13-Nov-16 23:00:00		10.35	18.92	83.84	88.24
14-Nov-16 00:00:00	14-Nov-16 01:00:00		0.00	0.00	0.00	4.63	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	14-Nov-16 00:00:00		10.35	18.92	83.84	88.21
14-Nov-16 01:00:00	14-Nov-16 02:00:00		0.00	0.00	0.00	5.29	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	14-Nov-16 01:00:00		10.35	18.92	83.84	88.42
14-Nov-16 02:00:00	14-Nov-16 03:00:00		0.00	0.00	0.00	4.60	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	14-Nov-16 02:00:00		10.35	18.92	83.84	88.20
14-Nov-16 03:00:00	14-Nov-16 04:00:00		0.00	0.00	0.00	4.69	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	14-Nov-16 03:00:00		10.35	18.92	83.84	88.23
14-Nov-16 04:00:00	14-Nov-16 05:00:00		0.00	0.00	0.00	4.77	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	14-Nov-16 04:00:00		10.35	18.92	83.84	88.25
14-Nov-16 05:00:00	14-Nov-16 06:00:00		0.00	0.00	0.00	4.86	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	14-Nov-16 05:00:00		10.35	18.92	83.84	88.28
14-Nov-16 06:00:00	14-Nov-16 07:00:00		0.00	0.00	0.00	4.91	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	14-Nov-16 06:00:00		10.35	18.92	83.84	88.30
14-Nov-16 07:00:00	14-Nov-16 08:00:00		0.00	0.00	0.00	5.09	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	14-Nov-16 07:00:00		10.35	18.92	83.84	88.36
14-Nov-16 08:00:00	14-Nov-16 09:00:00		0.00	0.00	0.00	4.69	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	14-Nov-16 08:00:00		10.35	18.92	83.84	88.23
14-Nov-16 09:00:00	14-Nov-16 10:00:00		0.00	0.00	0.00	83.94	2.1	329.7		0.00	0.00	0.00	27.68		10.35	18.92	83.84	86.68	14-Nov-16 09:00:00		10.35	18.92	83.84	114.36
14-Nov-16 10:00:00	14-Nov-16 11:00:00		0.49	0.00	0.00	4.13	2.1	329.7		0.16	0.00	0.00	1.36		10.35	18.92	83.84	86.68	14-Nov-16 10:00:00		10.51	18.92	83.84	88.04
14-Nov-16 11:00:00	14-Nov-16 12:00:00		0.73	0.00	0.00	46.08	2.1	329.7		0.24	0.00	0.00	15.19		10.35	18.92	83.84	86.68	14-Nov-16 11:00:00		10.59	18.92	83.84	101.87
14-Nov-16 12:00:00	14-Nov-16 13:00:00		1.79	0.00	0.00	3.69	2.1	329.7		0.59	0.00	0.00	1.22		10.35	18.92	83.84	86.68	14-Nov-16 12:00:00		10.94	18.92	83.84	87.90
14-Nov-16 13:00:00	14-Nov-16 14:00:00		0.93	0.00	0.00	3.53	2.1	329.7		0.31	0.00	0.00	1.16		10.35	18.92	83.84	86.68	14-Nov-16 13:00:00		10.66	18.92	83.84	87.84
14-Nov-16 14:00:00	14-Nov-16 15:00:00		3.15	0.00	0.00	3.36	2.1	329.7		1.04	0.00	0.00	1.11		10.35	18.92	83.84	86.68	14-Nov-16 14:00:00		11.39	18.92	83.84	87.79
14-Nov-16 15:00:00	14-Nov-16 16:00:00		7.31	0.00	0.00	113.31	2.1	329.7		2.41	0.00	0.00	37.36		10.35	18.92	83.84	86.68	14-Nov-16 15:00:00		12.76	18.92	83.84	124.04
14-Nov-16 16:00:00	14-Nov-16 17:00:00		0.00	0.00	0.00	3.38	2.1	329.7		0.00	0.00	0.00	1.11		10.35	18.92	83.84	86.68	14-Nov-16 16:00:00		10.35	18.92	83.84	87.79
14-Nov-16 17:00:00	14-Nov-16 18:00:00		0.00	0.00	0.00	3.96	2.1	329.7		0.00	0.00	0.00	1.31		10.35	18.92	83.84	86.68	14-Nov-16 17:00:00		10.35	18.92	83.84	87.99
14-Nov-16 18:00:00	14-Nov-16 19:00:00		0.00	0.00	0.00	3.70	2.1	329.7		0.00	0.00	0.00	1.22		10.35	18.92	83.84	86.68	14-Nov-16 18:00:00		10.35	18.92	83.84	87.90
14-Nov-16 19:00:00	14-Nov-16 20:00:00		0.05	0.00	0.00	4.01	2.1	329.7		0.02	0.00	0.00	1.32		10.35	18.92	83.84	86.68	14-Nov-16 19:00:00		10.37	18.92	83.84	88.00
14-Nov-16 20:00:00	14-Nov-16 21:00:00		0.00	0.00	0.00	4.32	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	14-Nov-16 20:00:00		10.35	18.92	83.84	88.10
14-Nov-16 21:00:00	14-Nov-16 22:00:00		2.46	0.00	0.00	4.60	2.1	329.7		0.81	0.00	0.00	1.52		10.35	18.92	83.84	86.68	14-Nov-16 21:00:00		11.16	18.92	83.84	88.20
14-Nov-16 22:00:00	14-Nov-16 23:00:00		1.54	0.00	0.00	4.76	2.1	329.7		0.51	0.00	0.00	1.57		10.35	18.92	83.84	86.68	14-Nov-16 22:00:00		10.86	18.92	83.84	88.25
14-Nov-16 23:00:00	15-Nov-16 00:00:00		0.96	0.00	0.00	4.90	2.1	329.7		0.32	0.00	0.00	1.62		10.35	18.92	83.84	86.68	14-Nov-16 23:00:00		10.67	18.92	83.84	88.30
15-Nov-16 00:00:00	15-Nov-16 01:00:00		0.38	0.00	0.00	6.09	2.1	329.7		0.12	0.00	0.00	2.01		10.35	18.92	83.84	86.68	15-Nov-16 00:00:00		10.47	18.92	83.84	88.69
15-Nov-16 01:00:00	15-Nov-16 02:00:00		0.01	0.00	0.00	5.10	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	15-Nov-16 01:00:00		10.35	18.92	83.84	88.36
15-Nov-16 02:00:00	15-Nov-16 03:00:00		0.00	0.00	0.00	5.13	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	15-Nov-16 02:00:00		10.35	18.92	83.84	88.37
15-Nov-16 03:00:00	15-Nov-16 04:00:00		0.00	0.00	0.00	49.13	2.1	329.7		0.00	0.00	0.00	16.20		10.35	18.92	83.84	86.68	15-Nov-16 03:00:00		10.35	18.92	83.84	102.88
15-Nov-16 04:00:00	15-Nov-16 05:00:00		0.00	0.00	0.00	5.29	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	15-Nov-16 04:00:00		10.35	18.92	83.84	88.43
15-Nov-16 05:00:00	15-Nov-16 06:00:00		0.00	0.00	0.00	5.23	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	15-Nov-16 05:00:00		10.35	18.92	83.84	88.40
15-Nov-16 06:00:00	15-Nov-16 07:00:00		0.00	0.00	0.00	7.30	2.1	329.7		0.00	0.00	0.00	2.41		10.35	18.92	83.84	86.68	15-Nov-16 06:00:00		10.35	18.92	83.84	89.09
15-Nov-16 07:00:00	15-Nov-16 08:00:00		0.00	0.00	0.00	5.26	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	15-Nov-16 07:00:00		10.35	18.92	83.84	88.41
15-Nov-16 08:00:00	15-Nov-16 09:00:00		0.00	0.00	0.00	5.15	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	15-Nov-16 08:00:00		10.35	18.92	83.84	88.38
15-Nov-16 09:00:00	15-Nov-16 10:00:00		0.00	0.00	0.00	46.05	2.1	329.7		0.00	0.00	0.00	15.18		10.35	18.92	83.84	86.68	15-Nov-16 09:00:00		10.35	18.92	83.84	101.86
15-Nov-16 10:00:00	15-Nov-16 11:00:00		0.00	0.00	0.00	4.83	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	15-Nov-16 10:00:00		10.35	18.92	83.84	88.27
15-Nov-16 11:00:00	15-Nov-16 12:00:00		0.00	0.00	0.00	4.47	2.1	329.7		0.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	15-Nov-16 11:00:00		10.35	18.92	83.84	88.15
15-Nov-16 12:00:00	15-Nov-16 13:00:00		0.00	0.00	0.00	15.47	2.1	329.7		0.00	0.00	0.00	5.10		10.35	18.92	83.84	86.68	15-Nov-16 12:00:00		10.35	18.92	83.84	91.78
15-Nov-16 13:00:00	15-Nov-16 14:00:00		0.00	0.00	0.00	3.88	2.1	329.7		0.00	0.00	0.00	1.28		10.35	18.92	83.84	86.68	15-Nov-16 13:00:00		10.35	18.92	83.84	87.96
15-Nov-16 14:00:00	15-Nov-16 15:00:00		0.00	0.00	0.00	3.74	2.1	329.7		0.00	0.00	0.00	1.23		10.35	18.92	83.84	86.68	15-Nov-16 14:00:00		10.35	18.92	83.84	87.91
15-Nov-16 15:00:00	15-Nov-16 16:00:00		0.00	0.00	0.00	3.60	2.1	329.7		0.00	0.00	0.00	1.19		10.35	18.92	83.84	86.68	15-Nov-16 15:00:00		10.35	18.92	83.84	87.87
15-Nov-16 16:00:00	15-Nov-16 17:00:00		0.00	0.00	0.00	3.46

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
17-Nov-16 18:00:00	17-Nov-16 19:00:00		0.00	0.00	0.00	3.46	2.1	329.7		0.00	0.00	0.00	1.14		10.35	18.92	83.84	86.68	17-Nov-16 18:00:00		**10.35**	**18.92**	**83.84**	**87.82**
17-Nov-16 19:00:00	17-Nov-16 20:00:00		0.00	0.00	0.00	15.25	2.1	329.7		0.00	0.00	0.00	5.03		10.35	18.92	83.84	86.68	17-Nov-16 19:00:00		**10.35**	**18.92**	**83.84**	**91.71**
17-Nov-16 20:00:00	17-Nov-16 21:00:00		0.29	0.00	0.00	39.54	2.1	329.7		0.09	0.00	0.00	13.04		10.35	18.92	83.84	86.68	17-Nov-16 20:00:00		**10.44**	**18.92**	**83.84**	**99.72**
17-Nov-16 21:00:00	17-Nov-16 22:00:00		0.78	0.00	0.00	9.26	2.1	329.7		0.26	0.00	0.00	3.05		10.35	18.92	83.84	86.68	17-Nov-16 21:00:00		**10.61**	**18.92**	**83.84**	**89.73**
17-Nov-16 22:00:00	17-Nov-16 23:00:00		1.78	0.00	0.00	4.71	2.1	329.7		0.59	0.00	0.00	1.55		10.35	18.92	83.84	86.68	17-Nov-16 22:00:00		**10.94**	**18.92**	**83.84**	**88.23**
17-Nov-16 23:00:00	18-Nov-16 00:00:00		0.00	0.00	0.00	14.10	2.1	329.7		0.00	0.00	0.00	4.65		10.35	18.92	83.84	86.68	17-Nov-16 23:00:00		**10.35**	**18.92**	**83.84**	**91.33**
18-Nov-16 00:00:00	18-Nov-16 01:00:00		0.00	0.00	0.00	4.91	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	18-Nov-16 00:00:00		**10.35**	**18.92**	**83.84**	**88.30**
18-Nov-16 01:00:00	18-Nov-16 02:00:00		0.00	0.00	0.00	4.99	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	18-Nov-16 01:00:00		**10.35**	**18.92**	**83.84**	**88.32**
18-Nov-16 02:00:00	18-Nov-16 03:00:00		0.00	0.00	0.00	5.06	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	18-Nov-16 02:00:00		**10.35**	**18.92**	**83.84**	**88.35**
18-Nov-16 03:00:00	18-Nov-16 04:00:00		0.59	0.00	0.00	6.68	2.1	329.7		0.19	0.00	0.00	2.20		10.35	18.92	83.84	86.68	18-Nov-16 03:00:00		**10.54**	**18.92**	**83.84**	**88.88**
18-Nov-16 04:00:00	18-Nov-16 05:00:00		1.63	0.00	0.00	5.11	2.1	329.7		0.54	0.00	0.00	1.68		10.35	18.92	83.84	86.68	18-Nov-16 04:00:00		**10.89**	**18.92**	**83.84**	**88.36**
18-Nov-16 05:00:00	18-Nov-16 06:00:00		2.34	0.00	0.00	78.05	2.1	329.7		0.77	0.00	0.00	25.73		10.35	18.92	83.84	86.68	18-Nov-16 05:00:00		**11.12**	**18.92**	**83.84**	**112.41**
18-Nov-16 06:00:00	18-Nov-16 07:00:00		1.06	0.00	0.00	5.06	2.1	329.7		0.35	0.00	0.00	1.67		10.35	18.92	83.84	86.68	18-Nov-16 06:00:00		**10.70**	**18.92**	**83.84**	**88.35**
18-Nov-16 07:00:00	18-Nov-16 08:00:00		1.24	0.00	0.00	5.03	2.1	329.7		0.41	0.00	0.00	1.66		10.35	18.92	83.84	86.68	18-Nov-16 07:00:00		**10.76**	**18.92**	**83.84**	**88.34**
18-Nov-16 08:00:00	18-Nov-16 09:00:00		0.05	0.00	0.00	5.01	2.1	329.7		0.02	0.00	0.00	1.65		10.35	18.92	83.84	86.68	18-Nov-16 08:00:00		**10.37**	**18.92**	**83.84**	**88.33**
18-Nov-16 09:00:00	18-Nov-16 10:00:00		0.24	17.03	0.00	23.61	2.1	329.7		0.08	5.62	0.00	7.79		10.35	18.92	83.84	86.68	18-Nov-16 09:00:00		**10.43**	**24.54**	**83.84**	**94.47**
18-Nov-16 10:00:00	18-Nov-16 11:00:00		0.09	0.00	0.00	4.30	2.1	329.7		0.03	0.00	0.00	1.42		10.35	18.92	83.84	86.68	18-Nov-16 10:00:00		**10.38**	**18.92**	**83.84**	**88.10**
18-Nov-16 11:00:00	18-Nov-16 12:00:00		2.69	0.00	0.00	3.78	2.1	329.7		0.89	0.00	0.00	1.25		10.35	18.92	83.84	86.68	18-Nov-16 11:00:00		**11.24**	**18.92**	**83.84**	**87.93**
18-Nov-16 12:00:00	18-Nov-16 13:00:00		0.07	0.00	0.00	3.26	2.1	329.7		0.02	0.00	0.00	1.08		10.35	18.92	83.84	86.68	18-Nov-16 12:00:00		**10.37**	**18.92**	**83.84**	**87.76**
18-Nov-16 13:00:00	18-Nov-16 14:00:00		0.00	0.00	0.00	4.72	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	18-Nov-16 13:00:00		**10.35**	**18.92**	**83.84**	**88.24**
18-Nov-16 14:00:00	18-Nov-16 15:00:00		0.00	0.00	0.00	2.67	2.1	329.7		0.00	0.00	0.00	0.88		10.35	18.92	83.84	86.68	18-Nov-16 14:00:00		**10.35**	**18.92**	**83.84**	**87.56**
18-Nov-16 15:00:00	18-Nov-16 16:00:00		0.00	0.00	0.00	2.51	2.1	329.7		0.00	0.00	0.00	0.83		10.35	18.92	83.84	86.68	18-Nov-16 15:00:00		**10.35**	**18.92**	**83.84**	**87.51**
18-Nov-16 16:00:00	18-Nov-16 17:00:00		0.00	0.00	0.00	112.40	2.1	329.7		0.00	0.00	0.00	37.06		10.35	18.92	83.84	86.68	18-Nov-16 16:00:00		**10.35**	**18.92**	**83.84**	**123.74**
18-Nov-16 17:00:00	18-Nov-16 18:00:00		0.00	0.00	0.00	2.74	2.1	329.7		0.00	0.00	0.00	0.90		10.35	18.92	83.84	86.68	18-Nov-16 17:00:00		**10.35**	**18.92**	**83.84**	**87.58**
18-Nov-16 18:00:00	18-Nov-16 19:00:00		0.00	0.00	0.00	56.16	2.1	329.7		0.00	0.00	0.00	18.52		10.35	18.92	83.84	86.68	18-Nov-16 18:00:00		**10.35**	**18.92**	**83.84**	**105.20**
18-Nov-16 19:00:00	18-Nov-16 20:00:00		0.00	0.00	0.00	3.21	2.1	329.7		0.00	0.00	0.00	1.06		10.35	18.92	83.84	86.68	18-Nov-16 19:00:00		**10.35**	**18.92**	**83.84**	**87.74**
18-Nov-16 20:00:00	18-Nov-16 21:00:00		0.28	0.00	0.00	21.58	2.1	329.7		0.09	0.00	0.00	7.11		10.35	18.92	83.84	86.68	18-Nov-16 20:00:00		**10.44**	**18.92**	**83.84**	**93.79**
18-Nov-16 21:00:00	18-Nov-16 22:00:00		1.05	0.00	0.00	3.72	2.1	329.7		0.34	0.00	0.00	1.23		10.35	18.92	83.84	86.68	18-Nov-16 21:00:00		**10.69**	**18.92**	**83.84**	**87.91**
18-Nov-16 22:00:00	18-Nov-16 23:00:00		1.82	0.00	0.00	3.95	2.1	329.7		0.60	0.00	0.00	1.30		10.35	18.92	83.84	86.68	18-Nov-16 22:00:00		**10.95**	**18.92**	**83.84**	**87.98**
18-Nov-16 23:00:00	19-Nov-16 00:00:00		2.60	0.00	0.00	4.17	2.1	329.7		0.86	0.00	0.00	1.37		10.35	18.92	83.84	86.68	18-Nov-16 23:00:00		**11.21**	**18.92**	**83.84**	**88.05**
19-Nov-16 00:00:00	19-Nov-16 01:00:00		1.13	0.00	0.00	4.35	2.1	329.7		0.37	0.00	0.00	1.44		10.35	18.92	83.84	86.68	19-Nov-16 00:00:00		**10.72**	**18.92**	**83.84**	**88.12**
19-Nov-16 01:00:00	19-Nov-16 02:00:00		0.73	0.00	0.00	4.45	2.1	329.7		0.24	0.00	0.00	1.47		10.35	18.92	83.84	86.68	19-Nov-16 01:00:00		**10.59**	**18.92**	**83.84**	**88.15**
19-Nov-16 02:00:00	19-Nov-16 03:00:00		0.44	0.00	0.00	4.54	2.1	329.7		0.15	0.00	0.00	1.50		10.35	18.92	83.84	86.68	19-Nov-16 02:00:00		**10.50**	**18.92**	**83.84**	**88.18**
19-Nov-16 03:00:00	19-Nov-16 04:00:00		0.16	0.00	0.00	24.27	2.1	329.7		0.05	0.00	0.00	8.00		10.35	18.92	83.84	86.68	19-Nov-16 03:00:00		**10.40**	**18.92**	**83.84**	**94.68**
19-Nov-16 04:00:00	19-Nov-16 05:00:00		0.65	0.00	0.00	4.67	2.1	329.7		0.21	0.00	0.00	1.54		10.35	18.92	83.84	86.68	19-Nov-16 04:00:00		**10.56**	**18.92**	**83.84**	**88.22**
19-Nov-16 05:00:00	19-Nov-16 06:00:00		0.23	0.00	0.00	18.16	2.1	329.7		0.08	0.00	0.00	5.99		10.35	18.92	83.84	86.68	19-Nov-16 05:00:00		**10.43**	**18.92**	**83.84**	**92.67**
19-Nov-16 06:00:00	19-Nov-16 07:00:00		0.11	0.00	0.00	4.75	2.1	329.7		0.04	0.00	0.00	1.57		10.35	18.92	83.84	86.68	19-Nov-16 06:00:00		**10.39**	**18.92**	**83.84**	**88.25**
19-Nov-16 07:00:00	19-Nov-16 08:00:00		0.06	0.00	0.00	4.77	2.1	329.7		0.02	0.00	0.00	1.57		10.35	18.92	83.84	86.68	19-Nov-16 07:00:00		**10.37**	**18.92**	**83.84**	**88.25**
19-Nov-16 08:00:00	19-Nov-16 09:00:00		0.02	0.00	0.00	15.03	2.1	329.7		0.01	0.00	0.00	4.96		10.35	18.92	83.84	86.68	19-Nov-16 08:00:00		**10.36**	**18.92**	**83.84**	**91.64**
19-Nov-16 09:00:00	19-Nov-16 10:00:00		0.00	0.00	0.00	4.30	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	19-Nov-16 09:00:00		**10.35**	**18.92**	**83.84**	**88.10**
19-Nov-16 10:00:00	19-Nov-16 11:00:00		0.26	0.00	0.00	3.95	2.1	329.7		0.08	0.00	0.00	1.30		10.35	18.92	83.84	86.68	19-Nov-16 10:00:00		**10.43**	**18.92**	**83.84**	**87.98**
19-Nov-16 11:00:00	19-Nov-16 12:00:00		0.00	0.00	0.00	35.11	2.1	329.7		0.00	0.00	0.00	11.58		10.35	18.92	83.84	86.68	19-Nov-16 11:00:00		**10.35**	**18.92**	**83.84**	**98.26**
19-Nov-16 12:00:00	19-Nov-16 13:00:00		0.00	0.00	0.00	40.43	2.1	329.7		0.00	0.00	0.00	13.33		10.35	18.92	83.84	86.68	19-Nov-16 12:00:00		**10.35**	**18.92**	**83.84**	**100.01**
19-Nov-16 13:00:00	19-Nov-16 14:00:00		0.00	0.00	0.00	3.42	2.1	329.7		0.00	0.00	0.00	1.13		10.35	18.92	83.84	86.68	19-Nov-16 13:00:00		**10.35**	**18.92**	**83.84**	**87.81**
19-Nov-16 14:00:00	19-Nov-16 15:00:00		0.00	0.00	0.00	11.30	2.1	329.7		0.00	0.00	0.00	3.73		10.35	18.92	83.84	86.68	19-Nov-16 14:00:00		**10.35**	**18.92**	**83.84**	**90.41**
19-Nov-16 15:00:00	19-Nov-16 16:00:00		0.00	0.00	0.00	116.40	2.1	329.7		0.00	0.00	0.00	38.38		10.35	18.92	83.84	86.68	19-Nov-16 15:00:00		**10.35**	**18.92**	**83.84**	**125.06**
19-Nov-16 16:00:00	19-Nov-16 17:00:00		0.00	0.00	0.00	3.88	2.1	329.7		0.00	0.00	0.00	1.28		10.35	18.92	83.84	86.68	19-Nov-16 16:00:00		**10.35**	**18.92**	**83.84**	**87.96**
19-Nov-16 17:00:00	19-Nov-16 18:00:00		0.00	0.00	0.00	3.92	2.1	329.7		0.00	0.00	0.00	1.29		10.35	18.92	83.84	86.68	19-Nov-16 17:00:00		**10.35**	**18.92**	**83.84**	**87.97**
19-Nov-16 18:00:00	19-Nov-16 19:00:00		0.01	0.00	0.00	36.79	2.1	329.7		0.00	0.00	0.00	12.13		10.35	18.92	83.84	86.68	19-Nov-16 18:00:00		**10.35**	**18.92**	**83.84**	**98.81**
19-Nov-16 19:00:00	19-Nov-16 20:00:00		1.48	0.00	0.00	4.70	2.1	329.7		0.49	0.00	0.00	1.55		10.35	18.92	83.84	86.68	19-Nov-16 19:00:00		**10.84**	**18.92**	**83.84**	**88.23**
19-Nov-16 20:00:00	19-Nov-16 21:00:00		3.03	0.00	0.00	4.98	2.1	329.7		1.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	19-Nov-16 20:00:00		**11.35**	**18.92**	**83.84**	**88.32**
19-Nov-16 21:00:00	19-Nov-16 22:00:00		0.53	0.00	0.00	5.26	2.1	329.7		0.17	0.00	0.00	1.74		10.35	18.92	83.84	86.68	19-Nov-16 21:00:00		**10.52**	**18.92**	**83.84**	**88.42**
19-Nov-16 22:00:00	19-Nov-16 23:00:00		0.00	0.00	0.00	5.54	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	19-Nov-16 22:00:00		**10.35**	**18.92**	**83.84**	**88.51**
19-Nov-16 23:00:00	20-Nov-16 00:00:00		0.21	0.00	0.00	5.65	2.1	329.7		0.07	0.00	0.00	1.86		10.35	18.92	83.84	86.68	19-Nov-16 23:00:00		**10.42**	**18.92**	**83.84**	**88.54**
20-Nov-16 00:00:00	20-Nov-16 01:00:00		0.00	0.00	0.00	5.68	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	20-Nov-16 00:00:00		**10.35**	**18.92**	**83.84**	**88.55**
20-Nov-16 01:00:00	20-Nov-16 02:00:00		0.00	0.00	0.00	12.28	2.1	329.7		0.00	0.00	0.00	4.05		10.35	18.92	83.84	86.68	20-Nov-16 01:00:00		**10.35**	**18.92**	**83.84**	**90.73**
20-Nov-16 02:00:00	20-Nov-16 03:00:00		2.49	0.00	0.00	5.73	2.1	329.7		0.82	0.00	0.00	1.89		10.35	18.92	83.84	86.68	20-Nov-16 02:00:00		**11.17**	**18.92**	**83.84**	**88.57**
20-Nov-16 03:00:00	20-Nov-16 04:00:00		0.44	0.00	0.00	13.12	2.1	329.7		0.14	0.00	0.00	4.33		10.35	18.92	83.84	86.68	20-Nov-16 03:00:00		**10.49**	**18.92**	**83.84**	**91.01**
20-Nov-16 04:00:00	20-Nov-16 05:00:00		0.85	0.00	0.00	5.90	2.1	329.7		0.28	0.00	0.00	1.94		10.35	18.92	83.84	86.68	20-Nov-16 04:00:00		**10.63**	**18.92**	**83.84**	**88.62**
20-Nov-16 05:00:00	20-Nov-16 06:00:00		7.71	0.00	0.00	29.72	2.1	329.7		2.54	0.00	0.00	9.80		10.35	18.92	83.84	86.68	20-Nov-16 05:00:00		**12.89**	**18.92**	**83.84**	**96.48**
20-Nov-16 06:00:00	20-Nov-16 07:00:00		27.06	0.00	0.00	6.15	2.1	329.7		8.92	0.00	0.00	2.03		10.35	18.92	83.84	86.68	20-Nov-16 06:00:00		**19.27**	**18.92**	**83.84**	**88.71**
20-Nov-16 07:00:00	20-Nov-16 08:00:00		22.02	0.00	0.00	6.22	2.1	329.7		7.26	0.00	0.00	2.05		10.35	18.92	83.84	86.68	20-Nov-16 07:00:00		**17.61**	**18.92**	**83.84**	**88.73**
20-Nov-16 08:00:00	20-Nov-16 09:00:00		0.15	0.00	0.00	6.87	2.1	329.7		0.05	0.00	0.00	2.27		10.35	18.92	83.84	86.68	20-Nov-16 08:00:00		**10.40**	**18.92**	**83.84**	**88.95**
20-Nov-16 09:00:00	20-Nov-16 10:00:00		0.07	0.00	0.00	5.91	2.1	329.7		0.02	0.00	0.00	1.95		10.35	18.92	83.84	86.68	20-Nov-16 09:00:00		**10.37**	**18.92**	**83.84**	**88.63**
20-Nov-16 10:00:00	20-Nov-16 11:00:00		13.00	0.00	0.00	5.61	2.1	329.7		4.29	0.00	0.00	1.85		10.35	18.92	83.84	86.68	20-Nov-16 10:00:00		**14.64**	**18.92**	**83.84**	**88.53**
20-Nov-16 11:00:00	20-Nov-16 12:00:00		7.82	0.00	0.00	5.31	2.1	329.7		2.58	0.00	0.00	1.75		10.35	18.92	83.84	86.68	20-Nov-16 11:00:00		**12.93**	**18.92**	**83.84**	**88.43**
20-Nov-16 12:00:00	20-Nov-16 13:00:00		0.38	0.00	0.00	4.94	2.1	329.7		0.13	0.00	0.00	1.63		10.35	18.92	83.84	86.68	20-Nov-16 12:00:00		**10.48**	**18.92**	**83.84**	**88.31**
20-Nov-16 13:00:00	20-Nov-16 14:00:00		0.00	0.00	0.00	13.13	2.1	329.7		0.00	0.00	0.00	4.33		10.35	18.92	83.84	86.68	20-Nov-16 13:00:00		**10.35**	**18.92**	**83.84**	**91.01**
20-Nov-16 14:00:00	20-Nov-16 15:00:00		0.00	0.00	0.00	4.57	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	20-Nov-16 14:00:00		**10.35**	**18.92**	**83.84**	**88.19**
20-Nov-16 15:00:00	20-Nov-16 16:00:00		6.29	0.00	0.00	14.48	2.1	329.7		2.07	0.00	0.00	4.77		10.35	18.92	83.84	86.68	20-Nov-16 15:00:00		**12.42**	**18.92**	**83.84**	**91.45**
20-Nov-16 16:00:00	20-Nov-16 17:00:00		0.23	0.00	0.00	4.52	2.1	329.7		0.08	0.00	0.00	1.49		10.35	18.92	83.84	86.68	20-Nov-16 16:00:00		**10.43**	**18.92**	**83.84**	**88.17**
20-Nov-16 17:00:00	20-Nov-16 18:00:00		0.48	0.00	0.00	4.52	2.1	329.7		0.16	0.00	0.00	1.49		10.35	18.92	83.84	86.68	20-Nov-16 17:00:00		**10.51**	**18.92**	**83.84**	**88.17**
20-Nov-16 18:00:00	20-Nov-16 19:00:00		0.65	0.00	0.00	66.92	2.1	329.7		0.21	0.00	0.00	22.06		10.35	18.92	83.84	86.68	20-Nov-16 18:00:00		**10.56**	**18.92**	**83.84**	**108.74**
20-Nov-16 19:00:00	20-Nov-16 20:00:00		0.14	0.00	0.00	4.59	2.1	329.7		0.05	0.00	0.00	1.51		10.35	18.92	83.84	86.68	20-Nov-16 19:00:00		**10.40**	**18.92**	**83.84**	**88.19**
20-Nov-16 20:00:00	20-Nov-16 21:00:00		0.09	0.00	0.00	4.67	2.1	329.7		0.03	0.00	0.00	1.54		10.35	18.92	83.84	86.68	20-Nov-16 20:00:00		**10.38**	**18.92**	**83.84**	**88.22**
20-Nov-16 21:00:00	20-Nov-16 22:00:00		0.05	0.00	0.00	12.44	2.1	329.7		0.02	0.00	0.00	4.10		10.35	18.92	83.84	86.68	20-Nov-16 21:00:00		**10.37**	**18.92**	**83.84**	**90.78**
20-Nov-16 22:00:00	20-Nov-16 23:00:00		1.88	0.00	0.00	29.33	2.1	329.7		0.62	0.00	0.00	9.67		10.35	18.92	83.84	86.68	20-Nov-16 22:00:00		**10.97**	**18.92**	**83.84**	**96.35**
20-Nov-16 23:00:00	21-Nov-16 00:00:00		6.85	0.00	0.00	5.24	2.1	329.7		2.26	0.00	0.00	1.73		10.35	18.92	83.84	86.68	20-Nov-16 23:00:00		**12.61**	**18.92**	**83.84**	**88.41**
21-Nov-16 00:00:00	21-Nov-16 01:00:00		4.86	0.00	0.00	5.38	2.1	329.7		1.60	0.00	0.00	1.77		10.35	18.92	83.84	86.68	21-Nov-16 00:00:00		**11.95**	**18.92**	**83.84**	**88.45**
21-Nov-16 01:00:00	21-Nov-16 02:00:00		5.76	0.00	0.00	5.51	2.1	329.7		1.90	0.00	0.00	1.82		10.35	18.92	83.84	86.68	21-Nov-16 01:00:00		**12.25**	**18.92**	**83.84**	**88.50**
21-Nov-16 02:00:00	21-Nov-16 03:00:00		1.58	0.00	0.00	5.63	2.1	329.7		0.52	0.00	0.00	1.86		10.35	18.92	83.84	86.68	21-Nov-16 02:00:00		**10.87**	**18.92**	**83.84**	**88.54**
21-Nov-16 03:00:00	21-Nov-16 04:00:00		11.87	0.00	0.00	64.09	2.1	329.7		3.91	0.00	0.00	21.13		10.35	18.92	83.84	86.68	21-Nov-16 03:00:00		**14.26**	**18.92**	**83.84**	**107.81**
21-Nov-16 04:00:00	21-Nov-16 05:00:00		14.52	0.00	0.00	5.69	2.1	329.7		4.79	0.00	0.00	1.87		10.35	18.92	83.84	86.68	21-Nov-16 04:00:00		**15.14**	**18.92**	**83.84**	**88.55**
21-Nov-16 05:00:00	21-Nov-16 06:00:00		20.22	0.00	0.00	5.71	2.1	329.7		6.67	0.00	0.00	1.88		10.35	18.92	83.84	86.68	21-Nov-16 05:00:00		**17.02**	**18.92**	**83.84**	**88.56**
21-Nov-16 06:00:00	21-Nov-16 07:00:00		7.03	0.00	0.00	5.74	2.1	329.7		2.32	0.00	0.00	1.89		10.35	18.92	83.84	86.68	21-Nov-16 06:00:00		**12.67**	**18.92**	**83.84**	**88.57**
21-Nov-16 07:00:00	21-Nov-16 08:00:00		8.07	0.00	0.00	5.63	2.1	329.7		2.66	0.00	0.00	1.86		10.35	18.92	83.84	86.68	21-Nov-16 07:00:00		**13.01**	**18.92**	**83.84**	**88.54**
21-Nov-16 08:00:00	21-Nov-16 09:00:00		8.47	0.00	0.00	5.22	2.1	329.7		2.79	0.00	0.00	1.72		10.35	18.92	83.84	86.68	21-Nov-16 08:00:00		**13.14**	**18.92**	**83.84**	**88.40**
21-Nov-16 09:00:00	21-Nov-16 10:00:00		6.88	0.00	0.00	4.80	2.1	329.7		2.27	0.00	0.00	1.58		10.35	18.92	83.84	86.68	21-Nov-16 09:00:00		**12.62**	**18.92**	**83.84**	**88.26**
21-Nov-16 10:00:00	21-Nov-16 11:00:00		7.58	0.00	0.00	4.37	2.1	329.7		2.50	0.00	0.00	1.44		10.35	18.92	83.84	86.68	21-Nov-16 10:00:00		**12.85**	**18.92**	**83.84**	**88.12**
21-Nov-16 11:00:00	21-Nov-16 12:00:00		0.14	0.00	0.00	4.00	2.1	329.7		0.05	0.00	0.00	1.32		10.35	18.92	83.84	86.68	21-Nov-16 11:00:00		**10.40**	**18.92**	**83.84**	**88.00**
21-Nov-16 12:00:00	21-Nov-16 13:00:00		0.00	0.00	0.00	3.82	2.1	329.7		0.00	0.00	0.00	1.26		10.35	18.92	83.84	86.68	21-Nov-16 12:00:00		**10.35**	**18.92**	**83.84**	**87.94**
21-Nov-16 13:00:00	21-Nov-16 14:00:00		0.00	0.00	0.00	3.67	2.1	329.7		0.00	0.00	0.00	1.21		10.35	18.92	83.84	86.68	21-Nov-16 13:00:00		**10.35**	**18.92**	**83.84**	**87.89**
21-Nov-16 14:00:00	21-Nov-16 15:00:00		5.26	0.00	0.00	3.51	2.1	329.7		1.73	0.00	0.00	1.16		10.35	18.92	83.84	86.68	21-Nov-16 14:00:00		**12.08**	**18.92**	**83.84**	**87.84**
21-Nov-16 15:00:00	21-Nov-16 16:00:00		1.53	0.00	0.00	3.36

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
23-Nov-16 17:00:00	23-Nov-16 18:00:00		0.00	0.00	0.00	3.69	2.1	329.7		0.00	0.00	0.00	1.22		10.35	18.92	83.84	86.68	23-Nov-16 17:00:00		10.35	18.92	83.84	87.90
23-Nov-16 18:00:00	23-Nov-16 19:00:00		0.00	0.00	0.00	3.81	2.1	329.7		0.00	0.00	0.00	1.26		10.35	18.92	83.84	86.68	23-Nov-16 18:00:00		10.35	18.92	83.84	87.94
23-Nov-16 19:00:00	23-Nov-16 20:00:00		0.00	0.00	0.00	3.90	2.1	329.7		0.00	0.00	0.00	1.29		10.35	18.92	83.84	86.68	23-Nov-16 19:00:00		10.35	18.92	83.84	87.97
23-Nov-16 20:00:00	23-Nov-16 21:00:00		0.00	0.00	0.00	4.01	2.1	329.7		0.00	0.00	0.00	1.32		10.35	18.92	83.84	86.68	23-Nov-16 20:00:00		10.35	18.92	83.84	88.00
23-Nov-16 21:00:00	23-Nov-16 22:00:00		0.00	0.00	0.00	4.16	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	23-Nov-16 21:00:00		10.35	18.92	83.84	88.05
23-Nov-16 22:00:00	23-Nov-16 23:00:00		0.00	0.00	0.00	4.31	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	23-Nov-16 22:00:00		10.35	18.92	83.84	88.10
23-Nov-16 23:00:00	24-Nov-16 00:00:00		0.00	0.00	0.00	4.44	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	23-Nov-16 23:00:00		10.35	18.92	83.84	88.14
24-Nov-16 00:00:00	24-Nov-16 01:00:00		0.00	0.00	0.00	4.45	2.1	329.7		0.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	24-Nov-16 00:00:00		10.35	18.92	83.84	88.15
24-Nov-16 01:00:00	24-Nov-16 02:00:00		2.30	0.00	0.00	12.39	2.1	329.7		0.76	0.00	0.00	4.09		10.35	18.92	83.84	86.68	24-Nov-16 01:00:00		11.11	18.92	83.84	90.77
24-Nov-16 02:00:00	24-Nov-16 03:00:00		0.10	0.00	0.00	4.38	2.1	329.7		0.03	0.00	0.00	1.44		10.35	18.92	83.84	86.68	24-Nov-16 02:00:00		10.38	18.92	83.84	88.12
24-Nov-16 03:00:00	24-Nov-16 04:00:00		0.06	0.00	0.00	4.28	2.1	329.7		0.02	0.00	0.00	1.41		10.35	18.92	83.84	86.68	24-Nov-16 03:00:00		10.37	18.92	83.84	88.09
24-Nov-16 04:00:00	24-Nov-16 05:00:00		0.03	0.00	0.00	4.18	2.1	329.7		0.01	0.00	0.00	1.38		10.35	18.92	83.84	86.68	24-Nov-16 04:00:00		10.36	18.92	83.84	88.06
24-Nov-16 05:00:00	24-Nov-16 06:00:00		0.00	0.00	0.00	4.04	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	24-Nov-16 05:00:00		10.35	18.92	83.84	88.01
24-Nov-16 06:00:00	24-Nov-16 07:00:00		0.00	0.00	0.00	3.98	2.1	329.7		0.00	0.00	0.00	1.31		10.35	18.92	83.84	86.68	24-Nov-16 06:00:00		10.35	18.92	83.84	87.99
24-Nov-16 07:00:00	24-Nov-16 08:00:00		0.00	0.00	0.00	3.98	2.1	329.7		0.00	0.00	0.00	1.31		10.35	18.92	83.84	86.68	24-Nov-16 07:00:00		10.35	18.92	83.84	87.99
24-Nov-16 08:00:00	24-Nov-16 09:00:00		0.00	0.00	0.00	3.99	2.1	329.7		0.00	0.00	0.00	1.31		10.35	18.92	83.84	86.68	24-Nov-16 08:00:00		10.35	18.92	83.84	87.99
24-Nov-16 09:00:00	24-Nov-16 10:00:00		0.00	0.00	0.00	3.94	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	24-Nov-16 09:00:00		10.35	18.92	83.84	87.98
24-Nov-16 10:00:00	24-Nov-16 11:00:00		0.00	0.00	0.00	3.75	2.1	329.7		0.00	0.00	0.00	1.24		10.35	18.92	83.84	86.68	24-Nov-16 10:00:00		10.35	18.92	83.84	87.92
24-Nov-16 11:00:00	24-Nov-16 12:00:00		2.11	0.00	0.00	3.55	2.1	329.7		0.69	0.00	0.00	1.17		10.35	18.92	83.84	86.68	24-Nov-16 11:00:00		11.04	18.92	83.84	87.85
24-Nov-16 12:00:00	24-Nov-16 13:00:00		0.07	0.00	0.00	3.35	2.1	329.7		0.02	0.00	0.00	1.11		10.35	18.92	83.84	86.68	24-Nov-16 12:00:00		10.37	18.92	83.84	87.79
24-Nov-16 13:00:00	24-Nov-16 14:00:00		0.00	0.00	0.00	3.11	2.1	329.7		0.00	0.00	0.00	1.02		10.35	18.92	83.84	86.68	24-Nov-16 13:00:00		10.35	18.92	83.84	87.70
24-Nov-16 14:00:00	24-Nov-16 15:00:00		0.00	0.00	0.00	12.46	2.1	329.7		0.00	0.00	0.00	4.11		10.35	18.92	83.84	86.68	24-Nov-16 14:00:00		10.35	18.92	83.84	90.79
24-Nov-16 15:00:00	24-Nov-16 16:00:00		0.00	0.00	0.00	2.89	2.1	329.7		0.00	0.00	0.00	0.95		10.35	18.92	83.84	86.68	24-Nov-16 15:00:00		10.35	18.92	83.84	87.63
24-Nov-16 16:00:00	24-Nov-16 17:00:00		0.00	0.00	0.00	2.86	2.1	329.7		0.00	0.00	0.00	0.94		10.35	18.92	83.84	86.68	24-Nov-16 16:00:00		10.35	18.92	83.84	87.62
24-Nov-16 17:00:00	24-Nov-16 18:00:00		0.00	0.00	0.00	2.83	2.1	329.7		0.00	0.00	0.00	0.93		10.35	18.92	83.84	86.68	24-Nov-16 17:00:00		10.35	18.92	83.84	87.61
24-Nov-16 18:00:00	24-Nov-16 19:00:00		0.00	0.00	0.00	2.93	2.1	329.7		0.00	0.00	0.00	0.97		10.35	18.92	83.84	86.68	24-Nov-16 18:00:00		10.35	18.92	83.84	87.65
24-Nov-16 19:00:00	24-Nov-16 20:00:00		0.00	0.00	0.00	4.14	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	24-Nov-16 19:00:00		10.35	18.92	83.84	88.04
24-Nov-16 20:00:00	24-Nov-16 21:00:00		0.00	0.00	0.00	6.24	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	24-Nov-16 20:00:00		10.35	18.92	83.84	88.74
24-Nov-16 21:00:00	24-Nov-16 22:00:00		0.00	0.00	0.00	3.53	2.1	329.7		0.00	0.00	0.00	1.17		10.35	18.92	83.84	86.68	24-Nov-16 21:00:00		10.35	18.92	83.84	87.85
24-Nov-16 22:00:00	24-Nov-16 23:00:00		0.00	0.00	0.00	3.62	2.1	329.7		0.00	0.00	0.00	1.19		10.35	18.92	83.84	86.68	24-Nov-16 22:00:00		10.35	18.92	83.84	87.87
24-Nov-16 23:00:00	25-Nov-16 00:00:00		0.00	0.00	0.00	3.71	2.1	329.7		0.00	0.00	0.00	1.22		10.35	18.92	83.84	86.68	24-Nov-16 23:00:00		10.35	18.92	83.84	87.90
25-Nov-16 00:00:00	25-Nov-16 01:00:00		0.25	0.00	0.00	3.86	2.1	329.7		0.08	0.00	0.00	1.27		10.35	18.92	83.84	86.68	25-Nov-16 00:00:00		10.43	18.92	83.84	87.95
25-Nov-16 01:00:00	25-Nov-16 02:00:00		4.32	0.00	0.00	3.89	2.1	329.7		1.42	0.00	0.00	1.28		10.35	18.92	83.84	86.68	25-Nov-16 01:00:00		11.77	18.92	83.84	87.96
25-Nov-16 02:00:00	25-Nov-16 03:00:00		2.61	0.00	0.00	3.92	2.1	329.7		0.86	0.00	0.00	1.29		10.35	18.92	83.84	86.68	25-Nov-16 02:00:00		11.21	18.92	83.84	87.97
25-Nov-16 03:00:00	25-Nov-16 04:00:00		0.00	0.00	0.00	3.94	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	25-Nov-16 03:00:00		10.35	18.92	83.84	87.98
25-Nov-16 04:00:00	25-Nov-16 05:00:00		0.00	0.00	0.00	101.33	2.1	329.7		0.00	0.00	0.00	33.41		10.35	18.92	83.84	86.68	25-Nov-16 04:00:00		10.35	18.92	83.84	120.09
25-Nov-16 05:00:00	25-Nov-16 06:00:00		0.00	0.00	0.00	4.38	2.1	329.7		0.00	0.00	0.00	1.44		10.35	18.92	83.84	86.68	25-Nov-16 05:00:00		10.35	18.92	83.84	88.12
25-Nov-16 06:00:00	25-Nov-16 07:00:00		0.00	0.00	0.00	13.18	2.1	329.7		0.00	0.00	0.00	4.35		10.35	18.92	83.84	86.68	25-Nov-16 06:00:00		10.35	18.92	83.84	91.03
25-Nov-16 07:00:00	25-Nov-16 08:00:00		2.85	0.00	0.00	4.02	2.1	329.7		0.94	0.00	0.00	1.32		10.35	18.92	83.84	86.68	25-Nov-16 07:00:00		11.29	18.92	83.84	88.00
25-Nov-16 08:00:00	25-Nov-16 09:00:00		0.00	0.00	0.00	7.06	2.1	329.7		0.00	0.00	0.00	2.33		10.35	18.92	83.84	86.68	25-Nov-16 08:00:00		10.35	18.92	83.84	89.01
25-Nov-16 09:00:00	25-Nov-16 10:00:00		0.00	0.00	0.00	3.63	2.1	329.7		0.00	0.00	0.00	1.20		10.35	18.92	83.84	86.68	25-Nov-16 09:00:00		10.35	18.92	83.84	87.88
25-Nov-16 10:00:00	25-Nov-16 11:00:00		0.27	0.00	0.00	3.32	2.1	329.7		0.09	0.00	0.00	1.09		10.35	18.92	83.84	86.68	25-Nov-16 10:00:00		10.44	18.92	83.84	87.77
25-Nov-16 11:00:00	25-Nov-16 12:00:00		0.22	0.00	0.00	3.01	2.1	329.7		0.07	0.00	0.00	0.99		10.35	18.92	83.84	86.68	25-Nov-16 11:00:00		10.42	18.92	83.84	87.67
25-Nov-16 12:00:00	25-Nov-16 13:00:00		0.00	0.00	0.00	2.82	2.1	329.7		0.00	0.00	0.00	0.93		10.35	18.92	83.84	86.68	25-Nov-16 12:00:00		10.35	18.92	83.84	87.61
25-Nov-16 13:00:00	25-Nov-16 14:00:00		0.00	0.00	0.00	2.82	2.1	329.7		0.00	0.00	0.00	0.93		10.35	18.92	83.84	86.68	25-Nov-16 13:00:00		10.35	18.92	83.84	87.61
25-Nov-16 14:00:00	25-Nov-16 15:00:00		0.00	0.00	0.00	109.18	2.1	329.7		0.00	0.00	0.00	36.00		10.35	18.92	83.84	86.68	25-Nov-16 14:00:00		10.35	18.92	83.84	122.68
25-Nov-16 15:00:00	25-Nov-16 16:00:00		0.00	0.00	0.00	2.82	2.1	329.7		0.00	0.00	0.00	0.93		10.35	18.92	83.84	86.68	25-Nov-16 15:00:00		10.35	18.92	83.84	87.61
25-Nov-16 16:00:00	25-Nov-16 17:00:00		0.00	0.00	0.00	2.82	2.1	329.7		0.00	0.00	0.00	0.93		10.35	18.92	83.84	86.68	25-Nov-16 16:00:00		10.35	18.92	83.84	87.61
25-Nov-16 17:00:00	25-Nov-16 18:00:00		0.00	0.00	0.00	16.74	2.1	329.7		0.00	0.00	0.00	5.52		10.35	18.92	83.84	86.68	25-Nov-16 17:00:00		10.35	18.92	83.84	92.20
25-Nov-16 18:00:00	25-Nov-16 19:00:00		0.00	0.00	0.00	45.81	2.1	329.7		0.00	0.00	0.00	15.10		10.35	18.92	83.84	86.68	25-Nov-16 18:00:00		10.35	18.92	83.84	101.78
25-Nov-16 19:00:00	25-Nov-16 20:00:00		0.00	0.00	0.00	3.16	2.1	329.7		0.00	0.00	0.00	1.04		10.35	18.92	83.84	86.68	25-Nov-16 19:00:00		10.35	18.92	83.84	87.72
25-Nov-16 20:00:00	25-Nov-16 21:00:00		0.00	0.00	0.00	17.30	2.1	329.7		0.00	0.00	0.00	5.71		10.35	18.92	83.84	86.68	25-Nov-16 20:00:00		10.35	18.92	83.84	92.39
25-Nov-16 21:00:00	25-Nov-16 22:00:00		0.00	0.00	0.00	95.72	2.1	329.7		0.00	0.00	0.00	31.56		10.35	18.92	83.84	86.68	25-Nov-16 21:00:00		10.35	18.92	83.84	118.24
25-Nov-16 22:00:00	25-Nov-16 23:00:00		0.00	0.00	0.00	3.81	2.1	329.7		0.00	0.00	0.00	1.26		10.35	18.92	83.84	86.68	25-Nov-16 22:00:00		10.35	18.92	83.84	87.94
25-Nov-16 23:00:00	26-Nov-16 00:00:00		0.00	0.00	0.00	14.70	2.1	329.7		0.00	0.00	0.00	4.85		10.35	18.92	83.84	86.68	25-Nov-16 23:00:00		10.35	18.92	83.84	91.53
26-Nov-16 00:00:00	26-Nov-16 01:00:00		0.16	0.00	0.00	22.24	2.1	329.7		0.05	0.00	0.00	7.33		10.35	18.92	83.84	86.68	26-Nov-16 00:00:00		10.40	18.92	83.84	94.01
26-Nov-16 01:00:00	26-Nov-16 02:00:00		0.00	0.00	0.00	4.34	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	26-Nov-16 01:00:00		10.35	18.92	83.84	88.11
26-Nov-16 02:00:00	26-Nov-16 03:00:00		0.00	0.00	0.00	4.32	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	26-Nov-16 02:00:00		10.35	18.92	83.84	88.10
26-Nov-16 03:00:00	26-Nov-16 04:00:00		0.00	0.00	0.00	4.30	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	26-Nov-16 03:00:00		10.35	18.92	83.84	88.10
26-Nov-16 04:00:00	26-Nov-16 05:00:00		1.69	0.00	0.00	4.30	2.1	329.7		0.56	0.00	0.00	1.42		10.35	18.92	83.84	86.68	26-Nov-16 04:00:00		10.91	18.92	83.84	88.10
26-Nov-16 05:00:00	26-Nov-16 06:00:00		1.38	0.00	0.00	4.43	2.1	329.7		0.46	0.00	0.00	1.46		10.35	18.92	83.84	86.68	26-Nov-16 05:00:00		10.81	18.92	83.84	88.14
26-Nov-16 06:00:00	26-Nov-16 07:00:00		0.77	0.00	0.00	7.05	2.1	329.7		0.26	0.00	0.00	2.32		10.35	18.92	83.84	86.68	26-Nov-16 06:00:00		10.61	18.92	83.84	89.00
26-Nov-16 07:00:00	26-Nov-16 08:00:00		0.29	0.00	0.00	4.52	2.1	329.7		0.09	0.00	0.00	1.49		10.35	18.92	83.84	86.68	26-Nov-16 07:00:00		10.44	18.92	83.84	88.17
26-Nov-16 08:00:00	26-Nov-16 09:00:00		0.51	0.00	0.00	4.52	2.1	329.7		0.17	0.00	0.00	1.49		10.35	18.92	83.84	86.68	26-Nov-16 08:00:00		10.52	18.92	83.84	88.17
26-Nov-16 09:00:00	26-Nov-16 10:00:00		2.16	0.00	0.00	75.62	2.1	329.7		0.71	0.00	0.00	24.93		10.35	18.92	83.84	86.68	26-Nov-16 09:00:00		11.06	18.92	83.84	111.61
26-Nov-16 10:00:00	26-Nov-16 11:00:00		1.57	0.00	0.00	4.37	2.1	329.7		0.52	0.00	0.00	1.44		10.35	18.92	83.84	86.68	26-Nov-16 10:00:00		10.87	18.92	83.84	88.12
26-Nov-16 11:00:00	26-Nov-16 12:00:00		0.70	0.00	0.00	4.09	2.1	329.7		0.23	0.00	0.00	1.35		10.35	18.92	83.84	86.68	26-Nov-16 11:00:00		10.58	18.92	83.84	88.03
26-Nov-16 12:00:00	26-Nov-16 13:00:00		1.01	0.00	0.00	20.44	2.1	329.7		0.33	0.00	0.00	6.74		10.35	18.92	83.84	86.68	26-Nov-16 12:00:00		10.68	18.92	83.84	93.42
26-Nov-16 13:00:00	26-Nov-16 14:00:00		1.31	0.00	0.00	34.57	2.1	329.7		0.43	0.00	0.00	11.40		10.35	18.92	83.84	86.68	26-Nov-16 13:00:00		10.78	18.92	83.84	98.08
26-Nov-16 14:00:00	26-Nov-16 15:00:00		0.19	0.00	0.00	3.63	2.1	329.7		0.06	0.00	0.00	1.20		10.35	18.92	83.84	86.68	26-Nov-16 14:00:00		10.41	18.92	83.84	87.88
26-Nov-16 15:00:00	26-Nov-16 16:00:00		0.00	0.00	0.00	3.59	2.1	329.7		0.00	0.00	0.00	1.18		10.35	18.92	83.84	86.68	26-Nov-16 15:00:00		10.35	18.92	83.84	87.86
26-Nov-16 16:00:00	26-Nov-16 17:00:00		0.00	0.00	0.00	14.04	2.1	329.7		0.00	0.00	0.00	4.63		10.35	18.92	83.84	86.68	26-Nov-16 16:00:00		10.35	18.92	83.84	91.31
26-Nov-16 17:00:00	26-Nov-16 18:00:00		0.00	0.00	0.00	3.89	2.1	329.7		0.00	0.00	0.00	1.28		10.35	18.92	83.84	86.68	26-Nov-16 17:00:00		10.35	18.92	83.84	87.96
26-Nov-16 18:00:00	26-Nov-16 19:00:00		0.00	0.00	0.00	4.13	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	26-Nov-16 18:00:00		10.35	18.92	83.84	88.04
26-Nov-16 19:00:00	26-Nov-16 20:00:00		0.00	0.00	0.00	4.38	2.1	329.7		0.00	0.00	0.00	1.44		10.35	18.92	83.84	86.68	26-Nov-16 19:00:00		10.35	18.92	83.84	88.12
26-Nov-16 20:00:00	26-Nov-16 21:00:00		0.89	0.00	0.00	4.61	2.1	329.7		0.29	0.00	0.00	1.52		10.35	18.92	83.84	86.68	26-Nov-16 20:00:00		10.64	18.92	83.84	88.20
26-Nov-16 21:00:00	26-Nov-16 22:00:00		0.00	0.00	0.00	4.92	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	26-Nov-16 21:00:00		10.35	18.92	83.84	88.30
26-Nov-16 22:00:00	26-Nov-16 23:00:00		0.00	0.00	0.00	4.98	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	26-Nov-16 22:00:00		10.35	18.92	83.84	88.32
26-Nov-16 23:00:00	27-Nov-16 00:00:00		0.00	0.00	0.00	5.08	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	26-Nov-16 23:00:00		10.35	18.92	83.84	88.35
27-Nov-16 00:00:00	27-Nov-16 01:00:00		0.00	0.00	0.00	7.79	2.1	329.7		0.00	0.00	0.00	2.57		10.35	18.92	83.84	86.68	27-Nov-16 00:00:00		10.35	18.92	83.84	89.25
27-Nov-16 01:00:00	27-Nov-16 02:00:00		0.00	0.00	0.00	12.87	2.1	329.7		0.00	0.00	0.00	4.24		10.35	18.92	83.84	86.68	27-Nov-16 01:00:00		10.35	18.92	83.84	90.92
27-Nov-16 02:00:00	27-Nov-16 03:00:00		0.00	0.00	0.00	5.41	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	27-Nov-16 02:00:00		10.35	18.92	83.84	88.46
27-Nov-16 03:00:00	27-Nov-16 04:00:00		0.82	0.00	0.00	5.51	2.1	329.7		0.27	0.00	0.00	1.82		10.35	18.92	83.84	86.68	27-Nov-16 03:00:00		10.62	18.92	83.84	88.50
27-Nov-16 04:00:00	27-Nov-16 05:00:00		5.34	0.00	0.00	45.91	2.1	329.7		1.76	0.00	0.00	15.14		10.35	18.92	83.84	86.68	27-Nov-16 04:00:00		12.11	18.92	83.84	101.82
27-Nov-16 05:00:00	27-Nov-16 06:00:00		8.74	0.00	0.00	5.67	2.1	329.7		2.88	0.00	0.00	1.87		10.35	18.92	83.84	86.68	27-Nov-16 05:00:00		13.23	18.92	83.84	88.55
27-Nov-16 06:00:00	27-Nov-16 07:00:00		0.00	0.00	0.00	5.71	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	27-Nov-16 06:00:00		10.35	18.92	83.84	88.56
27-Nov-16 07:00:00	27-Nov-16 08:00:00		0.00	0.00	0.00	14.24	2.1	329.7		0.00	0.00	0.00	4.70		10.35	18.92	83.84	86.68	27-Nov-16 07:00:00		10.35	18.92	83.84	91.38
27-Nov-16 08:00:00	27-Nov-16 09:00:00		0.00	0.00	0.00	5.53	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	27-Nov-16 08:00:00		10.35	18.92	83.84	88.50
27-Nov-16 09:00:00	27-Nov-16 10:00:00		0.02	0.00	0.00	5.33	2.1	329.7		0.01	0.00	0.00	1.76		10.35	18.92	83.84	86.68	27-Nov-16 09:00:00		10.36	18.92	83.84	88.44
27-Nov-16 10:00:00	27-Nov-16 11:00:00		0.86	0.00	0.00	5.14	2.1	329.7		0.28	0.00	0.00	1.69		10.35	18.92	83.84	86.68	27-Nov-16 10:00:00		10.63	18.92	83.84	88.37
27-Nov-16 11:00:00	27-Nov-16 12:00:00		3.87	0.00	0.00	4.89	2.1	329.7		1.28	0.00	0.00	1.61		10.35	18.92	83.84	86.68	27-Nov-16 11:00:00		11.63	18.92	83.84	88.29
27-Nov-16 12:00:00	27-Nov-16 13:00:00		1.21	0.00	0.00	4.48	2.1	329.7		0.40	0.00	0.00	1.48		10.35	18.92	83.84	86.68	27-Nov-16 12:00:00		10.75	18.92	83.84	88.16
27-Nov-16 13:00:00	27-Nov-16 14:00:00		0.23	0.00	0.00	10.02	2.1	329.7		0.07	0.00	0.00	3.30		10.35	18.92	83.84	86.68	27-Nov-16 13:00:00		10.42	18.92	83.84	89.98
27-Nov-16 14:00:00	27-Nov-16 15:00:00		583.87	0.00	0.00	4.07

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
29-Nov-16 16:00:00	29-Nov-16 17:00:00		0.00	0.00	0.00	2.96	2.1	329.7		0.00	0.00	0.00	0.98		10.35	18.92	83.84	86.68	29-Nov-16 16:00:00		**10.35**	**18.92**	**83.84**	**87.66**
29-Nov-16 17:00:00	29-Nov-16 18:00:00		0.00	0.00	0.00	36.59	2.1	329.7		0.00	0.00	0.00	12.06		10.35	18.92	83.84	86.68	29-Nov-16 17:00:00		**10.35**	**18.92**	**83.84**	**98.74**
29-Nov-16 18:00:00	29-Nov-16 19:00:00		0.00	0.00	0.00	3.95	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	29-Nov-16 18:00:00		**10.35**	**18.92**	**83.84**	**87.98**
29-Nov-16 19:00:00	29-Nov-16 20:00:00		0.00	0.00	0.00	2.97	2.1	329.7		0.00	0.00	0.00	0.98		10.35	18.92	83.84	86.68	29-Nov-16 19:00:00		**10.35**	**18.92**	**83.84**	**87.66**
29-Nov-16 20:00:00	29-Nov-16 21:00:00		0.00	0.00	0.00	3.06	2.1	329.7		0.00	0.00	0.00	1.01		10.35	18.92	83.84	86.68	29-Nov-16 20:00:00		**10.35**	**18.92**	**83.84**	**87.69**
29-Nov-16 21:00:00	29-Nov-16 22:00:00		0.00	0.00	0.00	12.50	2.1	329.7		0.00	0.00	0.00	4.12		10.35	18.92	83.84	86.68	29-Nov-16 21:00:00		**10.35**	**18.92**	**83.84**	**90.80**
29-Nov-16 22:00:00	29-Nov-16 23:00:00		0.00	0.00	0.00	3.20	2.1	329.7		0.00	0.00	0.00	1.06		10.35	18.92	83.84	86.68	29-Nov-16 22:00:00		**10.35**	**18.92**	**83.84**	**87.74**
29-Nov-16 23:00:00	30-Nov-16 00:00:00		0.00	0.00	0.00	3.31	2.1	329.7		0.00	0.00	0.00	1.09		10.35	18.92	83.84	86.68	29-Nov-16 23:00:00		**10.35**	**18.92**	**83.84**	**87.77**
30-Nov-16 00:00:00	30-Nov-16 01:00:00		0.00	0.00	0.00	8.23	2.1	329.7		0.00	0.00	0.00	2.71		10.35	18.92	83.84	86.68	30-Nov-16 00:00:00		**10.35**	**18.92**	**83.84**	**89.39**
30-Nov-16 01:00:00	30-Nov-16 02:00:00		0.00	0.00	0.00	3.23	2.1	329.7		0.00	0.00	0.00	1.06		10.35	18.92	83.84	86.68	30-Nov-16 01:00:00		**10.35**	**18.92**	**83.84**	**87.74**
30-Nov-16 02:00:00	30-Nov-16 03:00:00		0.00	0.00	0.00	51.35	2.1	329.7		0.00	0.00	0.00	16.93		10.35	18.92	83.84	86.68	30-Nov-16 02:00:00		**10.35**	**18.92**	**83.84**	**103.61**
30-Nov-16 03:00:00	30-Nov-16 04:00:00		0.00	0.00	0.00	5.29	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	30-Nov-16 03:00:00		**10.35**	**18.92**	**83.84**	**88.42**
30-Nov-16 04:00:00	30-Nov-16 05:00:00		0.00	0.00	0.00	3.23	2.1	329.7		0.00	0.00	0.00	1.06		10.35	18.92	83.84	86.68	30-Nov-16 04:00:00		**10.35**	**18.92**	**83.84**	**87.74**
30-Nov-16 05:00:00	30-Nov-16 06:00:00		0.00	0.00	0.00	6.00	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	30-Nov-16 05:00:00		**10.35**	**18.92**	**83.84**	**88.66**
30-Nov-16 06:00:00	30-Nov-16 07:00:00		0.00	0.00	0.00	26.48	2.1	329.7		0.00	0.00	0.00	8.73		10.35	18.92	83.84	86.68	30-Nov-16 06:00:00		**10.35**	**18.92**	**83.84**	**95.41**
30-Nov-16 07:00:00	30-Nov-16 08:00:00		0.00	0.00	0.00	3.27	2.1	329.7		0.00	0.00	0.00	1.08		10.35	18.92	83.84	86.68	30-Nov-16 07:00:00		**10.35**	**18.92**	**83.84**	**87.76**
30-Nov-16 08:00:00	30-Nov-16 09:00:00		0.00	0.00	0.00	113.24	2.1	329.7		0.00	0.00	0.00	37.33		10.35	18.92	83.84	86.68	30-Nov-16 08:00:00		**10.35**	**18.92**	**83.84**	**124.01**
30-Nov-16 09:00:00	30-Nov-16 10:00:00		134.18	0.00	0.00	37.08	2.1	329.7		44.24	0.00	0.00	12.22		10.35	18.92	83.84	86.68	30-Nov-16 09:00:00		**54.59**	**18.92**	**83.84**	**98.90**
30-Nov-16 10:00:00	30-Nov-16 11:00:00		876.30	0.00	0.00	3.36	2.1	329.7		288.92	0.00	0.00	1.11		10.35	18.92	83.84	86.68	30-Nov-16 10:00:00		**299.27**	**18.92**	**83.84**	**87.79**
30-Nov-16 11:00:00	30-Nov-16 12:00:00		815.29	0.00	0.00	10.62	2.1	329.7		268.80	0.00	0.00	3.50		10.35	18.92	83.84	86.68	30-Nov-16 11:00:00		**279.15**	**18.92**	**83.84**	**90.18**
30-Nov-16 12:00:00	30-Nov-16 13:00:00		761.94	0.00	0.00	7.13	2.1	329.7		251.21	0.00	0.00	2.35		10.35	18.92	83.84	86.68	30-Nov-16 12:00:00		**261.56**	**18.92**	**83.84**	**89.03**
30-Nov-16 13:00:00	30-Nov-16 14:00:00		733.11	0.00	0.00	3.21	2.1	329.7		241.71	0.00	0.00	1.06		10.35	18.92	83.84	86.68	30-Nov-16 13:00:00		**252.06**	**18.92**	**83.84**	**87.74**
30-Nov-16 14:00:00	30-Nov-16 15:00:00		917.37	0.00	0.00	3.10	2.1	329.7		302.46	0.00	0.00	1.02		10.35	18.92	83.84	86.68	30-Nov-16 14:00:00		**312.81**	**18.92**	**83.84**	**87.70**
30-Nov-16 15:00:00	30-Nov-16 16:00:00		1,076.67	0.00	0.00	3.00	2.1	329.7		354.98	0.00	0.00	0.99		10.35	18.92	83.84	86.68	30-Nov-16 15:00:00		**365.33**	**18.92**	**83.84**	**87.67**
30-Nov-16 16:00:00	30-Nov-16 17:00:00		1,109.11	0.00	0.00	2.89	2.1	329.7		365.67	0.00	0.00	0.95		10.35	18.92	83.84	86.68	30-Nov-16 16:00:00		**376.02**	**18.92**	**83.84**	**87.63**
30-Nov-16 17:00:00	30-Nov-16 18:00:00		1,167.06	0.00	0.00	26.31	2.1	329.7		384.78	0.00	0.00	8.67		10.35	18.92	83.84	86.68	30-Nov-16 17:00:00		**395.13**	**18.92**	**83.84**	**95.35**
30-Nov-16 18:00:00	30-Nov-16 19:00:00		999.94	0.00	0.00	3.11	2.1	329.7		329.68	0.00	0.00	1.03		10.35	18.92	83.84	86.68	30-Nov-16 18:00:00		**340.03**	**18.92**	**83.84**	**87.71**
30-Nov-16 19:00:00	30-Nov-16 20:00:00		606.95	0.00	0.00	3.35	2.1	329.7		200.11	0.00	0.00	1.10		10.35	18.92	83.84	86.68	30-Nov-16 19:00:00		**210.46**	**18.92**	**83.84**	**87.78**
30-Nov-16 20:00:00	30-Nov-16 21:00:00		0.00	0.00	0.00	3.58	2.1	329.7		0.00	0.00	0.00	1.18		10.35	18.92	83.84	86.68	30-Nov-16 20:00:00		**10.35**	**18.92**	**83.84**	**87.86**
30-Nov-16 21:00:00	30-Nov-16 22:00:00		0.00	0.00	0.00	3.80	2.1	329.7		0.00	0.00	0.00	1.25		10.35	18.92	83.84	86.68	30-Nov-16 21:00:00		**10.35**	**18.92**	**83.84**	**87.93**
30-Nov-16 22:00:00	30-Nov-16 23:00:00		0.00	0.00	0.00	3.86	2.1	329.7		0.00	0.00	0.00	1.27		10.35	18.92	83.84	86.68	30-Nov-16 22:00:00		**10.35**	**18.92**	**83.84**	**87.95**
30-Nov-16 23:00:00	01-Dec-16 00:00:00		0.00	0.00	0.00	3.90	2.1	329.7		0.00	0.00	0.00	1.28		10.35	18.92	83.84	86.68	30-Nov-16 23:00:00		**10.35**	**18.92**	**83.84**	**87.96**
01-Dec-16 00:00:00	01-Dec-16 01:00:00		0.00	0.00	0.00	3.94	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	01-Dec-16 00:00:00		**10.35**	**18.92**	**83.84**	**87.98**
01-Dec-16 01:00:00	01-Dec-16 02:00:00		0.00	0.00	0.00	4.06	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	01-Dec-16 01:00:00		**10.35**	**18.92**	**83.84**	**88.02**
01-Dec-16 02:00:00	01-Dec-16 03:00:00		0.00	0.00	0.00	80.54	2.1	329.7		0.00	0.00	0.00	26.55		10.35	18.92	83.84	86.68	01-Dec-16 02:00:00		**10.35**	**18.92**	**83.84**	**113.23**
01-Dec-16 03:00:00	01-Dec-16 04:00:00		0.00	0.00	0.00	9.44	2.1	329.7		0.00	0.00	0.00	3.11		10.35	18.92	83.84	86.68	01-Dec-16 03:00:00		**10.35**	**18.92**	**83.84**	**89.79**
01-Dec-16 04:00:00	01-Dec-16 05:00:00		0.62	0.00	0.00	4.57	2.1	329.7		0.21	0.00	0.00	1.51		10.35	18.92	83.84	86.68	01-Dec-16 04:00:00		**10.56**	**18.92**	**83.84**	**88.19**
01-Dec-16 05:00:00	01-Dec-16 06:00:00		1.56	0.00	0.00	4.61	2.1	329.7		0.51	0.00	0.00	1.52		10.35	18.92	83.84	86.68	01-Dec-16 05:00:00		**10.86**	**18.92**	**83.84**	**88.20**
01-Dec-16 06:00:00	01-Dec-16 07:00:00		2.27	0.00	0.00	4.66	2.1	329.7		0.75	0.00	0.00	1.54		10.35	18.92	83.84	86.68	01-Dec-16 06:00:00		**11.10**	**18.92**	**83.84**	**88.22**
01-Dec-16 07:00:00	01-Dec-16 08:00:00		3.59	0.00	0.00	4.76	2.1	329.7		1.18	0.00	0.00	1.57		10.35	18.92	83.84	86.68	01-Dec-16 07:00:00		**11.53**	**18.92**	**83.84**	**88.25**
01-Dec-16 08:00:00	01-Dec-16 09:00:00		2.38	0.00	0.00	114.91	2.1	329.7		0.79	0.00	0.00	37.89		10.35	18.92	83.84	86.68	01-Dec-16 08:00:00		**11.14**	**18.92**	**83.84**	**124.57**
01-Dec-16 09:00:00	01-Dec-16 10:00:00		0.00	0.00	0.00	4.84	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	01-Dec-16 09:00:00		**10.35**	**18.92**	**83.84**	**88.28**
01-Dec-16 10:00:00	01-Dec-16 11:00:00		0.00	0.00	0.00	4.62	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	01-Dec-16 10:00:00		**10.35**	**18.92**	**83.84**	**88.20**
01-Dec-16 11:00:00	01-Dec-16 12:00:00		0.00	0.00	0.00	4.40	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	01-Dec-16 11:00:00		**10.35**	**18.92**	**83.84**	**88.13**
01-Dec-16 12:00:00	01-Dec-16 13:00:00		0.21	0.00	0.00	4.20	2.1	329.7		0.07	0.00	0.00	1.38		10.35	18.92	83.84	86.68	01-Dec-16 12:00:00		**10.42**	**18.92**	**83.84**	**88.06**
01-Dec-16 13:00:00	01-Dec-16 14:00:00		0.00	0.00	0.00	4.06	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	01-Dec-16 13:00:00		**10.35**	**18.92**	**83.84**	**88.02**
01-Dec-16 14:00:00	01-Dec-16 15:00:00		0.00	0.00	0.00	17.76	2.1	329.7		0.00	0.00	0.00	5.86		10.35	18.92	83.84	86.68	01-Dec-16 14:00:00		**10.35**	**18.92**	**83.84**	**92.54**
01-Dec-16 15:00:00	01-Dec-16 16:00:00		0.00	0.00	0.00	13.22	2.1	329.7		0.00	0.00	0.00	4.36		10.35	18.92	83.84	86.68	01-Dec-16 15:00:00		**10.35**	**18.92**	**83.84**	**91.04**
01-Dec-16 16:00:00	01-Dec-16 17:00:00		0.02	0.00	0.00	23.12	2.1	329.7		0.01	0.00	0.00	7.62		10.35	18.92	83.84	86.68	01-Dec-16 16:00:00		**10.36**	**18.92**	**83.84**	**94.30**
01-Dec-16 17:00:00	01-Dec-16 18:00:00		0.30	0.00	0.00	3.98	2.1	329.7		0.10	0.00	0.00	1.31		10.35	18.92	83.84	86.68	01-Dec-16 17:00:00		**10.45**	**18.92**	**83.84**	**87.99**
01-Dec-16 18:00:00	01-Dec-16 19:00:00		0.69	0.00	0.00	16.12	2.1	329.7		0.23	0.00	0.00	5.32		10.35	18.92	83.84	86.68	01-Dec-16 18:00:00		**10.58**	**18.92**	**83.84**	**92.00**
01-Dec-16 19:00:00	01-Dec-16 20:00:00		0.73	0.00	0.00	41.64	2.1	329.7		0.24	0.00	0.00	13.73		10.35	18.92	83.84	86.68	01-Dec-16 19:00:00		**10.59**	**18.92**	**83.84**	**100.41**
01-Dec-16 20:00:00	01-Dec-16 21:00:00		0.32	0.00	0.00	83.92	2.1	329.7		0.10	0.00	0.00	27.67		10.35	18.92	83.84	86.68	01-Dec-16 20:00:00		**10.45**	**18.92**	**83.84**	**114.35**
01-Dec-16 21:00:00	01-Dec-16 22:00:00		0.55	0.00	0.00	4.52	2.1	329.7		0.18	0.00	0.00	1.49		10.35	18.92	83.84	86.68	01-Dec-16 21:00:00		**10.53**	**18.92**	**83.84**	**88.17**
01-Dec-16 22:00:00	01-Dec-16 23:00:00		0.00	0.00	0.00	4.52	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	01-Dec-16 22:00:00		**10.35**	**18.92**	**83.84**	**88.17**
01-Dec-16 23:00:00	02-Dec-16 00:00:00		0.00	0.00	0.00	4.52	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	01-Dec-16 23:00:00		**10.35**	**18.92**	**83.84**	**88.17**
02-Dec-16 00:00:00	02-Dec-16 01:00:00		0.00	0.00	0.00	4.52	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	02-Dec-16 00:00:00		**10.35**	**18.92**	**83.84**	**88.17**
02-Dec-16 01:00:00	02-Dec-16 02:00:00		0.00	0.00	0.00	4.62	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	02-Dec-16 01:00:00		**10.35**	**18.92**	**83.84**	**88.20**
02-Dec-16 02:00:00	02-Dec-16 03:00:00		0.00	0.00	0.00	4.79	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	02-Dec-16 02:00:00		**10.35**	**18.92**	**83.84**	**88.26**
02-Dec-16 03:00:00	02-Dec-16 04:00:00		0.00	0.00	0.00	4.95	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	02-Dec-16 03:00:00		**10.35**	**18.92**	**83.84**	**88.31**
02-Dec-16 04:00:00	02-Dec-16 05:00:00		0.00	0.00	0.00	5.10	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	02-Dec-16 04:00:00		**10.35**	**18.92**	**83.84**	**88.36**
02-Dec-16 05:00:00	02-Dec-16 06:00:00		0.80	0.00	0.00	5.21	2.1	329.7		0.26	0.00	0.00	1.72		10.35	18.92	83.84	86.68	02-Dec-16 05:00:00		**10.61**	**18.92**	**83.84**	**88.40**
02-Dec-16 06:00:00	02-Dec-16 07:00:00		6.46	0.00	0.00	5.33	2.1	329.7		2.13	0.00	0.00	1.76		10.35	18.92	83.84	86.68	02-Dec-16 06:00:00		**12.48**	**18.92**	**83.84**	**88.44**
02-Dec-16 07:00:00	02-Dec-16 08:00:00		7.27	0.00	0.00	5.46	2.1	329.7		2.40	0.00	0.00	1.80		10.35	18.92	83.84	86.68	02-Dec-16 07:00:00		**12.75**	**18.92**	**83.84**	**88.48**
02-Dec-16 08:00:00	02-Dec-16 09:00:00		1.66	0.00	0.00	5.59	2.1	329.7		0.55	0.00	0.00	1.84		10.35	18.92	83.84	86.68	02-Dec-16 08:00:00		**10.90**	**18.92**	**83.84**	**88.52**
02-Dec-16 09:00:00	02-Dec-16 10:00:00		0.00	0.00	0.00	5.38	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	02-Dec-16 09:00:00		**10.35**	**18.92**	**83.84**	**88.46**
02-Dec-16 10:00:00	02-Dec-16 11:00:00		1.93	0.00	0.00	4.98	2.1	329.7		0.64	0.00	0.00	1.64		10.35	18.92	83.84	86.68	02-Dec-16 10:00:00		**10.99**	**18.92**	**83.84**	**88.32**
02-Dec-16 11:00:00	02-Dec-16 12:00:00		1.08	0.00	0.00	4.58	2.1	329.7		0.36	0.00	0.00	1.51		10.35	18.92	83.84	86.68	02-Dec-16 11:00:00		**10.71**	**18.92**	**83.84**	**88.19**
02-Dec-16 12:00:00	02-Dec-16 13:00:00		265.55	0.00	0.00	4.19	2.1	329.7		87.55	0.00	0.00	1.38		10.35	18.92	83.84	86.68	02-Dec-16 12:00:00		**97.90**	**18.92**	**83.84**	**88.06**
02-Dec-16 13:00:00	02-Dec-16 14:00:00		808.52	0.00	0.00	4.05	2.1	329.7		266.57	0.00	0.00	1.33		10.35	18.92	83.84	86.68	02-Dec-16 13:00:00		**276.92**	**18.92**	**83.84**	**88.01**
02-Dec-16 14:00:00	02-Dec-16 15:00:00		50.79	0.00	0.00	114.04	2.1	329.7		16.74	0.00	0.00	37.60		10.35	18.92	83.84	86.68	02-Dec-16 14:00:00		**27.09**	**18.92**	**83.84**	**124.28**
02-Dec-16 15:00:00	02-Dec-16 16:00:00		0.64	0.00	0.00	4.09	2.1	329.7		0.21	0.00	0.00	1.35		10.35	18.92	83.84	86.68	02-Dec-16 15:00:00		**10.56**	**18.92**	**83.84**	**88.03**
02-Dec-16 16:00:00	02-Dec-16 17:00:00		0.00	0.00	0.00	38.49	2.1	329.7		0.00	0.00	0.00	12.69		10.35	18.92	83.84	86.68	02-Dec-16 16:00:00		**10.35**	**18.92**	**83.84**	**99.37**
02-Dec-16 17:00:00	02-Dec-16 18:00:00		0.00	0.00	0.00	50.58	2.1	329.7		0.00	0.00	0.00	16.68		10.35	18.92	83.84	86.68	02-Dec-16 17:00:00		**10.35**	**18.92**	**83.84**	**103.36**
02-Dec-16 18:00:00	02-Dec-16 19:00:00		0.00	0.00	0.00	4.07	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	02-Dec-16 18:00:00		**10.35**	**18.92**	**83.84**	**88.02**
02-Dec-16 19:00:00	02-Dec-16 20:00:00		0.10	0.00	0.00	4.21	2.1	329.7		0.03	0.00	0.00	1.39		10.35	18.92	83.84	86.68	02-Dec-16 19:00:00		**10.38**	**18.92**	**83.84**	**88.07**
02-Dec-16 20:00:00	02-Dec-16 21:00:00		0.75	0.00	0.00	4.34	2.1	329.7		0.25	0.00	0.00	1.43		10.35	18.92	83.84	86.68	02-Dec-16 20:00:00		**10.60**	**18.92**	**83.84**	**88.11**
02-Dec-16 21:00:00	02-Dec-16 22:00:00		1.49	0.00	0.00	4.48	2.1	329.7		0.49	0.00	0.00	1.48		10.35	18.92	83.84	86.68	02-Dec-16 21:00:00		**10.84**	**18.92**	**83.84**	**88.16**
02-Dec-16 22:00:00	02-Dec-16 23:00:00		0.14	0.00	0.00	38.82	2.1	329.7		0.05	0.00	0.00	12.80		10.35	18.92	83.84	86.68	02-Dec-16 22:00:00		**10.40**	**18.92**	**83.84**	**99.48**
02-Dec-16 23:00:00	03-Dec-16 00:00:00		0.00	0.00	0.00	44.91	2.1	329.7		0.00	0.00	0.00	14.81		10.35	18.92	83.84	86.68	02-Dec-16 23:00:00		**10.35**	**18.92**	**83.84**	**101.49**
03-Dec-16 00:00:00	03-Dec-16 01:00:00		0.00	0.00	0.00	4.94	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	03-Dec-16 00:00:00		**10.35**	**18.92**	**83.84**	**88.31**
03-Dec-16 01:00:00	03-Dec-16 02:00:00		0.00	0.00	0.00	5.00	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	03-Dec-16 01:00:00		**10.35**	**18.92**	**83.84**	**88.33**
03-Dec-16 02:00:00	03-Dec-16 03:00:00		0.00	0.00	0.00	24.57	2.1	329.7		0.00	0.00	0.00	8.10		10.35	18.92	83.84	86.68	03-Dec-16 02:00:00		**10.35**	**18.92**	**83.84**	**94.78**
03-Dec-16 03:00:00	03-Dec-16 04:00:00		0.00	0.00	0.00	5.12	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	03-Dec-16 03:00:00		**10.35**	**18.92**	**83.84**	**88.37**
03-Dec-16 04:00:00	03-Dec-16 05:00:00		0.00	0.00	0.00	5.18	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	03-Dec-16 04:00:00		**10.35**	**18.92**	**83.84**	**88.39**
03-Dec-16 05:00:00	03-Dec-16 06:00:00		0.00	0.00	0.00	5.24	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	03-Dec-16 05:00:00		**10.35**	**18.92**	**83.84**	**88.41**
03-Dec-16 06:00:00	03-Dec-16 07:00:00		3.23	0.00	0.00	74.64	2.1	329.7		1.06	0.00	0.00	24.61		10.35	18.92	83.84	86.68	03-Dec-16 06:00:00		**11.41**	**18.92**	**83.84**	**111.29**
03-Dec-16 07:00:00	03-Dec-16 08:00:00		5.47	0.00	0.00	183.36	2.1	329.7		1.80	0.00	0.00	60.46		10.35	18.92	83.84	86.68	03-Dec-16 07:00:00		**12.15**	**18.92**	**83.84**	**147.14**
03-Dec-16 08:00:00	03-Dec-16 09:00:00		15.89	0.00	0.00	52.54	2.1	329.7		5.24	0.00	0.00	17.32		10.35	18.92	83.84	86.68	03-Dec-16 08:00:00		**15.59**	**18.92**	**83.84**	**104.00**
03-Dec-16 09:00:00	03-Dec-16 10:00:00		14.50	0.00	0.00	260.88	2.1	329.7		4.78	0.00	0.00	86.01		10.35	18.92	83.84	86.68	03-Dec-16 09:00:00		**15.13**	**18.92**	**83.84**	**172.69**
03-Dec-16 10:00:00	03-Dec-16 11:00:00		12.69	0.00	0.00	5.51	2.1	329.7		4.18	0.00	0.00	1.82		10.35	18.92	83.84	86.68	03-Dec-16 10:00:00		**14.53**	**18.92**	**83.84**	**88.50**
03-Dec-16 11:00:00	03-Dec-16 12:00:00		3.36	0.00	0.00	15.24	2.1	329.7		1.11	0.00	0.00	5.03		10.35	18.92	83.84	86.68	03-Dec-16 11:00:00		**11.46**	**18.92**	**83.84**	**91.71**
03-Dec-16 12:00:00	03-Dec-16 13:00:00		0.00	0.00	0.00	3.99	2.1	329.7		0.00	0.00	0.00	1.32		10.35	18.92	83.84	86.68	03-Dec-16 12:00:00		**10.35**	**18.92**	**83.84**	**88.00**
03-Dec-16 13:00:00	03-Dec-16 14:00:00		0.00	0.00	0.00

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
05-Dec-16 15:00:00	05-Dec-16 16:00:00		0.00	0.00	0.00	3.73	2.1	329.7		0.00	0.00	0.00	1.23		10.35	18.92	83.84	86.68	05-Dec-16 15:00:00		**10.35**	**18.92**	**83.84**	**87.91**
05-Dec-16 16:00:00	05-Dec-16 17:00:00		0.00	0.00	0.00	41.79	2.1	329.7		0.00	0.00	0.00	13.78		10.35	18.92	83.84	86.68	05-Dec-16 16:00:00		**10.35**	**18.92**	**83.84**	**100.46**
05-Dec-16 17:00:00	05-Dec-16 18:00:00		0.00	0.00	0.00	4.43	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	05-Dec-16 17:00:00		**10.35**	**18.92**	**83.84**	**88.14**
05-Dec-16 18:00:00	05-Dec-16 19:00:00		22.87	0.00	0.00	4.36	2.1	329.7		7.54	0.00	0.00	1.44		10.35	18.92	83.84	86.68	05-Dec-16 18:00:00		**17.89**	**18.92**	**83.84**	**88.12**
05-Dec-16 19:00:00	05-Dec-16 20:00:00		744.98	0.00	0.00	4.29	2.1	329.7		245.62	0.00	0.00	1.42		10.35	18.92	83.84	86.68	05-Dec-16 19:00:00		**255.97**	**18.92**	**83.84**	**88.10**
05-Dec-16 20:00:00	05-Dec-16 21:00:00		1,367.18	0.00	0.00	4.23	2.1	329.7		450.76	0.00	0.00	1.39		10.35	18.92	83.84	86.68	05-Dec-16 20:00:00		**461.11**	**18.92**	**83.84**	**88.07**
05-Dec-16 21:00:00	05-Dec-16 22:00:00		1,758.94	0.00	0.00	4.30	2.1	329.7		579.92	0.00	0.00	1.42		10.35	18.92	83.84	86.68	05-Dec-16 21:00:00		**590.27**	**18.92**	**83.84**	**88.10**
05-Dec-16 22:00:00	05-Dec-16 23:00:00		1,786.82	0.00	0.00	4.36	2.1	329.7		589.12	0.00	0.00	1.44		10.35	18.92	83.84	86.68	05-Dec-16 22:00:00		**599.47**	**18.92**	**83.84**	**88.12**
05-Dec-16 23:00:00	06-Dec-16 00:00:00		1,789.70	0.00	0.00	4.43	2.1	329.7		590.07	0.00	0.00	1.46		10.35	18.92	83.84	86.68	05-Dec-16 23:00:00		**600.42**	**18.92**	**83.84**	**88.14**
06-Dec-16 00:00:00	06-Dec-16 01:00:00		1,793.07	0.00	0.00	4.49	2.1	329.7		591.17	0.00	0.00	1.48		10.35	18.92	83.84	86.68	06-Dec-16 00:00:00		**601.52**	**18.92**	**83.84**	**88.16**
06-Dec-16 01:00:00	06-Dec-16 02:00:00		1,794.32	0.00	0.00	4.51	2.1	329.7		591.59	0.00	0.00	1.49		10.35	18.92	83.84	86.68	06-Dec-16 01:00:00		**601.94**	**18.92**	**83.84**	**88.17**
06-Dec-16 02:00:00	06-Dec-16 03:00:00		1,795.53	0.00	0.00	4.50	2.1	329.7		591.99	0.00	0.00	1.48		10.35	18.92	83.84	86.68	06-Dec-16 02:00:00		**602.34**	**18.92**	**83.84**	**88.16**
06-Dec-16 03:00:00	06-Dec-16 04:00:00		1,798.94	0.00	0.00	4.49	2.1	329.7		593.11	0.00	0.00	1.48		10.35	18.92	83.84	86.68	06-Dec-16 03:00:00		**603.46**	**18.92**	**83.84**	**88.16**
06-Dec-16 04:00:00	06-Dec-16 05:00:00		1,801.16	0.00	0.00	4.48	2.1	329.7		593.84	0.00	0.00	1.48		10.35	18.92	83.84	86.68	06-Dec-16 04:00:00		**604.19**	**18.92**	**83.84**	**88.16**
06-Dec-16 05:00:00	06-Dec-16 06:00:00		1,846.05	0.00	0.00	4.59	2.1	329.7		608.64	0.00	0.00	1.51		10.35	18.92	83.84	86.68	06-Dec-16 05:00:00		**618.99**	**18.92**	**83.84**	**88.19**
06-Dec-16 06:00:00	06-Dec-16 07:00:00		1,746.70	0.00	0.00	4.65	2.1	329.7		575.89	0.00	0.00	1.53		10.35	18.92	83.84	86.68	06-Dec-16 06:00:00		**586.24**	**18.92**	**83.84**	**88.21**
06-Dec-16 07:00:00	06-Dec-16 08:00:00		1,370.14	0.00	0.00	4.71	2.1	329.7		451.74	0.00	0.00	1.55		10.35	18.92	83.84	86.68	06-Dec-16 07:00:00		**462.09**	**18.92**	**83.84**	**88.23**
06-Dec-16 08:00:00	06-Dec-16 09:00:00		875.10	0.00	0.00	4.77	2.1	329.7		288.52	0.00	0.00	1.57		10.35	18.92	83.84	86.68	06-Dec-16 08:00:00		**298.87**	**18.92**	**83.84**	**88.25**
06-Dec-16 09:00:00	06-Dec-16 10:00:00		0.00	0.00	0.00	4.93	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	06-Dec-16 09:00:00		**10.35**	**18.92**	**83.84**	**88.30**
06-Dec-16 10:00:00	06-Dec-16 11:00:00		0.00	0.00	0.00	4.95	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	06-Dec-16 10:00:00		**10.35**	**18.92**	**83.84**	**88.31**
06-Dec-16 11:00:00	06-Dec-16 12:00:00		0.00	0.00	0.00	4.98	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	06-Dec-16 11:00:00		**10.35**	**18.92**	**83.84**	**88.32**
06-Dec-16 12:00:00	06-Dec-16 13:00:00		2.07	0.00	0.00	5.00	2.1	329.7		0.68	0.00	0.00	1.65		10.35	18.92	83.84	86.68	06-Dec-16 12:00:00		**11.03**	**18.92**	**83.84**	**88.33**
06-Dec-16 13:00:00	06-Dec-16 14:00:00		206.43	0.00	0.00	4.97	2.1	329.7		68.06	0.00	0.00	1.64		10.35	18.92	83.84	86.68	06-Dec-16 13:00:00		**78.41**	**18.92**	**83.84**	**88.32**
06-Dec-16 14:00:00	06-Dec-16 15:00:00		445.06	0.00	0.00	4.78	2.1	329.7		146.74	0.00	0.00	1.57		10.35	18.92	83.84	86.68	06-Dec-16 14:00:00		**157.09**	**18.92**	**83.84**	**88.25**
06-Dec-16 15:00:00	06-Dec-16 16:00:00		714.36	0.00	0.00	4.58	2.1	329.7		235.53	0.00	0.00	1.51		10.35	18.92	83.84	86.68	06-Dec-16 15:00:00		**245.88**	**18.92**	**83.84**	**88.19**
06-Dec-16 16:00:00	06-Dec-16 17:00:00		1,014.43	0.00	0.00	4.38	2.1	329.7		334.46	0.00	0.00	1.44		10.35	18.92	83.84	86.68	06-Dec-16 16:00:00		**344.81**	**18.92**	**83.84**	**88.12**
06-Dec-16 17:00:00	06-Dec-16 18:00:00		867.84	0.00	0.00	4.43	2.1	329.7		286.13	0.00	0.00	1.46		10.35	18.92	83.84	86.68	06-Dec-16 17:00:00		**296.48**	**18.92**	**83.84**	**88.14**
06-Dec-16 18:00:00	06-Dec-16 19:00:00		185.06	0.00	0.00	4.46	2.1	329.7		61.01	0.00	0.00	1.47		10.35	18.92	83.84	86.68	06-Dec-16 18:00:00		**71.36**	**18.92**	**83.84**	**88.15**
06-Dec-16 19:00:00	06-Dec-16 20:00:00		0.00	0.00	0.00	4.48	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	06-Dec-16 19:00:00		**10.35**	**18.92**	**83.84**	**88.16**
06-Dec-16 20:00:00	06-Dec-16 21:00:00		0.00	0.00	0.00	4.51	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	06-Dec-16 20:00:00		**10.35**	**18.92**	**83.84**	**88.17**
06-Dec-16 21:00:00	06-Dec-16 22:00:00		0.00	0.00	0.00	4.61	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	06-Dec-16 21:00:00		**10.35**	**18.92**	**83.84**	**88.20**
06-Dec-16 22:00:00	06-Dec-16 23:00:00		0.00	0.00	0.00	4.78	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	06-Dec-16 22:00:00		**10.35**	**18.92**	**83.84**	**88.26**
06-Dec-16 23:00:00	07-Dec-16 00:00:00		0.00	0.00	0.00	33.65	2.1	329.7		0.00	0.00	0.00	11.10		10.35	18.92	83.84	86.68	06-Dec-16 23:00:00		**10.35**	**18.92**	**83.84**	**97.78**
07-Dec-16 00:00:00	07-Dec-16 01:00:00		0.00	0.00	0.00	4.99	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	07-Dec-16 00:00:00		**10.35**	**18.92**	**83.84**	**88.33**
07-Dec-16 01:00:00	07-Dec-16 02:00:00		0.37	0.00	0.00	13.57	2.1	329.7		0.12	0.00	0.00	4.47		10.35	18.92	83.84	86.68	07-Dec-16 01:00:00		**10.47**	**18.92**	**83.84**	**91.15**
07-Dec-16 02:00:00	07-Dec-16 03:00:00		0.00	0.00	0.00	14.31	2.1	329.7		0.00	0.00	0.00	4.72		10.35	18.92	83.84	86.68	07-Dec-16 02:00:00		**10.35**	**18.92**	**83.84**	**91.40**
07-Dec-16 03:00:00	07-Dec-16 04:00:00		0.00	0.00	0.00	4.63	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	07-Dec-16 03:00:00		**10.35**	**18.92**	**83.84**	**88.21**
07-Dec-16 04:00:00	07-Dec-16 05:00:00		0.00	0.00	0.00	4.57	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	07-Dec-16 04:00:00		**10.35**	**18.92**	**83.84**	**88.19**
07-Dec-16 05:00:00	07-Dec-16 06:00:00		0.00	0.00	0.00	42.06	2.1	329.7		0.00	0.00	0.00	13.87		10.35	18.92	83.84	86.68	07-Dec-16 05:00:00		**10.35**	**18.92**	**83.84**	**100.55**
07-Dec-16 06:00:00	07-Dec-16 07:00:00		0.00	0.00	0.00	93.30	2.1	329.7		0.00	0.00	0.00	30.76		10.35	18.92	83.84	86.68	07-Dec-16 06:00:00		**10.35**	**18.92**	**83.84**	**117.44**
07-Dec-16 07:00:00	07-Dec-16 08:00:00		0.00	0.00	0.00	10.19	2.1	329.7		0.00	0.00	0.00	3.36		10.35	18.92	83.84	86.68	07-Dec-16 07:00:00		**10.35**	**18.92**	**83.84**	**96.04**
07-Dec-16 08:00:00	07-Dec-16 09:00:00		0.00	0.00	0.00	6.18	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	07-Dec-16 08:00:00		**10.35**	**18.92**	**83.84**	**88.72**
07-Dec-16 09:00:00	07-Dec-16 10:00:00		0.00	0.00	0.00	19.76	2.1	329.7		0.00	0.00	0.00	6.51		10.35	18.92	83.84	86.68	07-Dec-16 09:00:00		**10.35**	**18.92**	**83.84**	**93.19**
07-Dec-16 10:00:00	07-Dec-16 11:00:00		0.00	0.00	0.00	11.73	2.1	329.7		0.00	0.00	0.00	3.87		10.35	18.92	83.84	86.68	07-Dec-16 10:00:00		**10.35**	**18.92**	**83.84**	**90.55**
07-Dec-16 11:00:00	07-Dec-16 12:00:00		0.00	0.00	0.00	4.87	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	07-Dec-16 11:00:00		**10.35**	**18.92**	**83.84**	**88.29**
07-Dec-16 12:00:00	07-Dec-16 13:00:00		0.00	0.00	0.00	4.56	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	07-Dec-16 12:00:00		**10.35**	**18.92**	**83.84**	**88.18**
07-Dec-16 13:00:00	07-Dec-16 14:00:00		0.00	0.00	0.00	4.30	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	07-Dec-16 13:00:00		**10.35**	**18.92**	**83.84**	**88.10**
07-Dec-16 14:00:00	07-Dec-16 15:00:00		0.00	0.00	0.00	18.43	2.1	329.7		0.00	0.00	0.00	6.08		10.35	18.92	83.84	86.68	07-Dec-16 14:00:00		**10.35**	**18.92**	**83.84**	**92.76**
07-Dec-16 15:00:00	07-Dec-16 16:00:00		0.00	0.00	0.00	3.77	2.1	329.7		0.00	0.00	0.00	1.24		10.35	18.92	83.84	86.68	07-Dec-16 15:00:00		**10.35**	**18.92**	**83.84**	**87.92**
07-Dec-16 16:00:00	07-Dec-16 17:00:00		0.00	0.00	0.00	12.70	2.1	329.7		0.00	0.00	0.00	4.19		10.35	18.92	83.84	86.68	07-Dec-16 16:00:00		**10.35**	**18.92**	**83.84**	**90.87**
07-Dec-16 17:00:00	07-Dec-16 18:00:00		0.00	0.00	0.00	3.55	2.1	329.7		0.00	0.00	0.00	1.17		10.35	18.92	83.84	86.68	07-Dec-16 17:00:00		**10.35**	**18.92**	**83.84**	**87.85**
07-Dec-16 18:00:00	07-Dec-16 19:00:00		0.00	0.00	0.00	3.63	2.1	329.7		0.00	0.00	0.00	1.20		10.35	18.92	83.84	86.68	07-Dec-16 18:00:00		**10.35**	**18.92**	**83.84**	**87.88**
07-Dec-16 19:00:00	07-Dec-16 20:00:00		0.00	0.00	0.00	3.70	2.1	329.7		0.00	0.00	0.00	1.22		10.35	18.92	83.84	86.68	07-Dec-16 19:00:00		**10.35**	**18.92**	**83.84**	**87.90**
07-Dec-16 20:00:00	07-Dec-16 21:00:00		0.00	0.00	0.00	5.11	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	07-Dec-16 20:00:00		**10.35**	**18.92**	**83.84**	**88.37**
07-Dec-16 21:00:00	07-Dec-16 22:00:00		0.00	0.00	0.00	3.83	2.1	329.7		0.00	0.00	0.00	1.26		10.35	18.92	83.84	86.68	07-Dec-16 21:00:00		**10.35**	**18.92**	**83.84**	**87.94**
07-Dec-16 22:00:00	07-Dec-16 23:00:00		0.00	0.00	0.00	3.96	2.1	329.7		0.00	0.00	0.00	1.31		10.35	18.92	83.84	86.68	07-Dec-16 22:00:00		**10.35**	**18.92**	**83.84**	**87.99**
07-Dec-16 23:00:00	08-Dec-16 00:00:00		0.00	0.00	0.00	4.09	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	07-Dec-16 23:00:00		**10.35**	**18.92**	**83.84**	**88.03**
08-Dec-16 00:00:00	08-Dec-16 01:00:00		0.19	0.00	0.00	114.21	2.1	329.7		0.06	0.00	0.00	37.66		10.35	18.92	83.84	86.68	08-Dec-16 00:00:00		**10.41**	**18.92**	**83.84**	**124.34**
08-Dec-16 01:00:00	08-Dec-16 02:00:00		0.00	0.00	0.00	54.46	2.1	329.7		0.00	0.00	0.00	17.95		10.35	18.92	83.84	86.68	08-Dec-16 01:00:00		**10.35**	**18.92**	**83.84**	**104.63**
08-Dec-16 02:00:00	08-Dec-16 03:00:00		0.00	0.00	0.00	4.45	2.1	329.7		0.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	08-Dec-16 02:00:00		**10.35**	**18.92**	**83.84**	**88.15**
08-Dec-16 03:00:00	08-Dec-16 04:00:00		0.00	0.00	0.00	9.28	2.1	329.7		0.00	0.00	0.00	3.06		10.35	18.92	83.84	86.68	08-Dec-16 03:00:00		**10.35**	**18.92**	**83.84**	**89.74**
08-Dec-16 04:00:00	08-Dec-16 05:00:00		0.00	0.00	0.00	4.20	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	08-Dec-16 04:00:00		**10.35**	**18.92**	**83.84**	**88.07**
08-Dec-16 05:00:00	08-Dec-16 06:00:00		0.00	0.00	0.00	114.30	2.1	329.7		0.00	0.00	0.00	37.68		10.35	18.92	83.84	86.68	08-Dec-16 05:00:00		**10.35**	**18.92**	**83.84**	**124.36**
08-Dec-16 06:00:00	08-Dec-16 07:00:00		0.00	0.00	0.00	115.88	2.1	329.7		0.00	0.00	0.00	38.21		10.35	18.92	83.84	86.68	08-Dec-16 06:00:00		**10.35**	**18.92**	**83.84**	**124.89**
08-Dec-16 07:00:00	08-Dec-16 08:00:00		21.20	0.00	0.00	667.34	2.1	329.7		6.99	0.00	0.00	220.02		10.35	18.92	83.84	86.68	08-Dec-16 07:00:00		**17.34**	**18.92**	**83.84**	**306.70**
08-Dec-16 08:00:00	08-Dec-16 09:00:00		251.37	0.00	0.00	789.49	2.1	329.7		82.88	0.00	0.00	260.29		10.35	18.92	83.84	86.68	08-Dec-16 08:00:00		**93.23**	**18.92**	**83.84**	**346.97**
08-Dec-16 09:00:00	08-Dec-16 10:00:00		0.00	0.00	0.00	857.06	2.1	329.7		0.00	0.00	0.00	282.57		10.35	18.92	83.84	86.68	08-Dec-16 09:00:00		**10.35**	**18.92**	**83.84**	**369.25**
08-Dec-16 10:00:00	08-Dec-16 11:00:00		0.00	0.00	0.00	838.75	2.1	329.7		0.00	0.00	0.00	276.53		10.35	18.92	83.84	86.68	08-Dec-16 10:00:00		**10.35**	**18.92**	**83.84**	**363.21**
08-Dec-16 11:00:00	08-Dec-16 12:00:00		0.00	0.00	0.00	836.95	2.1	329.7		0.00	0.00	0.00	275.94		10.35	18.92	83.84	86.68	08-Dec-16 11:00:00		**10.35**	**18.92**	**83.84**	**362.62**
08-Dec-16 12:00:00	08-Dec-16 13:00:00		0.00	0.00	0.00	837.49	2.1	329.7		0.00	0.00	0.00	276.12		10.35	18.92	83.84	86.68	08-Dec-16 12:00:00		**10.35**	**18.92**	**83.84**	**362.80**
08-Dec-16 13:00:00	08-Dec-16 14:00:00		0.00	0.00	0.00	15.53	2.1	329.7		0.00	0.00	0.00	5.12		10.35	18.92	83.84	86.68	08-Dec-16 13:00:00		**10.35**	**18.92**	**83.84**	**91.80**
08-Dec-16 14:00:00	08-Dec-16 15:00:00		0.09	0.00	0.00	3.61	2.1	329.7		0.03	0.00	0.00	1.19		10.35	18.92	83.84	86.68	08-Dec-16 14:00:00		**10.38**	**18.92**	**83.84**	**87.87**
08-Dec-16 15:00:00	08-Dec-16 16:00:00		31.85	0.00	0.00	3.76	2.1	329.7		10.50	0.00	0.00	1.24		10.35	18.92	83.84	86.68	08-Dec-16 15:00:00		**20.85**	**18.92**	**83.84**	**87.92**
08-Dec-16 16:00:00	08-Dec-16 17:00:00		0.00	0.00	0.00	113.88	2.1	329.7		0.00	0.00	0.00	37.54		10.35	18.92	83.84	86.68	08-Dec-16 16:00:00		**10.35**	**18.92**	**83.84**	**124.22**
08-Dec-16 17:00:00	08-Dec-16 18:00:00		0.00	0.00	0.00	4.16	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	08-Dec-16 17:00:00		**10.35**	**18.92**	**83.84**	**88.05**
08-Dec-16 18:00:00	08-Dec-16 19:00:00		0.00	0.00	0.00	4.36	2.1	329.7		0.00	0.00	0.00	1.44		10.35	18.92	83.84	86.68	08-Dec-16 18:00:00		**10.35**	**18.92**	**83.84**	**88.12**
08-Dec-16 19:00:00	08-Dec-16 20:00:00		0.00	0.00	0.00	4.56	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	08-Dec-16 19:00:00		**10.35**	**18.92**	**83.84**	**88.18**
08-Dec-16 20:00:00	08-Dec-16 21:00:00		0.00	0.00	0.00	202.20	2.1	329.7		0.00	0.00	0.00	66.67		10.35	18.92	83.84	86.68	08-Dec-16 20:00:00		**10.35**	**18.92**	**83.84**	**153.35**
08-Dec-16 21:00:00	08-Dec-16 22:00:00		0.00	0.00	0.00	229.11	2.1	329.7		0.00	0.00	0.00	75.54		10.35	18.92	83.84	86.68	08-Dec-16 21:00:00		**10.35**	**18.92**	**83.84**	**162.22**
08-Dec-16 22:00:00	08-Dec-16 23:00:00		0.00	0.00	0.00	14.68	2.1	329.7		0.00	0.00	0.00	4.84		10.35	18.92	83.84	86.68	08-Dec-16 22:00:00		**10.35**	**18.92**	**83.84**	**91.52**
08-Dec-16 23:00:00	09-Dec-16 00:00:00		0.00	0.00	0.00	115.19	2.1	329.7		0.00	0.00	0.00	37.98		10.35	18.92	83.84	86.68	08-Dec-16 23:00:00		**10.35**	**18.92**	**83.84**	**124.66**
09-Dec-16 00:00:00	09-Dec-16 01:00:00		0.00	0.00	0.00	5.37	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	09-Dec-16 00:00:00		**10.35**	**18.92**	**83.84**	**88.45**
09-Dec-16 01:00:00	09-Dec-16 02:00:00		0.00	0.00	0.00	80.93	2.1	329.7		0.00	0.00	0.00	26.68		10.35	18.92	83.84	86.68	09-Dec-16 01:00:00		**10.35**	**18.92**	**83.84**	**113.36**
09-Dec-16 02:00:00	09-Dec-16 03:00:00		0.00	0.00	0.00	295.70	2.1	329.7		0.00	0.00	0.00	97.49		10.35	18.92	83.84	86.68	09-Dec-16 02:00:00		**10.35**	**18.92**	**83.84**	**184.17**
09-Dec-16 03:00:00	09-Dec-16 04:00:00		0.00	0.00	0.00	301.87	2.1	329.7		0.00	0.00	0.00	99.53		10.35	18.92	83.84	86.68	09-Dec-16 03:00:00		**10.35**	**18.92**	**83.84**	**186.21**
09-Dec-16 04:00:00	09-Dec-16 05:00:00		0.52	0.00	0.00	299.95	2.1	329.7		0.17	0.00	0.00	98.89		10.35	18.92	83.84	86.68	09-Dec-16 04:00:00		**10.52**	**18.92**	**83.84**	**185.57**
09-Dec-16 05:00:00	09-Dec-16 06:00:00		0.00	0.00	0.00	283.72	2.1	329.7		0.00	0.00	0.00	93.54		10.35	18.92	83.84	86.68	09-Dec-16 05:00:00		**10.35**	**18.92**	**83.84**	**180.22**
09-Dec-16 06:00:00	09-Dec-16 07:00:00		0.00	0.00	0.00	22.42	2.1	329.7		0.00	0.00	0.00	7.39		10.35	18.92	83.84	86.68	09-Dec-16 06:00:00		**10.35**	**18.92**	**83.84**	**94.07**
09-Dec-16 07:00:00	09-Dec-16 08:00:00		0.00	0.00	0.00	5.29	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	09-Dec-16 07:00:00		**10.35**	**18.92**	**83.84**	**88.43**
09-Dec-16 08:00:00	09-Dec-16 09:00:00		0.00	0.00	0.00	5.45	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	09-Dec-16 08:00:00		**10.35**	**18.92**	**83.84**	**88.48**
09-Dec-16 09:00:00	09-Dec-16 10:00:00		0.00	0.00	0.00	51.64	2.1	329.7		0.00	0.00	0.00	17.03		10.35	18.92	83.84	86.68	09-Dec-16 09:00:00		**10.35**	**18.92**	**83.84**	**103.71**
09-Dec-16 10:00:00	09-Dec-16 11:00:00		0.00	0.00	0.00	5.25	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	09-Dec-16 10:00:00		**10.35**	**18.92**	**83.84**	**88.41**
09-Dec-16 11:00:00	09-Dec-16 12:00:00		0.00	0.00	0.00	5.05	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	09-Dec-16 11:00:00		**10.35**	**18.92**	**83.84**	**88.34**
09-Dec-16 12:00:00	09-Dec-16 13:00

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
11-Dec-16 14:00:00	11-Dec-16 15:00:00		0.00	0.00	0.00	4.62	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	11-Dec-16 14:00:00		**10.35**	**18.92**	**83.84**	**88.20**
11-Dec-16 15:00:00	11-Dec-16 16:00:00		0.00	0.00	0.00	4.60	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	11-Dec-16 15:00:00		**10.35**	**18.92**	**83.84**	**88.20**
11-Dec-16 16:00:00	11-Dec-16 17:00:00		0.00	0.00	0.00	4.58	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	11-Dec-16 16:00:00		**10.35**	**18.92**	**83.84**	**88.19**
11-Dec-16 17:00:00	11-Dec-16 18:00:00		0.00	0.00	0.00	4.56	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	11-Dec-16 17:00:00		**10.35**	**18.92**	**83.84**	**88.18**
11-Dec-16 18:00:00	11-Dec-16 19:00:00		0.00	0.00	0.00	4.71	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	11-Dec-16 18:00:00		**10.35**	**18.92**	**83.84**	**88.23**
11-Dec-16 19:00:00	11-Dec-16 20:00:00		0.00	0.00	0.00	63.22	2.1	329.7		0.00	0.00	0.00	20.84		10.35	18.92	83.84	86.68	11-Dec-16 19:00:00		**10.35**	**18.92**	**83.84**	**107.52**
11-Dec-16 20:00:00	11-Dec-16 21:00:00		0.00	0.00	0.00	5.10	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	11-Dec-16 20:00:00		**10.35**	**18.92**	**83.84**	**88.36**
11-Dec-16 21:00:00	11-Dec-16 22:00:00		0.00	0.00	0.00	9.02	2.1	329.7		0.00	0.00	0.00	2.97		10.35	18.92	83.84	86.68	11-Dec-16 21:00:00		**10.35**	**18.92**	**83.84**	**89.65**
11-Dec-16 22:00:00	11-Dec-16 23:00:00		0.00	0.00	0.00	6.76	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	11-Dec-16 22:00:00		**10.35**	**18.92**	**83.84**	**88.91**
11-Dec-16 23:00:00	12-Dec-16 00:00:00		0.00	0.00	0.00	5.02	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	11-Dec-16 23:00:00		**10.35**	**18.92**	**83.84**	**88.33**
12-Dec-16 00:00:00	12-Dec-16 01:00:00		0.00	0.00	0.00	4.92	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	12-Dec-16 00:00:00		**10.35**	**18.92**	**83.84**	**88.30**
12-Dec-16 01:00:00	12-Dec-16 02:00:00		0.00	0.00	0.00	4.82	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	12-Dec-16 01:00:00		**10.35**	**18.92**	**83.84**	**88.27**
12-Dec-16 02:00:00	12-Dec-16 03:00:00		0.00	0.00	0.00	4.77	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	12-Dec-16 02:00:00		**10.35**	**18.92**	**83.84**	**88.25**
12-Dec-16 03:00:00	12-Dec-16 04:00:00		0.07	0.00	0.00	4.92	2.1	329.7		0.02	0.00	0.00	1.62		10.35	18.92	83.84	86.68	12-Dec-16 03:00:00		**10.37**	**18.92**	**83.84**	**88.30**
12-Dec-16 04:00:00	12-Dec-16 05:00:00		0.00	0.00	0.00	4.97	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	12-Dec-16 04:00:00		**10.35**	**18.92**	**83.84**	**88.32**
12-Dec-16 05:00:00	12-Dec-16 06:00:00		0.00	0.00	0.00	5.02	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	12-Dec-16 05:00:00		**10.35**	**18.92**	**83.84**	**88.33**
12-Dec-16 06:00:00	12-Dec-16 07:00:00		0.00	0.00	0.00	5.05	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	12-Dec-16 06:00:00		**10.35**	**18.92**	**83.84**	**88.35**
12-Dec-16 07:00:00	12-Dec-16 08:00:00		0.00	0.00	0.00	4.94	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	12-Dec-16 07:00:00		**10.35**	**18.92**	**83.84**	**88.31**
12-Dec-16 08:00:00	12-Dec-16 09:00:00		0.00	0.00	0.00	4.81	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	12-Dec-16 08:00:00		**10.35**	**18.92**	**83.84**	**88.27**
12-Dec-16 09:00:00	12-Dec-16 10:00:00		0.00	0.00	0.00	4.69	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	12-Dec-16 09:00:00		**10.35**	**18.92**	**83.84**	**88.23**
12-Dec-16 10:00:00	12-Dec-16 11:00:00		0.35	271.77	0.00	4.56	2.1	329.7		0.11	89.60	0.00	1.50		10.35	18.92	83.84	86.68	12-Dec-16 10:00:00		**10.46**	**108.52**	**83.84**	**88.18**
12-Dec-16 11:00:00	12-Dec-16 12:00:00		0.28	130.11	0.00	4.35	2.1	329.7		0.09	42.90	0.00	1.43		10.35	18.92	83.84	86.68	12-Dec-16 11:00:00		**10.44**	**61.82**	**83.84**	**88.11**
12-Dec-16 12:00:00	12-Dec-16 13:00:00		0.19	0.00	0.00	4.10	2.1	329.7		0.06	0.00	0.00	1.35		10.35	18.92	83.84	86.68	12-Dec-16 12:00:00		**10.41**	**18.92**	**83.84**	**88.03**
12-Dec-16 13:00:00	12-Dec-16 14:00:00		0.00	0.00	0.00	3.85	2.1	329.7		0.00	0.00	0.00	1.27		10.35	18.92	83.84	86.68	12-Dec-16 13:00:00		**10.35**	**18.92**	**83.84**	**87.95**
12-Dec-16 14:00:00	12-Dec-16 15:00:00		0.00	0.00	0.00	3.60	2.1	329.7		0.00	0.00	0.00	1.19		10.35	18.92	83.84	86.68	12-Dec-16 14:00:00		**10.35**	**18.92**	**83.84**	**87.87**
12-Dec-16 15:00:00	12-Dec-16 16:00:00		0.00	0.00	0.00	3.49	2.1	329.7		0.00	0.00	0.00	1.15		10.35	18.92	83.84	86.68	12-Dec-16 15:00:00		**10.35**	**18.92**	**83.84**	**87.83**
12-Dec-16 16:00:00	12-Dec-16 17:00:00		0.08	0.00	0.00	3.46	2.1	329.7		0.03	0.00	0.00	1.14		10.35	18.92	83.84	86.68	12-Dec-16 16:00:00		**10.38**	**18.92**	**83.84**	**87.82**
12-Dec-16 17:00:00	12-Dec-16 18:00:00		0.00	0.00	0.00	3.42	2.1	329.7		0.00	0.00	0.00	1.13		10.35	18.92	83.84	86.68	12-Dec-16 17:00:00		**10.35**	**18.92**	**83.84**	**87.81**
12-Dec-16 18:00:00	12-Dec-16 19:00:00		0.00	0.00	0.00	98.45	2.1	329.7		0.00	0.00	0.00	32.46		10.35	18.92	83.84	86.68	12-Dec-16 18:00:00		**10.35**	**18.92**	**83.84**	**119.14**
12-Dec-16 19:00:00	12-Dec-16 20:00:00		0.00	0.00	0.00	3.56	2.1	329.7		0.00	0.00	0.00	1.17		10.35	18.92	83.84	86.68	12-Dec-16 19:00:00		**10.35**	**18.92**	**83.84**	**87.85**
12-Dec-16 20:00:00	12-Dec-16 21:00:00		0.00	0.00	0.00	3.70	2.1	329.7		0.00	0.00	0.00	1.22		10.35	18.92	83.84	86.68	12-Dec-16 20:00:00		**10.35**	**18.92**	**83.84**	**87.90**
12-Dec-16 21:00:00	12-Dec-16 22:00:00		0.00	0.00	0.00	182.21	2.1	329.7		0.00	0.00	0.00	60.08		10.35	18.92	83.84	86.68	12-Dec-16 21:00:00		**10.35**	**18.92**	**83.84**	**146.76**
12-Dec-16 22:00:00	12-Dec-16 23:00:00		155.78	0.00	0.00	4.10	2.1	329.7		51.36	0.00	0.00	1.35		10.35	18.92	83.84	86.68	12-Dec-16 22:00:00		**61.71**	**18.92**	**83.84**	**88.03**
12-Dec-16 23:00:00	13-Dec-16 00:00:00		300.94	0.00	0.00	4.35	2.1	329.7		99.22	0.00	0.00	1.43		10.35	18.92	83.84	86.68	12-Dec-16 23:00:00		**109.57**	**18.92**	**83.84**	**88.11**
13-Dec-16 00:00:00	13-Dec-16 01:00:00		326.13	0.00	0.00	168.46	2.1	329.7		107.53	0.00	0.00	55.54		10.35	18.92	83.84	86.68	13-Dec-16 00:00:00		**117.88**	**18.92**	**83.84**	**142.22**
13-Dec-16 01:00:00	13-Dec-16 02:00:00		325.19	0.00	0.00	4.52	2.1	329.7		107.22	0.00	0.00	1.49		10.35	18.92	83.84	86.68	13-Dec-16 01:00:00		**117.57**	**18.92**	**83.84**	**88.17**
13-Dec-16 02:00:00	13-Dec-16 03:00:00		313.82	0.00	0.00	4.54	2.1	329.7		103.47	0.00	0.00	1.50		10.35	18.92	83.84	86.68	13-Dec-16 02:00:00		**113.82**	**18.92**	**83.84**	**88.18**
13-Dec-16 03:00:00	13-Dec-16 04:00:00		284.82	0.00	0.00	4.55	2.1	329.7		93.90	0.00	0.00	1.50		10.35	18.92	83.84	86.68	13-Dec-16 03:00:00		**104.25**	**18.92**	**83.84**	**88.18**
13-Dec-16 04:00:00	13-Dec-16 05:00:00		864.03	0.00	0.00	4.56	2.1	329.7		284.87	0.00	0.00	1.50		10.35	18.92	83.84	86.68	13-Dec-16 04:00:00		**295.22**	**18.92**	**83.84**	**88.18**
13-Dec-16 05:00:00	13-Dec-16 06:00:00		1,064.94	284.80	0.00	4.56	2.1	329.7		351.11	93.90	0.00	1.50		10.35	18.92	83.84	86.68	13-Dec-16 05:00:00		**361.46**	**112.82**	**83.84**	**88.18**
13-Dec-16 06:00:00	13-Dec-16 07:00:00		1,505.49	453.90	0.00	224.37	2.1	329.7		496.36	148.99	0.00	73.98		10.35	18.92	83.84	86.68	13-Dec-16 06:00:00		**506.71**	**167.91**	**83.84**	**160.66**
13-Dec-16 07:00:00	13-Dec-16 08:00:00		1,564.16	859.23	0.00	4.52	2.1	329.7		515.70	283.29	0.00	1.49		10.35	18.92	83.84	86.68	13-Dec-16 07:00:00		**526.05**	**302.21**	**83.84**	**88.17**
13-Dec-16 08:00:00	13-Dec-16 09:00:00		1,594.06	1,689.82	0.00	205.05	2.1	329.7		525.56	557.13	0.00	67.61		10.35	18.92	83.84	86.68	13-Dec-16 08:00:00		**535.91**	**576.05**	**83.84**	**154.29**
13-Dec-16 09:00:00	13-Dec-16 10:00:00		1,529.70	1,877.63	0.00	145.19	2.1	329.7		504.34	619.06	0.00	47.87		10.35	18.92	83.84	86.68	13-Dec-16 09:00:00		**514.69**	**637.98**	**83.84**	**134.55**
13-Dec-16 10:00:00	13-Dec-16 11:00:00		1,424.21	1,763.09	0.00	173.64	2.1	329.7		469.56	581.29	0.00	57.25		10.35	18.92	83.84	86.68	13-Dec-16 10:00:00		**479.91**	**600.21**	**83.84**	**143.93**
13-Dec-16 11:00:00	13-Dec-16 12:00:00		1,402.65	1,958.89	0.00	172.13	2.1	329.7		462.45	645.85	0.00	56.75		10.35	18.92	83.84	86.68	13-Dec-16 11:00:00		**472.80**	**664.77**	**83.84**	**143.43**
13-Dec-16 12:00:00	13-Dec-16 13:00:00		1,401.55	1,999.26	0.00	170.07	2.1	329.7		462.09	659.15	0.00	56.07		10.35	18.92	83.84	86.68	13-Dec-16 12:00:00		**472.44**	**678.07**	**83.84**	**142.75**
13-Dec-16 13:00:00	13-Dec-16 14:00:00		1,398.48	2,000.32	0.00	169.27	2.1	329.7		461.08	659.51	0.00	55.81		10.35	18.92	83.84	86.68	13-Dec-16 13:00:00		**471.43**	**678.43**	**83.84**	**142.49**
13-Dec-16 14:00:00	13-Dec-16 15:00:00		1,395.82	1,716.60	0.00	170.02	2.1	329.7		460.20	565.96	0.00	56.06		10.35	18.92	83.84	86.68	13-Dec-16 14:00:00		**470.55**	**584.88**	**83.84**	**142.74**
13-Dec-16 15:00:00	13-Dec-16 16:00:00		1,402.56	1,514.04	0.00	170.77	2.1	329.7		462.42	499.18	0.00	56.30		10.35	18.92	83.84	86.68	13-Dec-16 15:00:00		**472.77**	**518.10**	**83.84**	**142.98**
13-Dec-16 16:00:00	13-Dec-16 17:00:00		1,401.94	1,542.69	0.00	171.40	2.1	329.7		462.22	508.62	0.00	56.51		10.35	18.92	83.84	86.68	13-Dec-16 16:00:00		**472.57**	**527.54**	**83.84**	**143.19**
13-Dec-16 17:00:00	13-Dec-16 18:00:00		1,405.17	2,039.80	0.00	170.81	2.1	329.7		463.29	672.52	0.00	56.32		10.35	18.92	83.84	86.68	13-Dec-16 17:00:00		**473.64**	**691.44**	**83.84**	**143.00**
13-Dec-16 18:00:00	13-Dec-16 19:00:00		1,429.66	2,042.23	0.00	210.09	2.1	329.7		471.36	673.32	0.00	69.27		10.35	18.92	83.84	86.68	13-Dec-16 18:00:00		**481.71**	**692.24**	**83.84**	**155.95**
13-Dec-16 19:00:00	13-Dec-16 20:00:00		1,417.19	1,940.68	0.00	173.51	2.1	329.7		467.25	639.84	0.00	57.21		10.35	18.92	83.84	86.68	13-Dec-16 19:00:00		**477.60**	**658.76**	**83.84**	**143.89**
13-Dec-16 20:00:00	13-Dec-16 21:00:00		1,402.05	1,809.94	0.00	164.92	2.1	329.7		462.26	596.74	0.00	54.37		10.35	18.92	83.84	86.68	13-Dec-16 20:00:00		**472.61**	**615.66**	**83.84**	**141.05**
13-Dec-16 21:00:00	13-Dec-16 22:00:00		1,399.47	1,801.64	0.00	163.61	2.1	329.7		461.41	594.00	0.00	53.94		10.35	18.92	83.84	86.68	13-Dec-16 21:00:00		**471.76**	**612.92**	**83.84**	**140.62**
13-Dec-16 22:00:00	13-Dec-16 23:00:00		1,149.08	1,699.61	0.00	164.03	2.1	329.7		378.85	560.36	0.00	54.08		10.35	18.92	83.84	86.68	13-Dec-16 22:00:00		**389.20**	**579.28**	**83.84**	**140.76**
13-Dec-16 23:00:00	14-Dec-16 00:00:00		598.15	1,520.93	0.00	143.62	2.1	329.7		197.21	501.45	0.00	47.35		10.35	18.92	83.84	86.68	13-Dec-16 23:00:00		**207.56**	**520.37**	**83.84**	**134.03**
14-Dec-16 00:00:00	14-Dec-16 01:00:00		159.21	1,500.56	0.00	3.57	2.1	329.7		52.49	494.74	0.00	1.18		10.35	18.92	83.84	86.68	14-Dec-16 00:00:00		**62.84**	**513.66**	**83.84**	**87.86**
14-Dec-16 01:00:00	14-Dec-16 02:00:00		0.07	1,383.81	0.00	3.81	2.1	329.7		0.02	456.24	0.00	1.26		10.35	18.92	83.84	86.68	14-Dec-16 01:00:00		**10.37**	**475.16**	**83.84**	**87.94**
14-Dec-16 02:00:00	14-Dec-16 03:00:00		0.00	777.44	0.00	59.12	2.1	329.7		0.00	256.32	0.00	19.49		10.35	18.92	83.84	86.68	14-Dec-16 02:00:00		**10.35**	**275.24**	**83.84**	**106.17**
14-Dec-16 03:00:00	14-Dec-16 04:00:00		0.00	229.24	0.00	51.53	2.1	329.7		0.00	75.58	0.00	16.99		10.35	18.92	83.84	86.68	14-Dec-16 03:00:00		**10.35**	**94.50**	**83.84**	**103.67**
14-Dec-16 04:00:00	14-Dec-16 05:00:00		0.00	0.00	0.00	4.18	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	14-Dec-16 04:00:00		**10.35**	**18.92**	**83.84**	**88.06**
14-Dec-16 05:00:00	14-Dec-16 06:00:00		0.22	0.00	0.00	42.88	2.1	329.7		0.07	0.00	0.00	14.14		10.35	18.92	83.84	86.68	14-Dec-16 05:00:00		**10.42**	**18.92**	**83.84**	**100.82**
14-Dec-16 06:00:00	14-Dec-16 07:00:00		0.00	0.00	0.00	50.77	2.1	329.7		0.00	0.00	0.00	16.74		10.35	18.92	83.84	86.68	14-Dec-16 06:00:00		**10.35**	**18.92**	**83.84**	**103.42**
14-Dec-16 07:00:00	14-Dec-16 08:00:00		0.00	0.00	0.00	4.48	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	14-Dec-16 07:00:00		**10.35**	**18.92**	**83.84**	**88.16**
14-Dec-16 08:00:00	14-Dec-16 09:00:00		0.00	0.00	0.00	4.50	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	14-Dec-16 08:00:00		**10.35**	**18.92**	**83.84**	**88.16**
14-Dec-16 09:00:00	14-Dec-16 10:00:00		0.00	0.00	0.00	84.76	2.1	329.7		0.00	0.00	0.00	27.95		10.35	18.92	83.84	86.68	14-Dec-16 09:00:00		**10.35**	**18.92**	**83.84**	**114.61**
14-Dec-16 10:00:00	14-Dec-16 11:00:00		0.00	0.00	0.00	4.37	2.1	329.7		0.00	0.00	0.00	1.44		10.35	18.92	83.84	86.68	14-Dec-16 10:00:00		**10.35**	**18.92**	**83.84**	**88.12**
14-Dec-16 11:00:00	14-Dec-16 12:00:00		0.00	0.00	0.00	4.22	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	14-Dec-16 11:00:00		**10.35**	**18.92**	**83.84**	**88.07**
14-Dec-16 12:00:00	14-Dec-16 13:00:00		0.00	0.00	0.00	4.08	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	14-Dec-16 12:00:00		**10.35**	**18.92**	**83.84**	**88.02**
14-Dec-16 13:00:00	14-Dec-16 14:00:00		0.00	0.00	0.00	3.96	2.1	329.7		0.00	0.00	0.00	1.31		10.35	18.92	83.84	86.68	14-Dec-16 13:00:00		**10.35**	**18.92**	**83.84**	**87.99**
14-Dec-16 14:00:00	14-Dec-16 15:00:00		0.00	0.00	0.00	3.95	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	14-Dec-16 14:00:00		**10.35**	**18.92**	**83.84**	**87.98**
14-Dec-16 15:00:00	14-Dec-16 16:00:00		0.00	0.00	0.00	30.60	2.1	329.7		0.00	0.00	0.00	10.09		10.35	18.92	83.84	86.68	14-Dec-16 15:00:00		**10.35**	**18.92**	**83.84**	**96.77**
14-Dec-16 16:00:00	14-Dec-16 17:00:00		0.00	0.00	0.00	162.24	2.1	329.7		0.00	0.00	0.00	53.49		10.35	18.92	83.84	86.68	14-Dec-16 16:00:00		**10.35**	**18.92**	**83.84**	**140.17**
14-Dec-16 17:00:00	14-Dec-16 18:00:00		0.00	0.00	0.00	4.26	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	14-Dec-16 17:00:00		**10.35**	**18.92**	**83.84**	**88.09**
14-Dec-16 18:00:00	14-Dec-16 19:00:00		0.00	0.00	0.00	20.93	2.1	329.7		0.00	0.00	0.00	6.90		10.35	18.92	83.84	86.68	14-Dec-16 18:00:00		**10.35**	**18.92**	**83.84**	**93.58**
14-Dec-16 19:00:00	14-Dec-16 20:00:00		0.00	0.00	0.00	6.38	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	14-Dec-16 19:00:00		**10.35**	**18.92**	**83.84**	**88.78**
14-Dec-16 20:00:00	14-Dec-16 21:00:00		0.00	0.00	0.00	114.48	2.1	329.7		0.00	0.00	0.00	37.74		10.35	18.92	83.84	86.68	14-Dec-16 20:00:00		**10.35**	**18.92**	**83.84**	**124.42**
14-Dec-16 21:00:00	14-Dec-16 22:00:00		0.00	0.00	0.00	4.76	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	14-Dec-16 21:00:00		**10.35**	**18.92**	**83.84**	**88.25**
14-Dec-16 22:00:00	14-Dec-16 23:00:00		0.00	0.00	0.00	114.80	2.1	329.7		0.00	0.00	0.00	37.85		10.35	18.92	83.84	86.68	14-Dec-16 22:00:00		**10.35**	**18.92**	**83.84**	**124.53**
14-Dec-16 23:00:00	15-Dec-16 00:00:00		0.00	0.00	0.00	91.06	2.1	329.7		0.00	0.00	0.00	30.02		10.35	18.92	83.84	86.68	14-Dec-16 23:00:00		**10.35**	**18.92**	**83.84**	**116.70**
15-Dec-16 00:00:00	15-Dec-16 01:00:00		0.00	0.00	0.00	4.98	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	15-Dec-16 00:00:00		**10.35**	**18.92**	**83.84**	**88.32**
15-Dec-16 01:00:00	15-Dec-16 02:00:00		0.05	0.00	0.00	132.80	2.1	329.7		0.02	0.00	0.00	43.78		10.35	18.92	83.84	86.68	15-Dec-16 01:00:00		**10.37**	**18.92**	**83.84**	**130.46**
15-Dec-16 02:00:00	15-Dec-16 03:00:00		0.87	0.00	0.00	115.01	2.1	329.7		0.29	0.00	0.00	37.92		10.35	18.92	83.84	86.68	15-Dec-16 02:00:00		**10.64**	**18.92**	**83.84**	**124.60**
15-Dec-16 03:00:00	15-Dec-16 04:00:00		0.00	0.00	0.00	5.14	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	15-Dec-16 03:00:00		**10.35**	**18.92**	**83.84**	**88.38**
15-Dec-16 04:00:00	15-Dec-16 05:00:00		0.00	0.00	0.00	170.15	2.1	329.7		0.00	0.00	0.00	56.10		10.35	18.92	83.84	86.68	15-Dec-16 04:00:00		**10.35**	**18.92**	**83.84**	**142.78**
15-Dec-16 05:00:00	15-Dec-16 06:00:00		0.00	0.00	0.00	127.70	2.1	329.7		0.00	0.00	0.00	42.10		10.35	18.92	83.84	86.68	15-Dec-16 05:00:00		**10.35**	**18.92**	**83.84**	**128.78**
15-Dec-16 06:00:00	15-Dec-16 07:00:00		0.00	0.00	0.00	52.12	2.1	329.7		0.00	0.00	0.00	17.18		10.35	18.92	83.84	86.68	15-Dec-16 06:00:00		**10.35**	**18.92**	**83.84**	**103.86**
15-Dec-16 07:00:00	15-Dec-16 08:00:00		0.00	0.00	0.00	5.89	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	15-Dec-16 07:00:00		**10.35**	**18.92**	**83.84**	**88.62**
15-Dec-16 08:00:00	15-Dec-16 09:00:00		0.00	0.00	0.00	5.41	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	15-Dec-16 08:00:00		**10.35**	**18.92**	**83.84**	**88.46**
15-Dec-16 09:00:00	15-Dec-16 10:00:00		0.00	0.00	0.00	17.10	2.1	329.7		0.00	0.00	0.00	5.64		10.35	18.92	83.84	86.68	15-Dec-16 09:00:00		**10.35**	**18.92**	**83.84**	**92.32**
15-Dec-16 10:00:00	15-Dec-16 11:00:00		0.00	0.00	0.00	33.02	2.1	329.7		0.00	0.00	0.00	10.89		10.35	18.92	83.84	86.68	15-Dec-16 10:00:00		**10.35**	**18.92**

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
17-Dec-16 13:00:00	17-Dec-16 14:00:00		625.08	0.00	0.00	4.83	2.1	329.7		206.09	0.00	0.00	1.59		10.35	18.92	83.84	86.68	17-Dec-16 13:00:00		216.44	18.92	83.84	88.27
17-Dec-16 14:00:00	17-Dec-16 15:00:00		757.06	0.00	0.00	16.86	2.1	329.7		249.60	0.00	0.00	5.56		10.35	18.92	83.84	86.68	17-Dec-16 14:00:00		259.95	18.92	83.84	92.24
17-Dec-16 15:00:00	17-Dec-16 16:00:00		1,208.57	0.00	0.00	4.23	2.1	329.7		398.46	0.00	0.00	1.40		10.35	18.92	83.84	86.68	17-Dec-16 15:00:00		408.81	18.92	83.84	88.08
17-Dec-16 16:00:00	17-Dec-16 17:00:00		810.81	0.00	0.00	114.32	2.1	329.7		267.32	0.00	0.00	37.69		10.35	18.92	83.84	86.68	17-Dec-16 16:00:00		277.67	18.92	83.84	124.37
17-Dec-16 17:00:00	17-Dec-16 18:00:00		264.15	0.00	0.00	4.45	2.1	329.7		87.09	0.00	0.00	1.47		10.35	18.92	83.84	86.68	17-Dec-16 17:00:00		97.44	18.92	83.84	88.15
17-Dec-16 18:00:00	17-Dec-16 19:00:00		234.32	0.00	0.00	4.50	2.1	329.7		77.25	0.00	0.00	1.48		10.35	18.92	83.84	86.68	17-Dec-16 18:00:00		87.60	18.92	83.84	88.16
17-Dec-16 19:00:00	17-Dec-16 20:00:00		173.00	0.00	0.00	81.58	2.1	329.7		57.04	0.00	0.00	26.90		10.35	18.92	83.84	86.68	17-Dec-16 19:00:00		67.39	18.92	83.84	113.58
17-Dec-16 20:00:00	17-Dec-16 21:00:00		0.00	0.00	0.00	7.61	2.1	329.7		0.00	0.00	0.00	2.51		10.35	18.92	83.84	86.68	17-Dec-16 20:00:00		10.35	18.92	83.84	89.19
17-Dec-16 21:00:00	17-Dec-16 22:00:00		0.00	0.00	0.00	3.96	2.1	329.7		0.00	0.00	0.00	1.31		10.35	18.92	83.84	86.68	17-Dec-16 21:00:00		10.35	18.92	83.84	87.99
17-Dec-16 22:00:00	17-Dec-16 23:00:00		0.00	0.00	0.00	3.96	2.1	329.7		0.00	0.00	0.00	1.31		10.35	18.92	83.84	86.68	17-Dec-16 22:00:00		10.35	18.92	83.84	87.99
17-Dec-16 23:00:00	18-Dec-16 00:00:00		0.67	0.00	0.00	3.96	2.1	329.7		0.22	0.00	0.00	1.30		10.35	18.92	83.84	86.68	17-Dec-16 23:00:00		10.57	18.92	83.84	87.98
18-Dec-16 00:00:00	18-Dec-16 01:00:00		18.31	0.00	0.00	9.48	2.1	329.7		6.04	0.00	0.00	3.13		10.35	18.92	83.84	86.68	18-Dec-16 00:00:00		16.39	18.92	83.84	89.81
18-Dec-16 01:00:00	18-Dec-16 02:00:00		0.40	0.00	0.00	3.74	2.1	329.7		0.13	0.00	0.00	1.23		10.35	18.92	83.84	86.68	18-Dec-16 01:00:00		10.48	18.92	83.84	87.91
18-Dec-16 02:00:00	18-Dec-16 03:00:00		0.75	0.00	0.00	31.94	2.1	329.7		0.25	0.00	0.00	10.53		10.35	18.92	83.84	86.68	18-Dec-16 02:00:00		10.60	18.92	83.84	97.21
18-Dec-16 03:00:00	18-Dec-16 04:00:00		0.31	0.00	0.00	3.35	2.1	329.7		0.10	0.00	0.00	1.11		10.35	18.92	83.84	86.68	18-Dec-16 03:00:00		10.45	18.92	83.84	87.79
18-Dec-16 04:00:00	18-Dec-16 05:00:00		11.84	0.00	0.00	5.94	2.1	329.7		3.90	0.00	0.00	1.96		10.35	18.92	83.84	86.68	18-Dec-16 04:00:00		14.25	18.92	83.84	88.64
18-Dec-16 05:00:00	18-Dec-16 06:00:00		7.01	0.00	0.00	3.05	2.1	329.7		2.31	0.00	0.00	1.01		10.35	18.92	83.84	86.68	18-Dec-16 05:00:00		12.66	18.92	83.84	87.69
18-Dec-16 06:00:00	18-Dec-16 07:00:00		14.13	0.00	0.00	43.49	2.1	329.7		4.66	0.00	0.00	14.34		10.35	18.92	83.84	86.68	18-Dec-16 06:00:00		15.01	18.92	83.84	101.02
18-Dec-16 07:00:00	18-Dec-16 08:00:00		15.57	0.00	0.00	3.75	2.1	329.7		5.13	0.00	0.00	1.24		10.35	18.92	83.84	86.68	18-Dec-16 07:00:00		15.48	18.92	83.84	87.92
18-Dec-16 08:00:00	18-Dec-16 09:00:00		8.03	0.00	0.00	2.85	2.1	329.7		2.65	0.00	0.00	0.94		10.35	18.92	83.84	86.68	18-Dec-16 08:00:00		13.00	18.92	83.84	87.62
18-Dec-16 09:00:00	18-Dec-16 10:00:00		6.96	0.00	0.00	3.71	2.1	329.7		2.29	0.00	0.00	1.22		10.35	18.92	83.84	86.68	18-Dec-16 09:00:00		12.64	18.92	83.84	87.90
18-Dec-16 10:00:00	18-Dec-16 11:00:00		16.12	0.00	0.00	2.85	2.1	329.7		5.31	0.00	0.00	0.94		10.35	18.92	83.84	86.68	18-Dec-16 10:00:00		15.66	18.92	83.84	87.62
18-Dec-16 11:00:00	18-Dec-16 12:00:00		18.54	0.00	0.00	2.78	2.1	329.7		6.11	0.00	0.00	0.92		10.35	18.92	83.84	86.68	18-Dec-16 11:00:00		16.46	18.92	83.84	87.60
18-Dec-16 12:00:00	18-Dec-16 13:00:00		1.93	0.00	0.00	3.79	2.1	329.7		0.64	0.00	0.00	1.25		10.35	18.92	83.84	86.68	18-Dec-16 12:00:00		10.99	18.92	83.84	87.93
18-Dec-16 13:00:00	18-Dec-16 14:00:00		0.00	0.00	0.00	8.55	2.1	329.7		0.00	0.00	0.00	2.82		10.35	18.92	83.84	86.68	18-Dec-16 13:00:00		10.35	18.92	83.84	89.50
18-Dec-16 14:00:00	18-Dec-16 15:00:00		0.00	0.00	0.00	118.89	2.1	329.7		0.00	0.00	0.00	39.20		10.35	18.92	83.84	86.68	18-Dec-16 14:00:00		10.35	18.92	83.84	125.88
18-Dec-16 15:00:00	18-Dec-16 16:00:00		0.00	0.00	0.00	2.79	2.1	329.7		0.00	0.00	0.00	0.92		10.35	18.92	83.84	86.68	18-Dec-16 15:00:00		10.35	18.92	83.84	87.60
18-Dec-16 16:00:00	18-Dec-16 17:00:00		0.00	0.00	0.00	3.29	2.1	329.7		0.00	0.00	0.00	1.08		10.35	18.92	83.84	86.68	18-Dec-16 16:00:00		10.35	18.92	83.84	87.76
18-Dec-16 17:00:00	18-Dec-16 18:00:00		0.00	0.00	0.00	23.41	2.1	329.7		0.00	0.00	0.00	7.72		10.35	18.92	83.84	86.68	18-Dec-16 17:00:00		10.35	18.92	83.84	94.40
18-Dec-16 18:00:00	18-Dec-16 19:00:00		0.00	0.00	0.00	156.20	2.1	329.7		0.00	0.00	0.00	51.50		10.35	18.92	83.84	86.68	18-Dec-16 18:00:00		10.35	18.92	83.84	138.18
18-Dec-16 19:00:00	18-Dec-16 20:00:00		0.00	8.53	0.00	3.23	2.1	329.7		0.00	2.81	0.00	1.07		10.35	18.92	83.84	86.68	18-Dec-16 19:00:00		10.35	21.73	83.84	87.75
18-Dec-16 20:00:00	18-Dec-16 21:00:00		0.00	79.28	0.00	5.48	2.1	329.7		0.00	26.14	0.00	1.81		10.35	18.92	83.84	86.68	18-Dec-16 20:00:00		10.35	45.06	83.84	88.49
18-Dec-16 21:00:00	18-Dec-16 22:00:00		0.00	489.28	0.00	45.97	2.1	329.7		0.00	161.32	0.00	15.16		10.35	18.92	83.84	86.68	18-Dec-16 21:00:00		10.35	180.24	83.84	101.84
18-Dec-16 22:00:00	18-Dec-16 23:00:00		0.89	1,225.25	0.00	3.91	2.1	329.7		0.29	403.97	0.00	1.29		10.35	18.92	83.84	86.68	18-Dec-16 22:00:00		10.64	422.89	83.84	87.97
18-Dec-16 23:00:00	19-Dec-16 00:00:00		7.94	1,801.97	0.00	4.18	2.1	329.7		2.62	594.11	0.00	1.38		10.35	18.92	83.84	86.68	18-Dec-16 23:00:00		12.97	613.03	83.84	88.06
19-Dec-16 00:00:00	19-Dec-16 01:00:00		4.98	2,097.20	0.00	35.55	2.1	329.7		1.64	691.45	0.00	11.72		10.35	18.92	83.84	86.68	19-Dec-16 00:00:00		11.99	710.37	83.84	98.40
19-Dec-16 01:00:00	19-Dec-16 02:00:00		13.71	2,307.09	0.00	53.12	2.1	329.7		4.52	760.65	0.00	17.51		10.35	18.92	83.84	86.68	19-Dec-16 01:00:00		14.87	779.57	83.84	104.19
19-Dec-16 02:00:00	19-Dec-16 03:00:00		8.76	2,304.01	0.00	5.11	2.1	329.7		2.89	759.63	0.00	1.68		10.35	18.92	83.84	86.68	19-Dec-16 02:00:00		13.24	778.55	83.84	88.36
19-Dec-16 03:00:00	19-Dec-16 04:00:00		8.41	2,335.00	0.00	11.52	2.1	329.7		2.77	769.85	0.00	3.80		10.35	18.92	83.84	86.68	19-Dec-16 03:00:00		13.12	788.77	83.84	90.48
19-Dec-16 04:00:00	19-Dec-16 05:00:00		3.89	2,348.63	0.00	49.57	2.1	329.7		1.28	774.34	0.00	16.34		10.35	18.92	83.84	86.68	19-Dec-16 04:00:00		11.63	793.26	83.84	103.02
19-Dec-16 05:00:00	19-Dec-16 06:00:00		0.30	2,320.61	0.00	17.80	2.1	329.7		0.10	765.11	0.00	5.87		10.35	18.92	83.84	86.68	19-Dec-16 05:00:00		10.45	784.03	83.84	92.55
19-Dec-16 06:00:00	19-Dec-16 07:00:00		0.20	2,314.25	0.00	5.17	2.1	329.7		0.07	763.01	0.00	1.71		10.35	18.92	83.84	86.68	19-Dec-16 06:00:00		10.42	781.93	83.84	88.39
19-Dec-16 07:00:00	19-Dec-16 08:00:00		0.10	2,341.94	0.00	158.22	2.1	329.7		0.03	772.14	0.00	52.16		10.35	18.92	83.84	86.68	19-Dec-16 07:00:00		10.38	791.06	83.84	138.84
19-Dec-16 08:00:00	19-Dec-16 09:00:00		0.01	842.54	0.00	344.92	2.1	329.7		0.00	277.79	0.00	113.72		10.35	18.92	83.84	86.68	19-Dec-16 08:00:00		10.35	296.71	83.84	200.40
19-Dec-16 09:00:00	19-Dec-16 10:00:00		0.34	0.00	0.00	343.68	2.1	329.7		0.11	0.00	0.00	113.31		10.35	18.92	83.84	86.68	19-Dec-16 09:00:00		10.46	18.92	83.84	199.99
19-Dec-16 10:00:00	19-Dec-16 11:00:00		0.00	0.00	0.00	333.26	2.1	329.7		0.00	0.00	0.00	109.88		10.35	18.92	83.84	86.68	19-Dec-16 10:00:00		10.35	18.92	83.84	196.56
19-Dec-16 11:00:00	19-Dec-16 12:00:00		0.63	0.00	0.00	345.08	2.1	329.7		0.21	0.00	0.00	113.77		10.35	18.92	83.84	86.68	19-Dec-16 11:00:00		10.56	18.92	83.84	200.45
19-Dec-16 12:00:00	19-Dec-16 13:00:00		8.20	0.00	0.00	395.28	2.1	329.7		2.70	0.00	0.00	130.32		10.35	18.92	83.84	86.68	19-Dec-16 12:00:00		13.05	18.92	83.84	217.00
19-Dec-16 13:00:00	19-Dec-16 14:00:00		2.71	0.00	0.00	399.19	2.1	329.7		0.89	0.00	0.00	131.61		10.35	18.92	83.84	86.68	19-Dec-16 13:00:00		11.24	18.92	83.84	218.29
19-Dec-16 14:00:00	19-Dec-16 15:00:00		1.70	0.00	0.00	397.11	2.1	329.7		0.56	0.00	0.00	130.93		10.35	18.92	83.84	86.68	19-Dec-16 14:00:00		10.91	18.92	83.84	217.61
19-Dec-16 15:00:00	19-Dec-16 16:00:00		3.19	0.00	0.00	394.52	2.1	329.7		1.05	0.00	0.00	130.07		10.35	18.92	83.84	86.68	19-Dec-16 15:00:00		11.40	18.92	83.84	216.75
19-Dec-16 16:00:00	19-Dec-16 17:00:00		3.33	0.00	0.00	391.39	2.1	329.7		1.10	0.00	0.00	129.04		10.35	18.92	83.84	86.68	19-Dec-16 16:00:00		11.45	18.92	83.84	215.72
19-Dec-16 17:00:00	19-Dec-16 18:00:00		3.97	0.00	0.00	395.67	2.1	329.7		1.31	0.00	0.00	130.45		10.35	18.92	83.84	86.68	19-Dec-16 17:00:00		11.66	18.92	83.84	217.13
19-Dec-16 18:00:00	19-Dec-16 19:00:00		3.60	0.00	0.00	383.06	2.1	329.7		1.19	0.00	0.00	126.29		10.35	18.92	83.84	86.68	19-Dec-16 18:00:00		11.54	18.92	83.84	212.97
19-Dec-16 19:00:00	19-Dec-16 20:00:00		5.32	0.00	0.00	354.20	2.1	329.7		1.75	0.00	0.00	116.78		10.35	18.92	83.84	86.68	19-Dec-16 19:00:00		12.10	18.92	83.84	203.46
19-Dec-16 20:00:00	19-Dec-16 21:00:00		5.34	0.00	0.00	336.51	2.1	329.7		1.76	0.00	0.00	110.95		10.35	18.92	83.84	86.68	19-Dec-16 20:00:00		12.11	18.92	83.84	197.63
19-Dec-16 21:00:00	19-Dec-16 22:00:00		10.83	0.00	0.00	329.42	2.1	329.7		3.57	0.00	0.00	108.61		10.35	18.92	83.84	86.68	19-Dec-16 21:00:00		13.92	18.92	83.84	195.29
19-Dec-16 22:00:00	19-Dec-16 23:00:00		18.37	37.48	0.00	335.52	2.1	329.7		6.06	12.36	0.00	110.62		10.35	18.92	83.84	86.68	19-Dec-16 22:00:00		16.41	31.28	83.84	197.30
19-Dec-16 23:00:00	20-Dec-16 00:00:00		28.29	395.96	0.00	320.38	2.1	329.7		9.33	130.55	0.00	105.63		10.35	18.92	83.84	86.68	19-Dec-16 23:00:00		19.68	149.47	83.84	192.31
20-Dec-16 00:00:00	20-Dec-16 01:00:00		33.39	375.62	0.00	308.39	2.1	329.7		11.01	123.84	0.00	101.67		10.35	18.92	83.84	86.68	20-Dec-16 00:00:00		21.36	142.76	83.84	188.35
20-Dec-16 01:00:00	20-Dec-16 02:00:00		38.70	426.35	0.00	299.77	2.1	329.7		12.76	140.57	0.00	98.83		10.35	18.92	83.84	86.68	20-Dec-16 01:00:00		23.11	159.49	83.84	185.51
20-Dec-16 02:00:00	20-Dec-16 03:00:00		33.93	800.61	0.00	295.86	2.1	329.7		11.19	263.96	0.00	97.55		10.35	18.92	83.84	86.68	20-Dec-16 02:00:00		21.54	282.88	83.84	184.23
20-Dec-16 03:00:00	20-Dec-16 04:00:00		39.67	839.63	0.00	301.61	2.1	329.7		13.08	276.83	0.00	99.44		10.35	18.92	83.84	86.68	20-Dec-16 03:00:00		23.43	295.75	83.84	186.12
20-Dec-16 04:00:00	20-Dec-16 05:00:00		40.85	770.18	0.00	302.01	2.1	329.7		13.47	253.93	0.00	99.57		10.35	18.92	83.84	86.68	20-Dec-16 04:00:00		23.82	272.85	83.84	186.25
20-Dec-16 05:00:00	20-Dec-16 06:00:00		41.33	1,169.06	0.00	140.80	2.1	329.7		13.63	385.44	0.00	46.42		10.35	18.92	83.84	86.68	20-Dec-16 05:00:00		23.98	404.36	83.84	133.10
20-Dec-16 06:00:00	20-Dec-16 07:00:00		45.09	1,982.77	0.00	4.95	2.1	329.7		14.87	653.72	0.00	1.63		10.35	18.92	83.84	86.68	20-Dec-16 06:00:00		25.22	672.64	83.84	88.31
20-Dec-16 07:00:00	20-Dec-16 08:00:00		28.30	1,499.55	0.00	5.13	2.1	329.7		9.33	494.40	0.00	1.69		10.35	18.92	83.84	86.68	20-Dec-16 07:00:00		19.68	513.32	83.84	88.37
20-Dec-16 08:00:00	20-Dec-16 09:00:00		3.29	1,002.89	0.00	10.63	2.1	329.7		1.09	330.65	0.00	3.50		10.35	18.92	83.84	86.68	20-Dec-16 08:00:00		11.44	349.57	83.84	90.18
20-Dec-16 09:00:00	20-Dec-16 10:00:00		2.62	801.33	0.00	5.45	2.1	329.7		0.87	264.20	0.00	1.80		10.35	18.92	83.84	86.68	20-Dec-16 09:00:00		11.22	283.12	83.84	88.48
20-Dec-16 10:00:00	20-Dec-16 11:00:00		2.88	1,156.73	0.00	5.27	2.1	329.7		0.95	381.37	0.00	1.74		10.35	18.92	83.84	86.68	20-Dec-16 10:00:00		11.30	400.29	83.84	88.42
20-Dec-16 11:00:00	20-Dec-16 12:00:00		2.24	837.09	0.00	5.82	2.1	329.7		0.74	275.99	0.00	1.92		10.35	18.92	83.84	86.68	20-Dec-16 11:00:00		11.09	294.91	83.84	88.60
20-Dec-16 12:00:00	20-Dec-16 13:00:00		1.69	624.15	0.00	4.80	2.1	329.7		0.56	205.78	0.00	1.58		10.35	18.92	83.84	86.68	20-Dec-16 12:00:00		10.91	224.70	83.84	88.26
20-Dec-16 13:00:00	20-Dec-16 14:00:00		1.14	458.97	0.00	10.26	2.1	329.7		0.38	151.32	0.00	3.38		10.35	18.92	83.84	86.68	20-Dec-16 13:00:00		10.73	170.24	83.84	90.06
20-Dec-16 14:00:00	20-Dec-16 15:00:00		1.03	459.49	0.00	4.51	2.1	329.7		0.34	151.49	0.00	1.49		10.35	18.92	83.84	86.68	20-Dec-16 14:00:00		10.69	170.41	83.84	88.17
20-Dec-16 15:00:00	20-Dec-16 16:00:00		0.90	35.13	0.00	5.45	2.1	329.7		0.30	11.58	0.00	1.80		10.35	18.92	83.84	86.68	20-Dec-16 15:00:00		10.65	30.50	83.84	88.48
20-Dec-16 16:00:00	20-Dec-16 17:00:00		1.37	0.00	0.00	107.29	2.1	329.7		0.45	0.00	0.00	35.37		10.35	18.92	83.84	86.68	20-Dec-16 16:00:00		10.80	18.92	83.84	122.05
20-Dec-16 17:00:00	20-Dec-16 18:00:00		0.78	0.00	0.00	5.95	2.1	329.7		0.26	0.00	0.00	1.96		10.35	18.92	83.84	86.68	20-Dec-16 17:00:00		10.61	18.92	83.84	88.64
20-Dec-16 18:00:00	20-Dec-16 19:00:00		0.92	0.00	0.00	4.99	2.1	329.7		0.30	0.00	0.00	1.64		10.35	18.92	83.84	86.68	20-Dec-16 18:00:00		10.65	18.92	83.84	88.32
20-Dec-16 19:00:00	20-Dec-16 20:00:00		2.83	0.00	0.00	34.95	2.1	329.7		0.93	0.00	0.00	11.52		10.35	18.92	83.84	86.68	20-Dec-16 19:00:00		11.28	18.92	83.84	98.20
20-Dec-16 20:00:00	20-Dec-16 21:00:00		445.14	0.00	0.00	6.13	2.1	329.7		146.76	0.00	0.00	2.02		10.35	18.92	83.84	86.68	20-Dec-16 20:00:00		157.11	18.92	83.84	88.70
20-Dec-16 21:00:00	20-Dec-16 22:00:00		380.68	0.00	0.00	38.39	2.1	329.7		125.51	0.00	0.00	12.66		10.35	18.92	83.84	86.68	20-Dec-16 21:00:00		135.86	18.92	83.84	99.34
20-Dec-16 22:00:00	20-Dec-16 23:00:00		422.88	0.00	0.00	87.60	2.1	329.7		139.42	0.00	0.00	28.88		10.35	18.92	83.84	86.68	20-Dec-16 22:00:00		149.77	18.92	83.84	115.56
20-Dec-16 23:00:00	21-Dec-16 00:00:00		350.69	0.00	0.00	5.24	2.1	329.7		115.62	0.00	0.00	1.73		10.35	18.92	83.84	86.68	20-Dec-16 23:00:00		125.97	18.92	83.84	88.41
21-Dec-16 00:00:00	21-Dec-16 01:00:00		11.35	0.00	0.00	5.26	2.1	329.7		3.74	0.00	0.00	1.73		10.35	18.92	83.84	86.68	21-Dec-16 00:00:00		14.09	18.92	83.84	88.41
21-Dec-16 01:00:00	21-Dec-16 02:00:00		937.79	178.71	0.00	5.28	2.1	329.7		309.19	58.92	0.00	1.74		10.35	18.92	83.84	86.68	21-Dec-16 01:00:00		319.54	77.84	83.84	88.42
21-Dec-16 02:00:00	21-Dec-16 03:00:00		125.08	735.62	0.00	5.37	2.1	329.7		41.24	242.53	0.00	1.77		10.35	18.92	83.84	86.68	21-Dec-16 02:00:00		51.59	261.45	83.84	88.45
21-Dec-16 03:00:00	21-Dec-16 04:00:00		657.15	789.08	0.00	5.47	2.1	329.7		216.66	260.16	0.00	1.80		10.35	18.92	83.84	86.68	21-Dec-16 03:00:00		227.01	279.08	83.84	88.48
21-Dec-16 04:00:00	21-Dec-16 05:00:00		1,111.96	719.08	0.00	5.57	2.1	329.7		366.61	237.08	0.00	1.84		10.35	18.92	83.84	86.68	21-Dec-16 04:00:00		376.96	256.00	83.84	88.52
21-Dec-16 05:00:00	21-Dec-16 06:00:00		1,111.11	746.48	0.00	5.68	2.1	329.7		366.33	246.11	0.00	1.87		10.35	18.92	83.84	86.68	21-Dec-16 05:00:00		376.68	265.03	83.84	88.55
21-Dec-16 06:00:00	21-Dec-16 07:00:00		1,125.02	745.55	0.00	5.71	2.1	329.7		370.92	245.81	0.00	1.88		10.35	18.92	83.84	86.68	21-Dec-16 06:00:00		381.27	264.73	83.84	88.56
21-Dec-16 07:00:00	21-Dec-16 08:00:00		1,175.41	768.28	0.00	16.91	2.1	329.7		387.53	253.30	0.00	5.58		10.35	18.92	83.84	86.68	21-Dec-16 07:00:00		397.88	272.22	83.84	92.26
21-Dec-16 08:00:00	21-Dec-16 09:00:00		942.73	484.58	0.00	5.67	2.1	329.7		310.82	159.77	0.00	1.87		10.35	18.92	83.84	86.68	21-Dec-16 08:00:00		321.17	178.69	83.84	88.55
21-Dec-16 09:00:00	21-Dec-16 10:00:00		1,080.75	721.00	0.00	132.33	2.1	329.7		356.32	237.71	0.00	43.63		10.35	18.92	83.84	86.68	21-Dec-16 09:00:00		366.67	256.63	83.84	130.31
21-Dec-16 10:00

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
23-Dec-16 12:00:00	23-Dec-16 13:00:00		310.37	1,003.94	0.00	257.68	2.1	329.7		102.33	331.00	0.00	84.96		10.35	18.92	83.84	86.68	23-Dec-16 12:00:00		**112.68**	**349.92**	**83.84**	**171.64**
23-Dec-16 13:00:00	23-Dec-16 14:00:00		1.44	1,725.12	0.00	4.13	2.1	329.7		0.47	568.77	0.00	1.36		10.35	18.92	83.84	86.68	23-Dec-16 13:00:00		**10.82**	**587.69**	**83.84**	**88.04**
23-Dec-16 14:00:00	23-Dec-16 15:00:00		0.97	656.60	0.00	30.34	2.1	329.7		0.32	216.48	0.00	10.00		10.35	18.92	83.84	86.68	23-Dec-16 14:00:00		**10.67**	**235.40**	**83.84**	**96.68**
23-Dec-16 15:00:00	23-Dec-16 16:00:00		0.61	227.34	0.00	3.95	2.1	329.7		0.20	74.95	0.00	1.30		10.35	18.92	83.84	86.68	23-Dec-16 15:00:00		**10.55**	**93.87**	**83.84**	**87.98**
23-Dec-16 16:00:00	23-Dec-16 17:00:00		0.25	0.00	0.00	17.93	2.1	329.7		0.08	0.00	0.00	5.91		10.35	18.92	83.84	86.68	23-Dec-16 16:00:00		**10.43**	**18.92**	**83.84**	**92.59**
23-Dec-16 17:00:00	23-Dec-16 18:00:00		0.01	0.00	0.00	61.43	2.1	329.7		0.00	0.00	0.00	20.25		10.35	18.92	83.84	86.68	23-Dec-16 17:00:00		**10.35**	**18.92**	**83.84**	**106.93**
23-Dec-16 18:00:00	23-Dec-16 19:00:00		0.00	0.00	0.00	4.40	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	23-Dec-16 18:00:00		**10.35**	**18.92**	**83.84**	**88.13**
23-Dec-16 19:00:00	23-Dec-16 20:00:00		0.00	0.00	0.00	111.27	2.1	329.7		0.00	0.00	0.00	36.69		10.35	18.92	83.84	86.68	23-Dec-16 19:00:00		**10.35**	**18.92**	**83.84**	**123.37**
23-Dec-16 20:00:00	23-Dec-16 21:00:00		0.00	0.00	0.00	13.49	2.1	329.7		0.00	0.00	0.00	4.45		10.35	18.92	83.84	86.68	23-Dec-16 20:00:00		**10.35**	**18.92**	**83.84**	**91.13**
23-Dec-16 21:00:00	23-Dec-16 22:00:00		0.00	0.00	0.00	5.68	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	23-Dec-16 21:00:00		**10.35**	**18.92**	**83.84**	**88.55**
23-Dec-16 22:00:00	23-Dec-16 23:00:00		0.00	0.00	0.00	4.60	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	23-Dec-16 22:00:00		**10.35**	**18.92**	**83.84**	**88.20**
23-Dec-16 23:00:00	24-Dec-16 00:00:00		0.00	0.00	0.00	69.10	2.1	329.7		0.00	0.00	0.00	22.78		10.35	18.92	83.84	86.68	23-Dec-16 23:00:00		**10.35**	**18.92**	**83.84**	**109.46**
24-Dec-16 00:00:00	24-Dec-16 01:00:00		0.00	0.00	0.00	80.95	2.1	329.7		0.00	0.00	0.00	26.69		10.35	18.92	83.84	86.68	24-Dec-16 00:00:00		**10.35**	**18.92**	**83.84**	**113.37**
24-Dec-16 01:00:00	24-Dec-16 02:00:00		0.00	0.00	0.00	4.50	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	24-Dec-16 01:00:00		**10.35**	**18.92**	**83.84**	**88.17**
24-Dec-16 02:00:00	24-Dec-16 03:00:00		0.00	0.00	0.00	4.47	2.1	329.7		0.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	24-Dec-16 02:00:00		**10.35**	**18.92**	**83.84**	**88.15**
24-Dec-16 03:00:00	24-Dec-16 04:00:00		0.00	0.00	0.00	4.44	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	24-Dec-16 03:00:00		**10.35**	**18.92**	**83.84**	**88.14**
24-Dec-16 04:00:00	24-Dec-16 05:00:00		0.00	0.00	0.00	4.43	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	24-Dec-16 04:00:00		**10.35**	**18.92**	**83.84**	**88.14**
24-Dec-16 05:00:00	24-Dec-16 06:00:00		0.00	0.00	0.00	4.40	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	24-Dec-16 05:00:00		**10.35**	**18.92**	**83.84**	**88.13**
24-Dec-16 06:00:00	24-Dec-16 07:00:00		0.00	0.00	0.00	4.34	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	24-Dec-16 06:00:00		**10.35**	**18.92**	**83.84**	**88.11**
24-Dec-16 07:00:00	24-Dec-16 08:00:00		0.00	0.00	0.00	4.27	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	24-Dec-16 07:00:00		**10.35**	**18.92**	**83.84**	**88.09**
24-Dec-16 08:00:00	24-Dec-16 09:00:00		0.00	0.00	0.00	4.20	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	24-Dec-16 08:00:00		**10.35**	**18.92**	**83.84**	**88.07**
24-Dec-16 09:00:00	24-Dec-16 10:00:00		0.00	199.63	0.00	4.07	2.1	329.7		0.00	65.82	0.00	1.34		10.35	18.92	83.84	86.68	24-Dec-16 09:00:00		**10.35**	**84.74**	**83.84**	**88.02**
24-Dec-16 10:00:00	24-Dec-16 11:00:00		0.00	272.18	0.00	3.93	2.1	329.7		0.00	89.74	0.00	1.30		10.35	18.92	83.84	86.68	24-Dec-16 10:00:00		**10.35**	**108.66**	**83.84**	**87.98**
24-Dec-16 11:00:00	24-Dec-16 12:00:00		0.00	273.46	0.00	3.79	2.1	329.7		0.00	90.16	0.00	1.25		10.35	18.92	83.84	86.68	24-Dec-16 11:00:00		**10.35**	**109.08**	**83.84**	**87.93**
24-Dec-16 12:00:00	24-Dec-16 13:00:00		0.06	198.70	0.00	3.66	2.1	329.7		0.02	65.51	0.00	1.21		10.35	18.92	83.84	86.68	24-Dec-16 12:00:00		**10.37**	**84.43**	**83.84**	**87.89**
24-Dec-16 13:00:00	24-Dec-16 14:00:00		1.37	0.00	0.00	3.55	2.1	329.7		0.45	0.00	0.00	1.17		10.35	18.92	83.84	86.68	24-Dec-16 13:00:00		**10.80**	**18.92**	**83.84**	**87.85**
24-Dec-16 14:00:00	24-Dec-16 15:00:00		4.42	0.00	0.00	3.43	2.1	329.7		1.46	0.00	0.00	1.13		10.35	18.92	83.84	86.68	24-Dec-16 14:00:00		**11.81**	**18.92**	**83.84**	**87.81**
24-Dec-16 15:00:00	24-Dec-16 16:00:00		8.43	0.00	0.00	3.32	2.1	329.7		2.78	0.00	0.00	1.09		10.35	18.92	83.84	86.68	24-Dec-16 15:00:00		**13.13**	**18.92**	**83.84**	**87.77**
24-Dec-16 16:00:00	24-Dec-16 17:00:00		4.02	0.00	0.00	3.22	2.1	329.7		1.33	0.00	0.00	1.06		10.35	18.92	83.84	86.68	24-Dec-16 16:00:00		**11.68**	**18.92**	**83.84**	**87.74**
24-Dec-16 17:00:00	24-Dec-16 18:00:00		4.90	0.00	0.00	3.23	2.1	329.7		1.62	0.00	0.00	1.07		10.35	18.92	83.84	86.68	24-Dec-16 17:00:00		**11.97**	**18.92**	**83.84**	**87.75**
24-Dec-16 18:00:00	24-Dec-16 19:00:00		4.94	0.00	0.00	3.26	2.1	329.7		1.63	0.00	0.00	1.07		10.35	18.92	83.84	86.68	24-Dec-16 18:00:00		**11.98**	**18.92**	**83.84**	**87.75**
24-Dec-16 19:00:00	24-Dec-16 20:00:00		7.01	0.00	0.00	3.28	2.1	329.7		2.31	0.00	0.00	1.08		10.35	18.92	83.84	86.68	24-Dec-16 19:00:00		**12.66**	**18.92**	**83.84**	**87.76**
24-Dec-16 20:00:00	24-Dec-16 21:00:00		4.06	0.00	0.00	3.37	2.1	329.7		1.34	0.00	0.00	1.11		10.35	18.92	83.84	86.68	24-Dec-16 20:00:00		**11.69**	**18.92**	**83.84**	**87.79**
24-Dec-16 21:00:00	24-Dec-16 22:00:00		1.38	0.00	0.00	3.53	2.1	329.7		0.45	0.00	0.00	1.16		10.35	18.92	83.84	86.68	24-Dec-16 21:00:00		**10.80**	**18.92**	**83.84**	**87.84**
24-Dec-16 22:00:00	24-Dec-16 23:00:00		0.41	0.00	0.00	3.67	2.1	329.7		0.14	0.00	0.00	1.21		10.35	18.92	83.84	86.68	24-Dec-16 22:00:00		**10.49**	**18.92**	**83.84**	**87.89**
24-Dec-16 23:00:00	25-Dec-16 00:00:00		2.88	0.00	0.00	3.81	2.1	329.7		0.95	0.00	0.00	1.26		10.35	18.92	83.84	86.68	24-Dec-16 23:00:00		**11.30**	**18.92**	**83.84**	**87.94**
25-Dec-16 00:00:00	25-Dec-16 01:00:00		1.76	0.00	0.00	3.92	2.1	329.7		0.58	0.00	0.00	1.29		10.35	18.92	83.84	86.68	25-Dec-16 00:00:00		**10.93**	**18.92**	**83.84**	**87.97**
25-Dec-16 01:00:00	25-Dec-16 02:00:00		1.11	0.00	0.00	3.94	2.1	329.7		0.37	0.00	0.00	1.30		10.35	18.92	83.84	86.68	25-Dec-16 01:00:00		**10.72**	**18.92**	**83.84**	**87.98**
25-Dec-16 02:00:00	25-Dec-16 03:00:00		0.00	0.00	0.00	3.94	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	25-Dec-16 02:00:00		**10.35**	**18.92**	**83.84**	**87.98**
25-Dec-16 03:00:00	25-Dec-16 04:00:00		0.00	0.00	0.00	3.95	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	25-Dec-16 03:00:00		**10.35**	**18.92**	**83.84**	**87.98**
25-Dec-16 04:00:00	25-Dec-16 05:00:00		0.00	0.00	0.00	4.01	2.1	329.7		0.00	0.00	0.00	1.32		10.35	18.92	83.84	86.68	25-Dec-16 04:00:00		**10.35**	**18.92**	**83.84**	**88.00**
25-Dec-16 05:00:00	25-Dec-16 06:00:00		0.00	0.00	0.00	4.06	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	25-Dec-16 05:00:00		**10.35**	**18.92**	**83.84**	**88.02**
25-Dec-16 06:00:00	25-Dec-16 07:00:00		0.00	0.00	0.00	4.06	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	25-Dec-16 06:00:00		**10.35**	**18.92**	**83.84**	**88.02**
25-Dec-16 07:00:00	25-Dec-16 08:00:00		0.00	0.00	0.00	4.06	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	25-Dec-16 07:00:00		**10.35**	**18.92**	**83.84**	**88.02**
25-Dec-16 08:00:00	25-Dec-16 09:00:00		0.00	0.00	0.00	4.02	2.1	329.7		0.00	0.00	0.00	1.32		10.35	18.92	83.84	86.68	25-Dec-16 08:00:00		**10.35**	**18.92**	**83.84**	**88.00**
25-Dec-16 09:00:00	25-Dec-16 10:00:00		0.00	0.00	0.00	3.86	2.1	329.7		0.00	0.00	0.00	1.27		10.35	18.92	83.84	86.68	25-Dec-16 09:00:00		**10.35**	**18.92**	**83.84**	**87.95**
25-Dec-16 10:00:00	25-Dec-16 11:00:00		0.45	0.00	0.00	3.70	2.1	329.7		0.15	0.00	0.00	1.22		10.35	18.92	83.84	86.68	25-Dec-16 10:00:00		**10.50**	**18.92**	**83.84**	**87.90**
25-Dec-16 11:00:00	25-Dec-16 12:00:00		1.79	0.00	0.00	3.54	2.1	329.7		0.59	0.00	0.00	1.17		10.35	18.92	83.84	86.68	25-Dec-16 11:00:00		**10.94**	**18.92**	**83.84**	**87.85**
25-Dec-16 12:00:00	25-Dec-16 13:00:00		8.24	0.00	0.00	3.39	2.1	329.7		2.72	0.00	0.00	1.12		10.35	18.92	83.84	86.68	25-Dec-16 12:00:00		**13.07**	**18.92**	**83.84**	**87.80**
25-Dec-16 13:00:00	25-Dec-16 14:00:00		1.85	0.00	0.00	3.27	2.1	329.7		0.61	0.00	0.00	1.08		10.35	18.92	83.84	86.68	25-Dec-16 13:00:00		**10.96**	**18.92**	**83.84**	**87.76**
25-Dec-16 14:00:00	25-Dec-16 15:00:00		5.29	0.00	0.00	3.15	2.1	329.7		1.74	0.00	0.00	1.04		10.35	18.92	83.84	86.68	25-Dec-16 14:00:00		**12.09**	**18.92**	**83.84**	**87.72**
25-Dec-16 15:00:00	25-Dec-16 16:00:00		8.53	0.00	0.00	3.03	2.1	329.7		2.81	0.00	0.00	1.00		10.35	18.92	83.84	86.68	25-Dec-16 15:00:00		**13.16**	**18.92**	**83.84**	**87.68**
25-Dec-16 16:00:00	25-Dec-16 17:00:00		2.88	0.00	0.00	2.91	2.1	329.7		0.95	0.00	0.00	0.96		10.35	18.92	83.84	86.68	25-Dec-16 16:00:00		**11.30**	**18.92**	**83.84**	**87.64**
25-Dec-16 17:00:00	25-Dec-16 18:00:00		2.27	0.00	0.00	3.07	2.1	329.7		0.75	0.00	0.00	1.01		10.35	18.92	83.84	86.68	25-Dec-16 17:00:00		**11.10**	**18.92**	**83.84**	**87.69**
25-Dec-16 18:00:00	25-Dec-16 19:00:00		1.89	0.00	0.00	3.31	2.1	329.7		0.62	0.00	0.00	1.09		10.35	18.92	83.84	86.68	25-Dec-16 18:00:00		**10.97**	**18.92**	**83.84**	**87.77**
25-Dec-16 19:00:00	25-Dec-16 20:00:00		1.50	0.00	0.00	3.56	2.1	329.7		0.50	0.00	0.00	1.17		10.35	18.92	83.84	86.68	25-Dec-16 19:00:00		**10.85**	**18.92**	**83.84**	**87.85**
25-Dec-16 20:00:00	25-Dec-16 21:00:00		2.92	0.00	0.00	3.75	2.1	329.7		0.96	0.00	0.00	1.23		10.35	18.92	83.84	86.68	25-Dec-16 20:00:00		**11.31**	**18.92**	**83.84**	**87.91**
25-Dec-16 21:00:00	25-Dec-16 22:00:00		4.57	0.00	0.00	3.84	2.1	329.7		1.51	0.00	0.00	1.27		10.35	18.92	83.84	86.68	25-Dec-16 21:00:00		**11.86**	**18.92**	**83.84**	**87.95**
25-Dec-16 22:00:00	25-Dec-16 23:00:00		12.52	0.00	0.00	3.98	2.1	329.7		4.13	0.00	0.00	1.31		10.35	18.92	83.84	86.68	25-Dec-16 22:00:00		**14.48**	**18.92**	**83.84**	**87.99**
25-Dec-16 23:00:00	26-Dec-16 00:00:00		7.43	0.00	0.00	4.12	2.1	329.7		2.45	0.00	0.00	1.36		10.35	18.92	83.84	86.68	25-Dec-16 23:00:00		**12.80**	**18.92**	**83.84**	**88.04**
26-Dec-16 00:00:00	26-Dec-16 01:00:00		3.23	0.00	0.00	4.23	2.1	329.7		1.06	0.00	0.00	1.39		10.35	18.92	83.84	86.68	26-Dec-16 00:00:00		**11.41**	**18.92**	**83.84**	**88.07**
26-Dec-16 01:00:00	26-Dec-16 02:00:00		0.28	0.00	0.00	4.30	2.1	329.7		0.09	0.00	0.00	1.42		10.35	18.92	83.84	86.68	26-Dec-16 01:00:00		**10.44**	**18.92**	**83.84**	**88.10**
26-Dec-16 02:00:00	26-Dec-16 03:00:00		4.35	0.00	0.00	4.37	2.1	329.7		1.43	0.00	0.00	1.44		10.35	18.92	83.84	86.68	26-Dec-16 02:00:00		**11.78**	**18.92**	**83.84**	**88.12**
26-Dec-16 03:00:00	26-Dec-16 04:00:00		3.78	0.00	0.00	4.45	2.1	329.7		1.24	0.00	0.00	1.47		10.35	18.92	83.84	86.68	26-Dec-16 03:00:00		**11.59**	**18.92**	**83.84**	**88.15**
26-Dec-16 04:00:00	26-Dec-16 05:00:00		1.20	0.00	0.00	4.51	2.1	329.7		0.40	0.00	0.00	1.49		10.35	18.92	83.84	86.68	26-Dec-16 04:00:00		**10.75**	**18.92**	**83.84**	**88.17**
26-Dec-16 05:00:00	26-Dec-16 06:00:00		0.10	0.00	0.00	4.48	2.1	329.7		0.03	0.00	0.00	1.48		10.35	18.92	83.84	86.68	26-Dec-16 05:00:00		**10.38**	**18.92**	**83.84**	**88.16**
26-Dec-16 06:00:00	26-Dec-16 07:00:00		2.42	0.00	0.00	4.44	2.1	329.7		0.80	0.00	0.00	1.46		10.35	18.92	83.84	86.68	26-Dec-16 06:00:00		**11.15**	**18.92**	**83.84**	**88.14**
26-Dec-16 07:00:00	26-Dec-16 08:00:00		4.46	0.00	0.00	4.40	2.1	329.7		1.47	0.00	0.00	1.45		10.35	18.92	83.84	86.68	26-Dec-16 07:00:00		**11.82**	**18.92**	**83.84**	**88.13**
26-Dec-16 08:00:00	26-Dec-16 09:00:00		1.94	0.00	0.00	4.40	2.1	329.7		0.64	0.00	0.00	1.45		10.35	18.92	83.84	86.68	26-Dec-16 08:00:00		**10.99**	**18.92**	**83.84**	**88.13**
26-Dec-16 09:00:00	26-Dec-16 10:00:00		0.74	0.00	0.00	4.35	2.1	329.7		0.24	0.00	0.00	1.43		10.35	18.92	83.84	86.68	26-Dec-16 09:00:00		**10.59**	**18.92**	**83.84**	**88.11**
26-Dec-16 10:00:00	26-Dec-16 11:00:00		0.47	0.00	0.00	4.23	2.1	329.7		0.16	0.00	0.00	1.40		10.35	18.92	83.84	86.68	26-Dec-16 10:00:00		**10.51**	**18.92**	**83.84**	**88.08**
26-Dec-16 11:00:00	26-Dec-16 12:00:00		0.21	0.00	0.00	4.11	2.1	329.7		0.07	0.00	0.00	1.36		10.35	18.92	83.84	86.68	26-Dec-16 11:00:00		**10.42**	**18.92**	**83.84**	**88.04**
26-Dec-16 12:00:00	26-Dec-16 13:00:00		0.28	0.00	0.00	3.99	2.1	329.7		0.09	0.00	0.00	1.31		10.35	18.92	83.84	86.68	26-Dec-16 12:00:00		**10.44**	**18.92**	**83.84**	**87.99**
26-Dec-16 13:00:00	26-Dec-16 14:00:00		2.70	0.00	0.00	3.92	2.1	329.7		0.89	0.00	0.00	1.29		10.35	18.92	83.84	86.68	26-Dec-16 13:00:00		**11.24**	**18.92**	**83.84**	**87.97**
26-Dec-16 14:00:00	26-Dec-16 15:00:00		3.71	0.00	0.00	3.88	2.1	329.7		1.22	0.00	0.00	1.28		10.35	18.92	83.84	86.68	26-Dec-16 14:00:00		**11.57**	**18.92**	**83.84**	**87.96**
26-Dec-16 15:00:00	26-Dec-16 16:00:00		3.92	0.00	0.00	3.84	2.1	329.7		1.29	0.00	0.00	1.27		10.35	18.92	83.84	86.68	26-Dec-16 15:00:00		**11.64**	**18.92**	**83.84**	**87.95**
26-Dec-16 16:00:00	26-Dec-16 17:00:00		0.00	0.00	0.00	3.83	2.1	329.7		0.00	0.00	0.00	1.26		10.35	18.92	83.84	86.68	26-Dec-16 16:00:00		**10.35**	**18.92**	**83.84**	**87.94**
26-Dec-16 17:00:00	26-Dec-16 18:00:00		0.00	0.00	0.00	3.99	2.1	329.7		0.00	0.00	0.00	1.32		10.35	18.92	83.84	86.68	26-Dec-16 17:00:00		**10.35**	**18.92**	**83.84**	**88.00**
26-Dec-16 18:00:00	26-Dec-16 19:00:00		0.00	0.00	0.00	4.16	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	26-Dec-16 18:00:00		**10.35**	**18.92**	**83.84**	**88.05**
26-Dec-16 19:00:00	26-Dec-16 20:00:00		0.00	0.00	0.00	4.34	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	26-Dec-16 19:00:00		**10.35**	**18.92**	**83.84**	**88.11**
26-Dec-16 20:00:00	26-Dec-16 21:00:00		0.00	0.00	0.00	8.86	2.1	329.7		0.00	0.00	0.00	2.92		10.35	18.92	83.84	86.68	26-Dec-16 20:00:00		**10.35**	**18.92**	**83.84**	**89.60**
26-Dec-16 21:00:00	26-Dec-16 22:00:00		0.00	0.00	0.00	4.66	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	26-Dec-16 21:00:00		**10.35**	**18.92**	**83.84**	**88.22**
26-Dec-16 22:00:00	26-Dec-16 23:00:00		0.00	0.00	0.00	4.48	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	26-Dec-16 22:00:00		**10.35**	**18.92**	**83.84**	**88.16**
26-Dec-16 23:00:00	27-Dec-16 00:00:00		0.00	0.00	0.00	4.30	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	26-Dec-16 23:00:00		**10.35**	**18.92**	**83.84**	**88.10**
27-Dec-16 00:00:00	27-Dec-16 01:00:00		0.00	0.00	0.00	12.22	2.1	329.7		0.00	0.00	0.00	4.03		10.35	18.92	83.84	86.68	27-Dec-16 00:00:00		**10.35**	**18.92**	**83.84**	**90.71**
27-Dec-16 01:00:00	27-Dec-16 02:00:00		0.00	0.00	0.00	4.04	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	27-Dec-16 01:00:00		**10.35**	**18.92**	**83.84**	**88.01**
27-Dec-16 02:00:00	27-Dec-16 03:00:00		0.00	0.00	0.00	40.87	2.1	329.7		0.00	0.00	0.00	13.48		10.35	18.92	83.84	86.68	27-Dec-16 02:00:00		**10.35**	**18.92**	**83.84**	**100.16**
27-Dec-16 03:00:00	27-Dec-16 04:00:00		0.00	0.00	0.00	3.95	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	27-Dec-16 03:00:00		**10.35**	**18.92**	**83.84**	**87.98**
27-Dec-16 04:00:00	27-Dec-16 05:00:00		0.00	0.00	0.00	29.65	2.1	329.7		0.00	0.00	0.00	9.77		10.35	18.92	83.84	86.68	27-Dec-16 04:00:00		**10.35**	**18.92**	**83.84**	**96.45**
27-Dec-16 05:00:00	27-Dec-16 06:00:00		0.00	0.00	0.00	4.06	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	27-Dec-16 05:00:00		**10.35**	**18.92**	**83.84**	**88.02**
27-Dec-16 06:00:00	27-Dec-16 07:00:00		0.00	0.00	0.00	4.09	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	27-Dec-16 06:00:00		**10.35**	**18.92**	**83.84**	**88.03**
27-Dec-16 07:00:00	27-Dec-16 08:00:00		0.00	0.00	0.00	4.11	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	27-Dec-16 07:00:00		**10.35**	**18.92**	**83.84**	**88.04**
27-Dec-16 08:00:00	27-Dec-16 09:00:00		0.00	0.00	0.00	4.14	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	27-Dec-16 08:00:00		**10.35**	**18.92**	**83.84**	**88.04**
27-Dec-16 09:00:00	27-Dec-16 10:00:00		0.10	0.00	0.00	4

Table A-42
Hourly SO_2 Emissions Rates - 2016
New-Indy Catawba - Catawba, SC

2016 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
29-Dec-16 11:00:00	29-Dec-16 12:00:00		1.37	0.00	0.00	3.74	2.1	329.7		0.45	0.00	0.00	1.23		10.35	18.92	83.84	86.68	29-Dec-16 11:00:00	**10.80**	**18.92**	**83.84**	**87.91**
29-Dec-16 12:00:00	29-Dec-16 13:00:00		12.64	0.00	0.00	3.62	2.1	329.7		4.17	0.00	0.00	1.19		10.35	18.92	83.84	86.68	29-Dec-16 12:00:00	**14.52**	**18.92**	**83.84**	**87.87**
29-Dec-16 13:00:00	29-Dec-16 14:00:00		18.21	0.00	0.00	3.52	2.1	329.7		6.00	0.00	0.00	1.16		10.35	18.92	83.84	86.68	29-Dec-16 13:00:00	**16.35**	**18.92**	**83.84**	**87.84**
29-Dec-16 14:00:00	29-Dec-16 15:00:00		0.30	0.00	0.00	3.44	2.1	329.7		0.10	0.00	0.00	1.13		10.35	18.92	83.84	86.68	29-Dec-16 14:00:00	**10.45**	**18.92**	**83.84**	**87.81**
29-Dec-16 15:00:00	29-Dec-16 16:00:00		0.90	0.00	0.00	4.14	2.1	329.7		0.30	0.00	0.00	1.36		10.35	18.92	83.84	86.68	29-Dec-16 15:00:00	**10.65**	**18.92**	**83.84**	**88.04**
29-Dec-16 16:00:00	29-Dec-16 17:00:00		1.50	0.00	0.00	3.89	2.1	329.7		0.49	0.00	0.00	1.28		10.35	18.92	83.84	86.68	29-Dec-16 16:00:00	**10.84**	**18.92**	**83.84**	**87.96**
29-Dec-16 17:00:00	29-Dec-16 18:00:00		1.44	0.00	0.00	16.66	2.1	329.7		0.48	0.00	0.00	5.49		10.35	18.92	83.84	86.68	29-Dec-16 17:00:00	**10.83**	**18.92**	**83.84**	**92.17**
29-Dec-16 18:00:00	29-Dec-16 19:00:00		10.93	0.00	0.00	4.34	2.1	329.7		3.60	0.00	0.00	1.43		10.35	18.92	83.84	86.68	29-Dec-16 18:00:00	**13.95**	**18.92**	**83.84**	**88.11**
29-Dec-16 19:00:00	29-Dec-16 20:00:00		19.63	0.00	0.00	4.50	2.1	329.7		6.47	0.00	0.00	1.48		10.35	18.92	83.84	86.68	29-Dec-16 19:00:00	**16.82**	**18.92**	**83.84**	**88.16**
29-Dec-16 20:00:00	29-Dec-16 21:00:00		21.71	0.00	0.00	4.65	2.1	329.7		7.16	0.00	0.00	1.53		10.35	18.92	83.84	86.68	29-Dec-16 20:00:00	**17.51**	**18.92**	**83.84**	**88.21**
29-Dec-16 21:00:00	29-Dec-16 22:00:00		6.88	0.00	0.00	4.83	2.1	329.7		2.27	0.00	0.00	1.59		10.35	18.92	83.84	86.68	29-Dec-16 21:00:00	**12.62**	**18.92**	**83.84**	**88.27**
29-Dec-16 22:00:00	29-Dec-16 23:00:00		2.85	0.00	0.00	4.97	2.1	329.7		0.94	0.00	0.00	1.64		10.35	18.92	83.84	86.68	29-Dec-16 22:00:00	**11.29**	**18.92**	**83.84**	**88.32**
29-Dec-16 23:00:00	30-Dec-16 00:00:00		5.02	0.00	0.00	5.01	2.1	329.7		1.66	0.00	0.00	1.65		10.35	18.92	83.84	86.68	29-Dec-16 23:00:00	**12.01**	**18.92**	**83.84**	**88.33**
30-Dec-16 00:00:00	30-Dec-16 01:00:00		0.00	0.00	0.00	5.04	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	30-Dec-16 00:00:00	**10.35**	**18.92**	**83.84**	**88.34**
30-Dec-16 01:00:00	30-Dec-16 02:00:00		0.00	0.00	0.00	5.09	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	30-Dec-16 01:00:00	**10.35**	**18.92**	**83.84**	**88.36**
30-Dec-16 02:00:00	30-Dec-16 03:00:00		0.00	0.00	0.00	5.21	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	30-Dec-16 02:00:00	**10.35**	**18.92**	**83.84**	**88.40**
30-Dec-16 03:00:00	30-Dec-16 04:00:00		0.49	0.00	0.00	5.34	2.1	329.7		0.16	0.00	0.00	1.76		10.35	18.92	83.84	86.68	30-Dec-16 03:00:00	**10.51**	**18.92**	**83.84**	**88.44**
30-Dec-16 04:00:00	30-Dec-16 05:00:00		4.50	0.00	0.00	5.48	2.1	329.7		1.48	0.00	0.00	1.81		10.35	18.92	83.84	86.68	30-Dec-16 04:00:00	**11.83**	**18.92**	**83.84**	**88.49**
30-Dec-16 05:00:00	30-Dec-16 06:00:00		1.84	0.00	0.00	5.61	2.1	329.7		0.61	0.00	0.00	1.85		10.35	18.92	83.84	86.68	30-Dec-16 05:00:00	**10.96**	**18.92**	**83.84**	**88.53**
30-Dec-16 06:00:00	30-Dec-16 07:00:00		20.99	0.00	0.00	5.70	2.1	329.7		6.92	0.00	0.00	1.88		10.35	18.92	83.84	86.68	30-Dec-16 06:00:00	**17.27**	**18.92**	**83.84**	**88.56**
30-Dec-16 07:00:00	30-Dec-16 08:00:00		36.32	0.00	0.00	5.76	2.1	329.7		11.97	0.00	0.00	1.90		10.35	18.92	83.84	86.68	30-Dec-16 07:00:00	**22.32**	**18.92**	**83.84**	**88.58**
30-Dec-16 08:00:00	30-Dec-16 09:00:00		27.27	0.00	0.00	5.82	2.1	329.7		8.99	0.00	0.00	1.92		10.35	18.92	83.84	86.68	30-Dec-16 08:00:00	**19.34**	**18.92**	**83.84**	**88.60**
30-Dec-16 09:00:00	30-Dec-16 10:00:00		25.08	0.00	0.00	5.88	2.1	329.7		8.27	0.00	0.00	1.94		10.35	18.92	83.84	86.68	30-Dec-16 09:00:00	**18.62**	**18.92**	**83.84**	**88.62**
30-Dec-16 10:00:00	30-Dec-16 11:00:00		58.14	0.00	0.00	5.80	2.1	329.7		19.17	0.00	0.00	1.91		10.35	18.92	83.84	86.68	30-Dec-16 10:00:00	**29.52**	**18.92**	**83.84**	**88.59**
30-Dec-16 11:00:00	30-Dec-16 12:00:00		41.60	0.00	0.00	39.31	2.1	329.7		13.72	0.00	0.00	12.96		10.35	18.92	83.84	86.68	30-Dec-16 11:00:00	**24.07**	**18.92**	**83.84**	**99.64**
30-Dec-16 12:00:00	30-Dec-16 13:00:00		0.40	0.00	0.00	5.25	2.1	329.7		0.13	0.00	0.00	1.73		10.35	18.92	83.84	86.68	30-Dec-16 12:00:00	**10.48**	**18.92**	**83.84**	**88.41**
30-Dec-16 13:00:00	30-Dec-16 14:00:00		1.10	0.00	0.00	37.56	2.1	329.7		0.36	0.00	0.00	12.38		10.35	18.92	83.84	86.68	30-Dec-16 13:00:00	**10.71**	**18.92**	**83.84**	**99.06**
30-Dec-16 14:00:00	30-Dec-16 15:00:00		1.71	0.00	0.00	4.59	2.1	329.7		0.56	0.00	0.00	1.51		10.35	18.92	83.84	86.68	30-Dec-16 14:00:00	**10.91**	**18.92**	**83.84**	**88.19**
30-Dec-16 15:00:00	30-Dec-16 16:00:00		0.00	0.00	0.00	4.38	2.1	329.7		0.00	0.00	0.00	1.44		10.35	18.92	83.84	86.68	30-Dec-16 15:00:00	**10.35**	**18.92**	**83.84**	**88.12**
30-Dec-16 16:00:00	30-Dec-16 17:00:00		0.00	0.00	0.00	4.16	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	30-Dec-16 16:00:00	**10.35**	**18.92**	**83.84**	**88.05**
30-Dec-16 17:00:00	30-Dec-16 18:00:00		0.00	0.00	0.00	4.02	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	30-Dec-16 17:00:00	**10.35**	**18.92**	**83.84**	**88.01**
30-Dec-16 18:00:00	30-Dec-16 19:00:00		0.02	0.00	0.00	4.26	2.1	329.7		0.01	0.00	0.00	1.40		10.35	18.92	83.84	86.68	30-Dec-16 18:00:00	**10.36**	**18.92**	**83.84**	**88.08**
30-Dec-16 19:00:00	30-Dec-16 20:00:00		0.54	0.00	0.00	4.54	2.1	329.7		0.18	0.00	0.00	1.50		10.35	18.92	83.84	86.68	30-Dec-16 19:00:00	**10.53**	**18.92**	**83.84**	**88.18**
30-Dec-16 20:00:00	30-Dec-16 21:00:00		1.24	0.00	0.00	4.82	2.1	329.7		0.41	0.00	0.00	1.59		10.35	18.92	83.84	86.68	30-Dec-16 20:00:00	**10.76**	**18.92**	**83.84**	**88.27**
30-Dec-16 21:00:00	30-Dec-16 22:00:00		9.51	0.00	0.00	5.08	2.1	329.7		3.13	0.00	0.00	1.67		10.35	18.92	83.84	86.68	30-Dec-16 21:00:00	**13.48**	**18.92**	**83.84**	**88.35**
30-Dec-16 22:00:00	30-Dec-16 23:00:00		17.69	0.00	0.00	5.23	2.1	329.7		5.83	0.00	0.00	1.73		10.35	18.92	83.84	86.68	30-Dec-16 22:00:00	**16.18**	**18.92**	**83.84**	**88.41**
30-Dec-16 23:00:00	31-Dec-16 00:00:00		23.81	0.00	0.00	5.38	2.1	329.7		7.85	0.00	0.00	1.77		10.35	18.92	83.84	86.68	30-Dec-16 23:00:00	**18.20**	**18.92**	**83.84**	**88.45**
31-Dec-16 00:00:00	31-Dec-16 01:00:00		24.04	0.00	0.00	5.52	2.1	329.7		7.93	0.00	0.00	1.82		10.35	18.92	83.84	86.68	31-Dec-16 00:00:00	**18.28**	**18.92**	**83.84**	**88.50**
31-Dec-16 01:00:00	31-Dec-16 02:00:00		10.49	0.00	0.00	5.71	2.1	329.7		3.46	0.00	0.00	1.88		10.35	18.92	83.84	86.68	31-Dec-16 01:00:00	**13.81**	**18.92**	**83.84**	**88.56**
31-Dec-16 02:00:00	31-Dec-16 03:00:00		7.18	0.00	0.00	5.84	2.1	329.7		2.37	0.00	0.00	1.93		10.35	18.92	83.84	86.68	31-Dec-16 02:00:00	**12.72**	**18.92**	**83.84**	**88.61**
31-Dec-16 03:00:00	31-Dec-16 04:00:00		11.17	0.00	0.00	5.92	2.1	329.7		3.68	0.00	0.00	1.95		10.35	18.92	83.84	86.68	31-Dec-16 03:00:00	**14.03**	**18.92**	**83.84**	**88.63**
31-Dec-16 04:00:00	31-Dec-16 05:00:00		31.80	0.00	0.00	5.99	2.1	329.7		10.49	0.00	0.00	1.98		10.35	18.92	83.84	86.68	31-Dec-16 04:00:00	**20.84**	**18.92**	**83.84**	**88.66**
31-Dec-16 05:00:00	31-Dec-16 06:00:00		31.61	0.00	0.00	6.07	2.1	329.7		10.42	0.00	0.00	2.00		10.35	18.92	83.84	86.68	31-Dec-16 05:00:00	**20.77**	**18.92**	**83.84**	**88.68**
31-Dec-16 06:00:00	31-Dec-16 07:00:00		29.31	0.00	0.00	6.12	2.1	329.7		9.66	0.00	0.00	2.02		10.35	18.92	83.84	86.68	31-Dec-16 06:00:00	**20.01**	**18.92**	**83.84**	**88.70**
31-Dec-16 07:00:00	31-Dec-16 08:00:00		31.11	0.00	0.00	94.68	2.1	329.7		10.26	0.00	0.00	31.22		10.35	18.92	83.84	86.68	31-Dec-16 07:00:00	**20.61**	**18.92**	**83.84**	**117.90**
31-Dec-16 08:00:00	31-Dec-16 09:00:00		30.32	0.00	0.00	5.90	2.1	329.7		10.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	31-Dec-16 08:00:00	**20.35**	**18.92**	**83.84**	**88.62**
31-Dec-16 09:00:00	31-Dec-16 10:00:00		29.63	0.00	0.00	5.60	2.1	329.7		9.77	0.00	0.00	1.84		10.35	18.92	83.84	86.68	31-Dec-16 09:00:00	**20.12**	**18.92**	**83.84**	**88.52**
31-Dec-16 10:00:00	31-Dec-16 11:00:00		387.77	0.00	0.00	5.29	2.1	329.7		127.85	0.00	0.00	1.75		10.35	18.92	83.84	86.68	31-Dec-16 10:00:00	**138.20**	**18.92**	**83.84**	**88.43**
31-Dec-16 11:00:00	31-Dec-16 12:00:00		7.17	0.00	0.00	5.00	2.1	329.7		2.37	0.00	0.00	1.65		10.35	18.92	83.84	86.68	31-Dec-16 11:00:00	**12.72**	**18.92**	**83.84**	**88.33**
31-Dec-16 12:00:00	31-Dec-16 13:00:00		14.98	0.00	0.00	4.85	2.1	329.7		4.94	0.00	0.00	1.60		10.35	18.92	83.84	86.68	31-Dec-16 12:00:00	**15.29**	**18.92**	**83.84**	**88.28**
31-Dec-16 13:00:00	31-Dec-16 14:00:00		9.14	0.00	0.00	4.74	2.1	329.7		3.01	0.00	0.00	1.56		10.35	18.92	83.84	86.68	31-Dec-16 13:00:00	**13.36**	**18.92**	**83.84**	**88.24**
31-Dec-16 14:00:00	31-Dec-16 15:00:00		3.48	0.00	0.00	4.64	2.1	329.7		1.15	0.00	0.00	1.53		10.35	18.92	83.84	86.68	31-Dec-16 14:00:00	**11.50**	**18.92**	**83.84**	**88.21**
31-Dec-16 15:00:00	31-Dec-16 16:00:00		15.16	0.00	0.00	4.54	2.1	329.7		5.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	31-Dec-16 15:00:00	**15.35**	**18.92**	**83.84**	**88.18**
31-Dec-16 16:00:00	31-Dec-16 17:00:00		15.45	0.00	0.00	4.52	2.1	329.7		5.09	0.00	0.00	1.49		10.35	18.92	83.84	86.68	31-Dec-16 16:00:00	**15.44**	**18.92**	**83.84**	**88.17**
31-Dec-16 17:00:00	31-Dec-16 18:00:00		15.58	0.00	0.00	4.52	2.1	329.7		5.14	0.00	0.00	1.49		10.35	18.92	83.84	86.68	31-Dec-16 17:00:00	**15.49**	**18.92**	**83.84**	**88.17**
31-Dec-16 18:00:00	31-Dec-16 19:00:00		15.88	0.00	0.00	4.52	2.1	329.7		5.23	0.00	0.00	1.49		10.35	18.92	83.84	86.68	31-Dec-16 18:00:00	**15.58**	**18.92**	**83.84**	**88.17**
31-Dec-16 19:00:00	31-Dec-16 20:00:00		16.92	0.00	0.00	4.52	2.1	329.7		5.58	0.00	0.00	1.49		10.35	18.92	83.84	86.68	31-Dec-16 19:00:00	**15.93**	**18.92**	**83.84**	**88.17**
31-Dec-16 20:00:00	31-Dec-16 21:00:00		18.93	0.00	0.00	4.55	2.1	329.7		6.24	0.00	0.00	1.50		10.35	18.92	83.84	86.68	31-Dec-16 20:00:00	**16.59**	**18.92**	**83.84**	**88.18**
31-Dec-16 21:00:00	31-Dec-16 22:00:00		21.13	0.00	0.00	4.59	2.1	329.7		6.97	0.00	0.00	1.51		10.35	18.92	83.84	86.68	31-Dec-16 21:00:00	**17.32**	**18.92**	**83.84**	**88.19**
31-Dec-16 22:00:00	31-Dec-16 23:00:00		25.27	0.00	0.00	5.43	2.1	329.7		8.33	0.00	0.00	1.79		10.35	18.92	83.84	86.68	31-Dec-16 22:00:00	**18.68**	**18.92**	**83.84**	**88.47**
31-Dec-16 23:00:00	01-Jan-17 00:00:00		25.57	0.00	0.00	4.74	2.1	329.7		8.43	0.00	0.00	1.56		10.35	18.92	83.84	86.68	31-Dec-16 23:00:00	**18.78**	**18.92**	**83.84**	**88.24**

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
01-Jan-17 00:00:00	01-Jan-17 01:00:00		25.83	0.00	0.00	4.58	2.1	329.7		8.52	0.00	0.00	1.51		10.35	18.92	83.84	86.68	01-Jan-17 00:00:00		18.87	18.92	83.84	88.19
01-Jan-17 01:00:00	01-Jan-17 02:00:00		26.09	0.00	0.00	4.65	2.1	329.7		8.60	0.00	0.00	1.53		10.35	18.92	83.84	86.68	01-Jan-17 01:00:00		18.95	18.92	83.84	88.21
01-Jan-17 02:00:00	01-Jan-17 03:00:00		26.45	0.00	0.00	4.72	2.1	329.7		8.72	0.00	0.00	1.56		10.35	18.92	83.84	86.68	01-Jan-17 02:00:00		19.07	18.92	83.84	88.24
01-Jan-17 03:00:00	01-Jan-17 04:00:00		26.49	0.00	0.00	4.85	2.1	329.7		8.73	0.00	0.00	1.60		10.35	18.92	83.84	86.68	01-Jan-17 03:00:00		19.08	18.92	83.84	88.28
01-Jan-17 04:00:00	01-Jan-17 05:00:00		26.34	0.00	0.00	5.02	2.1	329.7		8.69	0.00	0.00	1.66		10.35	18.92	83.84	86.68	01-Jan-17 04:00:00		19.04	18.92	83.84	88.34
01-Jan-17 05:00:00	01-Jan-17 06:00:00		26.19	0.00	0.00	5.04	2.1	329.7		8.64	0.00	0.00	1.66		10.35	18.92	83.84	86.68	01-Jan-17 05:00:00		18.99	18.92	83.84	88.34
01-Jan-17 06:00:00	01-Jan-17 07:00:00		26.13	0.00	0.00	5.06	2.1	329.7		8.62	0.00	0.00	1.67		10.35	18.92	83.84	86.68	01-Jan-17 06:00:00		18.97	18.92	83.84	88.35
01-Jan-17 07:00:00	01-Jan-17 08:00:00		26.08	0.00	0.00	5.09	2.1	329.7		8.60	0.00	0.00	1.68		10.35	18.92	83.84	86.68	01-Jan-17 07:00:00		18.95	18.92	83.84	88.36
01-Jan-17 08:00:00	01-Jan-17 09:00:00		25.66	0.00	0.00	5.01	2.1	329.7		8.46	0.00	0.00	1.65		10.35	18.92	83.84	86.68	01-Jan-17 08:00:00		18.81	18.92	83.84	88.33
01-Jan-17 09:00:00	01-Jan-17 10:00:00		25.53	0.00	0.00	4.85	2.1	329.7		8.42	0.00	0.00	1.60		10.35	18.92	83.84	86.68	01-Jan-17 09:00:00		18.77	18.92	83.84	88.28
01-Jan-17 10:00:00	01-Jan-17 11:00:00		25.45	0.00	0.00	4.70	2.1	329.7		8.39	0.00	0.00	1.55		10.35	18.92	83.84	86.68	01-Jan-17 10:00:00		18.74	18.92	83.84	88.23
01-Jan-17 11:00:00	01-Jan-17 12:00:00		24.84	0.00	0.00	4.55	2.1	329.7		8.19	0.00	0.00	1.50		10.35	18.92	83.84	86.68	01-Jan-17 11:00:00		18.54	18.92	83.84	88.18
01-Jan-17 12:00:00	01-Jan-17 13:00:00		23.62	0.00	0.00	4.49	2.1	329.7		7.79	0.00	0.00	1.48		10.35	18.92	83.84	86.68	01-Jan-17 12:00:00		18.14	18.92	83.84	88.16
01-Jan-17 13:00:00	01-Jan-17 14:00:00		23.03	0.00	0.00	4.45	2.1	329.7		7.59	0.00	0.00	1.47		10.35	18.92	83.84	86.68	01-Jan-17 13:00:00		17.94	18.92	83.84	88.15
01-Jan-17 14:00:00	01-Jan-17 15:00:00		23.51	0.00	0.00	4.42	2.1	329.7		7.75	0.00	0.00	1.46		10.35	18.92	83.84	86.68	01-Jan-17 14:00:00		18.10	18.92	83.84	88.14
01-Jan-17 15:00:00	01-Jan-17 16:00:00		5.56	0.00	0.00	4.42	2.1	329.7		1.83	0.00	0.00	1.46		10.35	18.92	83.84	86.68	01-Jan-17 15:00:00		12.18	18.92	83.84	88.14
01-Jan-17 16:00:00	01-Jan-17 17:00:00		0.58	0.00	0.00	4.50	2.1	329.7		0.19	0.00	0.00	1.48		10.35	18.92	83.84	86.68	01-Jan-17 16:00:00		10.54	18.92	83.84	88.16
01-Jan-17 17:00:00	01-Jan-17 18:00:00		4.34	0.00	0.00	4.50	2.1	329.7		1.43	0.00	0.00	1.48		10.35	18.92	83.84	86.68	01-Jan-17 17:00:00		11.78	18.92	83.84	88.16
01-Jan-17 18:00:00	01-Jan-17 19:00:00		11.33	0.00	0.00	4.51	2.1	329.7		3.74	0.00	0.00	1.49		10.35	18.92	83.84	86.68	01-Jan-17 18:00:00		14.09	18.92	83.84	88.17
01-Jan-17 19:00:00	01-Jan-17 20:00:00		12.01	0.00	0.00	4.51	2.1	329.7		3.96	0.00	0.00	1.49		10.35	18.92	83.84	86.68	01-Jan-17 19:00:00		14.31	18.92	83.84	88.17
01-Jan-17 20:00:00	01-Jan-17 21:00:00		12.49	0.00	0.00	4.42	2.1	329.7		4.12	0.00	0.00	1.46		10.35	18.92	83.84	86.68	01-Jan-17 20:00:00		14.47	18.92	83.84	88.14
01-Jan-17 21:00:00	01-Jan-17 22:00:00		12.98	0.00	0.00	4.32	2.1	329.7		4.28	0.00	0.00	1.43		10.35	18.92	83.84	86.68	01-Jan-17 21:00:00		14.63	18.92	83.84	88.11
01-Jan-17 22:00:00	01-Jan-17 23:00:00		13.41	0.00	0.00	4.22	2.1	329.7		4.42	0.00	0.00	1.39		10.35	18.92	83.84	86.68	01-Jan-17 22:00:00		14.77	18.92	83.84	88.07
01-Jan-17 23:00:00	02-Jan-17 00:00:00		11.46	0.00	0.00	4.14	2.1	329.7		3.78	0.00	0.00	1.36		10.35	18.92	83.84	86.68	01-Jan-17 23:00:00		14.13	18.92	83.84	88.04
02-Jan-17 00:00:00	02-Jan-17 01:00:00		11.38	0.00	0.00	4.19	2.1	329.7		3.75	0.00	0.00	1.38		10.35	18.92	83.84	86.68	02-Jan-17 00:00:00		14.10	18.92	83.84	88.06
02-Jan-17 01:00:00	02-Jan-17 02:00:00		12.10	0.00	0.00	4.29	2.1	329.7		3.99	0.00	0.00	1.41		10.35	18.92	83.84	86.68	02-Jan-17 01:00:00		14.34	18.92	83.84	88.09
02-Jan-17 02:00:00	02-Jan-17 03:00:00		13.02	0.00	0.00	4.39	2.1	329.7		4.29	0.00	0.00	1.45		10.35	18.92	83.84	86.68	02-Jan-17 02:00:00		14.64	18.92	83.84	88.13
02-Jan-17 03:00:00	02-Jan-17 04:00:00		12.16	0.00	0.00	4.48	2.1	329.7		4.01	0.00	0.00	1.48		10.35	18.92	83.84	86.68	02-Jan-17 03:00:00		14.36	18.92	83.84	88.16
02-Jan-17 04:00:00	02-Jan-17 05:00:00		13.00	0.00	0.00	4.41	2.1	329.7		4.29	0.00	0.00	1.45		10.35	18.92	83.84	86.68	02-Jan-17 04:00:00		14.64	18.92	83.84	88.13
02-Jan-17 05:00:00	02-Jan-17 06:00:00		11.81	0.00	0.00	4.29	2.1	329.7		3.89	0.00	0.00	1.42		10.35	18.92	83.84	86.68	02-Jan-17 05:00:00		14.24	18.92	83.84	88.10
02-Jan-17 06:00:00	02-Jan-17 07:00:00		9.62	0.00	0.00	4.18	2.1	329.7		3.17	0.00	0.00	1.38		10.35	18.92	83.84	86.68	02-Jan-17 06:00:00		13.52	18.92	83.84	88.06
02-Jan-17 07:00:00	02-Jan-17 08:00:00		2.05	0.00	0.00	4.08	2.1	329.7		0.68	0.00	0.00	1.34		10.35	18.92	83.84	86.68	02-Jan-17 07:00:00		11.03	18.92	83.84	88.02
02-Jan-17 08:00:00	02-Jan-17 09:00:00		0.00	0.00	0.00	4.06	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	02-Jan-17 08:00:00		10.35	18.92	83.84	88.02
02-Jan-17 09:00:00	02-Jan-17 10:00:00		0.00	0.00	0.00	4.02	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	02-Jan-17 09:00:00		10.35	18.92	83.84	88.01
02-Jan-17 10:00:00	02-Jan-17 11:00:00		0.00	0.00	0.00	3.99	2.1	329.7		0.00	0.00	0.00	1.32		10.35	18.92	83.84	86.68	02-Jan-17 10:00:00		10.35	18.92	83.84	88.00
02-Jan-17 11:00:00	02-Jan-17 12:00:00		0.49	0.00	0.00	6.24	2.1	329.7		0.16	0.00	0.00	2.06		10.35	18.92	83.84	86.68	02-Jan-17 11:00:00		10.51	18.92	83.84	88.74
02-Jan-17 12:00:00	02-Jan-17 13:00:00		1.84	0.00	0.00	3.96	2.1	329.7		0.61	0.00	0.00	1.30		10.35	18.92	83.84	86.68	02-Jan-17 12:00:00		10.96	18.92	83.84	87.98
02-Jan-17 13:00:00	02-Jan-17 14:00:00		0.62	0.00	0.00	3.95	2.1	329.7		0.20	0.00	0.00	1.30		10.35	18.92	83.84	86.68	02-Jan-17 13:00:00		10.55	18.92	83.84	87.98
02-Jan-17 14:00:00	02-Jan-17 15:00:00		1.20	0.00	0.00	3.94	2.1	329.7		0.39	0.00	0.00	1.30		10.35	18.92	83.84	86.68	02-Jan-17 14:00:00		10.74	18.92	83.84	87.98
02-Jan-17 15:00:00	02-Jan-17 16:00:00		2.89	0.00	0.00	3.91	2.1	329.7		0.95	0.00	0.00	1.29		10.35	18.92	83.84	86.68	02-Jan-17 15:00:00		11.30	18.92	83.84	87.97
02-Jan-17 16:00:00	02-Jan-17 17:00:00		3.65	0.00	0.00	3.83	2.1	329.7		1.20	0.00	0.00	1.26		10.35	18.92	83.84	86.68	02-Jan-17 16:00:00		11.55	18.92	83.84	87.94
02-Jan-17 17:00:00	02-Jan-17 18:00:00		3.31	0.00	0.00	3.89	2.1	329.7		1.09	0.00	0.00	1.28		10.35	18.92	83.84	86.68	02-Jan-17 17:00:00		11.44	18.92	83.84	87.96
02-Jan-17 18:00:00	02-Jan-17 19:00:00		2.98	0.00	0.00	3.94	2.1	329.7		0.98	0.00	0.00	1.30		10.35	18.92	83.84	86.68	02-Jan-17 18:00:00		11.33	18.92	83.84	87.98
02-Jan-17 19:00:00	02-Jan-17 20:00:00		3.06	0.00	0.00	3.99	2.1	329.7		1.01	0.00	0.00	1.32		10.35	18.92	83.84	86.68	02-Jan-17 19:00:00		11.36	18.92	83.84	88.00
02-Jan-17 20:00:00	02-Jan-17 21:00:00		3.88	0.00	0.00	4.04	2.1	329.7		1.28	0.00	0.00	1.33		10.35	18.92	83.84	86.68	02-Jan-17 20:00:00		11.63	18.92	83.84	88.01
02-Jan-17 21:00:00	02-Jan-17 22:00:00		3.32	208.26	0.00	4.17	2.1	329.7		1.10	68.66	0.00	1.37		10.35	18.92	83.84	86.68	02-Jan-17 21:00:00		11.45	87.58	83.84	88.05
02-Jan-17 22:00:00	02-Jan-17 23:00:00		595.88	493.99	0.00	4.30	2.1	329.7		196.46	162.87	0.00	1.42		10.35	18.92	83.84	86.68	02-Jan-17 22:00:00		206.81	181.79	83.84	88.10
02-Jan-17 23:00:00	03-Jan-17 00:00:00		556.95	684.51	0.00	4.44	2.1	329.7		183.63	225.68	0.00	1.46		10.35	18.92	83.84	86.68	02-Jan-17 23:00:00		193.98	244.60	83.84	88.14
03-Jan-17 00:00:00	03-Jan-17 01:00:00		639.31	768.81	0.00	4.60	2.1	329.7		210.78	253.48	0.00	1.52		10.35	18.92	83.84	86.68	03-Jan-17 00:00:00		221.13	272.40	83.84	88.20
03-Jan-17 01:00:00	03-Jan-17 02:00:00		745.49	965.64	0.00	4.77	2.1	329.7		245.79	318.37	0.00	1.57		10.35	18.92	83.84	86.68	03-Jan-17 01:00:00		256.14	337.29	83.84	88.25
03-Jan-17 02:00:00	03-Jan-17 03:00:00		774.10	1,143.77	0.00	4.95	2.1	329.7		255.22	377.10	0.00	1.63		10.35	18.92	83.84	86.68	03-Jan-17 02:00:00		265.57	396.02	83.84	88.31
03-Jan-17 03:00:00	03-Jan-17 04:00:00		769.96	1,316.10	0.00	56.15	2.1	329.7		253.85	433.92	0.00	18.51		10.35	18.92	83.84	86.68	03-Jan-17 03:00:00		264.20	452.84	83.84	105.19
03-Jan-17 04:00:00	03-Jan-17 05:00:00		651.53	1,123.32	0.00	4.72	2.1	329.7		214.81	370.36	0.00	1.56		10.35	18.92	83.84	86.68	03-Jan-17 04:00:00		225.16	389.28	83.84	88.24
03-Jan-17 05:00:00	03-Jan-17 06:00:00		578.66	1,017.64	0.00	4.55	2.1	329.7		190.79	335.52	0.00	1.50		10.35	18.92	83.84	86.68	03-Jan-17 05:00:00		201.14	354.44	83.84	88.18
03-Jan-17 06:00:00	03-Jan-17 07:00:00		628.60	1,021.14	0.00	4.39	2.1	329.7		207.25	336.67	0.00	1.45		10.35	18.92	83.84	86.68	03-Jan-17 06:00:00		217.60	355.59	83.84	88.13
03-Jan-17 07:00:00	03-Jan-17 08:00:00		744.21	717.74	0.00	4.26	2.1	329.7		245.36	236.64	0.00	1.41		10.35	18.92	83.84	86.68	03-Jan-17 07:00:00		255.71	255.56	83.84	88.09
03-Jan-17 08:00:00	03-Jan-17 09:00:00		759.48	585.27	0.00	4.19	2.1	329.7		250.40	192.96	0.00	1.38		10.35	18.92	83.84	86.68	03-Jan-17 08:00:00		260.75	211.88	83.84	88.06
03-Jan-17 09:00:00	03-Jan-17 10:00:00		751.45	649.80	0.00	4.12	2.1	329.7		247.75	214.24	0.00	1.36		10.35	18.92	83.84	86.68	03-Jan-17 09:00:00		258.10	233.16	83.84	88.04
03-Jan-17 10:00:00	03-Jan-17 11:00:00		698.38	585.19	0.00	4.00	2.1	329.7		230.26	192.94	0.00	1.32		10.35	18.92	83.84	86.68	03-Jan-17 10:00:00		240.61	211.86	83.84	88.00
03-Jan-17 11:00:00	03-Jan-17 12:00:00		701.02	586.01	0.00	3.88	2.1	329.7		231.13	193.21	0.00	1.28		10.35	18.92	83.84	86.68	03-Jan-17 11:00:00		241.48	212.13	83.84	87.96
03-Jan-17 12:00:00	03-Jan-17 13:00:00		715.99	585.39	0.00	168.64	2.1	329.7		236.06	193.00	0.00	55.60		10.35	18.92	83.84	86.68	03-Jan-17 12:00:00		246.41	211.92	83.84	142.28
03-Jan-17 13:00:00	03-Jan-17 14:00:00		631.96	458.43	0.00	88.95	2.1	329.7		208.36	151.15	0.00	29.33		10.35	18.92	83.84	86.68	03-Jan-17 13:00:00		218.71	170.07	83.84	116.01
03-Jan-17 14:00:00	03-Jan-17 15:00:00		17.46	329.98	0.00	3.64	2.1	329.7		5.76	108.79	0.00	1.20		10.35	18.92	83.84	86.68	03-Jan-17 14:00:00		16.11	127.71	83.84	87.88
03-Jan-17 15:00:00	03-Jan-17 16:00:00		20.06	311.36	0.00	3.55	2.1	329.7		6.62	102.65	0.00	1.17		10.35	18.92	83.84	86.68	03-Jan-17 15:00:00		16.97	121.57	83.84	87.85
03-Jan-17 16:00:00	03-Jan-17 17:00:00		55.29	14.95	0.00	3.46	2.1	329.7		18.23	4.93	0.00	1.14		10.35	18.92	83.84	86.68	03-Jan-17 16:00:00		28.58	23.85	83.84	87.82
03-Jan-17 17:00:00	03-Jan-17 18:00:00		51.43	0.00	0.00	113.39	2.1	329.7		16.96	0.00	0.00	37.38		10.35	18.92	83.84	86.68	03-Jan-17 17:00:00		27.31	18.92	83.84	124.06
03-Jan-17 18:00:00	03-Jan-17 19:00:00		44.57	0.00	0.00	3.66	2.1	329.7		14.69	0.00	0.00	1.21		10.35	18.92	83.84	86.68	03-Jan-17 18:00:00		25.04	18.92	83.84	87.89
03-Jan-17 19:00:00	03-Jan-17 20:00:00		38.43	0.00	0.00	3.75	2.1	329.7		12.67	0.00	0.00	1.24		10.35	18.92	83.84	86.68	03-Jan-17 19:00:00		23.02	18.92	83.84	87.92
03-Jan-17 20:00:00	03-Jan-17 21:00:00		218.57	142.16	0.00	3.84	2.1	329.7		72.06	46.87	0.00	1.27		10.35	18.92	83.84	86.68	03-Jan-17 20:00:00		82.41	65.79	83.84	87.95
03-Jan-17 21:00:00	03-Jan-17 22:00:00		425.45	389.57	0.00	3.93	2.1	329.7		140.27	128.44	0.00	1.30		10.35	18.92	83.84	86.68	03-Jan-17 21:00:00		150.62	147.36	83.84	87.98
03-Jan-17 22:00:00	03-Jan-17 23:00:00		427.29	387.31	0.00	3.98	2.1	329.7		140.88	127.70	0.00	1.31		10.35	18.92	83.84	86.68	03-Jan-17 22:00:00		151.23	146.62	83.84	87.99
03-Jan-17 23:00:00	04-Jan-17 00:00:00		429.77	387.28	0.00	4.02	2.1	329.7		141.69	127.69	0.00	1.33		10.35	18.92	83.84	86.68	03-Jan-17 23:00:00		152.04	146.61	83.84	88.01
04-Jan-17 00:00:00	04-Jan-17 01:00:00		406.27	400.23	0.00	4.06	2.1	329.7		133.95	131.96	0.00	1.34		10.35	18.92	83.84	86.68	04-Jan-17 00:00:00		144.30	150.88	83.84	88.02
04-Jan-17 01:00:00	04-Jan-17 02:00:00		436.88	389.93	0.00	4.11	2.1	329.7		144.04	128.56	0.00	1.36		10.35	18.92	83.84	86.68	04-Jan-17 01:00:00		154.39	147.48	83.84	88.04
04-Jan-17 02:00:00	04-Jan-17 03:00:00		414.66	389.81	0.00	4.14	2.1	329.7		136.71	128.52	0.00	1.37		10.35	18.92	83.84	86.68	04-Jan-17 02:00:00		147.06	147.44	83.84	88.05
04-Jan-17 03:00:00	04-Jan-17 04:00:00		362.82	388.77	0.00	4.09	2.1	329.7		119.62	128.18	0.00	1.35		10.35	18.92	83.84	86.68	04-Jan-17 03:00:00		129.97	147.10	83.84	88.03
04-Jan-17 04:00:00	04-Jan-17 05:00:00		354.35	388.78	0.00	4.03	2.1	329.7		116.83	128.18	0.00	1.33		10.35	18.92	83.84	86.68	04-Jan-17 04:00:00		127.18	147.10	83.84	88.01
04-Jan-17 05:00:00	04-Jan-17 06:00:00		365.31	387.20	0.00	3.98	2.1	329.7		120.44	127.66	0.00	1.31		10.35	18.92	83.84	86.68	04-Jan-17 05:00:00		130.79	146.58	83.84	87.99
04-Jan-17 06:00:00	04-Jan-17 07:00:00		395.67	389.34	0.00	23.99	2.1	329.7		130.45	128.37	0.00	7.91		10.35	18.92	83.84	86.68	04-Jan-17 06:00:00		140.80	147.29	83.84	94.59
04-Jan-17 07:00:00	04-Jan-17 08:00:00		397.16	376.26	0.00	4.12	2.1	329.7		130.94	124.05	0.00	1.36		10.35	18.92	83.84	86.68	04-Jan-17 07:00:00		141.29	142.97	83.84	88.04
04-Jan-17 08:00:00	04-Jan-17 09:00:00		332.79	397.63	0.00	114.28	2.1	329.7		109.72	131.10	0.00	37.68		10.35	18.92	83.84	86.68	04-Jan-17 08:00:00		120.07	150.02	83.84	124.36
04-Jan-17 09:00:00	04-Jan-17 10:00:00		319.51	416.32	0.00	4.13	2.1	329.7		105.34	137.26	0.00	1.36		10.35	18.92	83.84	86.68	04-Jan-17 09:00:00		115.69	156.18	83.84	88.04
04-Jan-17 10:00:00	04-Jan-17 11:00:00		303.22	385.54	0.00	3.81	2.1	329.7		99.97	127.11	0.00	1.26		10.35	18.92	83.84	86.68	04-Jan-17 10:00:00		110.32	146.03	83.84	87.94
04-Jan-17 11:00:00	04-Jan-17 12:00:00		370.35	433.52	0.00	4.49	2.1	329.7		122.10	142.93	0.00	1.48		10.35	18.92	83.84	86.68	04-Jan-17 11:00:00		132.45	161.85	83.84	88.16
04-Jan-17 12:00:00	04-Jan-17 13:00:00		369.50	492.96	0.00	3.44	2.1	329.7		121.83	162.53	0.00	1.13		10.35	18.92	83.84	86.68	04-Jan-17 12:00:00		132.18	181.45	83.84	87.81
04-Jan-17 13:00:00	04-Jan-17 14:00:00		320.74	453.04	0.00	3.42	2.1	329.7		105.75	149.37	0.00	1.13		10.35	18.92	83.84	86.68	04-Jan-17 13:00:00		116.10	168.29	83.84	87.81
04-Jan-17 14:00:00	04-Jan-17 15:00:00		252.37	358.27	0.00	3.40	2.1	329.7		83.21	118.12	0.00	1.12		10.35	18.92	83.84	86.68	04-Jan-17 14:00:00		93.56	137.04	83.84	87.80
04-Jan-17 15:00:00	04-Jan-17 16:00:00		243.71	343.07	0.00	29.34	2.1	329.7		80.35	113.11	0.00	9.67		10.35	18.92	83.84	86.68	04-Jan-17 15:00:00		90.70	132.03	83.84	96.35
04-Jan-17 16:00:00	04-Jan-17 17:00:00		252.75	359.97	0.00	3.63	2.1	329.7		83.33	118.68	0.00	1.20		10.35	18.92	83.84	86.68	04-Jan-17 16:00:00		93.68	137.60	83.84	87.88
04-Jan-17 17:00:00	04-Jan-17 18:00:00		225.04	313.32	0.00	3.86	2.1	329.7		74.20	103.30	0.00	1.27		10.35	18.92	83.84	86.68	04-Jan-17 17:00:00		84.55	122.22	83.84	87.95
04-Jan-17 18:00:00	04-Jan-17 19:00:00		348.46	425.69	0.00	4.10	2.1	329.7		114.89	140.35	0.00	1.35		10.35	18.92	83.84	86.68	04-Jan-17 18:00:00		125.24	159.27	83.84	88.03
04-Jan-17 19:00:00	04-Jan-17 20:00:00		319.04	441.14	0.00	4.34	2.1	329.7		105.19	145.44	0.00	1.43		10.35	18.92	83.84	86.68	04-Jan-17 19:00:00		115.54	164.36	83.84	88.11
04-Jan-17 20:00:00	04-Jan-17 21:00:00		344.73	466.18	0.00	4.74	2.1	329.7		113.66	153.70	0.00	1.56		10.35	18.92	83.84	86.68	04-Jan-17 20:00:00		124.01	172.62	83.84	88.24
04-Jan-17 21:00:00	04-Jan-17 22:00:00		366.98	481.28	0

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
06-Jan-17 23:00:00	07-Jan-17 00:00:00		491.95	0.00	405.09	532.91	2.1	329.7		162.19	0.00	133.56	175.70		10.35	18.92	83.84	86.68	06-Jan-17 23:00:00		172.54	18.92	217.40	262.38
07-Jan-17 00:00:00	07-Jan-17 01:00:00		540.90	0.00	352.25	502.80	2.1	329.7		178.33	0.00	116.14	165.77		10.35	18.92	83.84	86.68	07-Jan-17 00:00:00		188.68	18.92	199.98	252.45
07-Jan-17 01:00:00	07-Jan-17 02:00:00		549.10	0.00	487.65	684.93	2.1	329.7		181.04	0.00	160.78	225.82		10.35	18.92	83.84	86.68	07-Jan-17 01:00:00		191.39	18.92	244.62	312.50
07-Jan-17 02:00:00	07-Jan-17 03:00:00		461.42	0.00	500.45	796.79	2.1	329.7		152.13	0.00	165.00	262.70		10.35	18.92	83.84	86.68	07-Jan-17 02:00:00		162.48	18.92	248.84	349.38
07-Jan-17 03:00:00	07-Jan-17 04:00:00		424.16	0.00	560.49	732.16	2.1	329.7		139.85	0.00	184.79	241.39		10.35	18.92	83.84	86.68	07-Jan-17 03:00:00		150.20	18.92	268.63	328.07
07-Jan-17 04:00:00	07-Jan-17 05:00:00		426.50	0.00	606.69	624.47	2.1	329.7		140.62	0.00	200.03	205.89		10.35	18.92	83.84	86.68	07-Jan-17 04:00:00		150.97	18.92	283.87	292.57
07-Jan-17 05:00:00	07-Jan-17 06:00:00		426.93	0.00	601.93	623.16	2.1	329.7		140.76	0.00	198.46	205.45		10.35	18.92	83.84	86.68	07-Jan-17 05:00:00		151.11	18.92	282.30	292.13
07-Jan-17 06:00:00	07-Jan-17 07:00:00		422.35	0.00	442.76	619.35	2.1	329.7		139.25	0.00	145.98	204.20		10.35	18.92	83.84	86.68	07-Jan-17 06:00:00		149.60	18.92	229.82	290.88
07-Jan-17 07:00:00	07-Jan-17 08:00:00		422.75	0.00	404.54	685.32	2.1	329.7		139.38	0.00	133.38	225.95		10.35	18.92	83.84	86.68	07-Jan-17 07:00:00		149.73	18.92	217.22	312.63
07-Jan-17 08:00:00	07-Jan-17 09:00:00		423.01	0.00	446.72	957.09	2.1	329.7		139.47	0.00	147.28	315.55		10.35	18.92	83.84	86.68	07-Jan-17 08:00:00		149.82	18.92	231.12	402.23
07-Jan-17 09:00:00	07-Jan-17 10:00:00		427.67	0.00	357.52	893.12	2.1	329.7		141.00	0.00	117.87	294.46		10.35	18.92	83.84	86.68	07-Jan-17 09:00:00		151.35	18.92	201.71	381.14
07-Jan-17 10:00:00	07-Jan-17 11:00:00		447.44	0.00	232.99	775.91	2.1	329.7		147.52	0.00	76.82	255.82		10.35	18.92	83.84	86.68	07-Jan-17 10:00:00		157.87	18.92	160.66	342.50
07-Jan-17 11:00:00	07-Jan-17 12:00:00		400.57	0.00	158.82	611.66	2.1	329.7		132.07	0.00	52.36	201.66		10.35	18.92	83.84	86.68	07-Jan-17 11:00:00		142.42	18.92	136.20	288.34
07-Jan-17 12:00:00	07-Jan-17 13:00:00		409.91	0.00	218.66	671.46	2.1	329.7		135.15	0.00	72.09	221.38		10.35	18.92	83.84	86.68	07-Jan-17 12:00:00		145.50	18.92	155.93	308.06
07-Jan-17 13:00:00	07-Jan-17 14:00:00		427.02	20.42	326.11	880.05	2.1	329.7		140.79	6.73	107.52	290.15		10.35	18.92	83.84	86.68	07-Jan-17 13:00:00		151.14	25.65	191.36	376.83
07-Jan-17 14:00:00	07-Jan-17 15:00:00		396.81	292.27	248.64	896.66	2.1	329.7		130.83	96.36	81.98	295.63		10.35	18.92	83.84	86.68	07-Jan-17 14:00:00		141.18	115.28	165.82	382.31
07-Jan-17 15:00:00	07-Jan-17 16:00:00		435.22	407.34	158.38	697.68	2.1	329.7		143.49	134.30	52.22	230.03		10.35	18.92	83.84	86.68	07-Jan-17 15:00:00		153.84	153.22	136.06	316.71
07-Jan-17 16:00:00	07-Jan-17 17:00:00		434.26	405.09	195.51	1,080.03	2.1	329.7		143.17	133.56	64.46	356.09		10.35	18.92	83.84	86.68	07-Jan-17 16:00:00		153.52	152.48	148.30	442.77
07-Jan-17 17:00:00	07-Jan-17 18:00:00		398.08	494.55	242.78	1,213.94	2.1	329.7		131.25	163.05	80.04	400.24		10.35	18.92	83.84	86.68	07-Jan-17 17:00:00		141.60	181.97	163.88	486.92
07-Jan-17 18:00:00	07-Jan-17 19:00:00		435.27	899.84	354.92	1,170.53	2.1	329.7		143.51	296.68	117.02	385.92		10.35	18.92	83.84	86.68	07-Jan-17 18:00:00		153.86	315.60	200.86	472.60
07-Jan-17 19:00:00	07-Jan-17 20:00:00		483.38	906.34	243.32	1,145.13	2.1	329.7		159.37	298.82	80.22	377.55		10.35	18.92	83.84	86.68	07-Jan-17 19:00:00		169.72	317.74	164.06	464.23
07-Jan-17 20:00:00	07-Jan-17 21:00:00		141.36	906.57	192.17	1,090.28	2.1	329.7		46.61	298.90	63.36	359.47		10.35	18.92	83.84	86.68	07-Jan-17 20:00:00		56.96	317.82	147.20	446.15
07-Jan-17 21:00:00	07-Jan-17 22:00:00		133.05	909.49	190.61	1,087.23	2.1	329.7		43.87	299.86	62.84	358.46		10.35	18.92	83.84	86.68	07-Jan-17 21:00:00		54.22	318.78	146.68	445.14
07-Jan-17 22:00:00	07-Jan-17 23:00:00		147.48	909.28	222.86	1,143.18	2.1	329.7		48.62	299.79	73.48	376.91		10.35	18.92	83.84	86.68	07-Jan-17 22:00:00		58.97	318.71	157.32	463.59
07-Jan-17 23:00:00	08-Jan-17 00:00:00		134.97	908.86	301.99	790.32	2.1	329.7		44.50	299.65	99.57	260.57		10.35	18.92	83.84	86.68	07-Jan-17 23:00:00		54.85	318.57	183.41	347.25
08-Jan-17 00:00:00	08-Jan-17 01:00:00		132.69	898.27	438.87	1,153.33	2.1	329.7		43.75	296.16	144.70	380.25		10.35	18.92	83.84	86.68	08-Jan-17 00:00:00		54.10	315.08	228.54	466.93
08-Jan-17 01:00:00	08-Jan-17 02:00:00		139.82	910.67	491.20	1,135.17	2.1	329.7		46.10	300.25	161.95	374.26		10.35	18.92	83.84	86.68	08-Jan-17 01:00:00		56.45	319.17	245.79	460.94
08-Jan-17 02:00:00	08-Jan-17 03:00:00		140.23	910.21	403.56	1,028.00	2.1	329.7		46.23	300.10	133.05	338.93		10.35	18.92	83.84	86.68	08-Jan-17 02:00:00		56.58	319.02	216.89	425.61
08-Jan-17 03:00:00	08-Jan-17 04:00:00		185.93	910.21	489.61	1,191.46	2.1	329.7		61.30	300.09	161.42	392.83		10.35	18.92	83.84	86.68	08-Jan-17 03:00:00		71.65	319.01	245.26	479.51
08-Jan-17 04:00:00	08-Jan-17 05:00:00		189.30	913.82	518.96	1,191.89	2.1	329.7		62.41	301.29	171.10	392.97		10.35	18.92	83.84	86.68	08-Jan-17 04:00:00		72.76	320.21	254.94	479.65
08-Jan-17 05:00:00	08-Jan-17 06:00:00		380.53	660.34	492.19	1,126.87	2.1	329.7		125.46	217.71	162.28	371.53		10.35	18.92	83.84	86.68	08-Jan-17 05:00:00		135.81	236.63	246.12	458.21
08-Jan-17 06:00:00	08-Jan-17 07:00:00		456.66	770.19	490.03	1,002.34	2.1	329.7		150.56	253.93	161.56	330.47		10.35	18.92	83.84	86.68	08-Jan-17 06:00:00		160.91	272.85	245.40	417.15
08-Jan-17 07:00:00	08-Jan-17 08:00:00		485.99	824.67	531.81	1,123.05	2.1	329.7		160.23	271.89	175.34	370.27		10.35	18.92	83.84	86.68	08-Jan-17 07:00:00		170.58	290.81	259.18	456.95
08-Jan-17 08:00:00	08-Jan-17 09:00:00		491.78	816.41	480.38	1,207.43	2.1	329.7		162.14	269.17	158.38	398.09		10.35	18.92	83.84	86.68	08-Jan-17 08:00:00		172.49	288.09	242.22	484.77
08-Jan-17 09:00:00	08-Jan-17 10:00:00		478.11	812.14	366.66	1,081.51	2.1	329.7		157.63	267.76	121.55	356.57		10.35	18.92	83.84	86.68	08-Jan-17 09:00:00		167.98	286.68	205.39	443.25
08-Jan-17 10:00:00	08-Jan-17 11:00:00		473.10	815.32	516.77	1,308.67	2.1	329.7		155.98	268.81	170.38	431.47		10.35	18.92	83.84	86.68	08-Jan-17 10:00:00		166.33	287.73	254.22	518.15
08-Jan-17 11:00:00	08-Jan-17 12:00:00		487.95	815.28	565.26	1,287.68	2.1	329.7		160.88	268.80	186.37	424.55		10.35	18.92	83.84	86.68	08-Jan-17 11:00:00		171.23	287.72	270.21	511.23
08-Jan-17 12:00:00	08-Jan-17 13:00:00		492.41	814.06	682.65	1,320.73	2.1	329.7		162.35	268.39	225.07	435.45		10.35	18.92	83.84	86.68	08-Jan-17 12:00:00		172.70	287.31	308.91	522.13
08-Jan-17 13:00:00	08-Jan-17 14:00:00		529.74	813.52	695.83	1,310.62	2.1	329.7		174.66	268.22	229.42	432.11		10.35	18.92	83.84	86.68	08-Jan-17 13:00:00		185.01	287.14	313.26	518.79
08-Jan-17 14:00:00	08-Jan-17 15:00:00		496.71	795.46	624.07	1,190.07	2.1	329.7		163.77	262.26	205.76	392.37		10.35	18.92	83.84	86.68	08-Jan-17 14:00:00		174.12	281.18	289.60	479.05
08-Jan-17 15:00:00	08-Jan-17 16:00:00		490.56	794.00	534.64	1,080.58	2.1	329.7		161.74	261.78	176.27	356.27		10.35	18.92	83.84	86.68	08-Jan-17 15:00:00		172.09	280.70	260.11	442.95
08-Jan-17 16:00:00	08-Jan-17 17:00:00		442.97	742.12	437.77	993.49	2.1	329.7		146.05	244.68	144.33	327.55		10.35	18.92	83.84	86.68	08-Jan-17 16:00:00		156.40	263.60	228.17	414.23
08-Jan-17 17:00:00	08-Jan-17 18:00:00		380.85	672.82	443.63	932.27	2.1	329.7		125.57	221.83	146.26	307.37		10.35	18.92	83.84	86.68	08-Jan-17 17:00:00		135.92	240.75	230.10	394.05
08-Jan-17 18:00:00	08-Jan-17 19:00:00		385.00	690.83	433.75	864.77	2.1	329.7		126.93	227.77	143.01	285.11		10.35	18.92	83.84	86.68	08-Jan-17 18:00:00		137.28	246.69	226.85	371.79
08-Jan-17 19:00:00	08-Jan-17 20:00:00		380.74	666.13	343.04	707.89	2.1	329.7		125.53	219.62	113.10	233.39		10.35	18.92	83.84	86.68	08-Jan-17 19:00:00		135.88	238.54	196.94	320.07
08-Jan-17 20:00:00	08-Jan-17 21:00:00		362.25	629.01	404.39	902.86	2.1	329.7		119.43	207.38	133.33	297.67		10.35	18.92	83.84	86.68	08-Jan-17 20:00:00		129.78	226.30	217.17	384.55
08-Jan-17 21:00:00	08-Jan-17 22:00:00		367.78	621.55	398.89	973.91	2.1	329.7		121.26	204.93	131.52	321.10		10.35	18.92	83.84	86.68	08-Jan-17 21:00:00		131.61	223.85	215.36	407.78
08-Jan-17 22:00:00	08-Jan-17 23:00:00		385.47	657.70	413.31	1,061.88	2.1	329.7		127.09	216.84	136.27	350.10		10.35	18.92	83.84	86.68	08-Jan-17 22:00:00		137.44	235.76	220.11	436.78
08-Jan-17 23:00:00	09-Jan-17 00:00:00		781.88	720.59	456.66	1,030.95	2.1	329.7		257.78	237.58	150.56	339.91		10.35	18.92	83.84	86.68	08-Jan-17 23:00:00		268.13	256.50	234.40	426.59
09-Jan-17 00:00:00	09-Jan-17 01:00:00		848.45	718.90	488.32	1,011.06	2.1	329.7		279.73	237.02	161.00	333.35		10.35	18.92	83.84	86.68	09-Jan-17 00:00:00		290.08	255.94	244.84	420.03
09-Jan-17 01:00:00	09-Jan-17 02:00:00		886.41	692.26	455.06	916.49	2.1	329.7		292.25	228.24	150.03	302.17		10.35	18.92	83.84	86.68	09-Jan-17 01:00:00		302.60	247.16	233.87	388.85
09-Jan-17 02:00:00	09-Jan-17 03:00:00		798.39	646.77	427.14	854.20	2.1	329.7		263.23	213.24	140.83	281.63		10.35	18.92	83.84	86.68	09-Jan-17 02:00:00		273.58	232.16	224.67	368.31
09-Jan-17 03:00:00	09-Jan-17 04:00:00		873.72	732.93	471.18	1,114.10	2.1	329.7		288.07	241.65	155.35	367.32		10.35	18.92	83.84	86.68	09-Jan-17 03:00:00		298.42	260.57	239.19	454.00
09-Jan-17 04:00:00	09-Jan-17 05:00:00		913.06	747.30	682.83	1,023.56	2.1	329.7		301.04	246.39	225.13	337.47		10.35	18.92	83.84	86.68	09-Jan-17 04:00:00		311.39	265.31	308.97	424.15
09-Jan-17 05:00:00	09-Jan-17 06:00:00		879.87	715.42	623.59	1,187.11	2.1	329.7		290.09	235.87	205.60	391.39		10.35	18.92	83.84	86.68	09-Jan-17 05:00:00		300.44	254.79	289.44	478.07
09-Jan-17 06:00:00	09-Jan-17 07:00:00		853.49	717.73	588.37	1,026.64	2.1	329.7		281.40	236.63	193.99	338.48		10.35	18.92	83.84	86.68	09-Jan-17 06:00:00		291.75	255.55	277.83	425.16
09-Jan-17 07:00:00	09-Jan-17 08:00:00		833.05	716.91	552.19	1,068.15	2.1	329.7		274.66	236.37	182.06	352.17		10.35	18.92	83.84	86.68	09-Jan-17 07:00:00		285.01	255.29	265.90	438.85
09-Jan-17 08:00:00	09-Jan-17 09:00:00		810.01	714.63	476.02	1,183.04	2.1	329.7		267.06	235.61	156.95	390.05		10.35	18.92	83.84	86.68	09-Jan-17 08:00:00		277.41	254.53	240.79	476.73
09-Jan-17 09:00:00	09-Jan-17 10:00:00		760.67	710.52	464.47	1,200.53	2.1	329.7		250.79	234.26	153.13	395.81		10.35	18.92	83.84	86.68	09-Jan-17 09:00:00		261.14	253.18	236.97	482.49
09-Jan-17 10:00:00	09-Jan-17 11:00:00		753.51	709.24	527.02	1,223.51	2.1	329.7		248.43	233.84	173.76	403.39		10.35	18.92	83.84	86.68	09-Jan-17 10:00:00		258.78	252.76	257.60	490.07
09-Jan-17 11:00:00	09-Jan-17 12:00:00		735.24	675.60	463.11	1,059.87	2.1	329.7		242.41	222.74	152.69	349.44		10.35	18.92	83.84	86.68	09-Jan-17 11:00:00		252.76	241.66	236.53	436.12
09-Jan-17 12:00:00	09-Jan-17 13:00:00		746.99	692.50	663.67	988.42	2.1	329.7		246.28	228.32	218.81	325.88		10.35	18.92	83.84	86.68	09-Jan-17 12:00:00		256.63	247.24	302.65	412.56
09-Jan-17 13:00:00	09-Jan-17 14:00:00		677.13	645.70	612.87	747.25	2.1	329.7		223.25	212.89	202.06	246.37		10.35	18.92	83.84	86.68	09-Jan-17 13:00:00		233.60	231.81	285.90	333.05
09-Jan-17 14:00:00	09-Jan-17 15:00:00		655.04	556.52	309.00	696.04	2.1	329.7		215.97	183.48	101.88	229.48		10.35	18.92	83.84	86.68	09-Jan-17 14:00:00		226.32	202.40	185.72	316.16
09-Jan-17 15:00:00	09-Jan-17 16:00:00		686.60	585.55	415.56	762.42	2.1	329.7		226.37	193.06	137.01	251.37		10.35	18.92	83.84	86.68	09-Jan-17 15:00:00		236.72	211.98	220.85	338.05
09-Jan-17 16:00:00	09-Jan-17 17:00:00		750.38	629.10	470.49	646.49	2.1	329.7		247.40	207.41	155.12	213.15		10.35	18.92	83.84	86.68	09-Jan-17 16:00:00		257.75	226.33	238.96	299.83
09-Jan-17 17:00:00	09-Jan-17 18:00:00		669.10	574.93	309.96	410.21	2.1	329.7		220.60	189.55	102.19	135.25		10.35	18.92	83.84	86.68	09-Jan-17 17:00:00		230.95	208.47	186.03	221.93
09-Jan-17 18:00:00	09-Jan-17 19:00:00		679.77	573.70	306.68	399.48	2.1	329.7		224.12	189.15	101.11	131.71		10.35	18.92	83.84	86.68	09-Jan-17 18:00:00		234.47	208.07	184.95	218.39
09-Jan-17 19:00:00	09-Jan-17 20:00:00		675.48	572.37	419.96	464.46	2.1	329.7		222.71	188.71	138.46	153.13		10.35	18.92	83.84	86.68	09-Jan-17 19:00:00		233.06	207.63	222.30	239.81
09-Jan-17 20:00:00	09-Jan-17 21:00:00		671.64	570.70	428.04	450.42	2.1	329.7		221.44	188.16	141.12	148.50		10.35	18.92	83.84	86.68	09-Jan-17 20:00:00		231.79	207.08	224.96	235.18
09-Jan-17 21:00:00	09-Jan-17 22:00:00		812.11	570.90	479.01	499.11	2.1	329.7		267.75	188.22	157.93	164.56		10.35	18.92	83.84	86.68	09-Jan-17 21:00:00		278.10	207.14	241.77	251.24
09-Jan-17 22:00:00	09-Jan-17 23:00:00		777.75	572.26	340.60	777.15	2.1	329.7		256.42	188.67	112.30	256.23		10.35	18.92	83.84	86.68	09-Jan-17 22:00:00		266.77	207.59	196.14	342.91
09-Jan-17 23:00:00	10-Jan-17 00:00:00		628.21	571.45	304.44	664.03	2.1	329.7		207.12	188.41	100.38	218.93		10.35	18.92	83.84	86.68	09-Jan-17 23:00:00		217.47	207.33	184.22	305.61
10-Jan-17 00:00:00	10-Jan-17 01:00:00		628.26	569.45	331.58	666.41	2.1	329.7		207.14	187.75	109.32	219.72		10.35	18.92	83.84	86.68	10-Jan-17 00:00:00		217.49	206.67	193.16	306.40
10-Jan-17 01:00:00	10-Jan-17 02:00:00		626.02	570.39	404.43	629.72	2.1	329.7		206.40	188.06	133.34	207.62		10.35	18.92	83.84	86.68	10-Jan-17 01:00:00		216.75	206.98	217.18	294.30
10-Jan-17 02:00:00	10-Jan-17 03:00:00		654.04	595.65	379.08	626.11	2.1	329.7		215.64	196.38	124.98	206.43		10.35	18.92	83.84	86.68	10-Jan-17 02:00:00		225.99	215.30	208.82	293.11
10-Jan-17 03:00:00	10-Jan-17 04:00:00		719.32	636.56	388.66	650.77	2.1	329.7		237.16	209.87	128.14	214.56		10.35	18.92	83.84	86.68	10-Jan-17 03:00:00		247.51	228.79	211.98	301.24
10-Jan-17 04:00:00	10-Jan-17 05:00:00		715.35	639.59	357.94	681.57	2.1	329.7		235.85	210.87	118.01	224.71		10.35	18.92	83.84	86.68	10-Jan-17 04:00:00		246.20	229.79	201.85	311.39
10-Jan-17 05:00:00	10-Jan-17 06:00:00		717.15	640.22	404.66	661.72	2.1	329.7		236.44	211.08	133.42	218.17		10.35	18.92	83.84	86.68	10-Jan-17 05:00:00		246.79	230.00	217.26	304.85
10-Jan-17 06:00:00	10-Jan-17 07:00:00		713.89	642.67	388.36	625.61	2.1	329.7		235.37	211.89	128.04	206.26		10.35	18.92	83.84	86.68	10-Jan-17 06:00:00		245.72	230.81	211.88	294.73
10-Jan-17 07:00:00	10-Jan-17 08:00:00		726.85	652.32	369.96	599.20	2.1	329.7		239.64	215.07	121.98	197.55		10.35	18.92	83.84	86.68	10-Jan-17 07:00:00		249.99	233.99	205.82	284.23
10-Jan-17 08:00:00	10-Jan-17 09:00:00		753.52	675.55	272.83	598.32	2.1	329.7		248.44	222.73	89.95	197.27		10.35	18.92	83.84	86.68	10-Jan-17 08:00:00		258.79	241.65	173.79	283.95
10-Jan-17 09:00:00	10-Jan-17 10:00:00		851.84	676.18	342.62	594.09	2.1	329.7		280.85	222.94	112.96	195.87		10.35	18.92	83.84	86.68	10-Jan-17 09:00:00		291.20	241.86	196.80	282.55
10-Jan-17 10:00:00	10-Jan-17 11:00:00		971.97	676.74	376.89	599.19	2.1	329.7		320.46	223.12	124.26	197.55		10.35	18.92	83.84	86.68	10-Jan-17 10:00:00		330.81	242.04	208.10	284.23
10-Jan-17 11:00:00	10-Jan-17 12:00:00		862.47	671.81	333.30	551.45	2.1	329.7		284.36	221.49	109.89	181.81		10.35	18.92	83.84	86.68	10-Jan-17 11:00:00		294.71	240.41	193.73	268.49
10-Jan-17 12:00:00	10-Jan-17 13:00:00		975.26	660.18	325.15	505.26	2.1	329.7		321.54	217.66	107.20	166.58		10.35	18.92	83.84	86.68	10-Jan-17 12:00:00		331.89	236.58	191.04	253.26
10-Jan-17 13:00:00	10-Jan-17 14:00:00		1,333.57	644.51	154.31	519.69	2.1	329.7		439.68	212.50	50.87	171.34		10.35	18.92	83.84	86.68	10-Jan-17 13:00:00		450.03	231.42	134.71	258.02
10-Jan-17 14:00:00	10-Jan-17 15:00:00		1,123.54	643.32	131.82	541.01	2.1	329.7		370.43	212.10	43.46	178.37		10.35	18.92	83.84	86.68	10-Jan-17 14:00:00		380.78	231.02	127.30	265.05
10-Jan-17 15:00:00	10-Jan-17 16:00:00		1,136.07	154.04	3.63	243.55	2.1	329.7		374.56	50.79	1.20	80.30		10.35	18.92	83.84	86.68	10-Jan-17 15:00:00		384.91	69.71	85.04	166.98
10-Jan-17 16:00:00	10-Jan-17 17:00:00		1,149.10	0.00	0.00	3.62	2.1	329.7		378.86	0.00	0.00	1.19		10.35	18.92	83.84	86.68	10-Jan-17 16:00:00		389.21	18.92	83.84	87.87
10-Jan-17 17:00:00	10-Jan-17 18:00:00		1,150.86	59.28	0.00	3.85	2.1	329.7		379.44	19.54	0.00	1.27		10.35	18.92	83.84	86.68	10-Jan-17 17:00:00		389.79	38.46	83.84	87.95
10-Jan-17 18:00:00	10-Jan-17 19:00:00		1,311.71	352.45	0.00	4.09	2.1	329.7		432.47	116.20	0.00	1.35		10.35	18.92	83.84	86.68	10-Jan-17 18:00:00		442.82	135.12	83.84	88.03
10-Jan-17 19:00:00	10-Jan-17 20:00:00		1,253.30	438.51	0.00	4.36	2.1	329.7		413.21	144.58	0.00	1.44		10.35	18.92	83.84	86.68	10-Jan-17 19:00:00

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
12-Jan-17 22:00:00	12-Jan-17 23:00:00		0.00	0.00	0.00	3.90	2.1	329.7		0.00	0.00	0.00	1.29		10.35	18.92	83.84	86.68	12-Jan-17 22:00:00		10.35	18.92	83.84	87.97
12-Jan-17 23:00:00	13-Jan-17 00:00:00		0.00	0.00	0.00	4.16	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	12-Jan-17 23:00:00		10.35	18.92	83.84	88.05
13-Jan-17 00:00:00	13-Jan-17 01:00:00		0.00	0.00	0.00	4.33	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	13-Jan-17 00:00:00		10.35	18.92	83.84	88.11
13-Jan-17 01:00:00	13-Jan-17 02:00:00		0.00	0.00	0.00	4.23	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	13-Jan-17 01:00:00		10.35	18.92	83.84	88.08
13-Jan-17 02:00:00	13-Jan-17 03:00:00		0.00	0.00	0.00	4.14	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	13-Jan-17 02:00:00		10.35	18.92	83.84	88.05
13-Jan-17 03:00:00	13-Jan-17 04:00:00		0.00	0.00	0.00	4.05	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	13-Jan-17 03:00:00		10.35	18.92	83.84	88.01
13-Jan-17 04:00:00	13-Jan-17 05:00:00		0.23	0.00	0.00	3.97	2.1	329.7		0.08	0.00	0.00	1.31		10.35	18.92	83.84	86.68	13-Jan-17 04:00:00		10.43	18.92	83.84	87.99
13-Jan-17 05:00:00	13-Jan-17 06:00:00		3.35	0.00	0.00	8.64	2.1	329.7		1.10	0.00	0.00	2.85		10.35	18.92	83.84	86.68	13-Jan-17 05:00:00		11.45	18.92	83.84	89.53
13-Jan-17 06:00:00	13-Jan-17 07:00:00		1.65	0.00	0.00	43.27	2.1	329.7		0.54	0.00	0.00	14.27		10.35	18.92	83.84	86.68	13-Jan-17 06:00:00		10.89	18.92	83.84	100.95
13-Jan-17 07:00:00	13-Jan-17 08:00:00		3.36	0.00	0.00	4.99	2.1	329.7		1.11	0.00	0.00	1.64		10.35	18.92	83.84	86.68	13-Jan-17 07:00:00		11.46	18.92	83.84	88.32
13-Jan-17 08:00:00	13-Jan-17 09:00:00		0.00	0.00	0.00	4.79	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	13-Jan-17 08:00:00		10.35	18.92	83.84	88.26
13-Jan-17 09:00:00	13-Jan-17 10:00:00		0.00	0.00	0.00	4.60	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	13-Jan-17 09:00:00		10.35	18.92	83.84	88.20
13-Jan-17 10:00:00	13-Jan-17 11:00:00		0.00	0.00	0.00	4.41	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	13-Jan-17 10:00:00		10.35	18.92	83.84	88.13
13-Jan-17 11:00:00	13-Jan-17 12:00:00		3.24	0.00	0.00	21.21	2.1	329.7		1.07	0.00	0.00	6.99		10.35	18.92	83.84	86.68	13-Jan-17 11:00:00		11.42	18.92	83.84	93.67
13-Jan-17 12:00:00	13-Jan-17 13:00:00		0.00	0.00	0.00	3.72	2.1	329.7		0.00	0.00	0.00	1.22		10.35	18.92	83.84	86.68	13-Jan-17 12:00:00		10.35	18.92	83.84	87.90
13-Jan-17 13:00:00	13-Jan-17 14:00:00		0.00	0.00	0.00	3.27	2.1	329.7		0.00	0.00	0.00	1.08		10.35	18.92	83.84	86.68	13-Jan-17 13:00:00		10.35	18.92	83.84	87.76
13-Jan-17 14:00:00	13-Jan-17 15:00:00		0.00	0.00	0.00	2.83	2.1	329.7		0.00	0.00	0.00	0.93		10.35	18.92	83.84	86.68	13-Jan-17 14:00:00		10.35	18.92	83.84	87.61
13-Jan-17 15:00:00	13-Jan-17 16:00:00		0.00	0.00	0.00	2.55	2.1	329.7		0.00	0.00	0.00	0.84		10.35	18.92	83.84	86.68	13-Jan-17 15:00:00		10.35	18.92	83.84	87.52
13-Jan-17 16:00:00	13-Jan-17 17:00:00		0.00	0.00	0.00	2.63	2.1	329.7		0.00	0.00	0.00	0.87		10.35	18.92	83.84	86.68	13-Jan-17 16:00:00		10.35	18.92	83.84	87.55
13-Jan-17 17:00:00	13-Jan-17 18:00:00		0.00	0.00	0.00	2.72	2.1	329.7		0.00	0.00	0.00	0.90		10.35	18.92	83.84	86.68	13-Jan-17 17:00:00		10.35	18.92	83.84	87.58
13-Jan-17 18:00:00	13-Jan-17 19:00:00		0.00	0.00	0.00	16.17	2.1	329.7		0.00	0.00	0.00	5.33		10.35	18.92	83.84	86.68	13-Jan-17 18:00:00		10.35	18.92	83.84	92.01
13-Jan-17 19:00:00	13-Jan-17 20:00:00		0.00	0.00	0.00	3.10	2.1	329.7		0.00	0.00	0.00	1.02		10.35	18.92	83.84	86.68	13-Jan-17 19:00:00		10.35	18.92	83.84	87.70
13-Jan-17 20:00:00	13-Jan-17 21:00:00		0.00	0.00	0.00	3.35	2.1	329.7		0.00	0.00	0.00	1.10		10.35	18.92	83.84	86.68	13-Jan-17 20:00:00		10.35	18.92	83.84	87.78
13-Jan-17 21:00:00	13-Jan-17 22:00:00		0.00	0.00	0.00	3.60	2.1	329.7		0.00	0.00	0.00	1.19		10.35	18.92	83.84	86.68	13-Jan-17 21:00:00		10.35	18.92	83.84	87.87
13-Jan-17 22:00:00	13-Jan-17 23:00:00		0.00	0.00	0.00	3.85	2.1	329.7		0.00	0.00	0.00	1.27		10.35	18.92	83.84	86.68	13-Jan-17 22:00:00		10.35	18.92	83.84	87.95
13-Jan-17 23:00:00	14-Jan-17 00:00:00		0.00	0.00	0.00	4.08	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	13-Jan-17 23:00:00		10.35	18.92	83.84	88.03
14-Jan-17 00:00:00	14-Jan-17 01:00:00		0.00	0.00	0.00	4.21	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	14-Jan-17 00:00:00		10.35	18.92	83.84	88.07
14-Jan-17 01:00:00	14-Jan-17 02:00:00		0.00	0.00	0.00	4.33	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	14-Jan-17 01:00:00		10.35	18.92	83.84	88.11
14-Jan-17 02:00:00	14-Jan-17 03:00:00		0.00	0.00	0.00	4.45	2.1	329.7		0.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	14-Jan-17 02:00:00		10.35	18.92	83.84	88.15
14-Jan-17 03:00:00	14-Jan-17 04:00:00		0.02	0.00	0.00	4.55	2.1	329.7		0.01	0.00	0.00	1.50		10.35	18.92	83.84	86.68	14-Jan-17 03:00:00		10.36	18.92	83.84	88.18
14-Jan-17 04:00:00	14-Jan-17 05:00:00		0.67	0.00	0.00	4.63	2.1	329.7		0.22	0.00	0.00	1.53		10.35	18.92	83.84	86.68	14-Jan-17 04:00:00		10.57	18.92	83.84	88.21
14-Jan-17 05:00:00	14-Jan-17 06:00:00		1.64	0.00	0.00	4.72	2.1	329.7		0.54	0.00	0.00	1.56		10.35	18.92	83.84	86.68	14-Jan-17 05:00:00		10.89	18.92	83.84	88.24
14-Jan-17 06:00:00	14-Jan-17 07:00:00		0.64	0.00	0.00	4.80	2.1	329.7		0.21	0.00	0.00	1.58		10.35	18.92	83.84	86.68	14-Jan-17 06:00:00		10.56	18.92	83.84	88.26
14-Jan-17 07:00:00	14-Jan-17 08:00:00		1.37	0.00	0.00	5.01	2.1	329.7		0.45	0.00	0.00	1.65		10.35	18.92	83.84	86.68	14-Jan-17 07:00:00		10.80	18.92	83.84	88.33
14-Jan-17 08:00:00	14-Jan-17 09:00:00		10.75	0.00	0.00	5.01	2.1	329.7		3.54	0.00	0.00	1.65		10.35	18.92	83.84	86.68	14-Jan-17 08:00:00		13.89	18.92	83.84	88.33
14-Jan-17 09:00:00	14-Jan-17 10:00:00		5.00	0.00	0.00	5.01	2.1	329.7		1.65	0.00	0.00	1.65		10.35	18.92	83.84	86.68	14-Jan-17 09:00:00		12.00	18.92	83.84	88.33
14-Jan-17 10:00:00	14-Jan-17 11:00:00		6.69	0.00	0.00	5.01	2.1	329.7		2.20	0.00	0.00	1.65		10.35	18.92	83.84	86.68	14-Jan-17 10:00:00		12.55	18.92	83.84	88.33
14-Jan-17 11:00:00	14-Jan-17 12:00:00		5.43	0.00	0.00	4.96	2.1	329.7		1.79	0.00	0.00	1.64		10.35	18.92	83.84	86.68	14-Jan-17 11:00:00		12.14	18.92	83.84	88.32
14-Jan-17 12:00:00	14-Jan-17 13:00:00		4.24	0.00	0.00	4.68	2.1	329.7		1.40	0.00	0.00	1.54		10.35	18.92	83.84	86.68	14-Jan-17 12:00:00		11.75	18.92	83.84	88.22
14-Jan-17 13:00:00	14-Jan-17 14:00:00		4.16	0.00	0.00	4.39	2.1	329.7		1.37	0.00	0.00	1.45		10.35	18.92	83.84	86.68	14-Jan-17 13:00:00		11.72	18.92	83.84	88.13
14-Jan-17 14:00:00	14-Jan-17 15:00:00		4.08	0.00	0.00	4.11	2.1	329.7		1.35	0.00	0.00	1.35		10.35	18.92	83.84	86.68	14-Jan-17 14:00:00		11.70	18.92	83.84	88.03
14-Jan-17 15:00:00	14-Jan-17 16:00:00		4.01	0.00	0.00	3.98	2.1	329.7		1.32	0.00	0.00	1.31		10.35	18.92	83.84	86.68	14-Jan-17 15:00:00		11.67	18.92	83.84	87.99
14-Jan-17 16:00:00	14-Jan-17 17:00:00		3.45	0.00	0.00	3.99	2.1	329.7		1.14	0.00	0.00	1.31		10.35	18.92	83.84	86.68	14-Jan-17 16:00:00		11.49	18.92	83.84	87.99
14-Jan-17 17:00:00	14-Jan-17 18:00:00		2.47	0.00	0.00	3.99	2.1	329.7		0.82	0.00	0.00	1.32		10.35	18.92	83.84	86.68	14-Jan-17 17:00:00		11.17	18.92	83.84	88.00
14-Jan-17 18:00:00	14-Jan-17 19:00:00		1.41	0.00	0.00	4.00	2.1	329.7		0.47	0.00	0.00	1.32		10.35	18.92	83.84	86.68	14-Jan-17 18:00:00		10.82	18.92	83.84	88.00
14-Jan-17 19:00:00	14-Jan-17 20:00:00		2.08	0.00	0.00	4.02	2.1	329.7		0.69	0.00	0.00	1.33		10.35	18.92	83.84	86.68	14-Jan-17 19:00:00		11.04	18.92	83.84	88.01
14-Jan-17 20:00:00	14-Jan-17 21:00:00		5.15	0.00	0.00	4.18	2.1	329.7		1.70	0.00	0.00	1.38		10.35	18.92	83.84	86.68	14-Jan-17 20:00:00		12.05	18.92	83.84	88.06
14-Jan-17 21:00:00	14-Jan-17 22:00:00		1.72	0.00	0.00	4.34	2.1	329.7		0.57	0.00	0.00	1.43		10.35	18.92	83.84	86.68	14-Jan-17 21:00:00		10.92	18.92	83.84	88.11
14-Jan-17 22:00:00	14-Jan-17 23:00:00		0.00	0.00	0.00	4.49	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	14-Jan-17 22:00:00		10.35	18.92	83.84	88.16
14-Jan-17 23:00:00	15-Jan-17 00:00:00		0.00	0.00	0.00	13.33	2.1	329.7		0.00	0.00	0.00	4.40		10.35	18.92	83.84	86.68	14-Jan-17 23:00:00		10.35	18.92	83.84	91.08
15-Jan-17 00:00:00	15-Jan-17 01:00:00		0.00	0.00	0.00	4.57	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	15-Jan-17 00:00:00		10.35	18.92	83.84	88.19
15-Jan-17 01:00:00	15-Jan-17 02:00:00		0.00	0.00	0.00	42.12	2.1	329.7		0.00	0.00	0.00	13.89		10.35	18.92	83.84	86.68	15-Jan-17 01:00:00		10.35	18.92	83.84	100.57
15-Jan-17 02:00:00	15-Jan-17 03:00:00		0.59	0.00	0.00	6.05	2.1	329.7		0.20	0.00	0.00	1.99		10.35	18.92	83.84	86.68	15-Jan-17 02:00:00		10.55	18.92	83.84	88.67
15-Jan-17 03:00:00	15-Jan-17 04:00:00		0.00	0.00	0.00	7.32	2.1	329.7		0.00	0.00	0.00	2.41		10.35	18.92	83.84	86.68	15-Jan-17 03:00:00		10.35	18.92	83.84	89.09
15-Jan-17 04:00:00	15-Jan-17 05:00:00		0.00	0.00	0.00	8.60	2.1	329.7		0.00	0.00	0.00	2.84		10.35	18.92	83.84	86.68	15-Jan-17 04:00:00		10.35	18.92	83.84	89.52
15-Jan-17 05:00:00	15-Jan-17 06:00:00		0.00	0.00	0.00	8.99	2.1	329.7		0.00	0.00	0.00	2.96		10.35	18.92	83.84	86.68	15-Jan-17 05:00:00		10.35	18.92	83.84	89.64
15-Jan-17 06:00:00	15-Jan-17 07:00:00		0.00	0.00	0.00	6.46	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	15-Jan-17 06:00:00		10.35	18.92	83.84	88.81
15-Jan-17 07:00:00	15-Jan-17 08:00:00		0.00	0.00	0.00	25.81	2.1	329.7		0.00	0.00	0.00	8.51		10.35	18.92	83.84	86.68	15-Jan-17 07:00:00		10.35	18.92	83.84	95.19
15-Jan-17 08:00:00	15-Jan-17 09:00:00		0.00	0.00	0.00	4.61	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	15-Jan-17 08:00:00		10.35	18.92	83.84	88.20
15-Jan-17 09:00:00	15-Jan-17 10:00:00		0.00	0.00	0.00	4.37	2.1	329.7		0.00	0.00	0.00	1.44		10.35	18.92	83.84	86.68	15-Jan-17 09:00:00		10.35	18.92	83.84	88.12
15-Jan-17 10:00:00	15-Jan-17 11:00:00		0.05	0.00	0.00	4.13	2.1	329.7		0.02	0.00	0.00	1.36		10.35	18.92	83.84	86.68	15-Jan-17 10:00:00		10.37	18.92	83.84	88.04
15-Jan-17 11:00:00	15-Jan-17 12:00:00		2.13	0.00	0.00	3.87	2.1	329.7		0.70	0.00	0.00	1.28		10.35	18.92	83.84	86.68	15-Jan-17 11:00:00		11.05	18.92	83.84	87.96
15-Jan-17 12:00:00	15-Jan-17 13:00:00		1.93	0.00	0.00	3.60	2.1	329.7		0.64	0.00	0.00	1.19		10.35	18.92	83.84	86.68	15-Jan-17 12:00:00		10.99	18.92	83.84	87.87
15-Jan-17 13:00:00	15-Jan-17 14:00:00		0.00	0.00	0.00	3.32	2.1	329.7		0.00	0.00	0.00	1.09		10.35	18.92	83.84	86.68	15-Jan-17 13:00:00		10.35	18.92	83.84	87.77
15-Jan-17 14:00:00	15-Jan-17 15:00:00		0.00	0.00	0.00	113.07	2.1	329.7		0.00	0.00	0.00	37.28		10.35	18.92	83.84	86.68	15-Jan-17 14:00:00		10.35	18.92	83.84	123.96
15-Jan-17 15:00:00	15-Jan-17 16:00:00		0.00	0.00	0.00	3.25	2.1	329.7		0.00	0.00	0.00	1.07		10.35	18.92	83.84	86.68	15-Jan-17 15:00:00		10.35	18.92	83.84	87.75
15-Jan-17 16:00:00	15-Jan-17 17:00:00		0.00	0.00	0.00	3.39	2.1	329.7		0.00	0.00	0.00	1.12		10.35	18.92	83.84	86.68	15-Jan-17 16:00:00		10.35	18.92	83.84	87.80
15-Jan-17 17:00:00	15-Jan-17 18:00:00		0.00	0.00	0.00	3.52	2.1	329.7		0.00	0.00	0.00	1.16		10.35	18.92	83.84	86.68	15-Jan-17 17:00:00		10.35	18.92	83.84	87.84
15-Jan-17 18:00:00	15-Jan-17 19:00:00		0.00	0.00	0.00	6.01	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	15-Jan-17 18:00:00		10.35	18.92	83.84	88.66
15-Jan-17 19:00:00	15-Jan-17 20:00:00		0.00	0.00	0.00	4.20	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	15-Jan-17 19:00:00		10.35	18.92	83.84	88.06
15-Jan-17 20:00:00	15-Jan-17 21:00:00		0.00	0.00	0.00	4.71	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	15-Jan-17 20:00:00		10.35	18.92	83.84	88.23
15-Jan-17 21:00:00	15-Jan-17 22:00:00		0.00	0.00	0.00	4.52	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	15-Jan-17 21:00:00		10.35	18.92	83.84	88.17
15-Jan-17 22:00:00	15-Jan-17 23:00:00		0.00	0.00	0.00	13.07	2.1	329.7		0.00	0.00	0.00	4.31		10.35	18.92	83.84	86.68	15-Jan-17 22:00:00		10.35	18.92	83.84	90.99
15-Jan-17 23:00:00	16-Jan-17 00:00:00		231.78	310.02	0.00	4.77	2.1	329.7		76.42	102.21	0.00	1.57		10.35	18.92	83.84	86.68	15-Jan-17 23:00:00		86.77	121.13	83.84	88.25
16-Jan-17 00:00:00	16-Jan-17 01:00:00		537.43	440.63	0.00	4.81	2.1	329.7		177.19	145.28	0.00	1.59		10.35	18.92	83.84	86.68	16-Jan-17 00:00:00		187.54	164.20	83.84	88.27
16-Jan-17 01:00:00	16-Jan-17 02:00:00		533.28	426.51	0.00	4.85	2.1	329.7		175.82	140.62	0.00	1.60		10.35	18.92	83.84	86.68	16-Jan-17 01:00:00		186.17	159.54	83.84	88.28
16-Jan-17 02:00:00	16-Jan-17 03:00:00		556.14	431.20	0.00	15.06	2.1	329.7		183.36	142.17	0.00	4.97		10.35	18.92	83.84	86.68	16-Jan-17 02:00:00		193.71	161.09	83.84	91.65
16-Jan-17 03:00:00	16-Jan-17 04:00:00		441.88	357.78	0.00	4.72	2.1	329.7		145.69	117.96	0.00	1.56		10.35	18.92	83.84	86.68	16-Jan-17 03:00:00		156.04	136.88	83.84	88.24
16-Jan-17 04:00:00	16-Jan-17 05:00:00		494.32	381.69	0.00	4.80	2.1	329.7		162.98	125.84	0.00	1.58		10.35	18.92	83.84	86.68	16-Jan-17 04:00:00		173.33	144.76	83.84	88.26
16-Jan-17 05:00:00	16-Jan-17 06:00:00		488.61	380.40	0.00	5.87	2.1	329.7		161.09	125.42	0.00	1.94		10.35	18.92	83.84	86.68	16-Jan-17 05:00:00		171.44	144.34	83.84	88.62
16-Jan-17 06:00:00	16-Jan-17 07:00:00		487.16	390.32	0.00	4.82	2.1	329.7		160.62	128.69	0.00	1.59		10.35	18.92	83.84	86.68	16-Jan-17 06:00:00		170.97	147.61	83.84	88.27
16-Jan-17 07:00:00	16-Jan-17 08:00:00		424.50	338.52	0.00	4.81	2.1	329.7		139.96	111.61	0.00	1.59		10.35	18.92	83.84	86.68	16-Jan-17 07:00:00		150.31	130.53	83.84	88.27
16-Jan-17 08:00:00	16-Jan-17 09:00:00		401.24	339.48	0.00	4.80	2.1	329.7		132.29	111.93	0.00	1.58		10.35	18.92	83.84	86.68	16-Jan-17 08:00:00		142.64	130.85	83.84	88.26
16-Jan-17 09:00:00	16-Jan-17 10:00:00		394.57	336.35	0.00	4.79	2.1	329.7		130.09	110.90	0.00	1.58		10.35	18.92	83.84	86.68	16-Jan-17 09:00:00		140.44	129.82	83.84	88.26
16-Jan-17 10:00:00	16-Jan-17 11:00:00		338.48	281.90	0.00	4.79	2.1	329.7		111.60	92.94	0.00	1.58		10.35	18.92	83.84	86.68	16-Jan-17 10:00:00		121.95	111.86	83.84	88.26
16-Jan-17 11:00:00	16-Jan-17 12:00:00		371.33	301.56	0.00	4.79	2.1	329.7		122.43	99.42	0.00	1.58		10.35	18.92	83.84	86.68	16-Jan-17 11:00:00		132.78	118.34	83.84	88.26
16-Jan-17 12:00:00	16-Jan-17 13:00:00		482.95	434.37	0.00	4.79	2.1	329.7		159.23	143.21	0.00	1.58		10.35	18.92	83.84	86.68	16-Jan-17 12:00:00		169.58	162.13	83.84	88.26
16-Jan-17 13:00:00	16-Jan-17 14:00:00		637.91	1,278.10	0.00	114.89	2.1	329.7		210.32	421.39	0.00	37.88		10.35	18.92	83.84	86.68	16-Jan-17 13:00:00		220.67	440.31	83.84	124.56
16-Jan-17 14:00:00	16-Jan-17 15:00:00		859.48	1,014.72	0.00	4.97	2.1	329.7		283.37	334.55	0.00	1.64		10.35	18.92	83.84	86.68	16-Jan-17 14:00:00		293.72	353.47	83.84	88.32
16-Jan-17 15:00:00	16-Jan-17 16:00:00		1,131.48	1,664.16	0.00	4.93	2.1	329.7		373.05	548.67	0.00	1.62		10.35	18.92	83.84	86.68	16-Jan-17 15:00:00		383.40	567.59	83.84	88.30
16-Jan-17 16:00:00	16-Jan-17 17:00:00		1,077.94	1,736.23	0.00	4.88	2.1	329.7		355.40	572.43	0.00	1.61		10.35	18.92	83.84	86.68	16-Jan-17 16:00:00		365.75	591.35	83.84	88.29
16-Jan-17 17:00:00	16-Jan-17 18:00:00		948.86	1,716.13	0.00	4.81	2.1	329.7		312.84	565.81	0.00	1.59		10.35	18.92	83.84	86.68	16-Jan-17 17:00:00		323.19	584.73	83.84	88.27
16-Jan-17 18:00:00	16-Jan-17 19:00:00		825.77	1,891.63	0.00	4.87	2.1	329.7		272.26	623.67	0.00	1.61		10.35	18.92	83.84	86.68	16-Jan-17 18:00:00		282.61	642.59	83.84	88.29
16-Jan-17 19:00:00	16-Jan-17 20:00:00		931.96

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
18-Jan-17 21:00:00	18-Jan-17 22:00:00		0.00	0.00	0.00	4.58	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	18-Jan-17 21:00:00		**10.35**	**18.92**	**83.84**	**88.19**
18-Jan-17 22:00:00	18-Jan-17 23:00:00		2.67	0.00	0.00	5.02	2.1	329.7		0.88	0.00	0.00	1.65		10.35	18.92	83.84	86.68	18-Jan-17 22:00:00		**11.23**	**18.92**	**83.84**	**88.33**
18-Jan-17 23:00:00	19-Jan-17 00:00:00		1.23	0.00	0.00	5.46	2.1	329.7		0.40	0.00	0.00	1.80		10.35	18.92	83.84	86.68	18-Jan-17 23:00:00		**10.75**	**18.92**	**83.84**	**88.48**
19-Jan-17 00:00:00	19-Jan-17 01:00:00		0.00	0.00	0.00	5.68	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	19-Jan-17 00:00:00		**10.35**	**18.92**	**83.84**	**88.55**
19-Jan-17 01:00:00	19-Jan-17 02:00:00		0.00	0.00	0.00	5.59	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	19-Jan-17 01:00:00		**10.35**	**18.92**	**83.84**	**88.52**
19-Jan-17 02:00:00	19-Jan-17 03:00:00		0.15	0.00	0.00	116.37	2.1	329.7		0.05	0.00	0.00	38.37		10.35	18.92	83.84	86.68	19-Jan-17 02:00:00		**10.40**	**18.92**	**83.84**	**125.05**
19-Jan-17 03:00:00	19-Jan-17 04:00:00		0.00	0.00	0.00	5.58	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	19-Jan-17 03:00:00		**10.35**	**18.92**	**83.84**	**88.52**
19-Jan-17 04:00:00	19-Jan-17 05:00:00		0.00	0.00	0.00	5.61	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	19-Jan-17 04:00:00		**10.35**	**18.92**	**83.84**	**88.53**
19-Jan-17 05:00:00	19-Jan-17 06:00:00		0.00	0.00	0.00	5.65	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	19-Jan-17 05:00:00		**10.35**	**18.92**	**83.84**	**88.54**
19-Jan-17 06:00:00	19-Jan-17 07:00:00		0.00	0.00	0.00	5.57	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	19-Jan-17 06:00:00		**10.35**	**18.92**	**83.84**	**88.52**
19-Jan-17 07:00:00	19-Jan-17 08:00:00		0.00	0.00	0.00	5.51	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	19-Jan-17 07:00:00		**10.35**	**18.92**	**83.84**	**88.50**
19-Jan-17 08:00:00	19-Jan-17 09:00:00		0.00	0.00	0.00	5.56	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	19-Jan-17 08:00:00		**10.35**	**18.92**	**83.84**	**88.51**
19-Jan-17 09:00:00	19-Jan-17 10:00:00		0.00	0.00	0.00	5.60	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	19-Jan-17 09:00:00		**10.35**	**18.92**	**83.84**	**88.53**
19-Jan-17 10:00:00	19-Jan-17 11:00:00		0.01	0.00	0.00	5.58	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	19-Jan-17 10:00:00		**10.35**	**18.92**	**83.84**	**88.52**
19-Jan-17 11:00:00	19-Jan-17 12:00:00		0.08	0.00	0.00	5.19	2.1	329.7		0.03	0.00	0.00	1.71		10.35	18.92	83.84	86.68	19-Jan-17 11:00:00		**10.38**	**18.92**	**83.84**	**88.39**
19-Jan-17 12:00:00	19-Jan-17 13:00:00		0.16	0.00	0.00	4.75	2.1	329.7		0.05	0.00	0.00	1.56		10.35	18.92	83.84	86.68	19-Jan-17 12:00:00		**10.40**	**18.92**	**83.84**	**88.24**
19-Jan-17 13:00:00	19-Jan-17 14:00:00		3.32	0.00	0.00	4.30	2.1	329.7		1.09	0.00	0.00	1.42		10.35	18.92	83.84	86.68	19-Jan-17 13:00:00		**11.44**	**18.92**	**83.84**	**88.10**
19-Jan-17 14:00:00	19-Jan-17 15:00:00		5.83	0.00	0.00	5.02	2.1	329.7		1.92	0.00	0.00	1.65		10.35	18.92	83.84	86.68	19-Jan-17 14:00:00		**12.27**	**18.92**	**83.84**	**88.33**
19-Jan-17 15:00:00	19-Jan-17 16:00:00		1.70	0.00	0.00	3.98	2.1	329.7		0.56	0.00	0.00	1.31		10.35	18.92	83.84	86.68	19-Jan-17 15:00:00		**10.91**	**18.92**	**83.84**	**87.99**
19-Jan-17 16:00:00	19-Jan-17 17:00:00		1.65	0.00	0.00	3.99	2.1	329.7		0.54	0.00	0.00	1.32		10.35	18.92	83.84	86.68	19-Jan-17 16:00:00		**10.89**	**18.92**	**83.84**	**88.00**
19-Jan-17 17:00:00	19-Jan-17 18:00:00		0.55	0.00	0.00	17.75	2.1	329.7		0.18	0.00	0.00	5.85		10.35	18.92	83.84	86.68	19-Jan-17 17:00:00		**10.53**	**18.92**	**83.84**	**92.53**
19-Jan-17 18:00:00	19-Jan-17 19:00:00		0.36	0.00	0.00	4.05	2.1	329.7		0.12	0.00	0.00	1.34		10.35	18.92	83.84	86.68	19-Jan-17 18:00:00		**10.47**	**18.92**	**83.84**	**88.02**
19-Jan-17 19:00:00	19-Jan-17 20:00:00		0.18	0.00	0.00	4.19	2.1	329.7		0.06	0.00	0.00	1.38		10.35	18.92	83.84	86.68	19-Jan-17 19:00:00		**10.41**	**18.92**	**83.84**	**88.06**
19-Jan-17 20:00:00	19-Jan-17 21:00:00		0.02	0.00	0.00	4.33	2.1	329.7		0.01	0.00	0.00	1.43		10.35	18.92	83.84	86.68	19-Jan-17 20:00:00		**10.36**	**18.92**	**83.84**	**88.11**
19-Jan-17 21:00:00	19-Jan-17 22:00:00		0.00	0.00	0.00	4.47	2.1	329.7		0.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	19-Jan-17 21:00:00		**10.35**	**18.92**	**83.84**	**88.15**
19-Jan-17 22:00:00	19-Jan-17 23:00:00		0.93	0.00	0.00	4.66	2.1	329.7		0.31	0.00	0.00	1.54		10.35	18.92	83.84	86.68	19-Jan-17 22:00:00		**10.66**	**18.92**	**83.84**	**88.22**
19-Jan-17 23:00:00	20-Jan-17 00:00:00		2.25	0.00	0.00	4.88	2.1	329.7		0.74	0.00	0.00	1.61		10.35	18.92	83.84	86.68	19-Jan-17 23:00:00		**11.09**	**18.92**	**83.84**	**88.29**
20-Jan-17 00:00:00	20-Jan-17 01:00:00		1.60	0.00	0.00	5.49	2.1	329.7		0.53	0.00	0.00	1.81		10.35	18.92	83.84	86.68	20-Jan-17 00:00:00		**10.88**	**18.92**	**83.84**	**88.49**
20-Jan-17 01:00:00	20-Jan-17 02:00:00		1.01	0.00	0.00	23.85	2.1	329.7		0.33	0.00	0.00	7.86		10.35	18.92	83.84	86.68	20-Jan-17 01:00:00		**10.68**	**18.92**	**83.84**	**94.54**
20-Jan-17 02:00:00	20-Jan-17 03:00:00		0.42	0.00	0.00	5.04	2.1	329.7		0.14	0.00	0.00	1.66		10.35	18.92	83.84	86.68	20-Jan-17 02:00:00		**10.49**	**18.92**	**83.84**	**88.34**
20-Jan-17 03:00:00	20-Jan-17 04:00:00		0.01	0.00	0.00	4.99	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	20-Jan-17 03:00:00		**10.35**	**18.92**	**83.84**	**88.33**
20-Jan-17 04:00:00	20-Jan-17 05:00:00		0.00	0.00	0.00	4.93	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	20-Jan-17 04:00:00		**10.35**	**18.92**	**83.84**	**88.31**
20-Jan-17 05:00:00	20-Jan-17 06:00:00		0.00	0.00	0.00	4.88	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	20-Jan-17 05:00:00		**10.35**	**18.92**	**83.84**	**88.29**
20-Jan-17 06:00:00	20-Jan-17 07:00:00		0.00	0.00	0.00	4.73	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	20-Jan-17 06:00:00		**10.35**	**18.92**	**83.84**	**88.24**
20-Jan-17 07:00:00	20-Jan-17 08:00:00		0.00	0.00	0.00	18.70	2.1	329.7		0.00	0.00	0.00	6.16		10.35	18.92	83.84	86.68	20-Jan-17 07:00:00		**10.35**	**18.92**	**83.84**	**92.84**
20-Jan-17 08:00:00	20-Jan-17 09:00:00		0.00	0.00	0.00	4.56	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	20-Jan-17 08:00:00		**10.35**	**18.92**	**83.84**	**88.18**
20-Jan-17 09:00:00	20-Jan-17 10:00:00		0.00	0.00	0.00	37.44	2.1	329.7		0.00	0.00	0.00	12.34		10.35	18.92	83.84	86.68	20-Jan-17 09:00:00		**10.35**	**18.92**	**83.84**	**99.02**
20-Jan-17 10:00:00	20-Jan-17 11:00:00		0.00	0.00	0.00	6.02	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	20-Jan-17 10:00:00		**10.35**	**18.92**	**83.84**	**88.66**
20-Jan-17 11:00:00	20-Jan-17 12:00:00		0.00	0.00	0.00	6.14	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	20-Jan-17 11:00:00		**10.35**	**18.92**	**83.84**	**88.71**
20-Jan-17 12:00:00	20-Jan-17 13:00:00		0.32	0.00	0.00	3.93	2.1	329.7		0.10	0.00	0.00	1.30		10.35	18.92	83.84	86.68	20-Jan-17 12:00:00		**10.45**	**18.92**	**83.84**	**87.98**
20-Jan-17 13:00:00	20-Jan-17 14:00:00		0.00	0.00	0.00	4.21	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	20-Jan-17 13:00:00		**10.35**	**18.92**	**83.84**	**88.07**
20-Jan-17 14:00:00	20-Jan-17 15:00:00		0.00	0.00	0.00	4.46	2.1	329.7		0.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	20-Jan-17 14:00:00		**10.35**	**18.92**	**83.84**	**88.15**
20-Jan-17 15:00:00	20-Jan-17 16:00:00		0.00	0.00	0.00	3.94	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	20-Jan-17 15:00:00		**10.35**	**18.92**	**83.84**	**87.98**
20-Jan-17 16:00:00	20-Jan-17 17:00:00		0.00	0.00	0.00	3.85	2.1	329.7		0.00	0.00	0.00	1.27		10.35	18.92	83.84	86.68	20-Jan-17 16:00:00		**10.35**	**18.92**	**83.84**	**87.95**
20-Jan-17 17:00:00	20-Jan-17 18:00:00		0.00	0.00	0.00	3.77	2.1	329.7		0.00	0.00	0.00	1.24		10.35	18.92	83.84	86.68	20-Jan-17 17:00:00		**10.35**	**18.92**	**83.84**	**87.92**
20-Jan-17 18:00:00	20-Jan-17 19:00:00		0.00	0.00	0.00	3.70	2.1	329.7		0.00	0.00	0.00	1.22		10.35	18.92	83.84	86.68	20-Jan-17 18:00:00		**10.35**	**18.92**	**83.84**	**87.90**
20-Jan-17 19:00:00	20-Jan-17 20:00:00		0.00	0.00	0.00	3.78	2.1	329.7		0.00	0.00	0.00	1.24		10.35	18.92	83.84	86.68	20-Jan-17 19:00:00		**10.35**	**18.92**	**83.84**	**87.92**
20-Jan-17 20:00:00	20-Jan-17 21:00:00		0.00	0.00	0.00	4.00	2.1	329.7		0.00	0.00	0.00	1.32		10.35	18.92	83.84	86.68	20-Jan-17 20:00:00		**10.35**	**18.92**	**83.84**	**88.00**
20-Jan-17 21:00:00	20-Jan-17 22:00:00		0.00	0.00	0.00	4.22	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	20-Jan-17 21:00:00		**10.35**	**18.92**	**83.84**	**88.07**
20-Jan-17 22:00:00	20-Jan-17 23:00:00		0.00	0.00	0.00	14.38	2.1	329.7		0.00	0.00	0.00	4.74		10.35	18.92	83.84	86.68	20-Jan-17 22:00:00		**10.35**	**18.92**	**83.84**	**91.42**
20-Jan-17 23:00:00	21-Jan-17 00:00:00		0.00	0.00	0.00	4.53	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	20-Jan-17 23:00:00		**10.35**	**18.92**	**83.84**	**88.17**
21-Jan-17 00:00:00	21-Jan-17 01:00:00		0.00	0.00	0.00	4.55	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	21-Jan-17 00:00:00		**10.35**	**18.92**	**83.84**	**88.18**
21-Jan-17 01:00:00	21-Jan-17 02:00:00		0.12	0.00	0.00	4.57	2.1	329.7		0.04	0.00	0.00	1.51		10.35	18.92	83.84	86.68	21-Jan-17 01:00:00		**10.39**	**18.92**	**83.84**	**88.19**
21-Jan-17 02:00:00	21-Jan-17 03:00:00		0.97	0.00	0.00	4.58	2.1	329.7		0.32	0.00	0.00	1.51		10.35	18.92	83.84	86.68	21-Jan-17 02:00:00		**10.67**	**18.92**	**83.84**	**88.19**
21-Jan-17 03:00:00	21-Jan-17 04:00:00		1.85	0.00	0.00	4.57	2.1	329.7		0.61	0.00	0.00	1.51		10.35	18.92	83.84	86.68	21-Jan-17 03:00:00		**10.96**	**18.92**	**83.84**	**88.19**
21-Jan-17 04:00:00	21-Jan-17 05:00:00		0.84	0.00	0.00	41.74	2.1	329.7		0.28	0.00	0.00	13.76		10.35	18.92	83.84	86.68	21-Jan-17 04:00:00		**10.63**	**18.92**	**83.84**	**100.44**
21-Jan-17 05:00:00	21-Jan-17 06:00:00		1.86	0.00	0.00	4.70	2.1	329.7		0.61	0.00	0.00	1.55		10.35	18.92	83.84	86.68	21-Jan-17 05:00:00		**10.96**	**18.92**	**83.84**	**88.23**
21-Jan-17 06:00:00	21-Jan-17 07:00:00		0.00	0.00	0.00	4.77	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	21-Jan-17 06:00:00		**10.35**	**18.92**	**83.84**	**88.25**
21-Jan-17 07:00:00	21-Jan-17 08:00:00		0.00	0.00	0.00	4.84	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	21-Jan-17 07:00:00		**10.35**	**18.92**	**83.84**	**88.27**
21-Jan-17 08:00:00	21-Jan-17 09:00:00		0.00	0.00	0.00	4.95	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	21-Jan-17 08:00:00		**10.35**	**18.92**	**83.84**	**88.31**
21-Jan-17 09:00:00	21-Jan-17 10:00:00		0.00	0.00	0.00	6.81	2.1	329.7		0.00	0.00	0.00	2.25		10.35	18.92	83.84	86.68	21-Jan-17 09:00:00		**10.35**	**18.92**	**83.84**	**88.93**
21-Jan-17 10:00:00	21-Jan-17 11:00:00		0.00	0.00	0.00	4.91	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	21-Jan-17 10:00:00		**10.35**	**18.92**	**83.84**	**88.30**
21-Jan-17 11:00:00	21-Jan-17 12:00:00		0.00	0.00	0.00	68.17	2.1	329.7		0.00	0.00	0.00	22.48		10.35	18.92	83.84	86.68	21-Jan-17 11:00:00		**10.35**	**18.92**	**83.84**	**109.16**
21-Jan-17 12:00:00	21-Jan-17 13:00:00		0.00	0.00	0.00	5.03	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	21-Jan-17 12:00:00		**10.35**	**18.92**	**83.84**	**88.34**
21-Jan-17 13:00:00	21-Jan-17 14:00:00		0.00	0.00	0.00	5.04	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	21-Jan-17 13:00:00		**10.35**	**18.92**	**83.84**	**88.34**
21-Jan-17 14:00:00	21-Jan-17 15:00:00		0.07	0.00	0.00	5.05	2.1	329.7		0.02	0.00	0.00	1.67		10.35	18.92	83.84	86.68	21-Jan-17 14:00:00		**10.37**	**18.92**	**83.84**	**88.35**
21-Jan-17 15:00:00	21-Jan-17 16:00:00		0.18	0.00	0.00	5.03	2.1	329.7		0.06	0.00	0.00	1.66		10.35	18.92	83.84	86.68	21-Jan-17 15:00:00		**10.41**	**18.92**	**83.84**	**88.34**
21-Jan-17 16:00:00	21-Jan-17 17:00:00		0.29	0.00	0.00	4.96	2.1	329.7		0.09	0.00	0.00	1.64		10.35	18.92	83.84	86.68	21-Jan-17 16:00:00		**10.44**	**18.92**	**83.84**	**88.32**
21-Jan-17 17:00:00	21-Jan-17 18:00:00		0.43	0.00	0.00	4.89	2.1	329.7		0.14	0.00	0.00	1.61		10.35	18.92	83.84	86.68	21-Jan-17 17:00:00		**10.49**	**18.92**	**83.84**	**88.29**
21-Jan-17 18:00:00	21-Jan-17 19:00:00		2.40	0.00	0.00	18.66	2.1	329.7		0.79	0.00	0.00	6.15		10.35	18.92	83.84	86.68	21-Jan-17 18:00:00		**11.14**	**18.92**	**83.84**	**92.83**
21-Jan-17 19:00:00	21-Jan-17 20:00:00		4.71	0.00	0.00	4.58	2.1	329.7		1.55	0.00	0.00	1.51		10.35	18.92	83.84	86.68	21-Jan-17 19:00:00		**11.90**	**18.92**	**83.84**	**88.19**
21-Jan-17 20:00:00	21-Jan-17 21:00:00		5.60	0.00	0.00	73.87	2.1	329.7		1.85	0.00	0.00	24.35		10.35	18.92	83.84	86.68	21-Jan-17 20:00:00		**12.20**	**18.92**	**83.84**	**111.03**
21-Jan-17 21:00:00	21-Jan-17 22:00:00		6.51	0.00	0.00	5.04	2.1	329.7		2.15	0.00	0.00	1.66		10.35	18.92	83.84	86.68	21-Jan-17 21:00:00		**12.50**	**18.92**	**83.84**	**88.34**
21-Jan-17 22:00:00	21-Jan-17 23:00:00		5.32	0.00	0.00	4.33	2.1	329.7		1.75	0.00	0.00	1.43		10.35	18.92	83.84	86.68	21-Jan-17 22:00:00		**12.10**	**18.92**	**83.84**	**88.11**
21-Jan-17 23:00:00	22-Jan-17 00:00:00		6.57	0.00	0.00	4.46	2.1	329.7		2.16	0.00	0.00	1.47		10.35	18.92	83.84	86.68	21-Jan-17 23:00:00		**12.51**	**18.92**	**83.84**	**88.15**
22-Jan-17 00:00:00	22-Jan-17 01:00:00		7.44	0.00	0.00	4.59	2.1	329.7		2.45	0.00	0.00	1.51		10.35	18.92	83.84	86.68	22-Jan-17 00:00:00		**12.80**	**18.92**	**83.84**	**88.19**
22-Jan-17 01:00:00	22-Jan-17 02:00:00		7.65	0.00	0.00	5.50	2.1	329.7		2.52	0.00	0.00	1.81		10.35	18.92	83.84	86.68	22-Jan-17 01:00:00		**12.87**	**18.92**	**83.84**	**88.49**
22-Jan-17 02:00:00	22-Jan-17 03:00:00		7.87	0.00	0.00	4.84	2.1	329.7		2.59	0.00	0.00	1.59		10.35	18.92	83.84	86.68	22-Jan-17 02:00:00		**12.94**	**18.92**	**83.84**	**88.27**
22-Jan-17 03:00:00	22-Jan-17 04:00:00		7.66	0.00	0.00	33.60	2.1	329.7		2.53	0.00	0.00	11.08		10.35	18.92	83.84	86.68	22-Jan-17 03:00:00		**12.88**	**18.92**	**83.84**	**97.76**
22-Jan-17 04:00:00	22-Jan-17 05:00:00		7.44	0.00	0.00	4.69	2.1	329.7		2.45	0.00	0.00	1.55		10.35	18.92	83.84	86.68	22-Jan-17 04:00:00		**12.80**	**18.92**	**83.84**	**88.23**
22-Jan-17 05:00:00	22-Jan-17 06:00:00		7.54	0.00	0.00	59.71	2.1	329.7		2.49	0.00	0.00	19.69		10.35	18.92	83.84	86.68	22-Jan-17 05:00:00		**12.84**	**18.92**	**83.84**	**106.37**
22-Jan-17 06:00:00	22-Jan-17 07:00:00		7.63	0.00	0.00	4.57	2.1	329.7		2.52	0.00	0.00	1.51		10.35	18.92	83.84	86.68	22-Jan-17 06:00:00		**12.87**	**18.92**	**83.84**	**88.19**
22-Jan-17 07:00:00	22-Jan-17 08:00:00		7.46	0.00	0.00	58.07	2.1	329.7		2.46	0.00	0.00	19.15		10.35	18.92	83.84	86.68	22-Jan-17 07:00:00		**12.81**	**18.92**	**83.84**	**105.83**
22-Jan-17 08:00:00	22-Jan-17 09:00:00		6.67	0.00	0.00	4.39	2.1	329.7		2.20	0.00	0.00	1.45		10.35	18.92	83.84	86.68	22-Jan-17 08:00:00		**12.55**	**18.92**	**83.84**	**88.13**
22-Jan-17 09:00:00	22-Jan-17 10:00:00		5.88	0.00	0.00	4.25	2.1	329.7		1.94	0.00	0.00	1.40		10.35	18.92	83.84	86.68	22-Jan-17 09:00:00		**12.29**	**18.92**	**83.84**	**88.08**
22-Jan-17 10:00:00	22-Jan-17 11:00:00		4.69	0.00	0.00	4.10	2.1	329.7		1.55	0.00	0.00	1.35		10.35	18.92	83.84	86.68	22-Jan-17 10:00:00		**11.90**	**18.92**	**83.84**	**88.03**
22-Jan-17 11:00:00	22-Jan-17 12:00:00		1.48	0.00	0.00	3.98	2.1	329.7		0.49	0.00	0.00	1.31		10.35	18.92	83.84	86.68	22-Jan-17 11:00:00		**10.84**	**18.92**	**83.84**	**87.99**
22-Jan-17 12:00:00	22-Jan-17 13:00:00		0.00	0.00	0.00	3.95	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	22-Jan-17 12:00:00		**10.35**	**18.92**	**83.84**	**87.98**
22-Jan-17 13:00:00	22-Jan-17 14:00:00		0.00	0.00	0.00	77.59	2.1	329.7		0.00	0.00	0.00	25.58		10.35	18.92	83.84	86.68	22-Jan-17 13:00:00		**10.35**	**18.92**	**83.84**	**112.26**
22-Jan-17 14:00:00	22-Jan-17 15:00:00		0.00	0.00	0.00	3.94	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	22-Jan-17 14:00:00		**10.35**	**18.92**	**83.84**	**87.98**
22-Jan-17 15:00:00	22-Jan-17 16:00:00		0.00	0.00	0.00	10.74	2.1	329.7		0.00	0.00	0.00	3.54		10.35	18.92	83.84	86.68	22-Jan-17 15:00:00		**10.35**	**18.92**	**83.84**	**90.22**
22-Jan-17 16:00:00	22-Jan-17 17:00:00		0.00	0.00	0.00	15.07	2.1	329.7		0.00	0.00	0.00	4.97		10.35	18.92	83.84	86.68	22-Jan-17 16:00:00		**10.35**	**18.92**	**83.84**	**91.65**
22-Jan-17 17:00:00	22-Jan-17 18:00:00		0.00	0.00	0.00	97.26	2.1	329.7		0.00	0.00	0.00	32.07		10.35	18.92	83.84	86.68	22-Jan-17 17:00:00		**10.35**	**18.92**	**83.84**	**118.75**
22-Jan-17 18:00:00	22-Jan-17 19:00:00		0.00	0.00	0.00	4.59

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
24-Jan-17 20:00:00	24-Jan-17 21:00:00		1.60	0.00	0.00	4.79	2.1	329.7		0.53	0.00	0.00	1.58		10.35	18.92	83.84	86.68	24-Jan-17 20:00:00		10.88	18.92	83.84	88.26
24-Jan-17 21:00:00	24-Jan-17 22:00:00		0.83	0.00	0.00	79.42	2.1	329.7		0.27	0.00	0.00	26.18		10.35	18.92	83.84	86.68	24-Jan-17 21:00:00		10.62	18.92	83.84	112.86
24-Jan-17 22:00:00	24-Jan-17 23:00:00		0.86	0.00	0.00	16.01	2.1	329.7		0.28	0.00	0.00	5.28		10.35	18.92	83.84	86.68	24-Jan-17 22:00:00		10.63	18.92	83.84	91.96
24-Jan-17 23:00:00	25-Jan-17 00:00:00		0.56	0.00	0.00	19.52	2.1	329.7		0.18	0.00	0.00	6.44		10.35	18.92	83.84	86.68	24-Jan-17 23:00:00		10.53	18.92	83.84	93.12
25-Jan-17 00:00:00	25-Jan-17 01:00:00		0.25	0.00	0.00	5.22	2.1	329.7		0.08	0.00	0.00	1.72		10.35	18.92	83.84	86.68	25-Jan-17 00:00:00		10.43	18.92	83.84	88.40
25-Jan-17 01:00:00	25-Jan-17 02:00:00		0.02	0.00	0.00	5.34	2.1	329.7		0.01	0.00	0.00	1.76		10.35	18.92	83.84	86.68	25-Jan-17 01:00:00		10.36	18.92	83.84	88.44
25-Jan-17 02:00:00	25-Jan-17 03:00:00		0.00	0.00	0.00	5.46	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	25-Jan-17 02:00:00		10.35	18.92	83.84	88.48
25-Jan-17 03:00:00	25-Jan-17 04:00:00		0.00	0.00	0.00	5.59	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	25-Jan-17 03:00:00		10.35	18.92	83.84	88.52
25-Jan-17 04:00:00	25-Jan-17 05:00:00		0.00	0.00	0.00	5.75	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	25-Jan-17 04:00:00		10.35	18.92	83.84	88.58
25-Jan-17 05:00:00	25-Jan-17 06:00:00		0.00	0.00	0.00	15.49	2.1	329.7		0.00	0.00	0.00	5.11		10.35	18.92	83.84	86.68	25-Jan-17 05:00:00		10.35	18.92	83.84	91.79
25-Jan-17 06:00:00	25-Jan-17 07:00:00		0.00	0.00	0.00	52.91	2.1	329.7		0.00	0.00	0.00	17.44		10.35	18.92	83.84	86.68	25-Jan-17 06:00:00		10.35	18.92	83.84	104.12
25-Jan-17 07:00:00	25-Jan-17 08:00:00		0.00	0.00	0.00	5.56	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	25-Jan-17 07:00:00		10.35	18.92	83.84	88.51
25-Jan-17 08:00:00	25-Jan-17 09:00:00		0.00	0.00	0.00	5.42	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	25-Jan-17 08:00:00		10.35	18.92	83.84	88.47
25-Jan-17 09:00:00	25-Jan-17 10:00:00		0.00	0.00	0.00	5.29	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	25-Jan-17 09:00:00		10.35	18.92	83.84	88.42
25-Jan-17 10:00:00	25-Jan-17 11:00:00		0.00	0.00	0.00	5.14	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	25-Jan-17 10:00:00		10.35	18.92	83.84	88.37
25-Jan-17 11:00:00	25-Jan-17 12:00:00		0.57	0.00	0.00	4.83	2.1	329.7		0.19	0.00	0.00	1.59		10.35	18.92	83.84	86.68	25-Jan-17 11:00:00		10.54	18.92	83.84	88.27
25-Jan-17 12:00:00	25-Jan-17 13:00:00		2.52	0.00	0.00	4.48	2.1	329.7		0.83	0.00	0.00	1.48		10.35	18.92	83.84	86.68	25-Jan-17 12:00:00		11.18	18.92	83.84	88.16
25-Jan-17 13:00:00	25-Jan-17 14:00:00		1.22	0.00	0.00	4.13	2.1	329.7		0.40	0.00	0.00	1.36		10.35	18.92	83.84	86.68	25-Jan-17 13:00:00		10.75	18.92	83.84	88.04
25-Jan-17 14:00:00	25-Jan-17 15:00:00		0.77	0.00	0.00	3.79	2.1	329.7		0.25	0.00	0.00	1.25		10.35	18.92	83.84	86.68	25-Jan-17 14:00:00		10.60	18.92	83.84	87.93
25-Jan-17 15:00:00	25-Jan-17 16:00:00		0.32	0.00	0.00	3.77	2.1	329.7		0.11	0.00	0.00	1.24		10.35	18.92	83.84	86.68	25-Jan-17 15:00:00		10.46	18.92	83.84	87.92
25-Jan-17 16:00:00	25-Jan-17 17:00:00		0.01	0.00	0.00	3.71	2.1	329.7		0.00	0.00	0.00	1.22		10.35	18.92	83.84	86.68	25-Jan-17 16:00:00		10.35	18.92	83.84	87.90
25-Jan-17 17:00:00	25-Jan-17 18:00:00		0.00	0.00	0.00	3.66	2.1	329.7		0.00	0.00	0.00	1.21		10.35	18.92	83.84	86.68	25-Jan-17 17:00:00		10.35	18.92	83.84	87.89
25-Jan-17 18:00:00	25-Jan-17 19:00:00		0.00	0.00	0.00	3.61	2.1	329.7		0.00	0.00	0.00	1.19		10.35	18.92	83.84	86.68	25-Jan-17 18:00:00		10.35	18.92	83.84	87.87
25-Jan-17 19:00:00	25-Jan-17 20:00:00		0.00	0.00	0.00	3.84	2.1	329.7		0.00	0.00	0.00	1.27		10.35	18.92	83.84	86.68	25-Jan-17 19:00:00		10.35	18.92	83.84	87.95
25-Jan-17 20:00:00	25-Jan-17 21:00:00		0.00	0.00	0.00	4.11	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	25-Jan-17 20:00:00		10.35	18.92	83.84	88.04
25-Jan-17 21:00:00	25-Jan-17 22:00:00		0.00	0.00	0.00	4.38	2.1	329.7		0.00	0.00	0.00	1.44		10.35	18.92	83.84	86.68	25-Jan-17 21:00:00		10.35	18.92	83.84	88.12
25-Jan-17 22:00:00	25-Jan-17 23:00:00		0.00	0.00	0.00	4.65	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	25-Jan-17 22:00:00		10.35	18.92	83.84	88.21
25-Jan-17 23:00:00	26-Jan-17 00:00:00		0.00	0.00	0.00	8.28	2.1	329.7		0.00	0.00	0.00	2.73		10.35	18.92	83.84	86.68	25-Jan-17 23:00:00		10.35	18.92	83.84	89.41
26-Jan-17 00:00:00	26-Jan-17 01:00:00		0.00	0.00	0.00	4.76	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	26-Jan-17 00:00:00		10.35	18.92	83.84	88.25
26-Jan-17 01:00:00	26-Jan-17 02:00:00		0.00	0.00	0.00	4.67	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	26-Jan-17 01:00:00		10.35	18.92	83.84	88.22
26-Jan-17 02:00:00	26-Jan-17 03:00:00		0.00	0.00	0.00	4.59	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	26-Jan-17 02:00:00		10.35	18.92	83.84	88.19
26-Jan-17 03:00:00	26-Jan-17 04:00:00		0.00	0.00	0.00	4.57	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	26-Jan-17 03:00:00		10.35	18.92	83.84	88.19
26-Jan-17 04:00:00	26-Jan-17 05:00:00		0.00	0.00	0.00	4.69	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	26-Jan-17 04:00:00		10.35	18.92	83.84	88.23
26-Jan-17 05:00:00	26-Jan-17 06:00:00		0.00	0.00	0.00	4.81	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	26-Jan-17 05:00:00		10.35	18.92	83.84	88.26
26-Jan-17 06:00:00	26-Jan-17 07:00:00		0.00	0.00	0.00	37.27	2.1	329.7		0.00	0.00	0.00	12.29		10.35	18.92	83.84	86.68	26-Jan-17 06:00:00		10.35	18.92	83.84	98.97
26-Jan-17 07:00:00	26-Jan-17 08:00:00		0.00	0.00	0.00	6.52	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	26-Jan-17 07:00:00		10.35	18.92	83.84	88.83
26-Jan-17 08:00:00	26-Jan-17 09:00:00		0.00	0.00	0.00	4.99	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	26-Jan-17 08:00:00		10.35	18.92	83.84	88.33
26-Jan-17 09:00:00	26-Jan-17 10:00:00		0.00	0.00	0.00	4.99	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	26-Jan-17 09:00:00		10.35	18.92	83.84	88.33
26-Jan-17 10:00:00	26-Jan-17 11:00:00		0.00	0.00	0.00	4.99	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	26-Jan-17 10:00:00		10.35	18.92	83.84	88.32
26-Jan-17 11:00:00	26-Jan-17 12:00:00		0.00	0.00	0.00	4.92	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	26-Jan-17 11:00:00		10.35	18.92	83.84	88.30
26-Jan-17 12:00:00	26-Jan-17 13:00:00		0.00	0.00	0.00	4.77	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	26-Jan-17 12:00:00		10.35	18.92	83.84	88.25
26-Jan-17 13:00:00	26-Jan-17 14:00:00		0.00	0.00	0.00	12.63	2.1	329.7		0.00	0.00	0.00	4.17		10.35	18.92	83.84	86.68	26-Jan-17 13:00:00		10.35	18.92	83.84	90.85
26-Jan-17 14:00:00	26-Jan-17 15:00:00		0.00	0.00	0.00	12.16	2.1	329.7		0.00	0.00	0.00	4.01		10.35	18.92	83.84	86.68	26-Jan-17 14:00:00		10.35	18.92	83.84	90.69
26-Jan-17 15:00:00	26-Jan-17 16:00:00		0.00	0.00	0.00	4.67	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	26-Jan-17 15:00:00		10.35	18.92	83.84	88.22
26-Jan-17 16:00:00	26-Jan-17 17:00:00		0.00	0.00	0.00	4.62	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	26-Jan-17 16:00:00		10.35	18.92	83.84	88.20
26-Jan-17 17:00:00	26-Jan-17 18:00:00		0.00	0.00	0.00	4.57	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	26-Jan-17 17:00:00		10.35	18.92	83.84	88.19
26-Jan-17 18:00:00	26-Jan-17 19:00:00		0.00	0.00	0.00	4.55	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	26-Jan-17 18:00:00		10.35	18.92	83.84	88.18
26-Jan-17 19:00:00	26-Jan-17 20:00:00		0.00	0.00	0.00	4.74	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	26-Jan-17 19:00:00		10.35	18.92	83.84	88.24
26-Jan-17 20:00:00	26-Jan-17 21:00:00		1.58	0.00	0.00	4.97	2.1	329.7		0.52	0.00	0.00	1.64		10.35	18.92	83.84	86.68	26-Jan-17 20:00:00		10.87	18.92	83.84	88.32
26-Jan-17 21:00:00	26-Jan-17 22:00:00		1.22	0.00	0.00	13.00	2.1	329.7		0.40	0.00	0.00	4.29		10.35	18.92	83.84	86.68	26-Jan-17 21:00:00		10.75	18.92	83.84	90.97
26-Jan-17 22:00:00	26-Jan-17 23:00:00		0.78	0.00	0.00	19.45	2.1	329.7		0.26	0.00	0.00	6.41		10.35	18.92	83.84	86.68	26-Jan-17 22:00:00		10.61	18.92	83.84	93.09
26-Jan-17 23:00:00	27-Jan-17 00:00:00		0.34	0.00	0.00	5.77	2.1	329.7		0.11	0.00	0.00	1.90		10.35	18.92	83.84	86.68	26-Jan-17 23:00:00		10.46	18.92	83.84	88.58
27-Jan-17 00:00:00	27-Jan-17 01:00:00		0.24	0.00	0.00	5.89	2.1	329.7		0.08	0.00	0.00	1.94		10.35	18.92	83.84	86.68	27-Jan-17 00:00:00		10.43	18.92	83.84	88.62
27-Jan-17 01:00:00	27-Jan-17 02:00:00		1.11	0.00	0.00	6.02	2.1	329.7		0.37	0.00	0.00	1.99		10.35	18.92	83.84	86.68	27-Jan-17 01:00:00		10.72	18.92	83.84	88.67
27-Jan-17 02:00:00	27-Jan-17 03:00:00		2.04	0.00	0.00	6.70	2.1	329.7		0.67	0.00	0.00	2.21		10.35	18.92	83.84	86.68	27-Jan-17 02:00:00		11.02	18.92	83.84	88.89
27-Jan-17 03:00:00	27-Jan-17 04:00:00		4.21	0.00	0.00	79.89	2.1	329.7		1.39	0.00	0.00	26.34		10.35	18.92	83.84	86.68	27-Jan-17 03:00:00		11.74	18.92	83.84	113.02
27-Jan-17 04:00:00	27-Jan-17 05:00:00		1.48	0.00	0.00	6.52	2.1	329.7		0.49	0.00	0.00	2.15		10.35	18.92	83.84	86.68	27-Jan-17 04:00:00		10.84	18.92	83.84	88.83
27-Jan-17 05:00:00	27-Jan-17 06:00:00		0.00	0.00	0.00	6.68	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	27-Jan-17 05:00:00		10.35	18.92	83.84	88.88
27-Jan-17 06:00:00	27-Jan-17 07:00:00		0.00	0.00	0.00	12.35	2.1	329.7		0.00	0.00	0.00	4.07		10.35	18.92	83.84	86.68	27-Jan-17 06:00:00		10.35	18.92	83.84	90.75
27-Jan-17 07:00:00	27-Jan-17 08:00:00		0.00	0.00	0.00	6.78	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	27-Jan-17 07:00:00		10.35	18.92	83.84	88.91
27-Jan-17 08:00:00	27-Jan-17 09:00:00		0.00	0.00	0.00	17.98	2.1	329.7		0.00	0.00	0.00	5.93		10.35	18.92	83.84	86.68	27-Jan-17 08:00:00		10.35	18.92	83.84	92.61
27-Jan-17 09:00:00	27-Jan-17 10:00:00		0.00	0.00	0.00	61.60	2.1	329.7		0.00	0.00	0.00	20.31		10.35	18.92	83.84	86.68	27-Jan-17 09:00:00		10.35	18.92	83.84	106.99
27-Jan-17 10:00:00	27-Jan-17 11:00:00		1.81	0.00	0.00	6.39	2.1	329.7		0.60	0.00	0.00	2.11		10.35	18.92	83.84	86.68	27-Jan-17 10:00:00		10.95	18.92	83.84	88.79
27-Jan-17 11:00:00	27-Jan-17 12:00:00		0.00	0.00	0.00	6.12	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	27-Jan-17 11:00:00		10.35	18.92	83.84	88.70
27-Jan-17 12:00:00	27-Jan-17 13:00:00		0.00	0.00	0.00	5.84	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	27-Jan-17 12:00:00		10.35	18.92	83.84	88.61
27-Jan-17 13:00:00	27-Jan-17 14:00:00		0.00	0.00	0.00	5.63	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	27-Jan-17 13:00:00		10.35	18.92	83.84	88.54
27-Jan-17 14:00:00	27-Jan-17 15:00:00		0.00	0.00	0.00	5.50	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	27-Jan-17 14:00:00		10.35	18.92	83.84	88.49
27-Jan-17 15:00:00	27-Jan-17 16:00:00		0.00	0.00	0.00	5.37	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	27-Jan-17 15:00:00		10.35	18.92	83.84	88.45
27-Jan-17 16:00:00	27-Jan-17 17:00:00		0.00	0.00	0.00	18.32	2.1	329.7		0.00	0.00	0.00	6.04		10.35	18.92	83.84	86.68	27-Jan-17 16:00:00		10.35	18.92	83.84	92.72
27-Jan-17 17:00:00	27-Jan-17 18:00:00		0.00	0.00	0.00	5.72	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	27-Jan-17 17:00:00		10.35	18.92	83.84	88.57
27-Jan-17 18:00:00	27-Jan-17 19:00:00		0.00	0.00	0.00	37.16	2.1	329.7		0.00	0.00	0.00	12.25		10.35	18.92	83.84	86.68	27-Jan-17 18:00:00		10.35	18.92	83.84	98.93
27-Jan-17 19:00:00	27-Jan-17 20:00:00		0.00	0.00	0.00	5.85	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	27-Jan-17 19:00:00		10.35	18.92	83.84	88.61
27-Jan-17 20:00:00	27-Jan-17 21:00:00		0.00	0.00	0.00	5.84	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	27-Jan-17 20:00:00		10.35	18.92	83.84	88.61
27-Jan-17 21:00:00	27-Jan-17 22:00:00		0.00	0.00	0.00	5.83	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	27-Jan-17 21:00:00		10.35	18.92	83.84	88.60
27-Jan-17 22:00:00	27-Jan-17 23:00:00		0.03	0.00	0.00	79.97	2.1	329.7		0.01	0.00	0.00	26.37		10.35	18.92	83.84	86.68	27-Jan-17 22:00:00		10.36	18.92	83.84	113.05
27-Jan-17 23:00:00	28-Jan-17 00:00:00		0.55	0.00	0.00	6.03	2.1	329.7		0.18	0.00	0.00	1.99		10.35	18.92	83.84	86.68	27-Jan-17 23:00:00		10.53	18.92	83.84	88.67
28-Jan-17 00:00:00	28-Jan-17 01:00:00		1.28	0.00	0.00	16.95	2.1	329.7		0.42	0.00	0.00	5.59		10.35	18.92	83.84	86.68	28-Jan-17 00:00:00		10.77	18.92	83.84	92.27
28-Jan-17 01:00:00	28-Jan-17 02:00:00		2.38	0.00	0.00	6.21	2.1	329.7		0.78	0.00	0.00	2.05		10.35	18.92	83.84	86.68	28-Jan-17 01:00:00		11.13	18.92	83.84	88.73
28-Jan-17 02:00:00	28-Jan-17 03:00:00		9.55	0.00	0.00	28.34	2.1	329.7		3.15	0.00	0.00	9.35		10.35	18.92	83.84	86.68	28-Jan-17 02:00:00		13.50	18.92	83.84	96.03
28-Jan-17 03:00:00	28-Jan-17 04:00:00		18.50	0.00	0.00	6.36	2.1	329.7		6.10	0.00	0.00	2.10		10.35	18.92	83.84	86.68	28-Jan-17 03:00:00		16.45	18.92	83.84	88.78
28-Jan-17 04:00:00	28-Jan-17 05:00:00		2.81	0.00	0.00	9.57	2.1	329.7		0.93	0.00	0.00	3.16		10.35	18.92	83.84	86.68	28-Jan-17 04:00:00		11.28	18.92	83.84	89.84
28-Jan-17 05:00:00	28-Jan-17 06:00:00		0.00	0.00	0.00	6.73	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	28-Jan-17 05:00:00		10.35	18.92	83.84	88.90
28-Jan-17 06:00:00	28-Jan-17 07:00:00		0.00	0.00	0.00	6.75	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	28-Jan-17 06:00:00		10.35	18.92	83.84	88.90
28-Jan-17 07:00:00	28-Jan-17 08:00:00		0.00	0.00	0.00	6.77	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	28-Jan-17 07:00:00		10.35	18.92	83.84	88.91
28-Jan-17 08:00:00	28-Jan-17 09:00:00		0.00	0.00	0.00	7.24	2.1	329.7		0.00	0.00	0.00	2.39		10.35	18.92	83.84	86.68	28-Jan-17 08:00:00		10.35	18.92	83.84	89.07
28-Jan-17 09:00:00	28-Jan-17 10:00:00		0.00	0.00	0.00	10.90	2.1	329.7		0.00	0.00	0.00	3.59		10.35	18.92	83.84	86.68	28-Jan-17 09:00:00		10.35	18.92	83.84	90.27
28-Jan-17 10:00:00	28-Jan-17 11:00:00		4.24	0.00	0.00	6.60	2.1	329.7		1.40	0.00	0.00	2.17		10.35	18.92	83.84	86.68	28-Jan-17 10:00:00		11.75	18.92	83.84	88.85
28-Jan-17 11:00:00	28-Jan-17 12:00:00		0.82	0.00	0.00	6.31	2.1	329.7		0.27	0.00	0.00	2.08		10.35	18.92	83.84	86.68	28-Jan-17 11:00:00		10.62	18.92	83.84	88.76
28-Jan-17 12:00:00	28-Jan-17 13:00:00		0.08	0.00	0.00	6.03	2.1	329.7		0.03	0.00	0.00	1.99		10.35	18.92	83.84	86.68	28-Jan-17 12:00:00		10.38	18.92	83.84	88.67
28-Jan-17 13:00:00	28-Jan-17 14:00:00		0.00	0.00	0.00	5.74	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	28-Jan-17 13:00:00		10.35	18.92	83.84	88.57
28-Jan-17 14:00:00	28-Jan-17 15:00:00		359.16	98.88	0.00	11.78	2.1	329.7		118.42	32.60	0.00	3.89		10.35	18.92	83.84	86.68	28-Jan-17 14:00:00		128.77	51.52	83.84	90.57
28-Jan-17 15:00:00	28-Jan-17 16:00:00		719.95	712.19	0.00	5.33	2.1	329.7		237.37	234.81	0.00	1.76		10.35	18.92	83.84	86.68	28-Jan-17 15:00:00		247.72	253.73	83.84	88.44
28-Jan-17 16:00:00	28-Jan-17 17:00:00		811.38	765.04	0.00	5.79	2.1	329.7		267.51	252.23	0.00	1.91		10.35	18.92	83.84	86.68	28-Jan-17 16:00:00		277.86	271.15	83.84	88.59
28-Jan-17 17:00:00	28-Jan-17 18:00:00		1,085.40	774.55	0.00	5.11

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
30-Jan-17 19:00:00	30-Jan-17 20:00:00		0.00	92.71	0.00	25.81	2.1	329.7		0.00	30.57	0.00	8.51		10.35	18.92	83.84	86.68	30-Jan-17 19:00:00		**10.35**	**49.49**	**83.84**	**95.19**
30-Jan-17 20:00:00	30-Jan-17 21:00:00		0.00	0.00	0.00	4.92	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	30-Jan-17 20:00:00		**10.35**	**18.92**	**83.84**	**88.30**
30-Jan-17 21:00:00	30-Jan-17 22:00:00		0.00	0.00	0.00	5.04	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	30-Jan-17 21:00:00		**10.35**	**18.92**	**83.84**	**88.34**
30-Jan-17 22:00:00	30-Jan-17 23:00:00		0.00	0.00	0.00	5.16	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	30-Jan-17 22:00:00		**10.35**	**18.92**	**83.84**	**88.38**
30-Jan-17 23:00:00	31-Jan-17 00:00:00		0.00	0.00	0.00	5.45	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	30-Jan-17 23:00:00		**10.35**	**18.92**	**83.84**	**88.48**
31-Jan-17 00:00:00	31-Jan-17 01:00:00		0.00	0.00	0.00	5.59	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	31-Jan-17 00:00:00		**10.35**	**18.92**	**83.84**	**88.52**
31-Jan-17 01:00:00	31-Jan-17 02:00:00		0.00	0.00	0.00	5.67	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	31-Jan-17 01:00:00		**10.35**	**18.92**	**83.84**	**88.55**
31-Jan-17 02:00:00	31-Jan-17 03:00:00		0.00	0.00	0.00	5.75	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	31-Jan-17 02:00:00		**10.35**	**18.92**	**83.84**	**88.58**
31-Jan-17 03:00:00	31-Jan-17 04:00:00		0.00	0.00	0.00	13.56	2.1	329.7		0.00	0.00	0.00	4.47		10.35	18.92	83.84	86.68	31-Jan-17 03:00:00		**10.35**	**18.92**	**83.84**	**91.15**
31-Jan-17 04:00:00	31-Jan-17 05:00:00		0.00	0.00	0.00	5.69	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	31-Jan-17 04:00:00		**10.35**	**18.92**	**83.84**	**88.56**
31-Jan-17 05:00:00	31-Jan-17 06:00:00		0.00	0.00	0.00	34.43	2.1	329.7		0.00	0.00	0.00	11.35		10.35	18.92	83.84	86.68	31-Jan-17 05:00:00		**10.35**	**18.92**	**83.84**	**98.03**
31-Jan-17 06:00:00	31-Jan-17 07:00:00		0.00	0.00	0.00	5.81	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	31-Jan-17 06:00:00		**10.35**	**18.92**	**83.84**	**88.60**
31-Jan-17 07:00:00	31-Jan-17 08:00:00		0.00	0.00	0.00	5.85	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	31-Jan-17 07:00:00		**10.35**	**18.92**	**83.84**	**88.61**
31-Jan-17 08:00:00	31-Jan-17 09:00:00		0.00	0.00	0.00	5.69	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	31-Jan-17 08:00:00		**10.35**	**18.92**	**83.84**	**88.56**
31-Jan-17 09:00:00	31-Jan-17 10:00:00		0.00	0.00	0.00	14.91	2.1	329.7		0.00	0.00	0.00	4.92		10.35	18.92	83.84	86.68	31-Jan-17 09:00:00		**10.35**	**18.92**	**83.84**	**91.60**
31-Jan-17 10:00:00	31-Jan-17 11:00:00		0.00	0.00	0.00	5.10	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	31-Jan-17 10:00:00		**10.35**	**18.92**	**83.84**	**88.36**
31-Jan-17 11:00:00	31-Jan-17 12:00:00		0.00	0.00	0.00	12.41	2.1	329.7		0.00	0.00	0.00	4.09		10.35	18.92	83.84	86.68	31-Jan-17 11:00:00		**10.35**	**18.92**	**83.84**	**90.77**
31-Jan-17 12:00:00	31-Jan-17 13:00:00		0.00	0.00	0.00	9.28	2.1	329.7		0.00	0.00	0.00	3.06		10.35	18.92	83.84	86.68	31-Jan-17 12:00:00		**10.35**	**18.92**	**83.84**	**89.74**
31-Jan-17 13:00:00	31-Jan-17 14:00:00		0.00	0.00	0.00	11.57	2.1	329.7		0.00	0.00	0.00	3.82		10.35	18.92	83.84	86.68	31-Jan-17 13:00:00		**10.35**	**18.92**	**83.84**	**90.50**
31-Jan-17 14:00:00	31-Jan-17 15:00:00		0.00	0.00	0.00	8.62	2.1	329.7		0.00	0.00	0.00	2.84		10.35	18.92	83.84	86.68	31-Jan-17 14:00:00		**10.35**	**18.92**	**83.84**	**89.52**
31-Jan-17 15:00:00	31-Jan-17 16:00:00		0.00	0.00	0.00	3.95	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	31-Jan-17 15:00:00		**10.35**	**18.92**	**83.84**	**87.98**
31-Jan-17 16:00:00	31-Jan-17 17:00:00		0.00	0.00	0.00	3.95	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	31-Jan-17 16:00:00		**10.35**	**18.92**	**83.84**	**87.98**
31-Jan-17 17:00:00	31-Jan-17 18:00:00		0.00	0.00	0.00	3.95	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	31-Jan-17 17:00:00		**10.35**	**18.92**	**83.84**	**87.98**
31-Jan-17 18:00:00	31-Jan-17 19:00:00		0.00	0.00	0.00	3.95	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	31-Jan-17 18:00:00		**10.35**	**18.92**	**83.84**	**87.98**
31-Jan-17 19:00:00	31-Jan-17 20:00:00		0.00	0.00	0.00	4.38	2.1	329.7		0.00	0.00	0.00	1.44		10.35	18.92	83.84	86.68	31-Jan-17 19:00:00		**10.35**	**18.92**	**83.84**	**88.12**
31-Jan-17 20:00:00	31-Jan-17 21:00:00		0.00	0.00	0.00	4.06	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	31-Jan-17 20:00:00		**10.35**	**18.92**	**83.84**	**88.02**
31-Jan-17 21:00:00	31-Jan-17 22:00:00		0.00	0.00	0.00	4.29	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	31-Jan-17 21:00:00		**10.35**	**18.92**	**83.84**	**88.09**
31-Jan-17 22:00:00	31-Jan-17 23:00:00		0.00	0.00	0.00	18.46	2.1	329.7		0.00	0.00	0.00	6.09		10.35	18.92	83.84	86.68	31-Jan-17 22:00:00		**10.35**	**18.92**	**83.84**	**92.77**
31-Jan-17 23:00:00	01-Feb-17 00:00:00		0.00	0.00	0.00	4.51	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	31-Jan-17 23:00:00		**10.35**	**18.92**	**83.84**	**88.17**
01-Feb-17 00:00:00	01-Feb-17 01:00:00		0.00	0.00	0.00	4.53	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	01-Feb-17 00:00:00		**10.35**	**18.92**	**83.84**	**88.17**
01-Feb-17 01:00:00	01-Feb-17 02:00:00		0.00	0.00	0.00	4.55	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	01-Feb-17 01:00:00		**10.35**	**18.92**	**83.84**	**88.18**
01-Feb-17 02:00:00	01-Feb-17 03:00:00		0.00	0.00	0.00	4.58	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	01-Feb-17 02:00:00		**10.35**	**18.92**	**83.84**	**88.19**
01-Feb-17 03:00:00	01-Feb-17 04:00:00		0.00	0.00	0.00	4.70	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	01-Feb-17 03:00:00		**10.35**	**18.92**	**83.84**	**88.23**
01-Feb-17 04:00:00	01-Feb-17 05:00:00		0.00	0.00	0.00	4.83	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	01-Feb-17 04:00:00		**10.35**	**18.92**	**83.84**	**88.27**
01-Feb-17 05:00:00	01-Feb-17 06:00:00		0.00	0.00	0.00	4.97	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	01-Feb-17 05:00:00		**10.35**	**18.92**	**83.84**	**88.32**
01-Feb-17 06:00:00	01-Feb-17 07:00:00		0.00	0.00	0.00	5.07	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	01-Feb-17 06:00:00		**10.35**	**18.92**	**83.84**	**88.35**
01-Feb-17 07:00:00	01-Feb-17 08:00:00		0.00	0.00	0.00	115.16	2.1	329.7		0.00	0.00	0.00	37.97		10.35	18.92	83.84	86.68	01-Feb-17 07:00:00		**10.35**	**18.92**	**83.84**	**124.65**
01-Feb-17 08:00:00	01-Feb-17 09:00:00		0.00	0.00	0.00	32.06	2.1	329.7		0.00	0.00	0.00	10.57		10.35	18.92	83.84	86.68	01-Feb-17 08:00:00		**10.35**	**18.92**	**83.84**	**97.25**
01-Feb-17 09:00:00	01-Feb-17 10:00:00		0.00	0.00	0.00	5.20	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	01-Feb-17 09:00:00		**10.35**	**18.92**	**83.84**	**88.39**
01-Feb-17 10:00:00	01-Feb-17 11:00:00		0.00	0.00	0.00	16.79	2.1	329.7		0.00	0.00	0.00	5.53		10.35	18.92	83.84	86.68	01-Feb-17 10:00:00		**10.35**	**18.92**	**83.84**	**92.21**
01-Feb-17 11:00:00	01-Feb-17 12:00:00		0.00	0.00	0.00	5.35	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	01-Feb-17 11:00:00		**10.35**	**18.92**	**83.84**	**88.45**
01-Feb-17 12:00:00	01-Feb-17 13:00:00		0.00	0.00	0.00	5.19	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	01-Feb-17 12:00:00		**10.35**	**18.92**	**83.84**	**88.39**
01-Feb-17 13:00:00	01-Feb-17 14:00:00		0.00	0.00	0.00	5.03	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	01-Feb-17 13:00:00		**10.35**	**18.92**	**83.84**	**88.34**
01-Feb-17 14:00:00	01-Feb-17 15:00:00		0.00	0.00	0.00	4.82	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	01-Feb-17 14:00:00		**10.35**	**18.92**	**83.84**	**88.27**
01-Feb-17 15:00:00	01-Feb-17 16:00:00		0.00	0.00	0.00	4.68	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	01-Feb-17 15:00:00		**10.35**	**18.92**	**83.84**	**88.22**
01-Feb-17 16:00:00	01-Feb-17 17:00:00		0.00	0.00	0.00	4.68	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	01-Feb-17 16:00:00		**10.35**	**18.92**	**83.84**	**88.22**
01-Feb-17 17:00:00	01-Feb-17 18:00:00		0.00	0.00	0.00	4.68	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	01-Feb-17 17:00:00		**10.35**	**18.92**	**83.84**	**88.22**
01-Feb-17 18:00:00	01-Feb-17 19:00:00		0.00	0.00	0.00	4.72	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	01-Feb-17 18:00:00		**10.35**	**18.92**	**83.84**	**88.24**
01-Feb-17 19:00:00	01-Feb-17 20:00:00		0.00	0.00	0.00	4.94	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	01-Feb-17 19:00:00		**10.35**	**18.92**	**83.84**	**88.31**
01-Feb-17 20:00:00	01-Feb-17 21:00:00		0.00	0.00	0.00	5.13	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	01-Feb-17 20:00:00		**10.35**	**18.92**	**83.84**	**88.37**
01-Feb-17 21:00:00	01-Feb-17 22:00:00		0.00	0.00	0.00	5.31	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	01-Feb-17 21:00:00		**10.35**	**18.92**	**83.84**	**88.43**
01-Feb-17 22:00:00	01-Feb-17 23:00:00		0.00	0.00	0.00	5.49	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	01-Feb-17 22:00:00		**10.35**	**18.92**	**83.84**	**88.49**
01-Feb-17 23:00:00	02-Feb-17 00:00:00		0.00	0.00	0.00	5.59	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	01-Feb-17 23:00:00		**10.35**	**18.92**	**83.84**	**88.52**
02-Feb-17 00:00:00	02-Feb-17 01:00:00		0.00	0.00	0.00	5.66	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	02-Feb-17 00:00:00		**10.35**	**18.92**	**83.84**	**88.55**
02-Feb-17 01:00:00	02-Feb-17 02:00:00		0.00	0.00	0.00	5.72	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	02-Feb-17 01:00:00		**10.35**	**18.92**	**83.84**	**88.57**
02-Feb-17 02:00:00	02-Feb-17 03:00:00		0.00	0.00	0.00	18.94	2.1	329.7		0.00	0.00	0.00	6.25		10.35	18.92	83.84	86.68	02-Feb-17 02:00:00		**10.35**	**18.92**	**83.84**	**92.93**
02-Feb-17 03:00:00	02-Feb-17 04:00:00		0.00	0.00	0.00	5.80	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	02-Feb-17 03:00:00		**10.35**	**18.92**	**83.84**	**88.59**
02-Feb-17 04:00:00	02-Feb-17 05:00:00		0.00	0.00	0.00	5.78	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	02-Feb-17 04:00:00		**10.35**	**18.92**	**83.84**	**88.58**
02-Feb-17 05:00:00	02-Feb-17 06:00:00		0.00	0.00	0.00	5.75	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	02-Feb-17 05:00:00		**10.35**	**18.92**	**83.84**	**88.58**
02-Feb-17 06:00:00	02-Feb-17 07:00:00		0.00	0.00	0.00	5.66	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	02-Feb-17 06:00:00		**10.35**	**18.92**	**83.84**	**88.55**
02-Feb-17 07:00:00	02-Feb-17 08:00:00		0.30	0.00	0.00	5.60	2.1	329.7		0.10	0.00	0.00	1.85		10.35	18.92	83.84	86.68	02-Feb-17 07:00:00		**10.45**	**18.92**	**83.84**	**88.53**
02-Feb-17 08:00:00	02-Feb-17 09:00:00		0.00	0.00	0.00	5.59	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	02-Feb-17 08:00:00		**10.35**	**18.92**	**83.84**	**88.52**
02-Feb-17 09:00:00	02-Feb-17 10:00:00		0.00	0.00	0.00	5.58	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	02-Feb-17 09:00:00		**10.35**	**18.92**	**83.84**	**88.52**
02-Feb-17 10:00:00	02-Feb-17 11:00:00		0.00	0.00	0.00	5.60	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	02-Feb-17 10:00:00		**10.35**	**18.92**	**83.84**	**88.53**
02-Feb-17 11:00:00	02-Feb-17 12:00:00		0.00	0.00	0.00	5.53	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	02-Feb-17 11:00:00		**10.35**	**18.92**	**83.84**	**88.50**
02-Feb-17 12:00:00	02-Feb-17 13:00:00		0.00	0.00	0.00	5.40	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	02-Feb-17 12:00:00		**10.35**	**18.92**	**83.84**	**88.46**
02-Feb-17 13:00:00	02-Feb-17 14:00:00		0.00	0.00	0.00	5.28	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	02-Feb-17 13:00:00		**10.35**	**18.92**	**83.84**	**88.42**
02-Feb-17 14:00:00	02-Feb-17 15:00:00		0.00	0.00	0.00	5.04	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	02-Feb-17 14:00:00		**10.35**	**18.92**	**83.84**	**88.34**
02-Feb-17 15:00:00	02-Feb-17 16:00:00		0.00	0.00	0.00	4.91	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	02-Feb-17 15:00:00		**10.35**	**18.92**	**83.84**	**88.30**
02-Feb-17 16:00:00	02-Feb-17 17:00:00		0.00	0.00	0.00	4.95	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	02-Feb-17 16:00:00		**10.35**	**18.92**	**83.84**	**88.31**
02-Feb-17 17:00:00	02-Feb-17 18:00:00		0.00	0.00	0.00	4.98	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	02-Feb-17 17:00:00		**10.35**	**18.92**	**83.84**	**88.32**
02-Feb-17 18:00:00	02-Feb-17 19:00:00		0.00	0.00	0.00	5.02	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	02-Feb-17 18:00:00		**10.35**	**18.92**	**83.84**	**88.34**
02-Feb-17 19:00:00	02-Feb-17 20:00:00		0.00	0.00	0.00	5.10	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	02-Feb-17 19:00:00		**10.35**	**18.92**	**83.84**	**88.36**
02-Feb-17 20:00:00	02-Feb-17 21:00:00		0.00	0.00	0.00	5.17	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	02-Feb-17 20:00:00		**10.35**	**18.92**	**83.84**	**88.39**
02-Feb-17 21:00:00	02-Feb-17 22:00:00		0.00	0.00	0.00	5.63	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	02-Feb-17 21:00:00		**10.35**	**18.92**	**83.84**	**88.54**
02-Feb-17 22:00:00	02-Feb-17 23:00:00		0.00	0.00	0.00	5.46	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	02-Feb-17 22:00:00		**10.35**	**18.92**	**83.84**	**88.48**
02-Feb-17 23:00:00	03-Feb-17 00:00:00		0.00	0.00	0.00	5.58	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	02-Feb-17 23:00:00		**10.35**	**18.92**	**83.84**	**88.52**
03-Feb-17 00:00:00	03-Feb-17 01:00:00		0.00	0.00	0.00	5.70	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	03-Feb-17 00:00:00		**10.35**	**18.92**	**83.84**	**88.56**
03-Feb-17 01:00:00	03-Feb-17 02:00:00		0.00	0.00	0.00	10.39	2.1	329.7		0.00	0.00	0.00	3.43		10.35	18.92	83.84	86.68	03-Feb-17 01:00:00		**10.35**	**18.92**	**83.84**	**90.11**
03-Feb-17 02:00:00	03-Feb-17 03:00:00		0.00	0.00	0.00	5.96	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	03-Feb-17 02:00:00		**10.35**	**18.92**	**83.84**	**88.64**
03-Feb-17 03:00:00	03-Feb-17 04:00:00		0.00	0.00	0.00	6.10	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	03-Feb-17 03:00:00		**10.35**	**18.92**	**83.84**	**88.69**
03-Feb-17 04:00:00	03-Feb-17 05:00:00		0.00	0.00	0.00	6.25	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	03-Feb-17 04:00:00		**10.35**	**18.92**	**83.84**	**88.74**
03-Feb-17 05:00:00	03-Feb-17 06:00:00		0.00	0.00	0.00	33.55	2.1	329.7		0.00	0.00	0.00	11.06		10.35	18.92	83.84	86.68	03-Feb-17 05:00:00		**10.35**	**18.92**	**83.84**	**97.74**
03-Feb-17 06:00:00	03-Feb-17 07:00:00		0.00	0.00	0.00	6.52	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	03-Feb-17 06:00:00		**10.35**	**18.92**	**83.84**	**88.83**
03-Feb-17 07:00:00	03-Feb-17 08:00:00		0.00	0.00	0.00	13.57	2.1	329.7		0.00	0.00	0.00	4.47		10.35	18.92	83.84	86.68	03-Feb-17 07:00:00		**10.35**	**18.92**	**83.84**	**91.15**
03-Feb-17 08:00:00	03-Feb-17 09:00:00		0.00	0.00	0.00	6.37	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	03-Feb-17 08:00:00		**10.35**	**18.92**	**83.84**	**88.78**
03-Feb-17 09:00:00	03-Feb-17 10:00:00		0.00	0.00	0.00	6.40	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	03-Feb-17 09:00:00		**10.35**	**18.92**	**83.84**	**88.79**
03-Feb-17 10:00:00	03-Feb-17 11:00:00		0.00	0.00	0.00	26.95	2.1	329.7		0.00	0.00	0.00	8.88		10.35	18.92	83.84	86.68	03-Feb-17 10:00:00		**10.35**	**18.92**	**83.84**	**95.56**
03-Feb-17 11:00:00	03-Feb-17 12:00:00		0.00	0.00	0.00	6.60	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	03-Feb-17 11:00:00		**10.35**	**18.92**	**83.84**	**88.85**
03-Feb-17 12:00:00	03-Feb-17 13:00:00		0.00	0.00	0.00	6.56	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	03-Feb-17 12:00:00		**10.35**	**18.92**	**83.84**	**88.84**
03-Feb-17 13:00:00	03-Feb-17 14:00:00		0.00	0.00	0.00	6.53	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	03-Feb-17 13:00:00		**10.35**	**18.92**	**83.84**	**88.83**
03-Feb-17 14:00:00	03-Feb-17 15:00:00		0.00	0.00	0.00	6.47	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	03-Feb-17 14:00:00		**10.35**	**18.92**	**83.84**	**88.81**
03-Feb-17 15:00:00	03-Feb-17 16:00:00		0.00	0.00	0.00	6.41	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	03-Feb-17 15:00:00		**10.35**	**18.92**	**83.84**	**88.79**
03-Feb-17 16:00:00	03-Feb-17 17:00:00		0.00	0.00	0.00	6.47

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
05-Feb-17 18:00:00	05-Feb-17 19:00:00		0.00	0.00	0.00	5.19	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	05-Feb-17 18:00:00		10.35	18.92	83.84	88.39
05-Feb-17 19:00:00	05-Feb-17 20:00:00		0.00	0.00	0.00	5.98	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	05-Feb-17 19:00:00		10.35	18.92	83.84	88.65
05-Feb-17 20:00:00	05-Feb-17 21:00:00		0.00	0.00	0.00	5.39	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	05-Feb-17 20:00:00		10.35	18.92	83.84	88.46
05-Feb-17 21:00:00	05-Feb-17 22:00:00		0.00	0.00	0.00	5.64	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	05-Feb-17 21:00:00		10.35	18.92	83.84	88.54
05-Feb-17 22:00:00	05-Feb-17 23:00:00		0.00	0.00	0.00	18.93	2.1	329.7		0.00	0.00	0.00	6.24		10.35	18.92	83.84	86.68	05-Feb-17 22:00:00		10.35	18.92	83.84	92.92
05-Feb-17 23:00:00	06-Feb-17 00:00:00		0.00	0.00	0.00	6.12	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	05-Feb-17 23:00:00		10.35	18.92	83.84	88.70
06-Feb-17 00:00:00	06-Feb-17 01:00:00		0.00	0.00	0.00	6.12	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	06-Feb-17 00:00:00		10.35	18.92	83.84	88.70
06-Feb-17 01:00:00	06-Feb-17 02:00:00		0.00	0.00	0.00	6.13	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	06-Feb-17 01:00:00		10.35	18.92	83.84	88.70
06-Feb-17 02:00:00	06-Feb-17 03:00:00		0.00	0.00	0.00	6.13	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	06-Feb-17 02:00:00		10.35	18.92	83.84	88.70
06-Feb-17 03:00:00	06-Feb-17 04:00:00		0.00	9.66	0.00	6.20	2.1	329.7		0.00	3.18	0.00	2.05		10.35	18.92	83.84	86.68	06-Feb-17 03:00:00		10.35	22.10	83.84	88.73
06-Feb-17 04:00:00	06-Feb-17 05:00:00		0.00	0.00	0.00	6.33	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	06-Feb-17 04:00:00		10.35	18.92	83.84	88.77
06-Feb-17 05:00:00	06-Feb-17 06:00:00		0.00	0.00	0.00	116.51	2.1	329.7		0.00	0.00	0.00	38.41		10.35	18.92	83.84	86.68	06-Feb-17 05:00:00		10.35	18.92	83.84	125.09
06-Feb-17 06:00:00	06-Feb-17 07:00:00		0.00	0.00	0.00	6.68	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	06-Feb-17 06:00:00		10.35	18.92	83.84	88.88
06-Feb-17 07:00:00	06-Feb-17 08:00:00		0.00	0.00	0.00	12.32	2.1	329.7		0.00	0.00	0.00	4.06		10.35	18.92	83.84	86.68	06-Feb-17 07:00:00		10.35	18.92	83.84	90.74
06-Feb-17 08:00:00	06-Feb-17 09:00:00		2.68	0.00	0.00	6.19	2.1	329.7		0.88	0.00	0.00	2.04		10.35	18.92	83.84	86.68	06-Feb-17 08:00:00		11.23	18.92	83.84	88.72
06-Feb-17 09:00:00	06-Feb-17 10:00:00		0.99	0.00	0.00	5.89	2.1	329.7		0.33	0.00	0.00	1.94		10.35	18.92	83.84	86.68	06-Feb-17 09:00:00		10.68	18.92	83.84	88.62
06-Feb-17 10:00:00	06-Feb-17 11:00:00		0.68	0.00	0.00	5.59	2.1	329.7		0.22	0.00	0.00	1.84		10.35	18.92	83.84	86.68	06-Feb-17 10:00:00		10.57	18.92	83.84	88.52
06-Feb-17 11:00:00	06-Feb-17 12:00:00		0.37	0.00	0.00	115.23	2.1	329.7		0.12	0.00	0.00	37.99		10.35	18.92	83.84	86.68	06-Feb-17 11:00:00		10.47	18.92	83.84	124.67
06-Feb-17 12:00:00	06-Feb-17 13:00:00		0.08	0.00	0.00	5.18	2.1	329.7		0.03	0.00	0.00	1.71		10.35	18.92	83.84	86.68	06-Feb-17 12:00:00		10.38	18.92	83.84	88.39
06-Feb-17 13:00:00	06-Feb-17 14:00:00		0.00	0.00	0.00	4.98	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	06-Feb-17 13:00:00		10.35	18.92	83.84	88.32
06-Feb-17 14:00:00	06-Feb-17 15:00:00		0.12	0.00	0.00	4.78	2.1	329.7		0.04	0.00	0.00	1.58		10.35	18.92	83.84	86.68	06-Feb-17 14:00:00		10.39	18.92	83.84	88.26
06-Feb-17 15:00:00	06-Feb-17 16:00:00		0.00	0.00	0.00	6.87	2.1	329.7		0.00	0.00	0.00	2.26		10.35	18.92	83.84	86.68	06-Feb-17 15:00:00		10.35	18.92	83.84	88.94
06-Feb-17 16:00:00	06-Feb-17 17:00:00		0.00	0.00	0.00	4.53	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	06-Feb-17 16:00:00		10.35	18.92	83.84	88.18
06-Feb-17 17:00:00	06-Feb-17 18:00:00		0.00	0.00	0.00	17.08	2.1	329.7		0.00	0.00	0.00	5.63		10.35	18.92	83.84	86.68	06-Feb-17 17:00:00		10.35	18.92	83.84	92.31
06-Feb-17 18:00:00	06-Feb-17 19:00:00		0.00	0.00	0.00	4.57	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	06-Feb-17 18:00:00		10.35	18.92	83.84	88.19
06-Feb-17 19:00:00	06-Feb-17 20:00:00		0.00	0.00	0.00	4.57	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	06-Feb-17 19:00:00		10.35	18.92	83.84	88.19
06-Feb-17 20:00:00	06-Feb-17 21:00:00		0.00	0.00	0.00	50.97	2.1	329.7		0.00	0.00	0.00	16.81		10.35	18.92	83.84	86.68	06-Feb-17 20:00:00		10.35	18.92	83.84	103.49
06-Feb-17 21:00:00	06-Feb-17 22:00:00		0.00	0.00	0.00	4.95	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	06-Feb-17 21:00:00		10.35	18.92	83.84	88.31
06-Feb-17 22:00:00	06-Feb-17 23:00:00		0.00	0.00	0.00	4.92	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	06-Feb-17 22:00:00		10.35	18.92	83.84	88.30
06-Feb-17 23:00:00	07-Feb-17 00:00:00		0.00	0.00	0.00	22.71	2.1	329.7		0.00	0.00	0.00	7.49		10.35	18.92	83.84	86.68	06-Feb-17 23:00:00		10.35	18.92	83.84	94.17
07-Feb-17 00:00:00	07-Feb-17 01:00:00		0.00	0.00	0.00	4.93	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	07-Feb-17 00:00:00		10.35	18.92	83.84	88.30
07-Feb-17 01:00:00	07-Feb-17 02:00:00		0.00	0.00	0.00	5.04	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	07-Feb-17 01:00:00		10.35	18.92	83.84	88.34
07-Feb-17 02:00:00	07-Feb-17 03:00:00		0.07	0.00	0.00	5.15	2.1	329.7		0.02	0.00	0.00	1.70		10.35	18.92	83.84	86.68	07-Feb-17 02:00:00		10.37	18.92	83.84	88.38
07-Feb-17 03:00:00	07-Feb-17 04:00:00		0.48	0.00	0.00	5.26	2.1	329.7		0.16	0.00	0.00	1.73		10.35	18.92	83.84	86.68	07-Feb-17 03:00:00		10.51	18.92	83.84	88.41
07-Feb-17 04:00:00	07-Feb-17 05:00:00		1.07	0.00	0.00	5.42	2.1	329.7		0.35	0.00	0.00	1.79		10.35	18.92	83.84	86.68	07-Feb-17 04:00:00		10.70	18.92	83.84	88.47
07-Feb-17 05:00:00	07-Feb-17 06:00:00		0.00	0.00	0.00	5.58	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	07-Feb-17 05:00:00		10.35	18.92	83.84	88.52
07-Feb-17 06:00:00	07-Feb-17 07:00:00		0.00	0.00	0.00	53.02	2.1	329.7		0.00	0.00	0.00	17.48		10.35	18.92	83.84	86.68	07-Feb-17 06:00:00		10.35	18.92	83.84	104.16
07-Feb-17 07:00:00	07-Feb-17 08:00:00		0.00	0.00	0.00	5.56	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	07-Feb-17 07:00:00		10.35	18.92	83.84	88.51
07-Feb-17 08:00:00	07-Feb-17 09:00:00		0.00	0.00	0.00	5.45	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	07-Feb-17 08:00:00		10.35	18.92	83.84	88.48
07-Feb-17 09:00:00	07-Feb-17 10:00:00		0.00	0.00	0.00	10.66	2.1	329.7		0.00	0.00	0.00	3.51		10.35	18.92	83.84	86.68	07-Feb-17 09:00:00		10.35	18.92	83.84	90.19
07-Feb-17 10:00:00	07-Feb-17 11:00:00		0.00	0.00	0.00	5.16	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	07-Feb-17 10:00:00		10.35	18.92	83.84	88.38
07-Feb-17 11:00:00	07-Feb-17 12:00:00		0.12	0.00	0.00	4.99	2.1	329.7		0.04	0.00	0.00	1.65		10.35	18.92	83.84	86.68	07-Feb-17 11:00:00		10.39	18.92	83.84	88.33
07-Feb-17 12:00:00	07-Feb-17 13:00:00		0.00	0.00	0.00	5.20	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	07-Feb-17 12:00:00		10.35	18.92	83.84	88.39
07-Feb-17 13:00:00	07-Feb-17 14:00:00		0.00	0.00	0.00	12.67	2.1	329.7		0.00	0.00	0.00	4.18		10.35	18.92	83.84	86.68	07-Feb-17 13:00:00		10.35	18.92	83.84	90.86
07-Feb-17 14:00:00	07-Feb-17 15:00:00		0.00	0.00	0.00	4.66	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	07-Feb-17 14:00:00		10.35	18.92	83.84	88.22
07-Feb-17 15:00:00	07-Feb-17 16:00:00		0.00	0.00	0.00	16.81	2.1	329.7		0.00	0.00	0.00	5.54		10.35	18.92	83.84	86.68	07-Feb-17 15:00:00		10.35	18.92	83.84	92.22
07-Feb-17 16:00:00	07-Feb-17 17:00:00		0.00	0.00	0.00	14.50	2.1	329.7		0.00	0.00	0.00	4.78		10.35	18.92	83.84	86.68	07-Feb-17 16:00:00		10.35	18.92	83.84	91.46
07-Feb-17 17:00:00	07-Feb-17 18:00:00		0.00	0.00	0.00	4.59	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	07-Feb-17 17:00:00		10.35	18.92	83.84	88.19
07-Feb-17 18:00:00	07-Feb-17 19:00:00		0.00	0.00	0.00	4.55	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	07-Feb-17 18:00:00		10.35	18.92	83.84	88.18
07-Feb-17 19:00:00	07-Feb-17 20:00:00		0.00	0.00	0.00	15.71	2.1	329.7		0.00	0.00	0.00	5.18		10.35	18.92	83.84	86.68	07-Feb-17 19:00:00		10.35	18.92	83.84	91.86
07-Feb-17 20:00:00	07-Feb-17 21:00:00		0.00	0.00	0.00	5.19	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	07-Feb-17 20:00:00		10.35	18.92	83.84	88.39
07-Feb-17 21:00:00	07-Feb-17 22:00:00		0.00	0.00	0.00	5.02	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	07-Feb-17 21:00:00		10.35	18.92	83.84	88.34
07-Feb-17 22:00:00	07-Feb-17 23:00:00		0.00	0.00	0.00	5.33	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	07-Feb-17 22:00:00		10.35	18.92	83.84	88.44
07-Feb-17 23:00:00	08-Feb-17 00:00:00		0.00	0.00	0.00	81.28	2.1	329.7		0.00	0.00	0.00	26.80		10.35	18.92	83.84	86.68	07-Feb-17 23:00:00		10.35	18.92	83.84	113.48
08-Feb-17 00:00:00	08-Feb-17 01:00:00		0.00	0.00	0.00	5.34	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	08-Feb-17 00:00:00		10.35	18.92	83.84	88.44
08-Feb-17 01:00:00	08-Feb-17 02:00:00		0.00	0.00	0.00	5.38	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	08-Feb-17 01:00:00		10.35	18.92	83.84	88.45
08-Feb-17 02:00:00	08-Feb-17 03:00:00		0.00	0.00	0.00	5.42	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	08-Feb-17 02:00:00		10.35	18.92	83.84	88.47
08-Feb-17 03:00:00	08-Feb-17 04:00:00		0.00	0.00	0.00	5.41	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	08-Feb-17 03:00:00		10.35	18.92	83.84	88.46
08-Feb-17 04:00:00	08-Feb-17 05:00:00		0.00	0.00	0.00	5.62	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	08-Feb-17 04:00:00		10.35	18.92	83.84	88.53
08-Feb-17 05:00:00	08-Feb-17 06:00:00		0.00	0.00	0.00	5.85	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	08-Feb-17 05:00:00		10.35	18.92	83.84	88.61
08-Feb-17 06:00:00	08-Feb-17 07:00:00		473.99	456.14	0.00	6.08	2.1	329.7		156.27	150.39	0.00	2.01		10.35	18.92	83.84	86.68	08-Feb-17 06:00:00		166.62	169.31	83.84	88.69
08-Feb-17 07:00:00	08-Feb-17 08:00:00		914.35	1,016.94	0.00	6.23	2.1	329.7		301.46	335.29	0.00	2.06		10.35	18.92	83.84	86.68	08-Feb-17 07:00:00		311.81	354.21	83.84	88.74
08-Feb-17 08:00:00	08-Feb-17 09:00:00		812.20	1,072.78	0.00	6.12	2.1	329.7		267.78	353.70	0.00	2.02		10.35	18.92	83.84	86.68	08-Feb-17 08:00:00		278.13	372.62	83.84	88.70
08-Feb-17 09:00:00	08-Feb-17 10:00:00		732.40	1,066.51	0.00	6.00	2.1	329.7		241.47	351.63	0.00	1.98		10.35	18.92	83.84	86.68	08-Feb-17 09:00:00		251.82	370.55	83.84	88.66
08-Feb-17 10:00:00	08-Feb-17 11:00:00		392.07	498.79	0.00	5.88	2.1	329.7		129.27	164.45	0.00	1.94		10.35	18.92	83.84	86.68	08-Feb-17 10:00:00		139.62	183.37	83.84	88.62
08-Feb-17 11:00:00	08-Feb-17 12:00:00		336.66	537.77	0.00	5.80	2.1	329.7		111.00	177.30	0.00	1.91		10.35	18.92	83.84	86.68	08-Feb-17 11:00:00		121.35	196.22	83.84	88.59
08-Feb-17 12:00:00	08-Feb-17 13:00:00		0.00	189.31	0.00	5.50	2.1	329.7		0.00	62.42	0.00	1.81		10.35	18.92	83.84	86.68	08-Feb-17 12:00:00		10.35	81.34	83.84	88.49
08-Feb-17 13:00:00	08-Feb-17 14:00:00		0.00	0.00	0.00	5.18	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	08-Feb-17 13:00:00		10.35	18.92	83.84	88.39
08-Feb-17 14:00:00	08-Feb-17 15:00:00		0.00	0.00	0.00	4.85	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	08-Feb-17 14:00:00		10.35	18.92	83.84	88.28
08-Feb-17 15:00:00	08-Feb-17 16:00:00		0.00	0.00	0.00	4.65	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	08-Feb-17 15:00:00		10.35	18.92	83.84	88.21
08-Feb-17 16:00:00	08-Feb-17 17:00:00		0.00	0.00	0.00	4.65	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	08-Feb-17 16:00:00		10.35	18.92	83.84	88.21
08-Feb-17 17:00:00	08-Feb-17 18:00:00		0.00	0.00	0.00	4.65	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	08-Feb-17 17:00:00		10.35	18.92	83.84	88.21
08-Feb-17 18:00:00	08-Feb-17 19:00:00		0.00	0.00	0.00	4.65	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	08-Feb-17 18:00:00		10.35	18.92	83.84	88.21
08-Feb-17 19:00:00	08-Feb-17 20:00:00		0.00	0.00	0.00	17.33	2.1	329.7		0.00	0.00	0.00	5.71		10.35	18.92	83.84	86.68	08-Feb-17 19:00:00		10.35	18.92	83.84	92.39
08-Feb-17 20:00:00	08-Feb-17 21:00:00		0.00	0.00	0.00	5.22	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	08-Feb-17 20:00:00		10.35	18.92	83.84	88.40
08-Feb-17 21:00:00	08-Feb-17 22:00:00		0.00	0.00	0.00	10.25	2.1	329.7		0.00	0.00	0.00	3.38		10.35	18.92	83.84	86.68	08-Feb-17 21:00:00		10.35	18.92	83.84	90.06
08-Feb-17 22:00:00	08-Feb-17 23:00:00		0.00	0.00	0.00	11.66	2.1	329.7		0.00	0.00	0.00	3.85		10.35	18.92	83.84	86.68	08-Feb-17 22:00:00		10.35	18.92	83.84	90.53
08-Feb-17 23:00:00	09-Feb-17 00:00:00		0.00	0.00	0.00	5.70	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	08-Feb-17 23:00:00		10.35	18.92	83.84	88.56
09-Feb-17 00:00:00	09-Feb-17 01:00:00		0.00	0.00	0.00	5.85	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	09-Feb-17 00:00:00		10.35	18.92	83.84	88.61
09-Feb-17 01:00:00	09-Feb-17 02:00:00		0.00	0.00	0.00	5.99	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	09-Feb-17 01:00:00		10.35	18.92	83.84	88.66
09-Feb-17 02:00:00	09-Feb-17 03:00:00		0.00	0.00	0.00	6.12	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	09-Feb-17 02:00:00		10.35	18.92	83.84	88.70
09-Feb-17 03:00:00	09-Feb-17 04:00:00		0.00	0.00	0.00	6.21	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	09-Feb-17 03:00:00		10.35	18.92	83.84	88.73
09-Feb-17 04:00:00	09-Feb-17 05:00:00		0.00	0.00	0.00	25.29	2.1	329.7		0.00	0.00	0.00	8.34		10.35	18.92	83.84	86.68	09-Feb-17 04:00:00		10.35	18.92	83.84	95.02
09-Feb-17 05:00:00	09-Feb-17 06:00:00		0.00	0.00	0.00	6.38	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	09-Feb-17 05:00:00		10.35	18.92	83.84	88.79
09-Feb-17 06:00:00	09-Feb-17 07:00:00		0.00	0.00	0.00	6.39	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	09-Feb-17 06:00:00		10.35	18.92	83.84	88.79
09-Feb-17 07:00:00	09-Feb-17 08:00:00		0.00	0.00	0.00	18.86	2.1	329.7		0.00	0.00	0.00	6.22		10.35	18.92	83.84	86.68	09-Feb-17 07:00:00		10.35	18.92	83.84	92.90
09-Feb-17 08:00:00	09-Feb-17 09:00:00		0.00	0.00	0.00	6.45	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	09-Feb-17 08:00:00		10.35	18.92	83.84	88.81
09-Feb-17 09:00:00	09-Feb-17 10:00:00		0.00	0.00	0.00	6.50	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	09-Feb-17 09:00:00		10.35	18.92	83.84	88.82
09-Feb-17 10:00:00	09-Feb-17 11:00:00		0.00	0.00	0.00	6.55	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	09-Feb-17 10:00:00		10.35	18.92	83.84	88.84
09-Feb-17 11:00:00	09-Feb-17 12:00:00		0.00	0.00	0.00	12.03	2.1	329.7		0.00	0.00	0.00	3.96		10.35	18.92	83.84	86.68	09-Feb-17 11:00:00		10.35	18.92	83.84	90.64
09-Feb-17 12:00:00	09-Feb-17 13:00:00		0.00	0.00	0.00	6.49	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	09-Feb-17 12:00:00		10.35	18.92	83.84	88.82
09-Feb-17 13:00:00	09-Feb-17 14:00:00		0.00	0.00	0.00	16.91	2.1	329.7		0.00	0.00	0.00	5.58		10.35	18.92	83.84	86.68	09-Feb-17 13:00:00		10.35	18.92	83.84	92.26
09-Feb-17 14:00:00	09-Feb-17 15:00:00		0.00	0.00	0.00	6.56	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	09-Feb-17 14:00:00		10.35	18.92	83.84	88.84
09-Feb-17 15:00:00	09-Feb-17 16:00:00		0.00	0.00	0.00

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
11-Feb-17 17:00:00	11-Feb-17 18:00:00		435.12	0.00	0.00	26.78	2.1	329.7		143.46	0.00	0.00	8.83		10.35	18.92	83.84	86.68	11-Feb-17 17:00:00		**153.81**	**18.92**	**83.84**	**95.51**
11-Feb-17 18:00:00	11-Feb-17 19:00:00		0.00	0.00	0.00	4.74	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	11-Feb-17 18:00:00		**10.35**	**18.92**	**83.84**	**88.24**
11-Feb-17 19:00:00	11-Feb-17 20:00:00		0.00	0.00	0.00	4.78	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	11-Feb-17 19:00:00		**10.35**	**18.92**	**83.84**	**88.26**
11-Feb-17 20:00:00	11-Feb-17 21:00:00		0.00	0.00	0.00	4.82	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	11-Feb-17 20:00:00		**10.35**	**18.92**	**83.84**	**88.27**
11-Feb-17 21:00:00	11-Feb-17 22:00:00		0.00	0.00	0.00	4.78	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	11-Feb-17 21:00:00		**10.35**	**18.92**	**83.84**	**88.26**
11-Feb-17 22:00:00	11-Feb-17 23:00:00		0.00	0.00	0.00	4.73	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	11-Feb-17 22:00:00		**10.35**	**18.92**	**83.84**	**88.24**
11-Feb-17 23:00:00	12-Feb-17 00:00:00		0.00	0.00	0.00	4.70	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	11-Feb-17 23:00:00		**10.35**	**18.92**	**83.84**	**88.23**
12-Feb-17 00:00:00	12-Feb-17 01:00:00		0.00	0.00	0.00	4.67	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	12-Feb-17 00:00:00		**10.35**	**18.92**	**83.84**	**88.22**
12-Feb-17 01:00:00	12-Feb-17 02:00:00		0.00	0.00	0.00	4.71	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	12-Feb-17 01:00:00		**10.35**	**18.92**	**83.84**	**88.23**
12-Feb-17 02:00:00	12-Feb-17 03:00:00		0.00	0.00	0.00	4.94	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	12-Feb-17 02:00:00		**10.35**	**18.92**	**83.84**	**88.31**
12-Feb-17 03:00:00	12-Feb-17 04:00:00		0.00	0.00	0.00	6.96	2.1	329.7		0.00	0.00	0.00	2.29		10.35	18.92	83.84	86.68	12-Feb-17 03:00:00		**10.35**	**18.92**	**83.84**	**88.97**
12-Feb-17 04:00:00	12-Feb-17 05:00:00		0.00	0.00	0.00	5.36	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	12-Feb-17 04:00:00		**10.35**	**18.92**	**83.84**	**88.45**
12-Feb-17 05:00:00	12-Feb-17 06:00:00		0.00	0.00	0.00	5.50	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	12-Feb-17 05:00:00		**10.35**	**18.92**	**83.84**	**88.49**
12-Feb-17 06:00:00	12-Feb-17 07:00:00		0.00	0.00	0.00	5.63	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	12-Feb-17 06:00:00		**10.35**	**18.92**	**83.84**	**88.54**
12-Feb-17 07:00:00	12-Feb-17 08:00:00		0.00	0.00	0.00	32.34	2.1	329.7		0.00	0.00	0.00	10.66		10.35	18.92	83.84	86.68	12-Feb-17 07:00:00		**10.35**	**18.92**	**83.84**	**97.34**
12-Feb-17 08:00:00	12-Feb-17 09:00:00		0.00	0.00	0.00	5.55	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	12-Feb-17 08:00:00		**10.35**	**18.92**	**83.84**	**88.51**
12-Feb-17 09:00:00	12-Feb-17 10:00:00		0.00	0.00	0.00	5.43	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	12-Feb-17 09:00:00		**10.35**	**18.92**	**83.84**	**88.47**
12-Feb-17 10:00:00	12-Feb-17 11:00:00		0.00	0.00	0.00	5.32	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	12-Feb-17 10:00:00		**10.35**	**18.92**	**83.84**	**88.43**
12-Feb-17 11:00:00	12-Feb-17 12:00:00		0.00	0.00	0.00	5.18	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	12-Feb-17 11:00:00		**10.35**	**18.92**	**83.84**	**88.39**
12-Feb-17 12:00:00	12-Feb-17 13:00:00		0.00	0.00	0.00	4.92	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	12-Feb-17 12:00:00		**10.35**	**18.92**	**83.84**	**88.30**
12-Feb-17 13:00:00	12-Feb-17 14:00:00		0.00	0.00	0.00	16.00	2.1	329.7		0.00	0.00	0.00	5.28		10.35	18.92	83.84	86.68	12-Feb-17 13:00:00		**10.35**	**18.92**	**83.84**	**91.96**
12-Feb-17 14:00:00	12-Feb-17 15:00:00		0.00	0.00	0.00	4.80	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	12-Feb-17 14:00:00		**10.35**	**18.92**	**83.84**	**88.26**
12-Feb-17 15:00:00	12-Feb-17 16:00:00		0.00	0.00	0.00	4.61	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	12-Feb-17 15:00:00		**10.35**	**18.92**	**83.84**	**88.20**
12-Feb-17 16:00:00	12-Feb-17 17:00:00		0.00	0.00	0.00	47.76	2.1	329.7		0.00	0.00	0.00	15.75		10.35	18.92	83.84	86.68	12-Feb-17 16:00:00		**10.35**	**18.92**	**83.84**	**102.41**
12-Feb-17 17:00:00	12-Feb-17 18:00:00		0.00	0.00	0.00	4.68	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	12-Feb-17 17:00:00		**10.35**	**18.92**	**83.84**	**88.22**
12-Feb-17 18:00:00	12-Feb-17 19:00:00		0.00	0.00	0.00	4.74	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	12-Feb-17 18:00:00		**10.35**	**18.92**	**83.84**	**88.24**
12-Feb-17 19:00:00	12-Feb-17 20:00:00		0.00	0.00	0.00	38.98	2.1	329.7		0.00	0.00	0.00	12.85		10.35	18.92	83.84	86.68	12-Feb-17 19:00:00		**10.35**	**18.92**	**83.84**	**99.53**
12-Feb-17 20:00:00	12-Feb-17 21:00:00		0.00	0.00	0.00	4.92	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	12-Feb-17 20:00:00		**10.35**	**18.92**	**83.84**	**88.30**
12-Feb-17 21:00:00	12-Feb-17 22:00:00		0.00	0.00	0.00	5.03	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	12-Feb-17 21:00:00		**10.35**	**18.92**	**83.84**	**88.34**
12-Feb-17 22:00:00	12-Feb-17 23:00:00		0.00	0.00	0.00	5.14	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	12-Feb-17 22:00:00		**10.35**	**18.92**	**83.84**	**88.38**
12-Feb-17 23:00:00	13-Feb-17 00:00:00		0.00	0.00	0.00	5.24	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	12-Feb-17 23:00:00		**10.35**	**18.92**	**83.84**	**88.41**
13-Feb-17 00:00:00	13-Feb-17 01:00:00		0.00	0.00	0.00	5.36	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	13-Feb-17 00:00:00		**10.35**	**18.92**	**83.84**	**88.45**
13-Feb-17 01:00:00	13-Feb-17 02:00:00		0.00	0.00	0.00	5.49	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	13-Feb-17 01:00:00		**10.35**	**18.92**	**83.84**	**88.49**
13-Feb-17 02:00:00	13-Feb-17 03:00:00		0.00	0.00	0.00	5.62	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	13-Feb-17 02:00:00		**10.35**	**18.92**	**83.84**	**88.53**
13-Feb-17 03:00:00	13-Feb-17 04:00:00		0.00	0.00	0.00	5.73	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	13-Feb-17 03:00:00		**10.35**	**18.92**	**83.84**	**88.57**
13-Feb-17 04:00:00	13-Feb-17 05:00:00		0.00	0.00	0.00	98.16	2.1	329.7		0.00	0.00	0.00	32.36		10.35	18.92	83.84	86.68	13-Feb-17 04:00:00		**10.35**	**18.92**	**83.84**	**119.04**
13-Feb-17 05:00:00	13-Feb-17 06:00:00		0.00	0.00	0.00	5.85	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	13-Feb-17 05:00:00		**10.35**	**18.92**	**83.84**	**88.61**
13-Feb-17 06:00:00	13-Feb-17 07:00:00		0.00	0.00	0.00	5.98	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	13-Feb-17 06:00:00		**10.35**	**18.92**	**83.84**	**88.65**
13-Feb-17 07:00:00	13-Feb-17 08:00:00		0.00	0.00	0.00	6.11	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	13-Feb-17 07:00:00		**10.35**	**18.92**	**83.84**	**88.69**
13-Feb-17 08:00:00	13-Feb-17 09:00:00		0.00	0.00	0.00	6.24	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	13-Feb-17 08:00:00		**10.35**	**18.92**	**83.84**	**88.74**
13-Feb-17 09:00:00	13-Feb-17 10:00:00		0.00	0.00	0.00	6.24	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	13-Feb-17 09:00:00		**10.35**	**18.92**	**83.84**	**88.74**
13-Feb-17 10:00:00	13-Feb-17 11:00:00		0.00	0.00	0.00	6.04	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	13-Feb-17 10:00:00		**10.35**	**18.92**	**83.84**	**88.67**
13-Feb-17 11:00:00	13-Feb-17 12:00:00		0.00	0.00	0.00	5.84	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	13-Feb-17 11:00:00		**10.35**	**18.92**	**83.84**	**88.60**
13-Feb-17 12:00:00	13-Feb-17 13:00:00		0.00	0.00	0.00	5.63	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	13-Feb-17 12:00:00		**10.35**	**18.92**	**83.84**	**88.54**
13-Feb-17 13:00:00	13-Feb-17 14:00:00		0.02	0.00	0.00	5.45	2.1	329.7		0.01	0.00	0.00	1.80		10.35	18.92	83.84	86.68	13-Feb-17 13:00:00		**10.36**	**18.92**	**83.84**	**88.48**
13-Feb-17 14:00:00	13-Feb-17 15:00:00		0.49	0.00	0.00	5.52	2.1	329.7		0.16	0.00	0.00	1.82		10.35	18.92	83.84	86.68	13-Feb-17 14:00:00		**10.51**	**18.92**	**83.84**	**88.50**
13-Feb-17 15:00:00	13-Feb-17 16:00:00		1.18	0.00	0.00	5.58	2.1	329.7		0.39	0.00	0.00	1.84		10.35	18.92	83.84	86.68	13-Feb-17 15:00:00		**10.74**	**18.92**	**83.84**	**88.52**
13-Feb-17 16:00:00	13-Feb-17 17:00:00		1.18	0.00	0.00	5.65	2.1	329.7		0.39	0.00	0.00	1.86		10.35	18.92	83.84	86.68	13-Feb-17 16:00:00		**10.74**	**18.92**	**83.84**	**88.54**
13-Feb-17 17:00:00	13-Feb-17 18:00:00		0.00	0.00	0.00	5.72	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	13-Feb-17 17:00:00		**10.35**	**18.92**	**83.84**	**88.57**
13-Feb-17 18:00:00	13-Feb-17 19:00:00		0.00	0.00	0.00	5.88	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	13-Feb-17 18:00:00		**10.35**	**18.92**	**83.84**	**88.62**
13-Feb-17 19:00:00	13-Feb-17 20:00:00		0.00	0.00	0.00	6.04	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	13-Feb-17 19:00:00		**10.35**	**18.92**	**83.84**	**88.67**
13-Feb-17 20:00:00	13-Feb-17 21:00:00		0.00	0.00	0.00	6.19	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	13-Feb-17 20:00:00		**10.35**	**18.92**	**83.84**	**88.72**
13-Feb-17 21:00:00	13-Feb-17 22:00:00		0.00	0.00	0.00	6.23	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	13-Feb-17 21:00:00		**10.35**	**18.92**	**83.84**	**88.73**
13-Feb-17 22:00:00	13-Feb-17 23:00:00		0.00	0.00	0.00	6.42	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	13-Feb-17 22:00:00		**10.35**	**18.92**	**83.84**	**88.80**
13-Feb-17 23:00:00	14-Feb-17 00:00:00		0.00	0.00	0.00	6.61	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	13-Feb-17 23:00:00		**10.35**	**18.92**	**83.84**	**88.86**
14-Feb-17 00:00:00	14-Feb-17 01:00:00		0.00	0.00	0.00	6.80	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	14-Feb-17 00:00:00		**10.35**	**18.92**	**83.84**	**88.92**
14-Feb-17 01:00:00	14-Feb-17 02:00:00		0.00	0.00	0.00	6.91	2.1	329.7		0.00	0.00	0.00	2.28		10.35	18.92	83.84	86.68	14-Feb-17 01:00:00		**10.35**	**18.92**	**83.84**	**88.96**
14-Feb-17 02:00:00	14-Feb-17 03:00:00		0.00	0.00	0.00	6.93	2.1	329.7		0.00	0.00	0.00	2.28		10.35	18.92	83.84	86.68	14-Feb-17 02:00:00		**10.35**	**18.92**	**83.84**	**88.96**
14-Feb-17 03:00:00	14-Feb-17 04:00:00		0.00	0.00	0.00	14.89	2.1	329.7		0.00	0.00	0.00	4.91		10.35	18.92	83.84	86.68	14-Feb-17 03:00:00		**10.35**	**18.92**	**83.84**	**91.59**
14-Feb-17 04:00:00	14-Feb-17 05:00:00		0.00	0.00	0.00	6.97	2.1	329.7		0.00	0.00	0.00	2.30		10.35	18.92	83.84	86.68	14-Feb-17 04:00:00		**10.35**	**18.92**	**83.84**	**88.98**
14-Feb-17 05:00:00	14-Feb-17 06:00:00		0.00	0.00	0.00	7.03	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	14-Feb-17 05:00:00		**10.35**	**18.92**	**83.84**	**89.00**
14-Feb-17 06:00:00	14-Feb-17 07:00:00		0.00	0.00	0.00	7.10	2.1	329.7		0.00	0.00	0.00	2.34		10.35	18.92	83.84	86.68	14-Feb-17 06:00:00		**10.35**	**18.92**	**83.84**	**89.02**
14-Feb-17 07:00:00	14-Feb-17 08:00:00		0.00	0.00	0.00	7.15	2.1	329.7		0.00	0.00	0.00	2.36		10.35	18.92	83.84	86.68	14-Feb-17 07:00:00		**10.35**	**18.92**	**83.84**	**89.04**
14-Feb-17 08:00:00	14-Feb-17 09:00:00		0.00	0.00	0.00	7.07	2.1	329.7		0.00	0.00	0.00	2.33		10.35	18.92	83.84	86.68	14-Feb-17 08:00:00		**10.35**	**18.92**	**83.84**	**89.01**
14-Feb-17 09:00:00	14-Feb-17 10:00:00		0.00	0.00	0.00	17.27	2.1	329.7		0.00	0.00	0.00	5.69		10.35	18.92	83.84	86.68	14-Feb-17 09:00:00		**10.35**	**18.92**	**83.84**	**92.37**
14-Feb-17 10:00:00	14-Feb-17 11:00:00		0.00	0.00	0.00	6.41	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	14-Feb-17 10:00:00		**10.35**	**18.92**	**83.84**	**88.79**
14-Feb-17 11:00:00	14-Feb-17 12:00:00		0.00	0.00	0.00	5.97	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	14-Feb-17 11:00:00		**10.35**	**18.92**	**83.84**	**88.65**
14-Feb-17 12:00:00	14-Feb-17 13:00:00		0.43	0.00	0.00	5.53	2.1	329.7		0.14	0.00	0.00	1.82		10.35	18.92	83.84	86.68	14-Feb-17 12:00:00		**10.49**	**18.92**	**83.84**	**88.50**
14-Feb-17 13:00:00	14-Feb-17 14:00:00		0.00	0.00	0.00	5.21	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	14-Feb-17 13:00:00		**10.35**	**18.92**	**83.84**	**88.40**
14-Feb-17 14:00:00	14-Feb-17 15:00:00		0.00	0.00	0.00	5.13	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	14-Feb-17 14:00:00		**10.35**	**18.92**	**83.84**	**88.37**
14-Feb-17 15:00:00	14-Feb-17 16:00:00		0.00	0.00	0.00	5.06	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	14-Feb-17 15:00:00		**10.35**	**18.92**	**83.84**	**88.35**
14-Feb-17 16:00:00	14-Feb-17 17:00:00		0.00	0.00	0.00	6.19	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	14-Feb-17 16:00:00		**10.35**	**18.92**	**83.84**	**88.72**
14-Feb-17 17:00:00	14-Feb-17 18:00:00		0.00	0.00	0.00	5.05	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	14-Feb-17 17:00:00		**10.35**	**18.92**	**83.84**	**88.34**
14-Feb-17 18:00:00	14-Feb-17 19:00:00		0.00	0.00	0.00	5.03	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	14-Feb-17 18:00:00		**10.35**	**18.92**	**83.84**	**88.34**
14-Feb-17 19:00:00	14-Feb-17 20:00:00		0.00	0.00	0.00	5.01	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	14-Feb-17 19:00:00		**10.35**	**18.92**	**83.84**	**88.33**
14-Feb-17 20:00:00	14-Feb-17 21:00:00		0.00	0.00	0.00	4.95	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	14-Feb-17 20:00:00		**10.35**	**18.92**	**83.84**	**88.31**
14-Feb-17 21:00:00	14-Feb-17 22:00:00		0.00	0.00	0.00	5.11	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	14-Feb-17 21:00:00		**10.35**	**18.92**	**83.84**	**88.36**
14-Feb-17 22:00:00	14-Feb-17 23:00:00		0.00	0.00	0.00	5.32	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	14-Feb-17 22:00:00		**10.35**	**18.92**	**83.84**	**88.43**
14-Feb-17 23:00:00	15-Feb-17 00:00:00		0.00	0.00	0.00	5.54	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	14-Feb-17 23:00:00		**10.35**	**18.92**	**83.84**	**88.51**
15-Feb-17 00:00:00	15-Feb-17 01:00:00		0.00	0.00	0.00	5.65	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	15-Feb-17 00:00:00		**10.35**	**18.92**	**83.84**	**88.54**
15-Feb-17 01:00:00	15-Feb-17 02:00:00		0.00	0.00	0.00	5.67	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	15-Feb-17 01:00:00		**10.35**	**18.92**	**83.84**	**88.55**
15-Feb-17 02:00:00	15-Feb-17 03:00:00		0.00	0.00	0.00	5.71	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	15-Feb-17 02:00:00		**10.35**	**18.92**	**83.84**	**88.56**
15-Feb-17 03:00:00	15-Feb-17 04:00:00		0.00	0.00	0.00	5.74	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	15-Feb-17 03:00:00		**10.35**	**18.92**	**83.84**	**88.57**
15-Feb-17 04:00:00	15-Feb-17 05:00:00		0.00	0.00	0.00	64.94	2.1	329.7		0.00	0.00	0.00	21.41		10.35	18.92	83.84	86.68	15-Feb-17 04:00:00		**10.35**	**18.92**	**83.84**	**108.09**
15-Feb-17 05:00:00	15-Feb-17 06:00:00		0.00	0.00	0.00	5.92	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	15-Feb-17 05:00:00		**10.35**	**18.92**	**83.84**	**88.63**
15-Feb-17 06:00:00	15-Feb-17 07:00:00		0.00	0.00	0.00	6.20	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	15-Feb-17 06:00:00		**10.35**	**18.92**	**83.84**	**88.73**
15-Feb-17 07:00:00	15-Feb-17 08:00:00		0.00	0.00	0.00	6.49	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	15-Feb-17 07:00:00		**10.35**	**18.92**	**83.84**	**88.82**
15-Feb-17 08:00:00	15-Feb-17 09:00:00		0.00	0.00	0.00	6.77	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	15-Feb-17 08:00:00		**10.35**	**18.92**	**83.84**	**88.91**
15-Feb-17 09:00:00	15-Feb-17 10:00:00		0.00	0.00	0.00	6.87	2.1	329.7		0.00	0.00	0.00	2.27		10.35	18.92	83.84	86.68	15-Feb-17 09:00:00		**10.35**	**18.92**	**83.84**	**88.95**
15-Feb-17 10:00:00	15-Feb-17 11:00:00		0.00	0.00	0.00	6.72	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	15-Feb-17 10:00:00		**10.35**	**18.92**	**83.84**	**88.90**
15-Feb-17 11:00:00	15-Feb-17 12:00:00		0.00	0.00	0.00	6.56	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	15-Feb-17 11:00:00		**10.35**	**18.92**	**83.84**	**88.84**
15-Feb-17 12:00:00	15-Feb-17 13:00:00		0.00	0.00	0.00	6.41	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	15-Feb-17 12:00:00		**10.35**	**18.92**	**83.84**	**88.79**
15-Feb-17 13:00:00	15-Feb-17 14:00:00		0.00	0.00	0.00	6.20	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	15-Feb-17 13:00:00		**10.35**	**18.92**	**83.84**	**88.72**
15-Feb-17 14:00:00	15-Feb-17 15:00:00		0.00	0.00	0.00	5.94

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
2017 HOURLY EMISSIONS		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
17-Feb-17 16:00:00	17-Feb-17 17:00:00		0.00	0.00	0.00	5.27	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	17-Feb-17 16:00:00		10.35	18.92	83.84	88.42
17-Feb-17 17:00:00	17-Feb-17 18:00:00		0.00	0.00	0.00	5.08	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	17-Feb-17 17:00:00		10.35	18.92	83.84	88.36
17-Feb-17 18:00:00	17-Feb-17 19:00:00		0.00	0.00	0.00	4.90	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	17-Feb-17 18:00:00		10.35	18.92	83.84	88.29
17-Feb-17 19:00:00	17-Feb-17 20:00:00		0.00	0.00	0.00	4.81	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	17-Feb-17 19:00:00		10.35	18.92	83.84	88.27
17-Feb-17 20:00:00	17-Feb-17 21:00:00		0.00	0.00	0.00	5.01	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	17-Feb-17 20:00:00		10.35	18.92	83.84	88.33
17-Feb-17 21:00:00	17-Feb-17 22:00:00		0.00	0.00	0.00	81.71	2.1	329.7		0.00	0.00	0.00	26.94		10.35	18.92	83.84	86.68	17-Feb-17 21:00:00		10.35	18.92	83.84	113.62
17-Feb-17 22:00:00	17-Feb-17 23:00:00		0.00	0.00	0.00	5.40	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	17-Feb-17 22:00:00		10.35	18.92	83.84	88.46
17-Feb-17 23:00:00	18-Feb-17 00:00:00		0.00	0.00	0.00	5.60	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	17-Feb-17 23:00:00		10.35	18.92	83.84	88.53
18-Feb-17 00:00:00	18-Feb-17 01:00:00		0.00	0.00	0.00	5.80	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	18-Feb-17 00:00:00		10.35	18.92	83.84	88.59
18-Feb-17 01:00:00	18-Feb-17 02:00:00		0.00	0.00	0.00	5.93	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	18-Feb-17 01:00:00		10.35	18.92	83.84	88.63
18-Feb-17 02:00:00	18-Feb-17 03:00:00		0.00	0.00	0.00	6.03	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	18-Feb-17 02:00:00		10.35	18.92	83.84	88.67
18-Feb-17 03:00:00	18-Feb-17 04:00:00		0.00	0.00	0.00	6.17	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	18-Feb-17 03:00:00		10.35	18.92	83.84	88.71
18-Feb-17 04:00:00	18-Feb-17 05:00:00		0.00	0.00	0.00	6.30	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	18-Feb-17 04:00:00		10.35	18.92	83.84	88.76
18-Feb-17 05:00:00	18-Feb-17 06:00:00		0.00	0.00	0.00	13.82	2.1	329.7		0.00	0.00	0.00	4.56		10.35	18.92	83.84	86.68	18-Feb-17 05:00:00		10.35	18.92	83.84	91.24
18-Feb-17 06:00:00	18-Feb-17 07:00:00		0.00	0.00	0.00	226.36	2.1	329.7		0.00	0.00	0.00	74.63		10.35	18.92	83.84	86.68	18-Feb-17 06:00:00		10.35	18.92	83.84	161.31
18-Feb-17 07:00:00	18-Feb-17 08:00:00		0.00	0.00	0.00	6.67	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	18-Feb-17 07:00:00		10.35	18.92	83.84	88.88
18-Feb-17 08:00:00	18-Feb-17 09:00:00		0.00	0.00	0.00	6.51	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	18-Feb-17 08:00:00		10.35	18.92	83.84	88.83
18-Feb-17 09:00:00	18-Feb-17 10:00:00		0.00	0.00	0.00	103.47	2.1	329.7		0.00	0.00	0.00	34.11		10.35	18.92	83.84	86.68	18-Feb-17 09:00:00		10.35	18.92	83.84	120.79
18-Feb-17 10:00:00	18-Feb-17 11:00:00		0.00	0.00	0.00	6.12	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	18-Feb-17 10:00:00		10.35	18.92	83.84	88.70
18-Feb-17 11:00:00	18-Feb-17 12:00:00		0.00	0.00	0.00	5.83	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	18-Feb-17 11:00:00		10.35	18.92	83.84	88.60
18-Feb-17 12:00:00	18-Feb-17 13:00:00		0.00	0.00	0.00	5.54	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	18-Feb-17 12:00:00		10.35	18.92	83.84	88.51
18-Feb-17 13:00:00	18-Feb-17 14:00:00		0.00	0.00	0.00	5.30	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	18-Feb-17 13:00:00		10.35	18.92	83.84	88.43
18-Feb-17 14:00:00	18-Feb-17 15:00:00		0.00	0.00	0.00	5.50	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	18-Feb-17 14:00:00		10.35	18.92	83.84	88.49
18-Feb-17 15:00:00	18-Feb-17 16:00:00		0.00	0.00	0.00	5.78	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	18-Feb-17 15:00:00		10.35	18.92	83.84	88.59
18-Feb-17 16:00:00	18-Feb-17 17:00:00		0.00	0.00	0.00	6.07	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	18-Feb-17 16:00:00		10.35	18.92	83.84	88.68
18-Feb-17 17:00:00	18-Feb-17 18:00:00		0.00	0.00	0.00	6.32	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	18-Feb-17 17:00:00		10.35	18.92	83.84	88.76
18-Feb-17 18:00:00	18-Feb-17 19:00:00		0.00	0.00	0.00	10.94	2.1	329.7		0.00	0.00	0.00	3.61		10.35	18.92	83.84	86.68	18-Feb-17 18:00:00		10.35	18.92	83.84	90.29
18-Feb-17 19:00:00	18-Feb-17 20:00:00		0.00	0.00	0.00	6.16	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	18-Feb-17 19:00:00		10.35	18.92	83.84	88.71
18-Feb-17 20:00:00	18-Feb-17 21:00:00		0.00	0.00	0.00	80.53	2.1	329.7		0.00	0.00	0.00	26.55		10.35	18.92	83.84	86.68	18-Feb-17 20:00:00		10.35	18.92	83.84	113.23
18-Feb-17 21:00:00	18-Feb-17 22:00:00		0.00	0.00	0.00	6.17	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	18-Feb-17 21:00:00		10.35	18.92	83.84	88.72
18-Feb-17 22:00:00	18-Feb-17 23:00:00		0.00	0.00	0.00	6.28	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	18-Feb-17 22:00:00		10.35	18.92	83.84	88.75
18-Feb-17 23:00:00	19-Feb-17 00:00:00		0.00	0.00	0.00	6.39	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	18-Feb-17 23:00:00		10.35	18.92	83.84	88.79
19-Feb-17 00:00:00	19-Feb-17 01:00:00		0.00	0.00	0.00	6.73	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	19-Feb-17 00:00:00		10.35	18.92	83.84	88.90
19-Feb-17 01:00:00	19-Feb-17 02:00:00		0.00	0.00	0.00	19.07	2.1	329.7		0.00	0.00	0.00	6.29		10.35	18.92	83.84	86.68	19-Feb-17 01:00:00		10.35	18.92	83.84	92.97
19-Feb-17 02:00:00	19-Feb-17 03:00:00		0.00	0.00	0.00	6.54	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	19-Feb-17 02:00:00		10.35	18.92	83.84	88.84
19-Feb-17 03:00:00	19-Feb-17 04:00:00		0.00	0.00	0.00	6.61	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	19-Feb-17 03:00:00		10.35	18.92	83.84	88.86
19-Feb-17 04:00:00	19-Feb-17 05:00:00		0.00	0.00	0.00	6.68	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	19-Feb-17 04:00:00		10.35	18.92	83.84	88.88
19-Feb-17 05:00:00	19-Feb-17 06:00:00		0.00	0.00	0.00	11.11	2.1	329.7		0.00	0.00	0.00	3.66		10.35	18.92	83.84	86.68	19-Feb-17 05:00:00		10.35	18.92	83.84	90.34
19-Feb-17 06:00:00	19-Feb-17 07:00:00		0.00	0.00	0.00	6.68	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	19-Feb-17 06:00:00		10.35	18.92	83.84	88.88
19-Feb-17 07:00:00	19-Feb-17 08:00:00		0.00	0.00	0.00	6.35	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	19-Feb-17 07:00:00		10.35	18.92	83.84	88.77
19-Feb-17 08:00:00	19-Feb-17 09:00:00		0.00	0.00	0.00	6.02	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	19-Feb-17 08:00:00		10.35	18.92	83.84	88.67
19-Feb-17 09:00:00	19-Feb-17 10:00:00		0.00	0.00	0.00	5.69	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	19-Feb-17 09:00:00		10.35	18.92	83.84	88.56
19-Feb-17 10:00:00	19-Feb-17 11:00:00		0.00	0.00	0.00	5.43	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	19-Feb-17 10:00:00		10.35	18.92	83.84	88.47
19-Feb-17 11:00:00	19-Feb-17 12:00:00		0.00	0.00	0.00	5.30	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	19-Feb-17 11:00:00		10.35	18.92	83.84	88.43
19-Feb-17 12:00:00	19-Feb-17 13:00:00		0.00	0.00	0.00	5.16	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	19-Feb-17 12:00:00		10.35	18.92	83.84	88.38
19-Feb-17 13:00:00	19-Feb-17 14:00:00		0.00	0.00	0.00	5.02	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	19-Feb-17 13:00:00		10.35	18.92	83.84	88.33
19-Feb-17 14:00:00	19-Feb-17 15:00:00		0.00	0.00	0.00	4.87	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	19-Feb-17 14:00:00		10.35	18.92	83.84	88.29
19-Feb-17 15:00:00	19-Feb-17 16:00:00		0.00	0.00	0.00	4.75	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	19-Feb-17 15:00:00		10.35	18.92	83.84	88.25
19-Feb-17 16:00:00	19-Feb-17 17:00:00		0.00	0.00	0.00	17.64	2.1	329.7		0.00	0.00	0.00	5.82		10.35	18.92	83.84	86.68	19-Feb-17 16:00:00		10.35	18.92	83.84	92.50
19-Feb-17 17:00:00	19-Feb-17 18:00:00		0.00	0.00	0.00	4.88	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	19-Feb-17 17:00:00		10.35	18.92	83.84	88.29
19-Feb-17 18:00:00	19-Feb-17 19:00:00		0.00	0.00	0.00	5.08	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	19-Feb-17 18:00:00		10.35	18.92	83.84	88.36
19-Feb-17 19:00:00	19-Feb-17 20:00:00		0.00	0.00	0.00	5.28	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	19-Feb-17 19:00:00		10.35	18.92	83.84	88.42
19-Feb-17 20:00:00	19-Feb-17 21:00:00		0.00	0.00	0.00	5.48	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	19-Feb-17 20:00:00		10.35	18.92	83.84	88.49
19-Feb-17 21:00:00	19-Feb-17 22:00:00		0.00	0.00	0.00	5.67	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	19-Feb-17 21:00:00		10.35	18.92	83.84	88.55
19-Feb-17 22:00:00	19-Feb-17 23:00:00		0.00	0.00	0.00	24.69	2.1	329.7		0.00	0.00	0.00	8.14		10.35	18.92	83.84	86.68	19-Feb-17 22:00:00		10.35	18.92	83.84	94.82
19-Feb-17 23:00:00	20-Feb-17 00:00:00		0.00	0.00	0.00	5.96	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	19-Feb-17 23:00:00		10.35	18.92	83.84	88.64
20-Feb-17 00:00:00	20-Feb-17 01:00:00		0.00	0.00	0.00	6.07	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	20-Feb-17 00:00:00		10.35	18.92	83.84	88.68
20-Feb-17 01:00:00	20-Feb-17 02:00:00		0.00	0.00	0.00	8.76	2.1	329.7		0.00	0.00	0.00	2.89		10.35	18.92	83.84	86.68	20-Feb-17 01:00:00		10.35	18.92	83.84	89.57
20-Feb-17 02:00:00	20-Feb-17 03:00:00		0.00	0.00	0.00	6.35	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	20-Feb-17 02:00:00		10.35	18.92	83.84	88.77
20-Feb-17 03:00:00	20-Feb-17 04:00:00		0.00	0.00	0.00	6.46	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	20-Feb-17 03:00:00		10.35	18.92	83.84	88.81
20-Feb-17 04:00:00	20-Feb-17 05:00:00		0.00	0.00	0.00	6.57	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	20-Feb-17 04:00:00		10.35	18.92	83.84	88.84
20-Feb-17 05:00:00	20-Feb-17 06:00:00		0.00	0.00	0.00	21.48	2.1	329.7		0.00	0.00	0.00	7.08		10.35	18.92	83.84	86.68	20-Feb-17 05:00:00		10.35	18.92	83.84	93.76
20-Feb-17 06:00:00	20-Feb-17 07:00:00		299.23	0.00	0.00	6.87	2.1	329.7		98.66	0.00	0.00	2.26		10.35	18.92	83.84	86.68	20-Feb-17 06:00:00		109.01	18.92	83.84	88.94
20-Feb-17 07:00:00	20-Feb-17 08:00:00		1,385.22	0.00	0.00	36.16	2.1	329.7		456.71	0.00	0.00	11.92		10.35	18.92	83.84	86.68	20-Feb-17 07:00:00		467.06	18.92	83.84	98.60
20-Feb-17 08:00:00	20-Feb-17 09:00:00		1,649.00	234.72	0.00	6.43	2.1	329.7		543.68	77.39	0.00	2.12		10.35	18.92	83.84	86.68	20-Feb-17 08:00:00		554.03	96.31	83.84	88.80
20-Feb-17 09:00:00	20-Feb-17 10:00:00		1,657.03	406.02	0.00	6.00	2.1	329.7		546.32	133.87	0.00	1.98		10.35	18.92	83.84	86.68	20-Feb-17 09:00:00		556.67	152.79	83.84	88.66
20-Feb-17 10:00:00	20-Feb-17 11:00:00		1,642.49	415.64	0.00	5.58	2.1	329.7		541.53	137.04	0.00	1.84		10.35	18.92	83.84	86.68	20-Feb-17 10:00:00		551.88	155.96	83.84	88.52
20-Feb-17 11:00:00	20-Feb-17 12:00:00		1,580.04	414.95	0.00	5.21	2.1	329.7		520.94	136.81	0.00	1.72		10.35	18.92	83.84	86.68	20-Feb-17 11:00:00		531.29	155.73	83.84	88.40
20-Feb-17 12:00:00	20-Feb-17 13:00:00		1,600.97	471.18	0.00	5.05	2.1	329.7		527.84	155.35	0.00	1.67		10.35	18.92	83.84	86.68	20-Feb-17 12:00:00		538.19	174.27	83.84	88.35
20-Feb-17 13:00:00	20-Feb-17 14:00:00		1,518.86	490.52	0.00	4.92	2.1	329.7		500.77	161.72	0.00	1.62		10.35	18.92	83.84	86.68	20-Feb-17 13:00:00		511.12	180.64	83.84	88.30
20-Feb-17 14:00:00	20-Feb-17 15:00:00		1,373.68	490.58	0.00	4.79	2.1	329.7		452.90	161.75	0.00	1.58		10.35	18.92	83.84	86.68	20-Feb-17 14:00:00		463.25	180.67	83.84	88.26
20-Feb-17 15:00:00	20-Feb-17 16:00:00		1,294.58	492.60	0.00	4.73	2.1	329.7		426.82	162.41	0.00	1.56		10.35	18.92	83.84	86.68	20-Feb-17 15:00:00		437.17	181.33	83.84	88.24
20-Feb-17 16:00:00	20-Feb-17 17:00:00		1,278.25	492.93	0.00	4.87	2.1	329.7		421.44	162.52	0.00	1.60		10.35	18.92	83.84	86.68	20-Feb-17 16:00:00		431.79	181.44	83.84	88.28
20-Feb-17 17:00:00	20-Feb-17 18:00:00		904.86	492.87	0.00	5.02	2.1	329.7		298.33	162.50	0.00	1.65		10.35	18.92	83.84	86.68	20-Feb-17 17:00:00		308.68	181.42	83.84	88.33
20-Feb-17 18:00:00	20-Feb-17 19:00:00		802.23	493.79	0.00	5.16	2.1	329.7		264.50	162.80	0.00	1.70		10.35	18.92	83.84	86.68	20-Feb-17 18:00:00		274.85	181.72	83.84	88.38
20-Feb-17 19:00:00	20-Feb-17 20:00:00		816.18	493.95	0.00	5.33	2.1	329.7		269.10	162.86	0.00	1.76		10.35	18.92	83.84	86.68	20-Feb-17 19:00:00		279.45	181.78	83.84	88.44
20-Feb-17 20:00:00	20-Feb-17 21:00:00		667.52	493.80	0.00	8.40	2.1	329.7		220.08	162.81	0.00	2.77		10.35	18.92	83.84	86.68	20-Feb-17 20:00:00		230.43	181.73	83.84	89.45
20-Feb-17 21:00:00	20-Feb-17 22:00:00		62.24	244.24	0.00	5.79	2.1	329.7		20.52	80.53	0.00	1.91		10.35	18.92	83.84	86.68	20-Feb-17 21:00:00		30.87	99.45	83.84	88.59
20-Feb-17 22:00:00	20-Feb-17 23:00:00		0.00	0.00	0.00	24.12	2.1	329.7		0.00	0.00	0.00	7.95		10.35	18.92	83.84	86.68	20-Feb-17 22:00:00		10.35	18.92	83.84	94.63
20-Feb-17 23:00:00	21-Feb-17 00:00:00		0.00	0.00	0.00	8.06	2.1	329.7		0.00	0.00	0.00	2.66		10.35	18.92	83.84	86.68	20-Feb-17 23:00:00		10.35	18.92	83.84	89.34
21-Feb-17 00:00:00	21-Feb-17 01:00:00		0.00	0.00	0.00	6.23	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	21-Feb-17 00:00:00		10.35	18.92	83.84	88.73
21-Feb-17 01:00:00	21-Feb-17 02:00:00		0.00	0.00	0.00	17.61	2.1	329.7		0.00	0.00	0.00	5.81		10.35	18.92	83.84	86.68	21-Feb-17 01:00:00		10.35	18.92	83.84	92.49
21-Feb-17 02:00:00	21-Feb-17 03:00:00		0.00	234.66	0.00	6.36	2.1	329.7		0.00	77.37	0.00	2.10		10.35	18.92	83.84	86.68	21-Feb-17 02:00:00		10.35	96.29	83.84	88.78
21-Feb-17 03:00:00	21-Feb-17 04:00:00		0.00	61.43	0.00	6.47	2.1	329.7		0.00	20.25	0.00	2.13		10.35	18.92	83.84	86.68	21-Feb-17 03:00:00		10.35	39.17	83.84	88.81
21-Feb-17 04:00:00	21-Feb-17 05:00:00		0.00	0.00	0.00	6.57	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	21-Feb-17 04:00:00		10.35	18.92	83.84	88.85
21-Feb-17 05:00:00	21-Feb-17 06:00:00		0.00	0.00	0.00	6.66	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	21-Feb-17 05:00:00		10.35	18.92	83.84	88.88
21-Feb-17 06:00:00	21-Feb-17 07:00:00		0.00	0.00	0.00	8.62	2.1	329.7		0.00	0.00	0.00	2.84		10.35	18.92	83.84	86.68	21-Feb-17 06:00:00		10.35	18.92	83.84	89.52
21-Feb-17 07:00:00	21-Feb-17 08:00:00		0.00	0.00	0.00	112.51	2.1	329.7		0.00	0.00	0.00	37.09		10.35	18.92	83.84	86.68	21-Feb-17 07:00:00		10.35	18.92	83.84	123.77
21-Feb-17 08:00:00	21-Feb-17 09:00:00		0.00	0.00	0.00	33.45	2.1	329.7		0.00	0.00	0.00	11.03		10.35	18.92	83.84	86.68	21-Feb-17 08:00:00		10.35	18.92	83.84	97.71
21-Feb-17 09:00:00	21-Feb-17 10:00:00		0.00	0.00	0.00	10.77	2.1	329.7		0.00	0.00	0.00	3.55		10.35	18.92	83.84	86.68	21-Feb-17 09:00:00		10.35	18.92	83.84	90.23
21-Feb-17 10:00:00	21-Feb-17 11:00:00		0.00	0.00	0.00	6.11	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	21-Feb-17 10:00:00		10.35	18.92	83.84	88.70
21-Feb-17 11:00:00	21-Feb-17 12:00:00		0.00	0.00	0.00	5.79	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	21-Feb-17 11:00:00		10.35	18.92	83.84	88.59
21-Feb-17 12:00:00	21-Feb-17 13:00:00		0.00	0.00	0.00	17.71	2.1	329.7		0.00	0.00	0.00	5.84		10.35	18.92	83.84	86.68	21-Feb-17 12:00:00		10.35	18.92	83.84	92.52
21-Feb-17 13:00:00	21-Feb-17 14:00:00		0.00

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
23-Feb-17 15:00:00	23-Feb-17 16:00:00		0.00	0.00	0.00	5.20	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	23-Feb-17 15:00:00		10.35	18.92	83.84	88.39
23-Feb-17 16:00:00	23-Feb-17 17:00:00		0.00	0.00	0.00	5.19	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	23-Feb-17 16:00:00		10.35	18.92	83.84	88.39
23-Feb-17 17:00:00	23-Feb-17 18:00:00		0.00	0.00	0.00	5.17	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	23-Feb-17 17:00:00		10.35	18.92	83.84	88.39
23-Feb-17 18:00:00	23-Feb-17 19:00:00		0.00	0.00	0.00	5.16	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	23-Feb-17 18:00:00		10.35	18.92	83.84	88.38
23-Feb-17 19:00:00	23-Feb-17 20:00:00		0.00	0.00	0.00	18.21	2.1	329.7		0.00	0.00	0.00	6.00		10.35	18.92	83.84	86.68	23-Feb-17 19:00:00		10.35	18.92	83.84	92.68
23-Feb-17 20:00:00	23-Feb-17 21:00:00		0.00	0.00	0.00	16.91	2.1	329.7		0.00	0.00	0.00	5.58		10.35	18.92	83.84	86.68	23-Feb-17 20:00:00		10.35	18.92	83.84	92.26
23-Feb-17 21:00:00	23-Feb-17 22:00:00		0.00	0.00	0.00	8.44	2.1	329.7		0.00	0.00	0.00	2.78		10.35	18.92	83.84	86.68	23-Feb-17 21:00:00		10.35	18.92	83.84	89.46
23-Feb-17 22:00:00	23-Feb-17 23:00:00		0.00	0.00	0.00	35.48	2.1	329.7		0.00	0.00	0.00	11.70		10.35	18.92	83.84	86.68	23-Feb-17 22:00:00		10.35	18.92	83.84	98.38
23-Feb-17 23:00:00	24-Feb-17 00:00:00		0.00	0.00	0.00	21.56	2.1	329.7		0.00	0.00	0.00	7.11		10.35	18.92	83.84	86.68	23-Feb-17 23:00:00		10.35	18.92	83.84	93.79
24-Feb-17 00:00:00	24-Feb-17 01:00:00		0.00	0.00	0.00	6.17	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	24-Feb-17 00:00:00		10.35	18.92	83.84	88.71
24-Feb-17 01:00:00	24-Feb-17 02:00:00		0.00	0.00	0.00	6.24	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	24-Feb-17 01:00:00		10.35	18.92	83.84	88.74
24-Feb-17 02:00:00	24-Feb-17 03:00:00		0.00	0.00	0.00	6.30	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	24-Feb-17 02:00:00		10.35	18.92	83.84	88.76
24-Feb-17 03:00:00	24-Feb-17 04:00:00		0.00	0.00	0.00	6.34	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	24-Feb-17 03:00:00		10.35	18.92	83.84	88.77
24-Feb-17 04:00:00	24-Feb-17 05:00:00		0.00	0.00	0.00	6.34	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	24-Feb-17 04:00:00		10.35	18.92	83.84	88.77
24-Feb-17 05:00:00	24-Feb-17 06:00:00		0.00	0.00	0.00	19.08	2.1	329.7		0.00	0.00	0.00	6.29		10.35	18.92	83.84	86.68	24-Feb-17 05:00:00		10.35	18.92	83.84	92.97
24-Feb-17 06:00:00	24-Feb-17 07:00:00		0.00	0.00	0.00	10.82	2.1	329.7		0.00	0.00	0.00	3.57		10.35	18.92	83.84	86.68	24-Feb-17 06:00:00		10.35	18.92	83.84	90.25
24-Feb-17 07:00:00	24-Feb-17 08:00:00		0.00	0.00	0.00	6.25	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	24-Feb-17 07:00:00		10.35	18.92	83.84	88.74
24-Feb-17 08:00:00	24-Feb-17 09:00:00		0.00	0.00	0.00	15.59	2.1	329.7		0.00	0.00	0.00	5.14		10.35	18.92	83.84	86.68	24-Feb-17 08:00:00		10.35	18.92	83.84	91.82
24-Feb-17 09:00:00	24-Feb-17 10:00:00		0.00	0.00	0.00	5.83	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	24-Feb-17 09:00:00		10.35	18.92	83.84	88.60
24-Feb-17 10:00:00	24-Feb-17 11:00:00		0.00	0.00	0.00	5.39	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	24-Feb-17 10:00:00		10.35	18.92	83.84	88.46
24-Feb-17 11:00:00	24-Feb-17 12:00:00		0.00	0.00	0.00	4.95	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	24-Feb-17 11:00:00		10.35	18.92	83.84	88.31
24-Feb-17 12:00:00	24-Feb-17 13:00:00		0.00	0.00	0.00	4.61	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	24-Feb-17 12:00:00		10.35	18.92	83.84	88.20
24-Feb-17 13:00:00	24-Feb-17 14:00:00		0.00	0.00	0.00	101.08	2.1	329.7		0.00	0.00	0.00	33.33		10.35	18.92	83.84	86.68	24-Feb-17 13:00:00		10.35	18.92	83.84	120.01
24-Feb-17 14:00:00	24-Feb-17 15:00:00		0.00	0.00	0.00	4.67	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	24-Feb-17 14:00:00		10.35	18.92	83.84	88.22
24-Feb-17 15:00:00	24-Feb-17 16:00:00		0.00	0.00	0.00	45.81	2.1	329.7		0.00	0.00	0.00	15.10		10.35	18.92	83.84	86.68	24-Feb-17 15:00:00		10.35	18.92	83.84	101.78
24-Feb-17 16:00:00	24-Feb-17 17:00:00		0.00	0.00	0.00	99.12	2.1	329.7		0.00	0.00	0.00	32.68		10.35	18.92	83.84	86.68	24-Feb-17 16:00:00		10.35	18.92	83.84	119.36
24-Feb-17 17:00:00	24-Feb-17 18:00:00		0.00	0.00	0.00	18.84	2.1	329.7		0.00	0.00	0.00	6.21		10.35	18.92	83.84	86.68	24-Feb-17 17:00:00		10.35	18.92	83.84	92.89
24-Feb-17 18:00:00	24-Feb-17 19:00:00		0.00	0.00	0.00	4.85	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	24-Feb-17 18:00:00		10.35	18.92	83.84	88.28
24-Feb-17 19:00:00	24-Feb-17 20:00:00		0.00	0.00	0.00	5.03	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	24-Feb-17 19:00:00		10.35	18.92	83.84	88.34
24-Feb-17 20:00:00	24-Feb-17 21:00:00		0.00	0.00	0.00	5.21	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	24-Feb-17 20:00:00		10.35	18.92	83.84	88.40
24-Feb-17 21:00:00	24-Feb-17 22:00:00		0.00	0.00	0.00	5.34	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	24-Feb-17 21:00:00		10.35	18.92	83.84	88.44
24-Feb-17 22:00:00	24-Feb-17 23:00:00		0.00	0.00	0.00	5.43	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	24-Feb-17 22:00:00		10.35	18.92	83.84	88.47
24-Feb-17 23:00:00	25-Feb-17 00:00:00		0.00	0.00	0.00	5.52	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	24-Feb-17 23:00:00		10.35	18.92	83.84	88.50
25-Feb-17 00:00:00	25-Feb-17 01:00:00		0.00	0.00	0.00	5.62	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	25-Feb-17 00:00:00		10.35	18.92	83.84	88.53
25-Feb-17 01:00:00	25-Feb-17 02:00:00		0.00	0.00	0.00	5.70	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	25-Feb-17 01:00:00		10.35	18.92	83.84	88.56
25-Feb-17 02:00:00	25-Feb-17 03:00:00		0.00	0.00	0.00	5.74	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	25-Feb-17 02:00:00		10.35	18.92	83.84	88.57
25-Feb-17 03:00:00	25-Feb-17 04:00:00		0.00	0.00	0.00	5.77	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	25-Feb-17 03:00:00		10.35	18.92	83.84	88.58
25-Feb-17 04:00:00	25-Feb-17 05:00:00		0.00	0.00	0.00	5.81	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	25-Feb-17 04:00:00		10.35	18.92	83.84	88.60
25-Feb-17 05:00:00	25-Feb-17 06:00:00		0.00	0.00	0.00	13.83	2.1	329.7		0.00	0.00	0.00	4.56		10.35	18.92	83.84	86.68	25-Feb-17 05:00:00		10.35	18.92	83.84	91.24
25-Feb-17 06:00:00	25-Feb-17 07:00:00		0.00	0.00	0.00	5.86	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	25-Feb-17 06:00:00		10.35	18.92	83.84	88.61
25-Feb-17 07:00:00	25-Feb-17 08:00:00		0.00	0.00	0.00	25.70	2.1	329.7		0.00	0.00	0.00	8.47		10.35	18.92	83.84	86.68	25-Feb-17 07:00:00		10.35	18.92	83.84	95.15
25-Feb-17 08:00:00	25-Feb-17 09:00:00		0.00	0.00	0.00	5.84	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	25-Feb-17 08:00:00		10.35	18.92	83.84	88.60
25-Feb-17 09:00:00	25-Feb-17 10:00:00		0.00	0.00	0.00	5.88	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	25-Feb-17 09:00:00		10.35	18.92	83.84	88.62
25-Feb-17 10:00:00	25-Feb-17 11:00:00		0.00	0.00	0.00	5.74	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	25-Feb-17 10:00:00		10.35	18.92	83.84	88.57
25-Feb-17 11:00:00	25-Feb-17 12:00:00		0.00	0.00	0.00	5.71	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	25-Feb-17 11:00:00		10.35	18.92	83.84	88.56
25-Feb-17 12:00:00	25-Feb-17 13:00:00		0.00	0.00	0.00	5.68	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	25-Feb-17 12:00:00		10.35	18.92	83.84	88.55
25-Feb-17 13:00:00	25-Feb-17 14:00:00		0.00	0.00	0.00	29.99	2.1	329.7		0.00	0.00	0.00	9.89		10.35	18.92	83.84	86.68	25-Feb-17 13:00:00		10.35	18.92	83.84	96.57
25-Feb-17 14:00:00	25-Feb-17 15:00:00		0.00	0.00	0.00	36.87	2.1	329.7		0.00	0.00	0.00	12.16		10.35	18.92	83.84	86.68	25-Feb-17 14:00:00		10.35	18.92	83.84	98.84
25-Feb-17 15:00:00	25-Feb-17 16:00:00		0.00	0.00	0.00	5.54	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	25-Feb-17 15:00:00		10.35	18.92	83.84	88.51
25-Feb-17 16:00:00	25-Feb-17 17:00:00		0.00	0.00	0.00	18.50	2.1	329.7		0.00	0.00	0.00	6.10		10.35	18.92	83.84	86.68	25-Feb-17 16:00:00		10.35	18.92	83.84	92.78
25-Feb-17 17:00:00	25-Feb-17 18:00:00		0.00	0.00	0.00	6.09	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	25-Feb-17 17:00:00		10.35	18.92	83.84	88.69
25-Feb-17 18:00:00	25-Feb-17 19:00:00		0.00	0.00	0.00	36.87	2.1	329.7		0.00	0.00	0.00	12.16		10.35	18.92	83.84	86.68	25-Feb-17 18:00:00		10.35	18.92	83.84	98.84
25-Feb-17 19:00:00	25-Feb-17 20:00:00		0.00	0.00	0.00	6.36	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	25-Feb-17 19:00:00		10.35	18.92	83.84	88.78
25-Feb-17 20:00:00	25-Feb-17 21:00:00		0.00	0.00	0.00	6.38	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	25-Feb-17 20:00:00		10.35	18.92	83.84	88.78
25-Feb-17 21:00:00	25-Feb-17 22:00:00		0.00	0.00	0.00	6.40	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	25-Feb-17 21:00:00		10.35	18.92	83.84	88.79
25-Feb-17 22:00:00	25-Feb-17 23:00:00		0.00	0.00	0.00	6.44	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	25-Feb-17 22:00:00		10.35	18.92	83.84	88.80
25-Feb-17 23:00:00	26-Feb-17 00:00:00		0.00	0.00	0.00	6.64	2.1	329.7		0.00	0.00	0.00	2.19		10.35	18.92	83.84	86.68	25-Feb-17 23:00:00		10.35	18.92	83.84	88.87
26-Feb-17 00:00:00	26-Feb-17 01:00:00		0.00	0.00	0.00	6.81	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	26-Feb-17 00:00:00		10.35	18.92	83.84	88.92
26-Feb-17 01:00:00	26-Feb-17 02:00:00		0.00	0.00	0.00	6.98	2.1	329.7		0.00	0.00	0.00	2.30		10.35	18.92	83.84	86.68	26-Feb-17 01:00:00		10.35	18.92	83.84	88.98
26-Feb-17 02:00:00	26-Feb-17 03:00:00		0.00	0.00	0.00	7.15	2.1	329.7		0.00	0.00	0.00	2.36		10.35	18.92	83.84	86.68	26-Feb-17 02:00:00		10.35	18.92	83.84	89.04
26-Feb-17 03:00:00	26-Feb-17 04:00:00		0.00	0.00	0.00	20.32	2.1	329.7		0.00	0.00	0.00	6.70		10.35	18.92	83.84	86.68	26-Feb-17 03:00:00		10.35	18.92	83.84	93.38
26-Feb-17 04:00:00	26-Feb-17 05:00:00		0.00	0.00	0.00	7.48	2.1	329.7		0.00	0.00	0.00	2.47		10.35	18.92	83.84	86.68	26-Feb-17 04:00:00		10.35	18.92	83.84	89.15
26-Feb-17 05:00:00	26-Feb-17 06:00:00		0.00	0.00	0.00	41.07	2.1	329.7		0.00	0.00	0.00	13.54		10.35	18.92	83.84	86.68	26-Feb-17 05:00:00		10.35	18.92	83.84	100.22
26-Feb-17 06:00:00	26-Feb-17 07:00:00		0.00	0.00	0.00	14.26	2.1	329.7		0.00	0.00	0.00	4.70		10.35	18.92	83.84	86.68	26-Feb-17 06:00:00		10.35	18.92	83.84	91.38
26-Feb-17 07:00:00	26-Feb-17 08:00:00		0.00	0.00	0.00	7.32	2.1	329.7		0.00	0.00	0.00	2.41		10.35	18.92	83.84	86.68	26-Feb-17 07:00:00		10.35	18.92	83.84	89.09
26-Feb-17 08:00:00	26-Feb-17 09:00:00		0.00	0.00	0.00	7.04	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	26-Feb-17 08:00:00		10.35	18.92	83.84	89.00
26-Feb-17 09:00:00	26-Feb-17 10:00:00		0.00	0.00	0.00	6.76	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	26-Feb-17 09:00:00		10.35	18.92	83.84	88.91
26-Feb-17 10:00:00	26-Feb-17 11:00:00		0.00	0.00	0.00	6.48	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	26-Feb-17 10:00:00		10.35	18.92	83.84	88.82
26-Feb-17 11:00:00	26-Feb-17 12:00:00		0.00	0.00	0.00	6.33	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	26-Feb-17 11:00:00		10.35	18.92	83.84	88.77
26-Feb-17 12:00:00	26-Feb-17 13:00:00		0.00	0.00	0.00	6.27	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	26-Feb-17 12:00:00		10.35	18.92	83.84	88.75
26-Feb-17 13:00:00	26-Feb-17 14:00:00		0.00	0.00	0.00	6.21	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	26-Feb-17 13:00:00		10.35	18.92	83.84	88.73
26-Feb-17 14:00:00	26-Feb-17 15:00:00		0.00	0.00	0.00	6.14	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	26-Feb-17 14:00:00		10.35	18.92	83.84	88.71
26-Feb-17 15:00:00	26-Feb-17 16:00:00		0.00	0.00	0.00	5.90	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	26-Feb-17 15:00:00		10.35	18.92	83.84	88.62
26-Feb-17 16:00:00	26-Feb-17 17:00:00		443.74	0.00	0.00	5.82	2.1	329.7		146.30	0.00	0.00	1.92		10.35	18.92	83.84	86.68	26-Feb-17 16:00:00		156.65	18.92	83.84	88.60
26-Feb-17 17:00:00	26-Feb-17 18:00:00		756.63	0.00	0.00	5.74	2.1	329.7		249.46	0.00	0.00	1.89		10.35	18.92	83.84	86.68	26-Feb-17 17:00:00		259.81	18.92	83.84	88.57
26-Feb-17 18:00:00	26-Feb-17 19:00:00		773.08	0.00	0.00	5.66	2.1	329.7		254.88	0.00	0.00	1.87		10.35	18.92	83.84	86.68	26-Feb-17 18:00:00		265.23	18.92	83.84	88.55
26-Feb-17 19:00:00	26-Feb-17 20:00:00		1,200.04	137.91	0.00	79.16	2.1	329.7		395.65	45.47	0.00	26.10		10.35	18.92	83.84	86.68	26-Feb-17 19:00:00		406.00	64.39	83.84	112.78
26-Feb-17 20:00:00	26-Feb-17 21:00:00		1,601.07	305.34	0.00	6.25	2.1	329.7		527.87	100.67	0.00	2.06		10.35	18.92	83.84	86.68	26-Feb-17 20:00:00		538.22	119.59	83.84	88.74
26-Feb-17 21:00:00	26-Feb-17 22:00:00		1,523.42	306.85	0.00	6.63	2.1	329.7		502.27	101.17	0.00	2.19		10.35	18.92	83.84	86.68	26-Feb-17 21:00:00		512.62	120.09	83.84	88.87
26-Feb-17 22:00:00	26-Feb-17 23:00:00		1,491.00	306.60	0.00	7.01	2.1	329.7		491.58	100.76	0.00	2.31		10.35	18.92	83.84	86.68	26-Feb-17 22:00:00		501.93	119.68	83.84	88.99
26-Feb-17 23:00:00	27-Feb-17 00:00:00		1,473.40	310.35	0.00	7.29	2.1	329.7		485.78	102.32	0.00	2.40		10.35	18.92	83.84	86.68	26-Feb-17 23:00:00		496.13	121.24	83.84	89.08
27-Feb-17 00:00:00	27-Feb-17 01:00:00		1,520.30	309.74	0.00	7.34	2.1	329.7		501.24	102.12	0.00	2.42		10.35	18.92	83.84	86.68	27-Feb-17 00:00:00		511.59	121.04	83.84	89.10
27-Feb-17 01:00:00	27-Feb-17 02:00:00		1,529.69	308.74	0.00	7.39	2.1	329.7		504.34	101.79	0.00	2.44		10.35	18.92	83.84	86.68	27-Feb-17 01:00:00		514.69	120.71	83.84	89.12
27-Feb-17 02:00:00	27-Feb-17 03:00:00		1,533.96	309.17	0.00	7.43	2.1	329.7		505.75	101.93	0.00	2.45		10.35	18.92	83.84	86.68	27-Feb-17 02:00:00		516.10	120.85	83.84	89.13
27-Feb-17 03:00:00	27-Feb-17 04:00:00		1,512.45	309.46	0.00	7.48	2.1	329.7		498.65	102.03	0.00	2.47		10.35	18.92	83.84	86.68	27-Feb-17 03:00:00		509.00	120.95	83.84	89.15
27-Feb-17 04:00:00	27-Feb-17 05:00:00		1,491.53	310.29	0.00	7.46	2.1	329.7		491.76	102.30	0.00	2.46		10.35	18.92	83.84	86.68	27-Feb-17 04:00:00		502.11	121.22	83.84	89.14
27-Feb-17 05:00:00	27-Feb-17 06:00:00		1,489.11	309.16	0.00	7.42	2.1	329.7		490.96	101.93	0.00	2.45		10.35	18.92	83.84	86.68	27-Feb-17 05:00:00		501.31	120.85	83.84	89.13
27-Feb-17 06:00:00	27-Feb-17 07:00:00		1,494.69	309.04	0.00	7.39	2.1	329.7		492.80	101.89	0.00	2.43		10.35	18.92	83.84	86.68	27-Feb-17 06:00:00		503.15	120.81	83.84	89.11
27-Feb-17 07:00:00	27-Feb-17 08:00:00		1,510.87	308.15	0.00	7.27	2.1	329.7		498.13	101.60	0.00	2.40		10.35	18.92	83.84	86.68	27-Feb-17 07:00:00		508.48	120.52	83.84	89.08
27-Feb-17 08:00:00	27-Feb-17 09:00:00		1,505.68	308.39	0.00	6.91	2.1	329.7		496.42	101.68	0.00	2.28		10.35	18.92	83.84	86.68	27-Feb-17 08:00:00		506.77	120.60	83.84	88.96
27-Feb-17 09:00:00	27-Feb-17 10:00:00		1,490.62	308.05	0.00	6.55	2.1	329.7		491.46	101.56	0.00	2.16		10.35	18.92	83.84	86.68	27-Feb-17 09:00:00		501.81	120.48	83.84	88.84
27-Feb-17 10:00:00	27-Feb-17 11:00:00		1,483.88	721.24	0.00	6.19	2.1	329.7		489.24	237.79	0.00	2.04		10.35	18.92	83.84	86.68	27-Feb-17 10:00:00		499.59	256.71	83.84	88.72
27-Feb-17 11:00:00	27-Feb-17 12:00:00		1,464.84	859.16	0.00	5.88	2.1	329.7		482.96	283.26	0.00	1.94		10.35	18.92	83.84	86.68	27-Feb-17 11:00:00		493.31	302.18	83.84	88.62
27-Feb-17 12:00:00	27-Feb-

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
01-Mar-17 14:00:00	01-Mar-17 15:00:00		1,065.49	923.76	0.00	5.35	2.1	329.7		351.29	304.57	0.00	1.76		10.35	18.92	83.84	86.68	01-Mar-17 14:00:00		361.64	323.49	83.84	88.44
01-Mar-17 15:00:00	01-Mar-17 16:00:00		1,079.77	925.31	0.00	5.18	2.1	329.7		356.00	305.08	0.00	1.71		10.35	18.92	83.84	86.68	01-Mar-17 15:00:00		366.35	324.00	83.84	88.39
01-Mar-17 16:00:00	01-Mar-17 17:00:00		1,076.97	924.14	0.00	5.10	2.1	329.7		355.08	304.69	0.00	1.68		10.35	18.92	83.84	86.68	01-Mar-17 16:00:00		365.43	323.61	83.84	88.36
01-Mar-17 17:00:00	01-Mar-17 18:00:00		1,078.58	926.59	0.00	5.02	2.1	329.7		355.61	305.50	0.00	1.66		10.35	18.92	83.84	86.68	01-Mar-17 17:00:00		365.96	324.42	83.84	88.34
01-Mar-17 18:00:00	01-Mar-17 19:00:00		1,074.55	925.79	0.00	4.94	2.1	329.7		354.28	305.23	0.00	1.63		10.35	18.92	83.84	86.68	01-Mar-17 18:00:00		364.63	324.15	83.84	88.31
01-Mar-17 19:00:00	01-Mar-17 20:00:00		1,075.27	925.64	0.00	4.81	2.1	329.7		354.52	305.18	0.00	1.58		10.35	18.92	83.84	86.68	01-Mar-17 19:00:00		364.87	324.10	83.84	88.26
01-Mar-17 20:00:00	01-Mar-17 21:00:00		1,081.24	925.95	0.00	5.10	2.1	329.7		356.49	305.29	0.00	1.68		10.35	18.92	83.84	86.68	01-Mar-17 20:00:00		366.84	324.21	83.84	88.36
01-Mar-17 21:00:00	01-Mar-17 22:00:00		1,080.75	925.66	0.00	5.53	2.1	329.7		356.32	305.19	0.00	1.82		10.35	18.92	83.84	86.68	01-Mar-17 21:00:00		366.67	324.11	83.84	88.50
01-Mar-17 22:00:00	01-Mar-17 23:00:00		1,069.44	925.68	0.00	5.96	2.1	329.7		352.59	305.20	0.00	1.97		10.35	18.92	83.84	86.68	01-Mar-17 22:00:00		362.94	324.12	83.84	88.65
01-Mar-17 23:00:00	02-Mar-17 00:00:00		1,075.58	924.51	0.00	6.32	2.1	329.7		354.62	304.81	0.00	2.08		10.35	18.92	83.84	86.68	01-Mar-17 23:00:00		364.97	323.73	83.84	88.76
02-Mar-17 00:00:00	02-Mar-17 01:00:00		1,089.11	922.87	0.00	6.30	2.1	329.7		359.08	304.27	0.00	2.08		10.35	18.92	83.84	86.68	02-Mar-17 00:00:00		369.43	323.19	83.84	88.76
02-Mar-17 01:00:00	02-Mar-17 02:00:00		1,282.09	923.99	0.00	6.24	2.1	329.7		422.70	304.64	0.00	2.06		10.35	18.92	83.84	86.68	02-Mar-17 01:00:00		433.05	323.56	83.84	88.74
02-Mar-17 02:00:00	02-Mar-17 03:00:00		1,522.90	924.20	0.00	6.17	2.1	329.7		502.10	304.71	0.00	2.03		10.35	18.92	83.84	86.68	02-Mar-17 02:00:00		512.45	323.63	83.84	88.71
02-Mar-17 03:00:00	02-Mar-17 04:00:00		1,614.81	924.33	0.00	6.17	2.1	329.7		532.40	304.75	0.00	2.03		10.35	18.92	83.84	86.68	02-Mar-17 03:00:00		542.75	323.67	83.84	88.71
02-Mar-17 04:00:00	02-Mar-17 05:00:00		1,772.22	924.95	0.00	6.26	2.1	329.7		584.30	304.95	0.00	2.06		10.35	18.92	83.84	86.68	02-Mar-17 04:00:00		594.65	323.87	83.84	88.74
02-Mar-17 05:00:00	02-Mar-17 06:00:00		1,559.80	1,221.21	0.00	6.34	2.1	329.7		514.27	402.63	0.00	2.09		10.35	18.92	83.84	86.68	02-Mar-17 05:00:00		524.62	421.55	83.84	88.77
02-Mar-17 06:00:00	02-Mar-17 07:00:00		1,453.22	1,609.37	0.00	6.42	2.1	329.7		479.13	530.61	0.00	2.12		10.35	18.92	83.84	86.68	02-Mar-17 06:00:00		489.48	549.53	83.84	88.80
02-Mar-17 07:00:00	02-Mar-17 08:00:00		1,504.25	1,601.94	0.00	6.49	2.1	329.7		495.95	528.16	0.00	2.14		10.35	18.92	83.84	86.68	02-Mar-17 07:00:00		506.30	547.08	83.84	88.82
02-Mar-17 08:00:00	02-Mar-17 09:00:00		1,536.50	1,603.08	0.00	6.49	2.1	329.7		506.59	528.53	0.00	2.14		10.35	18.92	83.84	86.68	02-Mar-17 08:00:00		516.94	547.45	83.84	88.82
02-Mar-17 09:00:00	02-Mar-17 10:00:00		1,951.62	1,717.19	0.00	6.48	2.1	329.7		643.45	566.16	0.00	2.14		10.35	18.92	83.84	86.68	02-Mar-17 09:00:00		653.80	585.08	83.84	88.82
02-Mar-17 10:00:00	02-Mar-17 11:00:00		2,031.59	1,780.50	0.00	6.48	2.1	329.7		669.82	587.03	0.00	2.14		10.35	18.92	83.84	86.68	02-Mar-17 10:00:00		680.17	605.95	83.84	88.82
02-Mar-17 11:00:00	02-Mar-17 12:00:00		2,035.53	1,774.86	0.00	6.38	2.1	329.7		671.11	585.17	0.00	2.10		10.35	18.92	83.84	86.68	02-Mar-17 11:00:00		681.46	604.09	83.84	88.78
02-Mar-17 12:00:00	02-Mar-17 13:00:00		2,027.15	1,779.51	0.00	6.21	2.1	329.7		668.35	586.70	0.00	2.05		10.35	18.92	83.84	86.68	02-Mar-17 12:00:00		678.70	605.62	83.84	88.73
02-Mar-17 13:00:00	02-Mar-17 14:00:00		1,333.91	1,797.47	0.00	6.08	2.1	329.7		439.79	592.63	0.00	2.01		10.35	18.92	83.84	86.68	02-Mar-17 13:00:00		450.14	611.55	83.84	88.69
02-Mar-17 14:00:00	02-Mar-17 15:00:00		913.73	1,796.85	0.00	5.96	2.1	329.7		301.26	592.42	0.00	1.96		10.35	18.92	83.84	86.68	02-Mar-17 14:00:00		311.61	611.34	83.84	88.64
02-Mar-17 15:00:00	02-Mar-17 16:00:00		1,254.41	1,796.47	0.00	84.03	2.1	329.7		413.58	592.30	0.00	27.71		10.35	18.92	83.84	86.68	02-Mar-17 15:00:00		423.93	611.22	83.84	114.39
02-Mar-17 16:00:00	02-Mar-17 17:00:00		97.42	1,789.60	0.00	5.99	2.1	329.7		32.12	590.03	0.00	1.97		10.35	18.92	83.84	86.68	02-Mar-17 16:00:00		42.47	608.95	83.84	88.65
02-Mar-17 17:00:00	02-Mar-17 18:00:00		0.00	1,785.15	0.00	6.24	2.1	329.7		0.00	588.56	0.00	2.06		10.35	18.92	83.84	86.68	02-Mar-17 17:00:00		10.35	607.48	83.84	88.74
02-Mar-17 18:00:00	02-Mar-17 19:00:00		0.00	1,441.32	0.00	70.62	2.1	329.7		0.00	475.20	0.00	23.28		10.35	18.92	83.84	86.68	02-Mar-17 18:00:00		10.35	494.12	83.84	109.96
02-Mar-17 19:00:00	02-Mar-17 20:00:00		0.00	1,325.06	0.00	5.84	2.1	329.7		0.00	436.87	0.00	1.93		10.35	18.92	83.84	86.68	02-Mar-17 19:00:00		10.35	455.79	83.84	88.61
02-Mar-17 20:00:00	02-Mar-17 21:00:00		0.00	1,243.25	0.00	18.42	2.1	329.7		0.00	409.90	0.00	6.07		10.35	18.92	83.84	86.68	02-Mar-17 20:00:00		10.35	428.82	83.84	92.75
02-Mar-17 21:00:00	02-Mar-17 22:00:00		0.00	1,097.45	0.00	6.42	2.1	329.7		0.00	361.83	0.00	2.12		10.35	18.92	83.84	86.68	02-Mar-17 21:00:00		10.35	380.75	83.84	88.80
02-Mar-17 22:00:00	02-Mar-17 23:00:00		0.00	577.83	0.00	27.68	2.1	329.7		0.00	190.51	0.00	9.13		10.35	18.92	83.84	86.68	02-Mar-17 22:00:00		10.35	209.43	83.84	95.81
02-Mar-17 23:00:00	03-Mar-17 00:00:00		0.00	269.11	0.00	7.02	2.1	329.7		0.00	88.73	0.00	2.31		10.35	18.92	83.84	86.68	02-Mar-17 23:00:00		10.35	107.65	83.84	88.99
03-Mar-17 00:00:00	03-Mar-17 01:00:00		0.00	0.00	0.00	7.31	2.1	329.7		0.00	0.00	0.00	2.41		10.35	18.92	83.84	86.68	03-Mar-17 00:00:00		10.35	18.92	83.84	89.09
03-Mar-17 01:00:00	03-Mar-17 02:00:00		0.00	0.00	0.00	6.92	2.1	329.7		0.00	0.00	0.00	2.28		10.35	18.92	83.84	86.68	03-Mar-17 01:00:00		10.35	18.92	83.84	88.96
03-Mar-17 02:00:00	03-Mar-17 03:00:00		0.00	0.00	0.00	115.98	2.1	329.7		0.00	0.00	0.00	38.24		10.35	18.92	83.84	86.68	03-Mar-17 02:00:00		10.35	18.92	83.84	124.92
03-Mar-17 03:00:00	03-Mar-17 04:00:00		0.00	0.00	0.00	6.97	2.1	329.7		0.00	0.00	0.00	2.30		10.35	18.92	83.84	86.68	03-Mar-17 03:00:00		10.35	18.92	83.84	88.98
03-Mar-17 04:00:00	03-Mar-17 05:00:00		0.00	0.00	0.00	20.03	2.1	329.7		0.00	0.00	0.00	6.60		10.35	18.92	83.84	86.68	03-Mar-17 04:00:00		10.35	18.92	83.84	93.28
03-Mar-17 05:00:00	03-Mar-17 06:00:00		0.00	4.68	0.00	110.75	2.1	329.7		0.00	1.54	0.00	36.51		10.35	18.92	83.84	86.68	03-Mar-17 05:00:00		10.35	20.46	83.84	123.19
03-Mar-17 06:00:00	03-Mar-17 07:00:00		0.00	5.87	0.00	9.94	2.1	329.7		0.00	1.94	0.00	3.28		10.35	18.92	83.84	86.68	03-Mar-17 06:00:00		10.35	20.86	83.84	89.96
03-Mar-17 07:00:00	03-Mar-17 08:00:00		0.00	11.33	0.00	7.36	2.1	329.7		0.00	3.73	0.00	2.43		10.35	18.92	83.84	86.68	03-Mar-17 07:00:00		10.35	22.65	83.84	89.11
03-Mar-17 08:00:00	03-Mar-17 09:00:00		0.00	8.02	0.00	7.27	2.1	329.7		0.00	2.64	0.00	2.40		10.35	18.92	83.84	86.68	03-Mar-17 08:00:00		10.35	21.56	83.84	89.08
03-Mar-17 09:00:00	03-Mar-17 10:00:00		0.00	9.68	0.00	7.17	2.1	329.7		0.00	3.19	0.00	2.36		10.35	18.92	83.84	86.68	03-Mar-17 09:00:00		10.35	22.11	83.84	89.04
03-Mar-17 10:00:00	03-Mar-17 11:00:00		0.00	8.06	0.00	64.28	2.1	329.7		0.00	2.66	0.00	21.19		10.35	18.92	83.84	86.68	03-Mar-17 10:00:00		10.35	21.58	83.84	107.87
03-Mar-17 11:00:00	03-Mar-17 12:00:00		0.00	14.17	0.00	11.24	2.1	329.7		0.00	4.67	0.00	3.70		10.35	18.92	83.84	86.68	03-Mar-17 11:00:00		10.35	23.59	83.84	90.38
03-Mar-17 12:00:00	03-Mar-17 13:00:00		0.00	0.00	0.00	6.67	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	03-Mar-17 12:00:00		10.35	18.92	83.84	88.88
03-Mar-17 13:00:00	03-Mar-17 14:00:00		0.00	2.94	0.00	6.51	2.1	329.7		0.00	0.97	0.00	2.14		10.35	18.92	83.84	86.68	03-Mar-17 13:00:00		10.35	19.89	83.84	88.82
03-Mar-17 14:00:00	03-Mar-17 15:00:00		0.00	3.15	0.00	45.18	2.1	329.7		0.00	1.04	0.00	14.90		10.35	18.92	83.84	86.68	03-Mar-17 14:00:00		10.35	19.96	83.84	101.58
03-Mar-17 15:00:00	03-Mar-17 16:00:00		0.00	2.77	0.00	11.22	2.1	329.7		0.00	0.91	0.00	3.70		10.35	18.92	83.84	86.68	03-Mar-17 15:00:00		10.35	19.83	83.84	90.38
03-Mar-17 16:00:00	03-Mar-17 17:00:00		0.00	10.15	0.00	5.95	2.1	329.7		0.00	3.35	0.00	1.96		10.35	18.92	83.84	86.68	03-Mar-17 16:00:00		10.35	22.27	83.84	88.64
03-Mar-17 17:00:00	03-Mar-17 18:00:00		0.00	0.00	0.00	11.74	2.1	329.7		0.00	0.00	0.00	3.87		10.35	18.92	83.84	86.68	03-Mar-17 17:00:00		10.35	18.92	83.84	90.55
03-Mar-17 18:00:00	03-Mar-17 19:00:00		0.00	0.00	0.00	8.11	2.1	329.7		0.00	0.00	0.00	2.67		10.35	18.92	83.84	86.68	03-Mar-17 18:00:00		10.35	18.92	83.84	89.35
03-Mar-17 19:00:00	03-Mar-17 20:00:00		0.00	0.00	0.00	37.08	2.1	329.7		0.00	0.00	0.00	12.23		10.35	18.92	83.84	86.68	03-Mar-17 19:00:00		10.35	18.92	83.84	98.91
03-Mar-17 20:00:00	03-Mar-17 21:00:00		0.00	0.00	0.00	6.33	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	03-Mar-17 20:00:00		10.35	18.92	83.84	88.77
03-Mar-17 21:00:00	03-Mar-17 22:00:00		2.26	0.00	0.00	60.36	2.1	329.7		0.74	0.00	0.00	19.90		10.35	18.92	83.84	86.68	03-Mar-17 21:00:00		11.09	18.92	83.84	106.58
03-Mar-17 22:00:00	03-Mar-17 23:00:00		0.39	0.00	0.00	6.80	2.1	329.7		0.13	0.00	0.00	2.24		10.35	18.92	83.84	86.68	03-Mar-17 22:00:00		10.48	18.92	83.84	88.92
03-Mar-17 23:00:00	04-Mar-17 00:00:00		0.00	0.00	0.00	10.25	2.1	329.7		0.00	0.00	0.00	3.38		10.35	18.92	83.84	86.68	03-Mar-17 23:00:00		10.35	18.92	83.84	90.06
04-Mar-17 00:00:00	04-Mar-17 01:00:00		5.92	0.00	0.00	11.63	2.1	329.7		1.95	0.00	0.00	3.83		10.35	18.92	83.84	86.68	04-Mar-17 00:00:00		12.30	18.92	83.84	90.51
04-Mar-17 01:00:00	04-Mar-17 02:00:00		29.32	0.00	0.00	12.00	2.1	329.7		9.67	0.00	0.00	3.96		10.35	18.92	83.84	86.68	04-Mar-17 01:00:00		20.02	18.92	83.84	90.64
04-Mar-17 02:00:00	04-Mar-17 03:00:00		12.88	0.00	0.00	159.81	2.1	329.7		4.25	0.00	0.00	52.69		10.35	18.92	83.84	86.68	04-Mar-17 02:00:00		14.60	18.92	83.84	139.37
04-Mar-17 03:00:00	04-Mar-17 04:00:00		35.37	0.00	0.00	12.83	2.1	329.7		11.66	0.00	0.00	4.23		10.35	18.92	83.84	86.68	04-Mar-17 03:00:00		22.01	18.92	83.84	90.91
04-Mar-17 04:00:00	04-Mar-17 05:00:00		51.49	0.00	0.00	7.46	2.1	329.7		16.98	0.00	0.00	2.46		10.35	18.92	83.84	86.68	04-Mar-17 04:00:00		27.33	18.92	83.84	89.14
04-Mar-17 05:00:00	04-Mar-17 06:00:00		56.74	0.00	0.00	20.12	2.1	329.7		18.71	0.00	0.00	6.63		10.35	18.92	83.84	86.68	04-Mar-17 05:00:00		29.06	18.92	83.84	93.31
04-Mar-17 06:00:00	04-Mar-17 07:00:00		20.32	0.00	0.00	7.50	2.1	329.7		6.70	0.00	0.00	2.47		10.35	18.92	83.84	86.68	04-Mar-17 06:00:00		17.05	18.92	83.84	89.15
04-Mar-17 07:00:00	04-Mar-17 08:00:00		12.82	0.00	0.00	37.42	2.1	329.7		4.23	0.00	0.00	12.34		10.35	18.92	83.84	86.68	04-Mar-17 07:00:00		14.58	18.92	83.84	99.02
04-Mar-17 08:00:00	04-Mar-17 09:00:00		15.68	0.00	0.00	9.98	2.1	329.7		5.17	0.00	0.00	3.29		10.35	18.92	83.84	86.68	04-Mar-17 08:00:00		15.52	18.92	83.84	89.97
04-Mar-17 09:00:00	04-Mar-17 10:00:00		15.78	0.00	0.00	7.28	2.1	329.7		5.20	0.00	0.00	2.40		10.35	18.92	83.84	86.68	04-Mar-17 09:00:00		15.55	18.92	83.84	89.08
04-Mar-17 10:00:00	04-Mar-17 11:00:00		16.09	0.00	0.00	9.92	2.1	329.7		5.30	0.00	0.00	3.27		10.35	18.92	83.84	86.68	04-Mar-17 10:00:00		15.65	18.92	83.84	89.95
04-Mar-17 11:00:00	04-Mar-17 12:00:00		6.90	0.00	0.00	6.71	2.1	329.7		2.28	0.00	0.00	2.21		10.35	18.92	83.84	86.68	04-Mar-17 11:00:00		12.63	18.92	83.84	88.89
04-Mar-17 12:00:00	04-Mar-17 13:00:00		0.00	0.00	0.00	6.43	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	04-Mar-17 12:00:00		10.35	18.92	83.84	88.80
04-Mar-17 13:00:00	04-Mar-17 14:00:00		0.00	0.00	0.00	6.15	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	04-Mar-17 13:00:00		10.35	18.92	83.84	88.71
04-Mar-17 14:00:00	04-Mar-17 15:00:00		1.98	0.00	0.00	5.88	2.1	329.7		0.65	0.00	0.00	1.94		10.35	18.92	83.84	86.68	04-Mar-17 14:00:00		11.00	18.92	83.84	88.62
04-Mar-17 15:00:00	04-Mar-17 16:00:00		1.15	0.00	0.00	84.30	2.1	329.7		0.38	0.00	0.00	27.79		10.35	18.92	83.84	86.68	04-Mar-17 15:00:00		10.73	18.92	83.84	114.47
04-Mar-17 16:00:00	04-Mar-17 17:00:00		0.62	0.00	0.00	5.56	2.1	329.7		0.20	0.00	0.00	1.83		10.35	18.92	83.84	86.68	04-Mar-17 16:00:00		10.55	18.92	83.84	88.51
04-Mar-17 17:00:00	04-Mar-17 18:00:00		0.33	0.00	0.00	36.99	2.1	329.7		0.11	0.00	0.00	12.20		10.35	18.92	83.84	86.68	04-Mar-17 17:00:00		10.46	18.92	83.84	98.88
04-Mar-17 18:00:00	04-Mar-17 19:00:00		0.06	0.00	0.00	33.21	2.1	329.7		0.02	0.00	0.00	10.95		10.35	18.92	83.84	86.68	04-Mar-17 18:00:00		10.37	18.92	83.84	97.63
04-Mar-17 19:00:00	04-Mar-17 20:00:00		0.00	0.00	0.00	5.57	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	04-Mar-17 19:00:00		10.35	18.92	83.84	88.51
04-Mar-17 20:00:00	04-Mar-17 21:00:00		0.00	0.00	0.00	95.36	2.1	329.7		0.00	0.00	0.00	31.44		10.35	18.92	83.84	86.68	04-Mar-17 20:00:00		10.35	18.92	83.84	118.12
04-Mar-17 21:00:00	04-Mar-17 22:00:00		0.00	0.00	0.00	32.63	2.1	329.7		0.00	0.00	0.00	10.76		10.35	18.92	83.84	86.68	04-Mar-17 21:00:00		10.35	18.92	83.84	97.44
04-Mar-17 22:00:00	04-Mar-17 23:00:00		0.23	0.00	0.00	6.45	2.1	329.7		0.07	0.00	0.00	2.13		10.35	18.92	83.84	86.68	04-Mar-17 22:00:00		10.42	18.92	83.84	88.81
04-Mar-17 23:00:00	05-Mar-17 00:00:00		0.11	0.00	0.00	7.49	2.1	329.7		0.04	0.00	0.00	2.47		10.35	18.92	83.84	86.68	04-Mar-17 23:00:00		10.39	18.92	83.84	89.15
05-Mar-17 00:00:00	05-Mar-17 01:00:00		0.00	0.00	0.00	40.86	2.1	329.7		0.00	0.00	0.00	13.47		10.35	18.92	83.84	86.68	05-Mar-17 00:00:00		10.35	18.92	83.84	100.15
05-Mar-17 01:00:00	05-Mar-17 02:00:00		0.00	0.00	0.00	7.01	2.1	329.7		0.00	0.00	0.00	2.31		10.35	18.92	83.84	86.68	05-Mar-17 01:00:00		10.35	18.92	83.84	88.99
05-Mar-17 02:00:00	05-Mar-17 03:00:00		0.00	0.00	0.00	7.21	2.1	329.7		0.00	0.00	0.00	2.38		10.35	18.92	83.84	86.68	05-Mar-17 02:00:00		10.35	18.92	83.84	89.06
05-Mar-17 03:00:00	05-Mar-17 04:00:00		0.00	0.00	0.00	6.08	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	05-Mar-17 03:00:00		10.35	18.92	83.84	88.69
05-Mar-17 04:00:00	05-Mar-17 05:00:00		0.00	0.00	0.00	7.42	2.1	329.7		0.00	0.00	0.00	2.45		10.35	18.92	83.84	86.68	05-Mar-17 04:00:00		10.35	18.92	83.84	89.13
05-Mar-17 05:00:00	05-Mar-17 06:00:00		0.00	0.00	0.00	7.34	2.1	329.7		0.00	0.00	0.00	2.42		10.35	18.92	83.84	86.68	05-Mar-17 05:00:00		10.35	18.92	83.84	89.10
05-Mar-17 06:00:00	05-Mar-17 07:00:00		0.00	0.00	0.00	7.40	2.1	329.7		0.00	0.00	0.00	2.44		10.35	18.92	83.84	86.68	05-Mar-17 06:00:00		10.35	18.92	83.84	89.12
05-Mar-17 07:00:00	05-Mar-17 08:00:00		0.00	0.00	0.00	10.69	2.1	329.7		0.00	0.00	0.00	3.52		10.35	18.92	83.84	86.68	05-Mar-17 07:00:00		10.35	18.92	83.84	90.20
05-Mar-17 08:00:00	05-Mar-17 09:00:00		0.00	0.00	0.00	7.13	2.1	329.7		0.00	0.00	0.00	2.35		10.35	18.92	83.84	86.68	05-Mar-17 08:00:00		10.35	18.92	83.84	89.03
05-Mar-17 09:00:00	05-Mar-17 10:00:00		0.00	0.00	0.00	6.84	2.1	329.7		0.00	0.00	0.00	2.25		10.35	18.92	83.84	86.68	05-Mar-17 09:00:00		10.35	18.92	83.84	88.93
05-Mar-17 10:00:00	05-Mar-17 11:00:00		0.43	0.00	0.00	44.66	2.1	329.7		0.14	0.00	0.00	14.72		10.35	18.92	83.84	86.68	05-Mar-17 10:00:00

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
07-Mar-17 13:00:00	07-Mar-17 14:00:00		0.00	0.00	0.00	51.40	2.1	329.7		0.00	0.00	0.00	16.95		10.35	18.92	83.84	86.68	07-Mar-17 13:00:00		10.35	18.92	83.84	103.63
07-Mar-17 14:00:00	07-Mar-17 15:00:00		0.00	0.00	0.00	4.76	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	07-Mar-17 14:00:00		10.35	18.92	83.84	88.25
07-Mar-17 15:00:00	07-Mar-17 16:00:00		0.00	0.00	0.00	10.34	2.1	329.7		0.00	0.00	0.00	3.41		10.35	18.92	83.84	86.68	07-Mar-17 15:00:00		10.35	18.92	83.84	90.09
07-Mar-17 16:00:00	07-Mar-17 17:00:00		0.00	0.00	0.00	12.58	2.1	329.7		0.00	0.00	0.00	4.15		10.35	18.92	83.84	86.68	07-Mar-17 16:00:00		10.35	18.92	83.84	90.83
07-Mar-17 17:00:00	07-Mar-17 18:00:00		0.00	0.00	0.00	95.33	2.1	329.7		0.00	0.00	0.00	31.43		10.35	18.92	83.84	86.68	07-Mar-17 17:00:00		10.35	18.92	83.84	118.11
07-Mar-17 18:00:00	07-Mar-17 19:00:00		0.00	0.00	0.00	5.91	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	07-Mar-17 18:00:00		10.35	18.92	83.84	88.63
07-Mar-17 19:00:00	07-Mar-17 20:00:00		0.00	0.00	0.00	4.63	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	07-Mar-17 19:00:00		10.35	18.92	83.84	88.21
07-Mar-17 20:00:00	07-Mar-17 21:00:00		0.00	0.00	0.00	51.43	2.1	329.7		0.00	0.00	0.00	16.96		10.35	18.92	83.84	86.68	07-Mar-17 20:00:00		10.35	18.92	83.84	103.64
07-Mar-17 21:00:00	07-Mar-17 22:00:00		0.00	0.00	0.00	60.18	2.1	329.7		0.00	0.00	0.00	19.84		10.35	18.92	83.84	86.68	07-Mar-17 21:00:00		10.35	18.92	83.84	106.52
07-Mar-17 22:00:00	07-Mar-17 23:00:00		0.00	0.00	0.00	15.85	2.1	329.7		0.00	0.00	0.00	5.23		10.35	18.92	83.84	86.68	07-Mar-17 22:00:00		10.35	18.92	83.84	91.91
07-Mar-17 23:00:00	08-Mar-17 00:00:00		0.00	0.00	0.00	37.88	2.1	329.7		0.00	0.00	0.00	12.49		10.35	18.92	83.84	86.68	07-Mar-17 23:00:00		10.35	18.92	83.84	99.17
08-Mar-17 00:00:00	08-Mar-17 01:00:00		0.00	0.00	0.00	5.80	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	08-Mar-17 00:00:00		10.35	18.92	83.84	88.59
08-Mar-17 01:00:00	08-Mar-17 02:00:00		0.00	0.00	0.00	5.80	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	08-Mar-17 01:00:00		10.35	18.92	83.84	88.59
08-Mar-17 02:00:00	08-Mar-17 03:00:00		0.00	0.00	0.00	7.99	2.1	329.7		0.00	0.00	0.00	2.64		10.35	18.92	83.84	86.68	08-Mar-17 02:00:00		10.35	18.92	83.84	89.32
08-Mar-17 03:00:00	08-Mar-17 04:00:00		0.00	0.00	0.00	67.79	2.1	329.7		0.00	0.00	0.00	22.35		10.35	18.92	83.84	86.68	08-Mar-17 03:00:00		10.35	18.92	83.84	109.03
08-Mar-17 04:00:00	08-Mar-17 05:00:00		0.00	0.00	0.00	6.01	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	08-Mar-17 04:00:00		10.35	18.92	83.84	88.66
08-Mar-17 05:00:00	08-Mar-17 06:00:00		0.09	0.00	0.00	6.13	2.1	329.7		0.03	0.00	0.00	2.02		10.35	18.92	83.84	86.68	08-Mar-17 05:00:00		10.38	18.92	83.84	88.70
08-Mar-17 06:00:00	08-Mar-17 07:00:00		0.00	0.00	0.00	11.42	2.1	329.7		0.00	0.00	0.00	3.76		10.35	18.92	83.84	86.68	08-Mar-17 06:00:00		10.35	18.92	83.84	90.44
08-Mar-17 07:00:00	08-Mar-17 08:00:00		0.00	0.00	0.00	35.50	2.1	329.7		0.00	0.00	0.00	11.71		10.35	18.92	83.84	86.68	08-Mar-17 07:00:00		10.35	18.92	83.84	98.39
08-Mar-17 08:00:00	08-Mar-17 09:00:00		0.00	0.00	0.00	20.04	2.1	329.7		0.00	0.00	0.00	6.61		10.35	18.92	83.84	86.68	08-Mar-17 08:00:00		10.35	18.92	83.84	93.29
08-Mar-17 09:00:00	08-Mar-17 10:00:00		0.00	0.00	0.00	171.03	2.1	329.7		0.00	0.00	0.00	56.39		10.35	18.92	83.84	86.68	08-Mar-17 09:00:00		10.35	18.92	83.84	143.07
08-Mar-17 10:00:00	08-Mar-17 11:00:00		0.00	0.00	0.00	37.94	2.1	329.7		0.00	0.00	0.00	12.51		10.35	18.92	83.84	86.68	08-Mar-17 10:00:00		10.35	18.92	83.84	99.19
08-Mar-17 11:00:00	08-Mar-17 12:00:00		0.00	0.00	0.00	5.07	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	08-Mar-17 11:00:00		10.35	18.92	83.84	88.35
08-Mar-17 12:00:00	08-Mar-17 13:00:00		0.00	0.00	0.00	4.93	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	08-Mar-17 12:00:00		10.35	18.92	83.84	88.31
08-Mar-17 13:00:00	08-Mar-17 14:00:00		0.00	0.00	0.00	4.79	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	08-Mar-17 13:00:00		10.35	18.92	83.84	88.26
08-Mar-17 14:00:00	08-Mar-17 15:00:00		0.00	0.00	0.00	4.66	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	08-Mar-17 14:00:00		10.35	18.92	83.84	88.21
08-Mar-17 15:00:00	08-Mar-17 16:00:00		0.00	0.00	0.00	937.49	2.1	329.7		0.00	0.00	0.00	309.09		10.35	18.92	83.84	86.68	08-Mar-17 15:00:00		10.35	18.92	83.84	395.77
08-Mar-17 16:00:00	08-Mar-17 17:00:00		0.00	0.00	0.00	2,195.97	2.1	329.7		0.00	0.00	0.00	724.01		10.35	18.92	83.84	86.68	08-Mar-17 16:00:00		10.35	18.92	83.84	810.69
08-Mar-17 17:00:00	08-Mar-17 18:00:00		0.00	0.00	0.00	1,024.58	2.1	329.7		0.00	0.00	0.00	337.80		10.35	18.92	83.84	86.68	08-Mar-17 17:00:00		10.35	18.92	83.84	424.48
08-Mar-17 18:00:00	08-Mar-17 19:00:00		0.21	0.00	0.00	4.94	2.1	329.7		0.07	0.00	0.00	1.63		10.35	18.92	83.84	86.68	08-Mar-17 18:00:00		10.42	18.92	83.84	88.31
08-Mar-17 19:00:00	08-Mar-17 20:00:00		0.61	0.00	0.00	5.26	2.1	329.7		0.20	0.00	0.00	1.73		10.35	18.92	83.84	86.68	08-Mar-17 19:00:00		10.55	18.92	83.84	88.41
08-Mar-17 20:00:00	08-Mar-17 21:00:00		1.00	0.00	0.00	5.58	2.1	329.7		0.33	0.00	0.00	1.84		10.35	18.92	83.84	86.68	08-Mar-17 20:00:00		10.68	18.92	83.84	88.52
08-Mar-17 21:00:00	08-Mar-17 22:00:00		2.00	0.00	0.00	5.89	2.1	329.7		0.66	0.00	0.00	1.94		10.35	18.92	83.84	86.68	08-Mar-17 21:00:00		11.01	18.92	83.84	88.62
08-Mar-17 22:00:00	08-Mar-17 23:00:00		6.89	0.00	0.00	6.91	2.1	329.7		2.27	0.00	0.00	2.28		10.35	18.92	83.84	86.68	08-Mar-17 22:00:00		12.62	18.92	83.84	88.96
08-Mar-17 23:00:00	09-Mar-17 00:00:00		0.39	0.00	0.00	10.38	2.1	329.7		0.13	0.00	0.00	3.42		10.35	18.92	83.84	86.68	08-Mar-17 23:00:00		10.48	18.92	83.84	90.10
09-Mar-17 00:00:00	09-Mar-17 01:00:00		0.00	0.00	0.00	6.57	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	09-Mar-17 00:00:00		10.35	18.92	83.84	88.85
09-Mar-17 01:00:00	09-Mar-17 02:00:00		0.00	0.00	0.00	71.57	2.1	329.7		0.00	0.00	0.00	23.60		10.35	18.92	83.84	86.68	09-Mar-17 01:00:00		10.35	18.92	83.84	110.28
09-Mar-17 02:00:00	09-Mar-17 03:00:00		0.00	0.00	0.00	51.02	2.1	329.7		0.00	0.00	0.00	16.82		10.35	18.92	83.84	86.68	09-Mar-17 02:00:00		10.35	18.92	83.84	103.50
09-Mar-17 03:00:00	09-Mar-17 04:00:00		1.26	0.00	0.00	51.41	2.1	329.7		0.42	0.00	0.00	16.95		10.35	18.92	83.84	86.68	09-Mar-17 03:00:00		10.77	18.92	83.84	103.63
09-Mar-17 04:00:00	09-Mar-17 05:00:00		0.62	0.00	0.00	9.58	2.1	329.7		0.20	0.00	0.00	3.16		10.35	18.92	83.84	86.68	09-Mar-17 04:00:00		10.55	18.92	83.84	89.84
09-Mar-17 05:00:00	09-Mar-17 06:00:00		1.63	0.00	0.00	7.07	2.1	329.7		0.54	0.00	0.00	2.33		10.35	18.92	83.84	86.68	09-Mar-17 05:00:00		10.89	18.92	83.84	89.01
09-Mar-17 06:00:00	09-Mar-17 07:00:00		9.93	0.00	0.00	7.11	2.1	329.7		3.27	0.00	0.00	2.34		10.35	18.92	83.84	86.68	09-Mar-17 06:00:00		13.62	18.92	83.84	89.02
09-Mar-17 07:00:00	09-Mar-17 08:00:00		1.25	0.00	0.00	7.39	2.1	329.7		0.41	0.00	0.00	2.44		10.35	18.92	83.84	86.68	09-Mar-17 07:00:00		10.76	18.92	83.84	89.12
09-Mar-17 08:00:00	09-Mar-17 09:00:00		0.00	1.14	0.00	6.73	2.1	329.7		0.00	0.38	0.00	2.22		10.35	18.92	83.84	86.68	09-Mar-17 08:00:00		10.35	19.30	83.84	88.90
09-Mar-17 09:00:00	09-Mar-17 10:00:00		0.99	0.00	0.00	95.94	2.1	329.7		0.33	0.00	0.00	31.63		10.35	18.92	83.84	86.68	09-Mar-17 09:00:00		10.68	18.92	83.84	118.31
09-Mar-17 10:00:00	09-Mar-17 11:00:00		3.06	0.00	0.00	1,097.40	2.1	329.7		1.01	0.00	0.00	361.81		10.35	18.92	83.84	86.68	09-Mar-17 10:00:00		11.36	18.92	83.84	448.49
09-Mar-17 11:00:00	09-Mar-17 12:00:00		0.41	0.00	0.00	1,258.60	2.1	329.7		0.14	0.00	0.00	414.96		10.35	18.92	83.84	86.68	09-Mar-17 11:00:00		10.49	18.92	83.84	501.64
09-Mar-17 12:00:00	09-Mar-17 13:00:00		0.00	0.00	0.00	1,169.96	2.1	329.7		0.00	0.00	0.00	385.74		10.35	18.92	83.84	86.68	09-Mar-17 12:00:00		10.35	18.92	83.84	472.42
09-Mar-17 13:00:00	09-Mar-17 14:00:00		0.00	0.00	0.00	24.79	2.1	329.7		0.00	0.00	0.00	8.17		10.35	18.92	83.84	86.68	09-Mar-17 13:00:00		10.35	18.92	83.84	94.85
09-Mar-17 14:00:00	09-Mar-17 15:00:00		0.00	0.00	0.00	4.31	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	09-Mar-17 14:00:00		10.35	18.92	83.84	88.10
09-Mar-17 15:00:00	09-Mar-17 16:00:00		0.00	0.00	0.00	4.46	2.1	329.7		0.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	09-Mar-17 15:00:00		10.35	18.92	83.84	88.15
09-Mar-17 16:00:00	09-Mar-17 17:00:00		0.51	0.00	0.00	4.60	2.1	329.7		0.17	0.00	0.00	1.52		10.35	18.92	83.84	86.68	09-Mar-17 16:00:00		10.52	18.92	83.84	88.20
09-Mar-17 17:00:00	09-Mar-17 18:00:00		0.14	0.00	0.00	55.57	2.1	329.7		0.05	0.00	0.00	18.32		10.35	18.92	83.84	86.68	09-Mar-17 17:00:00		10.40	18.92	83.84	105.00
09-Mar-17 18:00:00	09-Mar-17 19:00:00		0.09	0.00	0.00	4.76	2.1	329.7		0.03	0.00	0.00	1.57		10.35	18.92	83.84	86.68	09-Mar-17 18:00:00		10.38	18.92	83.84	88.25
09-Mar-17 19:00:00	09-Mar-17 20:00:00		0.04	0.00	0.00	10.78	2.1	329.7		0.01	0.00	0.00	3.56		10.35	18.92	83.84	86.68	09-Mar-17 19:00:00		10.36	18.92	83.84	90.24
09-Mar-17 20:00:00	09-Mar-17 21:00:00		0.43	0.00	0.00	43.94	2.1	329.7		0.14	0.00	0.00	14.49		10.35	18.92	83.84	86.68	09-Mar-17 20:00:00		10.49	18.92	83.84	101.17
09-Mar-17 21:00:00	09-Mar-17 22:00:00		1.57	0.00	0.00	5.43	2.1	329.7		0.52	0.00	0.00	1.79		10.35	18.92	83.84	86.68	09-Mar-17 21:00:00		10.87	18.92	83.84	88.47
09-Mar-17 22:00:00	09-Mar-17 23:00:00		2.42	0.00	0.00	5.54	2.1	329.7		0.80	0.00	0.00	1.83		10.35	18.92	83.84	86.68	09-Mar-17 22:00:00		11.15	18.92	83.84	88.51
09-Mar-17 23:00:00	10-Mar-17 00:00:00		1.30	0.00	0.00	5.65	2.1	329.7		0.43	0.00	0.00	1.86		10.35	18.92	83.84	86.68	09-Mar-17 23:00:00		10.78	18.92	83.84	88.54
10-Mar-17 00:00:00	10-Mar-17 01:00:00		0.00	0.00	0.00	7.44	2.1	329.7		0.00	0.00	0.00	2.45		10.35	18.92	83.84	86.68	10-Mar-17 00:00:00		10.35	18.92	83.84	89.13
10-Mar-17 01:00:00	10-Mar-17 02:00:00		0.00	0.00	0.00	10.73	2.1	329.7		0.00	0.00	0.00	3.54		10.35	18.92	83.84	86.68	10-Mar-17 01:00:00		10.35	18.92	83.84	90.22
10-Mar-17 02:00:00	10-Mar-17 03:00:00		0.00	0.00	0.00	45.25	2.1	329.7		0.00	0.00	0.00	14.92		10.35	18.92	83.84	86.68	10-Mar-17 02:00:00		10.35	18.92	83.84	101.60
10-Mar-17 03:00:00	10-Mar-17 04:00:00		1.94	0.00	0.00	6.83	2.1	329.7		0.64	0.00	0.00	2.25		10.35	18.92	83.84	86.68	10-Mar-17 03:00:00		10.99	18.92	83.84	89.93
10-Mar-17 04:00:00	10-Mar-17 05:00:00		3.19	0.00	0.00	116.10	2.1	329.7		1.05	0.00	0.00	38.28		10.35	18.92	83.84	86.68	10-Mar-17 04:00:00		11.40	18.92	83.84	124.96
10-Mar-17 05:00:00	10-Mar-17 06:00:00		0.00	0.00	0.00	207.30	2.1	329.7		0.00	0.00	0.00	68.35		10.35	18.92	83.84	86.68	10-Mar-17 05:00:00		10.35	18.92	83.84	155.03
10-Mar-17 06:00:00	10-Mar-17 07:00:00		3.76	0.00	0.00	82.43	2.1	329.7		1.24	0.00	0.00	27.18		10.35	18.92	83.84	86.68	10-Mar-17 06:00:00		11.59	18.92	83.84	113.86
10-Mar-17 07:00:00	10-Mar-17 08:00:00		1.50	0.00	0.00	49.08	2.1	329.7		0.49	0.00	0.00	16.18		10.35	18.92	83.84	86.68	10-Mar-17 07:00:00		10.84	18.92	83.84	102.86
10-Mar-17 08:00:00	10-Mar-17 09:00:00		1.03	0.00	0.00	6.84	2.1	329.7		0.34	0.00	0.00	2.25		10.35	18.92	83.84	86.68	10-Mar-17 08:00:00		10.69	18.92	83.84	88.93
10-Mar-17 09:00:00	10-Mar-17 10:00:00		0.57	0.00	0.00	23.21	2.1	329.7		0.19	0.00	0.00	7.65		10.35	18.92	83.84	86.68	10-Mar-17 09:00:00		10.54	18.92	83.84	94.33
10-Mar-17 10:00:00	10-Mar-17 11:00:00		2.56	0.00	0.00	7.16	2.1	329.7		0.84	0.00	0.00	2.36		10.35	18.92	83.84	86.68	10-Mar-17 10:00:00		11.19	18.92	83.84	89.04
10-Mar-17 11:00:00	10-Mar-17 12:00:00		2.43	0.00	0.00	5.73	2.1	329.7		0.80	0.00	0.00	1.89		10.35	18.92	83.84	86.68	10-Mar-17 11:00:00		11.15	18.92	83.84	88.57
10-Mar-17 12:00:00	10-Mar-17 13:00:00		0.31	0.00	0.00	53.29	2.1	329.7		0.10	0.00	0.00	17.57		10.35	18.92	83.84	86.68	10-Mar-17 12:00:00		10.45	18.92	83.84	104.25
10-Mar-17 13:00:00	10-Mar-17 14:00:00		0.75	0.00	0.00	42.79	2.1	329.7		0.25	0.00	0.00	14.11		10.35	18.92	83.84	86.68	10-Mar-17 13:00:00		10.60	18.92	83.84	100.79
10-Mar-17 14:00:00	10-Mar-17 15:00:00		0.41	0.00	0.00	5.12	2.1	329.7		0.13	0.00	0.00	1.69		10.35	18.92	83.84	86.68	10-Mar-17 14:00:00		10.48	18.92	83.84	88.37
10-Mar-17 15:00:00	10-Mar-17 16:00:00		0.00	0.00	0.00	4.98	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	10-Mar-17 15:00:00		10.35	18.92	83.84	88.32
10-Mar-17 16:00:00	10-Mar-17 17:00:00		1.17	0.00	0.00	4.84	2.1	329.7		0.39	0.00	0.00	1.59		10.35	18.92	83.84	86.68	10-Mar-17 16:00:00		10.74	18.92	83.84	88.27
10-Mar-17 17:00:00	10-Mar-17 18:00:00		0.65	0.00	0.00	76.10	2.1	329.7		0.22	0.00	0.00	25.09		10.35	18.92	83.84	86.68	10-Mar-17 17:00:00		10.57	18.92	83.84	111.77
10-Mar-17 18:00:00	10-Mar-17 19:00:00		0.41	0.00	0.00	93.68	2.1	329.7		0.14	0.00	0.00	30.89		10.35	18.92	83.84	86.68	10-Mar-17 18:00:00		10.49	18.92	83.84	117.57
10-Mar-17 19:00:00	10-Mar-17 20:00:00		0.17	0.00	0.00	6.05	2.1	329.7		0.06	0.00	0.00	2.00		10.35	18.92	83.84	86.68	10-Mar-17 19:00:00		10.41	18.92	83.84	88.68
10-Mar-17 20:00:00	10-Mar-17 21:00:00		0.00	0.00	0.00	14.15	2.1	329.7		0.00	0.00	0.00	4.66		10.35	18.92	83.84	86.68	10-Mar-17 20:00:00		10.35	18.92	83.84	91.34
10-Mar-17 21:00:00	10-Mar-17 22:00:00		0.00	0.00	0.00	19.63	2.1	329.7		0.00	0.00	0.00	6.47		10.35	18.92	83.84	86.68	10-Mar-17 21:00:00		10.35	18.92	83.84	93.15
10-Mar-17 22:00:00	10-Mar-17 23:00:00		4.98	0.00	0.00	18.60	2.1	329.7		1.64	0.00	0.00	6.13		10.35	18.92	83.84	86.68	10-Mar-17 22:00:00		11.99	18.92	83.84	92.81
10-Mar-17 23:00:00	11-Mar-17 00:00:00		1.29	0.00	0.00	6.11	2.1	329.7		0.43	0.00	0.00	2.01		10.35	18.92	83.84	86.68	10-Mar-17 23:00:00		10.78	18.92	83.84	88.69
11-Mar-17 00:00:00	11-Mar-17 01:00:00		1.50	0.00	0.00	6.33	2.1	329.7		0.49	0.00	0.00	2.09		10.35	18.92	83.84	86.68	11-Mar-17 00:00:00		10.84	18.92	83.84	88.77
11-Mar-17 01:00:00	11-Mar-17 02:00:00		1.22	0.00	0.00	49.20	2.1	329.7		0.40	0.00	0.00	16.22		10.35	18.92	83.84	86.68	11-Mar-17 01:00:00		10.75	18.92	83.84	102.90
11-Mar-17 02:00:00	11-Mar-17 03:00:00		6.84	0.00	0.00	7.00	2.1	329.7		2.26	0.00	0.00	2.31		10.35	18.92	83.84	86.68	11-Mar-17 02:00:00		12.61	18.92	83.84	88.99
11-Mar-17 03:00:00	11-Mar-17 04:00:00		0.00	0.00	0.00	6.86	2.1	329.7		0.00	0.00	0.00	2.26		10.35	18.92	83.84	86.68	11-Mar-17 03:00:00		10.35	18.92	83.84	88.94
11-Mar-17 04:00:00	11-Mar-17 05:00:00		0.68	0.00	0.00	19.89	2.1	329.7		0.22	0.00	0.00	6.56		10.35	18.92	83.84	86.68	11-Mar-17 04:00:00		10.57	18.92	83.84	93.24
11-Mar-17 05:00:00	11-Mar-17 06:00:00		34.97	0.00	0.00	49.54	2.1	329.7		11.53	0.00	0.00	16.33		10.35	18.92	83.84	86.68	11-Mar-17 05:00:00		21.88	18.92	83.84	103.01
11-Mar-17 06:00:00	11-Mar-17 07:00:00		44.43	0.00	0.00	23.74	2.1	329.7		14.65	0.00	0.00	7.83		10.35	18.92	83.84	86.68	11-Mar-17 06:00:00		25.00	18.92	83.84	94.51
11-Mar-17 07:00:00	11-Mar-17 08:00:00		56.68	0.00	0.00	8.88	2.1	329.7		18.69	0.00	0.00	2.93		10.35	18.92	83.84	86.68	11-Mar-17 07:00:00		29.04	18.92	83.84	89.61
11-Mar-17 08:00:00	11-Mar-17 09:00:00		56.96	0.00	0.00	84.58	2.1	329.7		18.78	0.00	0.00	27.89		10.35	18.92	83.84	86.68	11-Mar-17 08:00:00		29.13	18.92	83.84	114.57
11-Mar-17 09:00:00	11-Mar-17 10:00:00		30.63	0.00	0.00	7.13	2.1	329.7		10.10	0.00	0.00	2.35		10.35	18.92	83.84	86.68	11-Mar-17 09:00:00		20.45	18.92	83.84	89.03
11-Mar-17 10:00:00	11-Mar-17 11:00:00		10.41	0.00	0

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
13-Mar-17 13:00:00	13-Mar-17 14:00:00		58.99	0.00	0.00	17.48	2.1	329.7		19.45	0.00	0.00	5.76		10.35	18.92	83.84	86.68	13-Mar-17 13:00:00		**29.80**	**18.92**	**83.84**	**92.44**
13-Mar-17 14:00:00	13-Mar-17 15:00:00		59.57	0.00	0.00	6.49	2.1	329.7		19.64	0.00	0.00	2.14		10.35	18.92	83.84	86.68	13-Mar-17 14:00:00		**29.99**	**18.92**	**83.84**	**88.82**
13-Mar-17 15:00:00	13-Mar-17 16:00:00		58.51	0.00	0.00	6.60	2.1	329.7		19.29	0.00	0.00	2.18		10.35	18.92	83.84	86.68	13-Mar-17 15:00:00		**29.64**	**18.92**	**83.84**	**88.86**
13-Mar-17 16:00:00	13-Mar-17 17:00:00		57.30	0.00	0.00	6.70	2.1	329.7		18.89	0.00	0.00	2.21		10.35	18.92	83.84	86.68	13-Mar-17 16:00:00		**29.24**	**18.92**	**83.84**	**88.89**
13-Mar-17 17:00:00	13-Mar-17 18:00:00		57.27	0.00	0.00	7.45	2.1	329.7		18.88	0.00	0.00	2.45		10.35	18.92	83.84	86.68	13-Mar-17 17:00:00		**29.23**	**18.92**	**83.84**	**89.13**
13-Mar-17 18:00:00	13-Mar-17 19:00:00		57.23	0.00	0.00	20.69	2.1	329.7		18.87	0.00	0.00	6.82		10.35	18.92	83.84	86.68	13-Mar-17 18:00:00		**29.22**	**18.92**	**83.84**	**93.50**
13-Mar-17 19:00:00	13-Mar-17 20:00:00		57.22	0.00	0.00	6.91	2.1	329.7		18.87	0.00	0.00	2.28		10.35	18.92	83.84	86.68	13-Mar-17 19:00:00		**29.22**	**18.92**	**83.84**	**88.96**
13-Mar-17 20:00:00	13-Mar-17 21:00:00		56.65	0.00	0.00	9.93	2.1	329.7		18.68	0.00	0.00	3.27		10.35	18.92	83.84	86.68	13-Mar-17 20:00:00		**29.03**	**18.92**	**83.84**	**89.95**
13-Mar-17 21:00:00	13-Mar-17 22:00:00		55.09	0.00	0.00	107.96	2.1	329.7		18.16	0.00	0.00	35.59		10.35	18.92	83.84	86.68	13-Mar-17 21:00:00		**28.51**	**18.92**	**83.84**	**122.27**
13-Mar-17 22:00:00	13-Mar-17 23:00:00		54.93	0.00	0.00	7.48	2.1	329.7		18.11	0.00	0.00	2.46		10.35	18.92	83.84	86.68	13-Mar-17 22:00:00		**28.46**	**18.92**	**83.84**	**89.14**
13-Mar-17 23:00:00	14-Mar-17 00:00:00		55.58	0.00	0.00	14.76	2.1	329.7		18.33	0.00	0.00	4.87		10.35	18.92	83.84	86.68	13-Mar-17 23:00:00		**28.68**	**18.92**	**83.84**	**91.55**
14-Mar-17 00:00:00	14-Mar-17 01:00:00		55.77	0.00	0.00	13.25	2.1	329.7		18.39	0.00	0.00	4.37		10.35	18.92	83.84	86.68	14-Mar-17 00:00:00		**28.74**	**18.92**	**83.84**	**91.05**
14-Mar-17 01:00:00	14-Mar-17 02:00:00		57.93	0.00	0.00	6.68	2.1	329.7		19.10	0.00	0.00	2.20		10.35	18.92	83.84	86.68	14-Mar-17 01:00:00		**29.45**	**18.92**	**83.84**	**88.88**
14-Mar-17 02:00:00	14-Mar-17 03:00:00		60.45	0.00	0.00	12.92	2.1	329.7		19.93	0.00	0.00	4.26		10.35	18.92	83.84	86.68	14-Mar-17 02:00:00		**30.28**	**18.92**	**83.84**	**90.94**
14-Mar-17 03:00:00	14-Mar-17 04:00:00		60.40	0.00	0.00	32.83	2.1	329.7		19.91	0.00	0.00	10.83		10.35	18.92	83.84	86.68	14-Mar-17 03:00:00		**30.26**	**18.92**	**83.84**	**97.51**
14-Mar-17 04:00:00	14-Mar-17 05:00:00		59.94	0.00	0.00	6.65	2.1	329.7		19.76	0.00	0.00	2.19		10.35	18.92	83.84	86.68	14-Mar-17 04:00:00		**30.11**	**18.92**	**83.84**	**88.87**
14-Mar-17 05:00:00	14-Mar-17 06:00:00		59.49	0.00	0.00	7.05	2.1	329.7		19.61	0.00	0.00	2.32		10.35	18.92	83.84	86.68	14-Mar-17 05:00:00		**29.96**	**18.92**	**83.84**	**89.00**
14-Mar-17 06:00:00	14-Mar-17 07:00:00		59.26	0.00	0.00	12.68	2.1	329.7		19.54	0.00	0.00	4.18		10.35	18.92	83.84	86.68	14-Mar-17 06:00:00		**29.89**	**18.92**	**83.84**	**90.86**
14-Mar-17 07:00:00	14-Mar-17 08:00:00		59.19	0.00	0.00	60.39	2.1	329.7		19.51	0.00	0.00	19.91		10.35	18.92	83.84	86.68	14-Mar-17 07:00:00		**29.86**	**18.92**	**83.84**	**106.59**
14-Mar-17 08:00:00	14-Mar-17 09:00:00		59.11	0.00	0.00	21.29	2.1	329.7		19.49	0.00	0.00	7.02		10.35	18.92	83.84	86.68	14-Mar-17 08:00:00		**29.84**	**18.92**	**83.84**	**93.70**
14-Mar-17 09:00:00	14-Mar-17 10:00:00		59.02	0.00	0.00	12.54	2.1	329.7		19.46	0.00	0.00	4.14		10.35	18.92	83.84	86.68	14-Mar-17 09:00:00		**29.81**	**18.92**	**83.84**	**90.82**
14-Mar-17 10:00:00	14-Mar-17 11:00:00		58.91	0.00	0.00	79.23	2.1	329.7		19.42	0.00	0.00	26.12		10.35	18.92	83.84	86.68	14-Mar-17 10:00:00		**29.77**	**18.92**	**83.84**	**112.80**
14-Mar-17 11:00:00	14-Mar-17 12:00:00		18.42	0.00	0.00	6.77	2.1	329.7		6.07	0.00	0.00	2.23		10.35	18.92	83.84	86.68	14-Mar-17 11:00:00		**16.42**	**18.92**	**83.84**	**88.91**
14-Mar-17 12:00:00	14-Mar-17 13:00:00		5.96	0.00	0.00	11.61	2.1	329.7		1.96	0.00	0.00	3.83		10.35	18.92	83.84	86.68	14-Mar-17 12:00:00		**12.31**	**18.92**	**83.84**	**90.51**
14-Mar-17 13:00:00	14-Mar-17 14:00:00		0.00	0.00	0.00	28.28	2.1	329.7		0.00	0.00	0.00	9.33		10.35	18.92	83.84	86.68	14-Mar-17 13:00:00		**10.35**	**18.92**	**83.84**	**96.01**
14-Mar-17 14:00:00	14-Mar-17 15:00:00		0.18	0.00	0.00	7.75	2.1	329.7		0.06	0.00	0.00	2.55		10.35	18.92	83.84	86.68	14-Mar-17 14:00:00		**10.41**	**18.92**	**83.84**	**89.23**
14-Mar-17 15:00:00	14-Mar-17 16:00:00		0.00	0.00	0.00	10.90	2.1	329.7		0.00	0.00	0.00	3.59		10.35	18.92	83.84	86.68	14-Mar-17 15:00:00		**10.35**	**18.92**	**83.84**	**90.27**
14-Mar-17 16:00:00	14-Mar-17 17:00:00		0.00	0.00	0.00	8.99	2.1	329.7		0.00	0.00	0.00	2.96		10.35	18.92	83.84	86.68	14-Mar-17 16:00:00		**10.35**	**18.92**	**83.84**	**89.64**
14-Mar-17 17:00:00	14-Mar-17 18:00:00		0.00	0.00	0.00	7.56	2.1	329.7		0.00	0.00	0.00	2.49		10.35	18.92	83.84	86.68	14-Mar-17 17:00:00		**10.35**	**18.92**	**83.84**	**89.17**
14-Mar-17 18:00:00	14-Mar-17 19:00:00		0.52	0.00	0.00	95.92	2.1	329.7		0.17	0.00	0.00	31.63		10.35	18.92	83.84	86.68	14-Mar-17 18:00:00		**10.52**	**18.92**	**83.84**	**118.31**
14-Mar-17 19:00:00	14-Mar-17 20:00:00		1.84	0.00	0.00	6.05	2.1	329.7		0.61	0.00	0.00	2.00		10.35	18.92	83.84	86.68	14-Mar-17 19:00:00		**10.96**	**18.92**	**83.84**	**88.68**
14-Mar-17 20:00:00	14-Mar-17 21:00:00		1.00	0.00	0.00	6.24	2.1	329.7		0.33	0.00	0.00	2.06		10.35	18.92	83.84	86.68	14-Mar-17 20:00:00		**10.68**	**18.92**	**83.84**	**88.74**
14-Mar-17 21:00:00	14-Mar-17 22:00:00		0.38	0.00	0.00	7.73	2.1	329.7		0.13	0.00	0.00	2.55		10.35	18.92	83.84	86.68	14-Mar-17 21:00:00		**10.48**	**18.92**	**83.84**	**89.23**
14-Mar-17 22:00:00	14-Mar-17 23:00:00		1.24	0.00	0.00	7.42	2.1	329.7		0.41	0.00	0.00	2.45		10.35	18.92	83.84	86.68	14-Mar-17 22:00:00		**10.76**	**18.92**	**83.84**	**89.13**
14-Mar-17 23:00:00	15-Mar-17 00:00:00		3.28	0.00	0.00	49.34	2.1	329.7		1.08	0.00	0.00	16.27		10.35	18.92	83.84	86.68	14-Mar-17 23:00:00		**11.43**	**18.92**	**83.84**	**102.95**
15-Mar-17 00:00:00	15-Mar-17 01:00:00		15.93	0.00	0.00	98.52	2.1	329.7		5.25	0.00	0.00	32.48		10.35	18.92	83.84	86.68	15-Mar-17 00:00:00		**15.60**	**18.92**	**83.84**	**119.16**
15-Mar-17 01:00:00	15-Mar-17 02:00:00		32.57	0.00	0.00	10.62	2.1	329.7		10.74	0.00	0.00	3.50		10.35	18.92	83.84	86.68	15-Mar-17 01:00:00		**21.09**	**18.92**	**83.84**	**90.18**
15-Mar-17 02:00:00	15-Mar-17 03:00:00		31.49	0.00	0.00	17.19	2.1	329.7		10.38	0.00	0.00	5.67		10.35	18.92	83.84	86.68	15-Mar-17 02:00:00		**20.73**	**18.92**	**83.84**	**92.35**
15-Mar-17 03:00:00	15-Mar-17 04:00:00		49.35	0.00	0.00	14.71	2.1	329.7		16.27	0.00	0.00	4.85		10.35	18.92	83.84	86.68	15-Mar-17 03:00:00		**26.62**	**18.92**	**83.84**	**91.53**
15-Mar-17 04:00:00	15-Mar-17 05:00:00		38.83	0.00	0.00	7.51	2.1	329.7		12.80	0.00	0.00	2.48		10.35	18.92	83.84	86.68	15-Mar-17 04:00:00		**23.15**	**18.92**	**83.84**	**89.16**
15-Mar-17 05:00:00	15-Mar-17 06:00:00		32.63	0.00	0.00	13.51	2.1	329.7		10.76	0.00	0.00	4.46		10.35	18.92	83.84	86.68	15-Mar-17 05:00:00		**21.11**	**18.92**	**83.84**	**91.14**
15-Mar-17 06:00:00	15-Mar-17 07:00:00		34.12	0.00	0.00	7.62	2.1	329.7		11.25	0.00	0.00	2.51		10.35	18.92	83.84	86.68	15-Mar-17 06:00:00		**21.60**	**18.92**	**83.84**	**89.19**
15-Mar-17 07:00:00	15-Mar-17 08:00:00		40.25	0.00	0.00	7.54	2.1	329.7		13.27	0.00	0.00	2.49		10.35	18.92	83.84	86.68	15-Mar-17 07:00:00		**23.62**	**18.92**	**83.84**	**89.17**
15-Mar-17 08:00:00	15-Mar-17 09:00:00		45.80	0.00	0.00	8.13	2.1	329.7		15.10	0.00	0.00	2.68		10.35	18.92	83.84	86.68	15-Mar-17 08:00:00		**25.45**	**18.92**	**83.84**	**89.36**
15-Mar-17 09:00:00	15-Mar-17 10:00:00		17.48	0.00	0.00	7.60	2.1	329.7		5.76	0.00	0.00	2.51		10.35	18.92	83.84	86.68	15-Mar-17 09:00:00		**16.11**	**18.92**	**83.84**	**89.19**
15-Mar-17 10:00:00	15-Mar-17 11:00:00		17.01	0.00	0.00	8.00	2.1	329.7		5.61	0.00	0.00	2.64		10.35	18.92	83.84	86.68	15-Mar-17 10:00:00		**15.96**	**18.92**	**83.84**	**89.32**
15-Mar-17 11:00:00	15-Mar-17 12:00:00		16.44	0.00	0.00	8.71	2.1	329.7		5.42	0.00	0.00	2.87		10.35	18.92	83.84	86.68	15-Mar-17 11:00:00		**15.77**	**18.92**	**83.84**	**89.55**
15-Mar-17 12:00:00	15-Mar-17 13:00:00		15.90	0.94	0.00	7.33	2.1	329.7		5.24	0.31	0.00	2.42		10.35	18.92	83.84	86.68	15-Mar-17 12:00:00		**15.59**	**19.23**	**83.84**	**89.10**
15-Mar-17 13:00:00	15-Mar-17 14:00:00		21.31	0.00	0.00	7.18	2.1	329.7		7.03	0.00	0.00	2.37		10.35	18.92	83.84	86.68	15-Mar-17 13:00:00		**17.38**	**18.92**	**83.84**	**89.05**
15-Mar-17 14:00:00	15-Mar-17 15:00:00		25.42	0.00	0.00	7.02	2.1	329.7		8.38	0.00	0.00	2.31		10.35	18.92	83.84	86.68	15-Mar-17 14:00:00		**18.73**	**18.92**	**83.84**	**88.99**
15-Mar-17 15:00:00	15-Mar-17 16:00:00		21.37	0.00	0.00	6.93	2.1	329.7		7.04	0.00	0.00	2.28		10.35	18.92	83.84	86.68	15-Mar-17 15:00:00		**17.39**	**18.92**	**83.84**	**88.96**
15-Mar-17 16:00:00	15-Mar-17 17:00:00		61.20	0.00	0.00	11.02	2.1	329.7		20.18	0.00	0.00	3.63		10.35	18.92	83.84	86.68	15-Mar-17 16:00:00		**30.53**	**18.92**	**83.84**	**90.31**
15-Mar-17 17:00:00	15-Mar-17 18:00:00		56.71	0.00	0.00	7.25	2.1	329.7		18.70	0.00	0.00	2.39		10.35	18.92	83.84	86.68	15-Mar-17 17:00:00		**29.05**	**18.92**	**83.84**	**89.07**
15-Mar-17 18:00:00	15-Mar-17 19:00:00		47.37	0.00	0.00	7.16	2.1	329.7		15.62	0.00	0.00	2.36		10.35	18.92	83.84	86.68	15-Mar-17 18:00:00		**25.97**	**18.92**	**83.84**	**89.04**
15-Mar-17 19:00:00	15-Mar-17 20:00:00		55.06	0.00	0.00	8.58	2.1	329.7		18.15	0.00	0.00	2.83		10.35	18.92	83.84	86.68	15-Mar-17 19:00:00		**28.50**	**18.92**	**83.84**	**89.51**
15-Mar-17 20:00:00	15-Mar-17 21:00:00		50.08	0.00	0.00	18.72	2.1	329.7		16.51	0.00	0.00	6.17		10.35	18.92	83.84	86.68	15-Mar-17 20:00:00		**26.86**	**18.92**	**83.84**	**92.85**
15-Mar-17 21:00:00	15-Mar-17 22:00:00		43.75	0.00	0.00	7.30	2.1	329.7		14.42	0.00	0.00	2.41		10.35	18.92	83.84	86.68	15-Mar-17 21:00:00		**24.77**	**18.92**	**83.84**	**89.09**
15-Mar-17 22:00:00	15-Mar-17 23:00:00		47.03	0.00	0.00	7.21	2.1	329.7		15.50	0.00	0.00	2.38		10.35	18.92	83.84	86.68	15-Mar-17 22:00:00		**25.85**	**18.92**	**83.84**	**89.06**
15-Mar-17 23:00:00	16-Mar-17 00:00:00		29.67	0.00	0.00	7.12	2.1	329.7		9.78	0.00	0.00	2.35		10.35	18.92	83.84	86.68	15-Mar-17 23:00:00		**20.13**	**18.92**	**83.84**	**89.03**
16-Mar-17 00:00:00	16-Mar-17 01:00:00		35.70	0.00	0.00	7.02	2.1	329.7		11.77	0.00	0.00	2.31		10.35	18.92	83.84	86.68	16-Mar-17 00:00:00		**22.12**	**18.92**	**83.84**	**88.99**
16-Mar-17 01:00:00	16-Mar-17 02:00:00		21.41	0.00	0.00	7.12	2.1	329.7		7.06	0.00	0.00	2.35		10.35	18.92	83.84	86.68	16-Mar-17 01:00:00		**17.41**	**18.92**	**83.84**	**89.03**
16-Mar-17 02:00:00	16-Mar-17 03:00:00		22.41	0.00	0.00	7.25	2.1	329.7		7.39	0.00	0.00	2.39		10.35	18.92	83.84	86.68	16-Mar-17 02:00:00		**17.74**	**18.92**	**83.84**	**89.07**
16-Mar-17 03:00:00	16-Mar-17 04:00:00		23.35	0.00	0.00	7.38	2.1	329.7		7.70	0.00	0.00	2.43		10.35	18.92	83.84	86.68	16-Mar-17 03:00:00		**18.05**	**18.92**	**83.84**	**89.11**
16-Mar-17 04:00:00	16-Mar-17 05:00:00		20.15	0.00	0.00	7.47	2.1	329.7		6.64	0.00	0.00	2.46		10.35	18.92	83.84	86.68	16-Mar-17 04:00:00		**16.99**	**18.92**	**83.84**	**89.14**
16-Mar-17 05:00:00	16-Mar-17 06:00:00		18.97	0.00	0.00	7.48	2.1	329.7		6.26	0.00	0.00	2.46		10.35	18.92	83.84	86.68	16-Mar-17 05:00:00		**16.61**	**18.92**	**83.84**	**89.14**
16-Mar-17 06:00:00	16-Mar-17 07:00:00		47.23	0.00	0.00	7.48	2.1	329.7		15.57	0.00	0.00	2.47		10.35	18.92	83.84	86.68	16-Mar-17 06:00:00		**25.92**	**18.92**	**83.84**	**89.15**
16-Mar-17 07:00:00	16-Mar-17 08:00:00		73.34	0.00	0.00	7.48	2.1	329.7		24.18	0.00	0.00	2.47		10.35	18.92	83.84	86.68	16-Mar-17 07:00:00		**34.53**	**18.92**	**83.84**	**89.15**
16-Mar-17 08:00:00	16-Mar-17 09:00:00		41.66	0.00	0.00	7.43	2.1	329.7		13.73	0.00	0.00	2.45		10.35	18.92	83.84	86.68	16-Mar-17 08:00:00		**24.08**	**18.92**	**83.84**	**89.13**
16-Mar-17 09:00:00	16-Mar-17 10:00:00		22.69	0.00	0.00	7.27	2.1	329.7		7.48	0.00	0.00	2.40		10.35	18.92	83.84	86.68	16-Mar-17 09:00:00		**17.83**	**18.92**	**83.84**	**89.08**
16-Mar-17 10:00:00	16-Mar-17 11:00:00		34.37	0.00	0.00	7.11	2.1	329.7		11.33	0.00	0.00	2.35		10.35	18.92	83.84	86.68	16-Mar-17 10:00:00		**21.68**	**18.92**	**83.84**	**89.03**
16-Mar-17 11:00:00	16-Mar-17 12:00:00		56.53	0.00	0.00	6.95	2.1	329.7		18.64	0.00	0.00	2.29		10.35	18.92	83.84	86.68	16-Mar-17 11:00:00		**28.99**	**18.92**	**83.84**	**88.97**
16-Mar-17 12:00:00	16-Mar-17 13:00:00		29.87	0.00	0.00	6.83	2.1	329.7		9.85	0.00	0.00	2.25		10.35	18.92	83.84	86.68	16-Mar-17 12:00:00		**20.20**	**18.92**	**83.84**	**88.93**
16-Mar-17 13:00:00	16-Mar-17 14:00:00		50.47	0.00	0.00	6.57	2.1	329.7		16.64	0.00	0.00	2.17		10.35	18.92	83.84	86.68	16-Mar-17 13:00:00		**26.99**	**18.92**	**83.84**	**88.85**
16-Mar-17 14:00:00	16-Mar-17 15:00:00		22.76	0.00	0.00	6.30	2.1	329.7		7.50	0.00	0.00	2.08		10.35	18.92	83.84	86.68	16-Mar-17 14:00:00		**17.85**	**18.92**	**83.84**	**88.76**
16-Mar-17 15:00:00	16-Mar-17 16:00:00		19.01	0.00	0.00	6.02	2.1	329.7		6.27	0.00	0.00	1.99		10.35	18.92	83.84	86.68	16-Mar-17 15:00:00		**16.62**	**18.92**	**83.84**	**88.67**
16-Mar-17 16:00:00	16-Mar-17 17:00:00		8.10	0.00	0.00	5.82	2.1	329.7		2.67	0.00	0.00	1.92		10.35	18.92	83.84	86.68	16-Mar-17 16:00:00		**13.02**	**18.92**	**83.84**	**88.60**
16-Mar-17 17:00:00	16-Mar-17 18:00:00		0.83	0.00	0.00	9.11	2.1	329.7		0.27	0.00	0.00	3.00		10.35	18.92	83.84	86.68	16-Mar-17 17:00:00		**10.62**	**18.92**	**83.84**	**89.68**
16-Mar-17 18:00:00	16-Mar-17 19:00:00		10.62	0.00	0.00	115.64	2.1	329.7		3.50	0.00	0.00	38.13		10.35	18.92	83.84	86.68	16-Mar-17 18:00:00		**13.85**	**18.92**	**83.84**	**124.81**
16-Mar-17 19:00:00	16-Mar-17 20:00:00		11.71	0.00	0.00	5.77	2.1	329.7		3.86	0.00	0.00	1.90		10.35	18.92	83.84	86.68	16-Mar-17 19:00:00		**14.21**	**18.92**	**83.84**	**88.58**
16-Mar-17 20:00:00	16-Mar-17 21:00:00		11.13	0.00	0.00	5.83	2.1	329.7		3.67	0.00	0.00	1.92		10.35	18.92	83.84	86.68	16-Mar-17 20:00:00		**14.02**	**18.92**	**83.84**	**88.60**
16-Mar-17 21:00:00	16-Mar-17 22:00:00		5.23	0.00	0.00	5.88	2.1	329.7		1.72	0.00	0.00	1.94		10.35	18.92	83.84	86.68	16-Mar-17 21:00:00		**12.07**	**18.92**	**83.84**	**88.62**
16-Mar-17 22:00:00	16-Mar-17 23:00:00		2.13	0.00	0.00	6.07	2.1	329.7		0.70	0.00	0.00	2.00		10.35	18.92	83.84	86.68	16-Mar-17 22:00:00		**11.05**	**18.92**	**83.84**	**88.68**
16-Mar-17 23:00:00	17-Mar-17 00:00:00		6.25	0.00	0.00	6.30	2.1	329.7		2.06	0.00	0.00	2.08		10.35	18.92	83.84	86.68	16-Mar-17 23:00:00		**12.41**	**18.92**	**83.84**	**88.76**
17-Mar-17 00:00:00	17-Mar-17 01:00:00		32.36	0.00	0.00	6.47	2.1	329.7		10.67	0.00	0.00	2.13		10.35	18.92	83.84	86.68	17-Mar-17 00:00:00		**21.02**	**18.92**	**83.84**	**88.81**
17-Mar-17 01:00:00	17-Mar-17 02:00:00		42.85	0.00	0.00	6.64	2.1	329.7		14.13	0.00	0.00	2.19		10.35	18.92	83.84	86.68	17-Mar-17 01:00:00		**24.48**	**18.92**	**83.84**	**88.87**
17-Mar-17 02:00:00	17-Mar-17 03:00:00		30.58	0.00	0.00	6.78	2.1	329.7		10.08	0.00	0.00	2.24		10.35	18.92	83.84	86.68	17-Mar-17 02:00:00		**20.43**	**18.92**	**83.84**	**88.92**
17-Mar-17 03:00:00	17-Mar-17 04:00:00		32.02	0.00	0.00	6.83	2.1	329.7		10.56	0.00	0.00	2.25		10.35	18.92	83.84	86.68	17-Mar-17 03:00:00		**20.91**	**18.92**	**83.84**	**88.93**
17-Mar-17 04:00:00	17-Mar-17 05:00:00		45.97	0.00	0.00	6.86	2.1	329.7		15.16	0.00	0.00	2.26		10.35	18.92	83.84	86.68	17-Mar-17 04:00:00		**25.51**	**18.92**	**83.84**	**88.94**
17-Mar-17 05:00:00	17-Mar-17 06:00:00		26.33	0.00	0.00	10.08	2.1	329.7		8.68	0.00	0.00	3.32		10.35	18.92	83.84	86.68	17-Mar-17 05:00:00		**19.03**	**18.92**	**83.84**	**90.00**
17-Mar-17 06:00:00	17-Mar-17 07:00:00		100.31	0.54	0.00	949.44	2.1	329.7		33.07	0.18	0.00	313.03		10.35	18.92	83.84	86.68	17-Mar-17 06:00:00		**43.42**	**19.10**	**83.84**	**399.71**
17-Mar-17 07:00:00	17-Mar-17 08:00:00		691.14	0.00	0.00	2,246.39	2.1	329.7		227.87	0.00	0.00	740.64		10.35	18.92	83.84	86.68	17-Mar-17 07:00:00		**238.22**	**18.92**	**83.84**	**827.32**
17-Mar-17 08:00:00	17-Mar-17 09:00:00		1,452.30	0.00	0.00	2,241.85	2.1	329.7		478.82	0.00	0.00	739.14		10.35	18.92	83.84	86.68	17-Mar-17 08:00:00		**489.17**	**18.92**	**83.84**	**825.82**
17-Mar-17 09:00:00	17-Mar-17 10:00:00		791.45	0.00	0.00	2,250.24	2.1	329.7		260.94	0.00	0.00	741.90		10.35	18.92	83.84	86.68	17-Mar-17 09:00:00		**271.29**	**18.92**	**83.84**	**828.58**
17-Mar-17 10:00:00	17-Mar-17 11:00:00		175.80	0.00	0.00

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
19-Mar-17 12:00:00	19-Mar-17 13:00:00		0.00	0.00	0.00	35.75	2.1	329.7		0.00	0.00	0.00	11.79		10.35	18.92	83.84	86.68	19-Mar-17 12:00:00		10.35	18.92	83.84	98.47
19-Mar-17 13:00:00	19-Mar-17 14:00:00		0.00	0.00	0.00	5.68	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	19-Mar-17 13:00:00		10.35	18.92	83.84	88.55
19-Mar-17 14:00:00	19-Mar-17 15:00:00		0.00	0.00	0.00	5.51	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	19-Mar-17 14:00:00		10.35	18.92	83.84	88.50
19-Mar-17 15:00:00	19-Mar-17 16:00:00		0.00	0.00	0.00	5.38	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	19-Mar-17 15:00:00		10.35	18.92	83.84	88.45
19-Mar-17 16:00:00	19-Mar-17 17:00:00		0.00	0.00	0.00	5.25	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	19-Mar-17 16:00:00		10.35	18.92	83.84	88.41
19-Mar-17 17:00:00	19-Mar-17 18:00:00		0.00	0.00	0.00	15.91	2.1	329.7		0.00	0.00	0.00	5.24		10.35	18.92	83.84	86.68	19-Mar-17 17:00:00		10.35	18.92	83.84	91.92
19-Mar-17 18:00:00	19-Mar-17 19:00:00		0.00	0.00	0.00	5.31	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	19-Mar-17 18:00:00		10.35	18.92	83.84	88.43
19-Mar-17 19:00:00	19-Mar-17 20:00:00		0.00	0.00	0.00	5.34	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	19-Mar-17 19:00:00		10.35	18.92	83.84	88.44
19-Mar-17 20:00:00	19-Mar-17 21:00:00		0.00	0.00	0.00	5.38	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	19-Mar-17 20:00:00		10.35	18.92	83.84	88.45
19-Mar-17 21:00:00	19-Mar-17 22:00:00		0.00	0.00	0.00	14.86	2.1	329.7		0.00	0.00	0.00	4.90		10.35	18.92	83.84	86.68	19-Mar-17 21:00:00		10.35	18.92	83.84	91.58
19-Mar-17 22:00:00	19-Mar-17 23:00:00		0.00	0.00	0.00	8.84	2.1	329.7		0.00	0.00	0.00	2.91		10.35	18.92	83.84	86.68	19-Mar-17 22:00:00		10.35	18.92	83.84	89.59
19-Mar-17 23:00:00	20-Mar-17 00:00:00		0.34	0.00	0.00	5.94	2.1	329.7		0.11	0.00	0.00	1.96		10.35	18.92	83.84	86.68	19-Mar-17 23:00:00		10.46	18.92	83.84	88.64
20-Mar-17 00:00:00	20-Mar-17 01:00:00		0.00	0.00	0.00	6.47	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	20-Mar-17 00:00:00		10.35	18.92	83.84	88.81
20-Mar-17 01:00:00	20-Mar-17 02:00:00		0.31	0.00	0.00	6.15	2.1	329.7		0.10	0.00	0.00	2.03		10.35	18.92	83.84	86.68	20-Mar-17 01:00:00		10.45	18.92	83.84	88.71
20-Mar-17 02:00:00	20-Mar-17 03:00:00		0.00	0.00	0.00	7.06	2.1	329.7		0.00	0.00	0.00	2.33		10.35	18.92	83.84	86.68	20-Mar-17 02:00:00		10.35	18.92	83.84	89.01
20-Mar-17 03:00:00	20-Mar-17 04:00:00		0.00	0.00	0.00	17.01	2.1	329.7		0.00	0.00	0.00	5.61		10.35	18.92	83.84	86.68	20-Mar-17 03:00:00		10.35	18.92	83.84	92.29
20-Mar-17 04:00:00	20-Mar-17 05:00:00		0.21	0.96	0.00	6.35	2.1	329.7		0.07	0.32	0.00	2.09		10.35	18.92	83.84	86.68	20-Mar-17 04:00:00		10.42	19.24	83.84	88.77
20-Mar-17 05:00:00	20-Mar-17 06:00:00		4.31	0.00	0.00	8.13	2.1	329.7		1.42	0.00	0.00	2.68		10.35	18.92	83.84	86.68	20-Mar-17 05:00:00		11.77	18.92	83.84	89.36
20-Mar-17 06:00:00	20-Mar-17 07:00:00		4.02	0.00	0.00	6.97	2.1	329.7		1.32	0.00	0.00	2.30		10.35	18.92	83.84	86.68	20-Mar-17 06:00:00		11.67	18.92	83.84	88.98
20-Mar-17 07:00:00	20-Mar-17 08:00:00		0.38	0.00	0.00	6.64	2.1	329.7		0.13	0.00	0.00	2.19		10.35	18.92	83.84	86.68	20-Mar-17 07:00:00		10.48	18.92	83.84	88.87
20-Mar-17 08:00:00	20-Mar-17 09:00:00		0.84	0.00	0.00	7.78	2.1	329.7		0.28	0.00	0.00	2.56		10.35	18.92	83.84	86.68	20-Mar-17 08:00:00		10.63	18.92	83.84	89.24
20-Mar-17 09:00:00	20-Mar-17 10:00:00		1.29	0.00	0.00	6.08	2.1	329.7		0.42	0.00	0.00	2.00		10.35	18.92	83.84	86.68	20-Mar-17 09:00:00		10.77	18.92	83.84	88.68
20-Mar-17 10:00:00	20-Mar-17 11:00:00		1.13	0.00	0.00	5.72	2.1	329.7		0.37	0.00	0.00	1.89		10.35	18.92	83.84	86.68	20-Mar-17 10:00:00		10.72	18.92	83.84	88.57
20-Mar-17 11:00:00	20-Mar-17 12:00:00		0.25	0.00	0.00	13.10	2.1	329.7		0.08	0.00	0.00	4.32		10.35	18.92	83.84	86.68	20-Mar-17 11:00:00		10.43	18.92	83.84	91.00
20-Mar-17 12:00:00	20-Mar-17 13:00:00		0.11	0.00	0.00	5.13	2.1	329.7		0.04	0.00	0.00	1.69		10.35	18.92	83.84	86.68	20-Mar-17 12:00:00		10.39	18.92	83.84	88.37
20-Mar-17 13:00:00	20-Mar-17 14:00:00		0.35	0.00	0.00	5.00	2.1	329.7		0.11	0.00	0.00	1.65		10.35	18.92	83.84	86.68	20-Mar-17 13:00:00		10.46	18.92	83.84	88.33
20-Mar-17 14:00:00	20-Mar-17 15:00:00		1.48	0.00	0.00	4.88	2.1	329.7		0.49	0.00	0.00	1.61		10.35	18.92	83.84	86.68	20-Mar-17 14:00:00		10.84	18.92	83.84	88.29
20-Mar-17 15:00:00	20-Mar-17 16:00:00		0.32	0.00	0.00	4.76	2.1	329.7		0.11	0.00	0.00	1.57		10.35	18.92	83.84	86.68	20-Mar-17 15:00:00		10.46	18.92	83.84	88.25
20-Mar-17 16:00:00	20-Mar-17 17:00:00		0.95	0.00	0.00	4.97	2.1	329.7		0.31	0.00	0.00	1.64		10.35	18.92	83.84	86.68	20-Mar-17 16:00:00		10.66	18.92	83.84	88.32
20-Mar-17 17:00:00	20-Mar-17 18:00:00		0.00	0.00	0.00	5.26	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	20-Mar-17 17:00:00		10.35	18.92	83.84	88.41
20-Mar-17 18:00:00	20-Mar-17 19:00:00		0.00	0.00	0.00	4.46	2.1	329.7		0.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	20-Mar-17 18:00:00		10.35	18.92	83.84	88.15
20-Mar-17 19:00:00	20-Mar-17 20:00:00		0.00	0.00	0.00	22.16	2.1	329.7		0.00	0.00	0.00	7.30		10.35	18.92	83.84	86.68	20-Mar-17 19:00:00		10.35	18.92	83.84	93.98
20-Mar-17 20:00:00	20-Mar-17 21:00:00		0.00	0.00	0.00	4.46	2.1	329.7		0.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	20-Mar-17 20:00:00		10.35	18.92	83.84	88.15
20-Mar-17 21:00:00	20-Mar-17 22:00:00		0.00	0.00	0.00	7.02	2.1	329.7		0.00	0.00	0.00	2.31		10.35	18.92	83.84	86.68	20-Mar-17 21:00:00		10.35	18.92	83.84	88.99
20-Mar-17 22:00:00	20-Mar-17 23:00:00		0.00	0.00	0.00	4.76	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	20-Mar-17 22:00:00		10.35	18.92	83.84	88.25
20-Mar-17 23:00:00	21-Mar-17 00:00:00		0.00	0.00	0.00	11.63	2.1	329.7		0.00	0.00	0.00	3.84		10.35	18.92	83.84	86.68	20-Mar-17 23:00:00		10.35	18.92	83.84	90.52
21-Mar-17 00:00:00	21-Mar-17 01:00:00		0.00	0.00	0.00	8.41	2.1	329.7		0.00	0.00	0.00	2.77		10.35	18.92	83.84	86.68	21-Mar-17 00:00:00		10.35	18.92	83.84	89.45
21-Mar-17 01:00:00	21-Mar-17 02:00:00		0.00	0.00	0.00	34.38	2.1	329.7		0.00	0.00	0.00	11.33		10.35	18.92	83.84	86.68	21-Mar-17 01:00:00		10.35	18.92	83.84	98.01
21-Mar-17 02:00:00	21-Mar-17 03:00:00		0.00	1.00	0.00	5.35	2.1	329.7		0.00	0.33	0.00	1.77		10.35	18.92	83.84	86.68	21-Mar-17 02:00:00		10.35	19.25	83.84	88.45
21-Mar-17 03:00:00	21-Mar-17 04:00:00		0.00	0.00	0.00	8.38	2.1	329.7		0.00	0.00	0.00	2.76		10.35	18.92	83.84	86.68	21-Mar-17 03:00:00		10.35	18.92	83.84	89.44
21-Mar-17 04:00:00	21-Mar-17 05:00:00		0.01	0.00	0.00	5.25	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	21-Mar-17 04:00:00		10.35	18.92	83.84	88.41
21-Mar-17 05:00:00	21-Mar-17 06:00:00		0.46	0.00	0.00	6.41	2.1	329.7		0.15	0.00	0.00	2.11		10.35	18.92	83.84	86.68	21-Mar-17 05:00:00		10.50	18.92	83.84	88.79
21-Mar-17 06:00:00	21-Mar-17 07:00:00		1.13	0.00	0.00	16.98	2.1	329.7		0.37	0.00	0.00	5.60		10.35	18.92	83.84	86.68	21-Mar-17 06:00:00		10.72	18.92	83.84	92.28
21-Mar-17 07:00:00	21-Mar-17 08:00:00		1.80	0.00	0.00	10.35	2.1	329.7		0.59	0.00	0.00	3.41		10.35	18.92	83.84	86.68	21-Mar-17 07:00:00		10.94	18.92	83.84	90.09
21-Mar-17 08:00:00	21-Mar-17 09:00:00		2.72	0.00	0.00	9.67	2.1	329.7		0.90	0.00	0.00	3.19		10.35	18.92	83.84	86.68	21-Mar-17 08:00:00		11.25	18.92	83.84	89.87
21-Mar-17 09:00:00	21-Mar-17 10:00:00		1.92	0.00	0.00	5.22	2.1	329.7		0.63	0.00	0.00	1.72		10.35	18.92	83.84	86.68	21-Mar-17 09:00:00		10.98	18.92	83.84	88.40
21-Mar-17 10:00:00	21-Mar-17 11:00:00		1.07	0.00	0.00	4.77	2.1	329.7		0.35	0.00	0.00	1.57		10.35	18.92	83.84	86.68	21-Mar-17 10:00:00		10.70	18.92	83.84	88.25
21-Mar-17 11:00:00	21-Mar-17 12:00:00		0.17	0.00	0.00	5.90	2.1	329.7		0.05	0.00	0.00	1.95		10.35	18.92	83.84	86.68	21-Mar-17 11:00:00		10.40	18.92	83.84	88.63
21-Mar-17 12:00:00	21-Mar-17 13:00:00		0.00	0.00	0.00	4.26	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	21-Mar-17 12:00:00		10.35	18.92	83.84	88.08
21-Mar-17 13:00:00	21-Mar-17 14:00:00		0.00	0.00	0.00	4.06	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	21-Mar-17 13:00:00		10.35	18.92	83.84	88.02
21-Mar-17 14:00:00	21-Mar-17 15:00:00		0.37	0.00	0.00	3.86	2.1	329.7		0.12	0.00	0.00	1.27		10.35	18.92	83.84	86.68	21-Mar-17 14:00:00		10.47	18.92	83.84	87.95
21-Mar-17 15:00:00	21-Mar-17 16:00:00		0.78	0.00	0.00	3.87	2.1	329.7		0.26	0.00	0.00	1.28		10.35	18.92	83.84	86.68	21-Mar-17 15:00:00		10.61	18.92	83.84	87.96
21-Mar-17 16:00:00	21-Mar-17 17:00:00		3.76	0.00	0.00	3.49	2.1	329.7		1.24	0.00	0.00	1.15		10.35	18.92	83.84	86.68	21-Mar-17 16:00:00		11.59	18.92	83.84	87.83
21-Mar-17 17:00:00	21-Mar-17 18:00:00		22.96	0.00	0.00	3.93	2.1	329.7		7.57	0.00	0.00	1.30		10.35	18.92	83.84	86.68	21-Mar-17 17:00:00		17.92	18.92	83.84	87.98
21-Mar-17 18:00:00	21-Mar-17 19:00:00		27.81	0.00	0.00	8.05	2.1	329.7		9.17	0.00	0.00	2.65		10.35	18.92	83.84	86.68	21-Mar-17 18:00:00		19.52	18.92	83.84	89.33
21-Mar-17 19:00:00	21-Mar-17 20:00:00		29.95	0.00	0.00	3.85	2.1	329.7		9.87	0.00	0.00	1.27		10.35	18.92	83.84	86.68	21-Mar-17 19:00:00		20.22	18.92	83.84	87.95
21-Mar-17 20:00:00	21-Mar-17 21:00:00		29.74	0.00	0.00	4.29	2.1	329.7		9.81	0.00	0.00	1.41		10.35	18.92	83.84	86.68	21-Mar-17 20:00:00		20.16	18.92	83.84	88.09
21-Mar-17 21:00:00	21-Mar-17 22:00:00		29.54	0.00	0.00	4.74	2.1	329.7		9.74	0.00	0.00	1.56		10.35	18.92	83.84	86.68	21-Mar-17 21:00:00		20.09	18.92	83.84	88.24
21-Mar-17 22:00:00	21-Mar-17 23:00:00		9.22	0.00	0.00	5.72	2.1	329.7		3.04	0.00	0.00	1.89		10.35	18.92	83.84	86.68	21-Mar-17 22:00:00		13.39	18.92	83.84	88.57
21-Mar-17 23:00:00	22-Mar-17 00:00:00		0.00	0.00	0.00	5.43	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	21-Mar-17 23:00:00		10.35	18.92	83.84	88.47
22-Mar-17 00:00:00	22-Mar-17 01:00:00		0.00	0.00	0.00	5.67	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	22-Mar-17 00:00:00		10.35	18.92	83.84	88.55
22-Mar-17 01:00:00	22-Mar-17 02:00:00		0.00	0.00	0.00	14.36	2.1	329.7		0.00	0.00	0.00	4.73		10.35	18.92	83.84	86.68	22-Mar-17 01:00:00		10.35	18.92	83.84	91.41
22-Mar-17 02:00:00	22-Mar-17 03:00:00		0.00	0.00	0.00	5.33	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	22-Mar-17 02:00:00		10.35	18.92	83.84	88.44
22-Mar-17 03:00:00	22-Mar-17 04:00:00		0.00	0.00	0.00	6.91	2.1	329.7		0.00	0.00	0.00	2.28		10.35	18.92	83.84	86.68	22-Mar-17 03:00:00		10.35	18.92	83.84	88.96
22-Mar-17 04:00:00	22-Mar-17 05:00:00		0.00	0.00	0.00	39.10	2.1	329.7		0.00	0.00	0.00	12.89		10.35	18.92	83.84	86.68	22-Mar-17 04:00:00		10.35	18.92	83.84	99.57
22-Mar-17 05:00:00	22-Mar-17 06:00:00		0.00	0.00	0.00	5.58	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	22-Mar-17 05:00:00		10.35	18.92	83.84	88.52
22-Mar-17 06:00:00	22-Mar-17 07:00:00		0.00	0.00	0.00	5.59	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	22-Mar-17 06:00:00		10.35	18.92	83.84	88.52
22-Mar-17 07:00:00	22-Mar-17 08:00:00		0.00	0.00	0.00	13.37	2.1	329.7		0.00	0.00	0.00	4.41		10.35	18.92	83.84	86.68	22-Mar-17 07:00:00		10.35	18.92	83.84	91.09
22-Mar-17 08:00:00	22-Mar-17 09:00:00		1.14	0.00	0.00	5.50	2.1	329.7		0.38	0.00	0.00	1.81		10.35	18.92	83.84	86.68	22-Mar-17 08:00:00		10.73	18.92	83.84	88.49
22-Mar-17 09:00:00	22-Mar-17 10:00:00		1.01	0.00	0.00	5.28	2.1	329.7		0.33	0.00	0.00	1.74		10.35	18.92	83.84	86.68	22-Mar-17 09:00:00		10.68	18.92	83.84	88.42
22-Mar-17 10:00:00	22-Mar-17 11:00:00		0.69	0.00	0.00	5.07	2.1	329.7		0.23	0.00	0.00	1.67		10.35	18.92	83.84	86.68	22-Mar-17 10:00:00		10.58	18.92	83.84	88.35
22-Mar-17 11:00:00	22-Mar-17 12:00:00		0.37	0.00	0.00	6.27	2.1	329.7		0.12	0.00	0.00	2.07		10.35	18.92	83.84	86.68	22-Mar-17 11:00:00		10.47	18.92	83.84	88.75
22-Mar-17 12:00:00	22-Mar-17 13:00:00		0.07	0.00	0.00	10.97	2.1	329.7		0.02	0.00	0.00	3.62		10.35	18.92	83.84	86.68	22-Mar-17 12:00:00		10.37	18.92	83.84	90.30
22-Mar-17 13:00:00	22-Mar-17 14:00:00		0.00	0.00	0.00	5.40	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	22-Mar-17 13:00:00		10.35	18.92	83.84	88.46
22-Mar-17 14:00:00	22-Mar-17 15:00:00		0.00	0.00	0.00	5.21	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	22-Mar-17 14:00:00		10.35	18.92	83.84	88.40
22-Mar-17 15:00:00	22-Mar-17 16:00:00		0.00	0.00	0.00	5.27	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	22-Mar-17 15:00:00		10.35	18.92	83.84	88.42
22-Mar-17 16:00:00	22-Mar-17 17:00:00		0.05	0.00	0.00	5.32	2.1	329.7		0.02	0.00	0.00	1.75		10.35	18.92	83.84	86.68	22-Mar-17 16:00:00		10.37	18.92	83.84	88.43
22-Mar-17 17:00:00	22-Mar-17 18:00:00		0.65	0.00	0.00	5.25	2.1	329.7		0.21	0.00	0.00	1.73		10.35	18.92	83.84	86.68	22-Mar-17 17:00:00		10.56	18.92	83.84	88.41
22-Mar-17 18:00:00	22-Mar-17 19:00:00		0.93	0.00	0.00	5.34	2.1	329.7		0.31	0.00	0.00	1.76		10.35	18.92	83.84	86.68	22-Mar-17 18:00:00		10.66	18.92	83.84	88.44
22-Mar-17 19:00:00	22-Mar-17 20:00:00		0.00	0.00	0.00	5.43	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	22-Mar-17 19:00:00		10.35	18.92	83.84	88.47
22-Mar-17 20:00:00	22-Mar-17 21:00:00		0.84	0.00	0.00	17.06	2.1	329.7		0.28	0.00	0.00	5.62		10.35	18.92	83.84	86.68	22-Mar-17 20:00:00		10.63	18.92	83.84	92.30
22-Mar-17 21:00:00	22-Mar-17 22:00:00		4.84	0.00	0.00	6.16	2.1	329.7		1.60	0.00	0.00	2.03		10.35	18.92	83.84	86.68	22-Mar-17 21:00:00		11.95	18.92	83.84	88.71
22-Mar-17 22:00:00	22-Mar-17 23:00:00		4.65	0.00	0.00	5.82	2.1	329.7		1.53	0.00	0.00	1.92		10.35	18.92	83.84	86.68	22-Mar-17 22:00:00		11.88	18.92	83.84	88.60
22-Mar-17 23:00:00	23-Mar-17 00:00:00		0.00	0.00	0.00	19.99	2.1	329.7		0.00	0.00	0.00	6.59		10.35	18.92	83.84	86.68	22-Mar-17 23:00:00		10.35	18.92	83.84	93.27
23-Mar-17 00:00:00	23-Mar-17 01:00:00		0.00	0.00	0.00	6.40	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	23-Mar-17 00:00:00		10.35	18.92	83.84	88.79
23-Mar-17 01:00:00	23-Mar-17 02:00:00		0.00	0.00	0.00	7.46	2.1	329.7		0.00	0.00	0.00	2.46		10.35	18.92	83.84	86.68	23-Mar-17 01:00:00		10.35	18.92	83.84	89.14
23-Mar-17 02:00:00	23-Mar-17 03:00:00		0.10	0.00	0.00	6.76	2.1	329.7		0.03	0.00	0.00	2.23		10.35	18.92	83.84	86.68	23-Mar-17 02:00:00		10.38	18.92	83.84	88.91
23-Mar-17 03:00:00	23-Mar-17 04:00:00		1.89	0.00	0.00	8.44	2.1	329.7		0.62	0.00	0.00	2.78		10.35	18.92	83.84	86.68	23-Mar-17 03:00:00		10.97	18.92	83.84	89.46
23-Mar-17 04:00:00	23-Mar-17 05:00:00		0.12	0.00	0.00	6.91	2.1	329.7		0.04	0.00	0.00	2.28		10.35	18.92	83.84	86.68	23-Mar-17 04:00:00		10.39	18.92	83.84	88.96
23-Mar-17 05:00:00	23-Mar-17 06:00:00		0.51	0.00	0.00	6.88	2.1	329.7		0.17	0.00	0.00	2.27		10.35	18.92	83.84	86.68	23-Mar-17 05:00:00		10.52	18.92	83.84	88.95
23-Mar-17 06:00:00	23-Mar-17 07:00:00		3.81	0.00	0.00	7.63	2.1	329.7		1.25	0.00	0.00	2.51		10.35	18.92	83.84	86.68	23-Mar-17 06:00:00		11.60	18.92	83.84	89.19
23-Mar-17 07:00:00	23-Mar-17 08:00:00		13.31	0.00	0.00	6.84	2.1	329.7		4.39	0.00	0.00	2.25		10.35	18.92	83.84	86.68	23-Mar-17 07:00:00		14.74	18.92	83.84	88.93
23-Mar-17 08:00:00	23-Mar-17 09:00:00		7.24	0.00	0.00	28.65	2.1	329.7		2.39	0.00	0.00	9.45		10.35	18.92	83.84	86.68	23-Mar-17 08:00:00		12.74	18.92	83.84	96.13
23-Mar-17 09:00:00	23-Mar-17 10:00:00		5.31	0.00	0.00	6.82

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
25-Mar-17 11:00:00	25-Mar-17 12:00:00		0.52	0.00	0.00	5.19	2.1	329.7		0.17	0.00	0.00	1.71		10.35	18.92	83.84	86.68	25-Mar-17 11:00:00		10.52	18.92	83.84	88.39
25-Mar-17 12:00:00	25-Mar-17 13:00:00		0.00	0.00	0.00	21.43	2.1	329.7		0.00	0.00	0.00	7.07		10.35	18.92	83.84	86.68	25-Mar-17 12:00:00		10.35	18.92	83.84	93.75
25-Mar-17 13:00:00	25-Mar-17 14:00:00		0.00	0.00	0.00	4.77	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	25-Mar-17 13:00:00		10.35	18.92	83.84	88.25
25-Mar-17 14:00:00	25-Mar-17 15:00:00		0.00	0.00	0.00	4.57	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	25-Mar-17 14:00:00		10.35	18.92	83.84	88.19
25-Mar-17 15:00:00	25-Mar-17 16:00:00		0.00	0.00	0.00	4.36	2.1	329.7		0.00	0.00	0.00	1.44		10.35	18.92	83.84	86.68	25-Mar-17 15:00:00		10.35	18.92	83.84	88.12
25-Mar-17 16:00:00	25-Mar-17 17:00:00		0.00	0.00	0.00	4.16	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	25-Mar-17 16:00:00		10.35	18.92	83.84	88.05
25-Mar-17 17:00:00	25-Mar-17 18:00:00		0.00	0.00	0.00	4.12	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	25-Mar-17 17:00:00		10.35	18.92	83.84	88.04
25-Mar-17 18:00:00	25-Mar-17 19:00:00		0.00	0.00	0.00	4.11	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	25-Mar-17 18:00:00		10.35	18.92	83.84	88.04
25-Mar-17 19:00:00	25-Mar-17 20:00:00		0.00	0.00	0.00	4.11	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	25-Mar-17 19:00:00		10.35	18.92	83.84	88.04
25-Mar-17 20:00:00	25-Mar-17 21:00:00		0.00	391.32	0.00	24.86	2.1	329.7		0.00	129.02	0.00	8.20		10.35	18.92	83.84	86.68	25-Mar-17 20:00:00		10.35	147.94	83.84	94.88
25-Mar-17 21:00:00	25-Mar-17 22:00:00		0.00	2,037.39	0.00	4.64	2.1	329.7		0.00	671.73	0.00	1.53		10.35	18.92	83.84	86.68	25-Mar-17 21:00:00		10.35	690.65	83.84	88.21
25-Mar-17 22:00:00	25-Mar-17 23:00:00		0.00	2,273.97	0.00	4.87	2.1	329.7		0.00	749.73	0.00	1.61		10.35	18.92	83.84	86.68	25-Mar-17 22:00:00		10.35	768.65	83.84	88.29
25-Mar-17 23:00:00	26-Mar-17 00:00:00		0.00	2,275.92	0.00	5.10	2.1	329.7		0.00	750.37	0.00	1.68		10.35	18.92	83.84	86.68	25-Mar-17 23:00:00		10.35	769.29	83.84	88.36
26-Mar-17 00:00:00	26-Mar-17 01:00:00		0.00	2,280.00	0.00	5.33	2.1	329.7		0.00	751.72	0.00	1.76		10.35	18.92	83.84	86.68	26-Mar-17 00:00:00		10.35	770.64	83.84	88.44
26-Mar-17 01:00:00	26-Mar-17 02:00:00		0.00	1,496.13	0.00	5.40	2.1	329.7		0.00	493.27	0.00	1.78		10.35	18.92	83.84	86.68	26-Mar-17 01:00:00		10.35	512.19	83.84	88.46
26-Mar-17 02:00:00	26-Mar-17 03:00:00		0.00	940.62	0.00	5.44	2.1	329.7		0.00	310.12	0.00	1.79		10.35	18.92	83.84	86.68	26-Mar-17 02:00:00		10.35	329.04	83.84	88.47
26-Mar-17 03:00:00	26-Mar-17 04:00:00		0.00	940.35	0.00	5.48	2.1	329.7		0.00	310.03	0.00	1.81		10.35	18.92	83.84	86.68	26-Mar-17 03:00:00		10.35	328.95	83.84	88.49
26-Mar-17 04:00:00	26-Mar-17 05:00:00		0.00	943.43	0.00	5.51	2.1	329.7		0.00	311.05	0.00	1.82		10.35	18.92	83.84	86.68	26-Mar-17 04:00:00		10.35	329.97	83.84	88.50
26-Mar-17 05:00:00	26-Mar-17 06:00:00		0.00	410.10	0.00	5.54	2.1	329.7		0.00	135.21	0.00	1.83		10.35	18.92	83.84	86.68	26-Mar-17 05:00:00		10.35	154.13	83.84	88.51
26-Mar-17 06:00:00	26-Mar-17 07:00:00		206.72	0.00	0.00	5.60	2.1	329.7		68.16	0.00	0.00	1.85		10.35	18.92	83.84	86.68	26-Mar-17 06:00:00		78.51	18.92	83.84	88.53
26-Mar-17 07:00:00	26-Mar-17 08:00:00		711.81	0.00	0.00	5.67	2.1	329.7		234.69	0.00	0.00	1.87		10.35	18.92	83.84	86.68	26-Mar-17 07:00:00		245.04	18.92	83.84	88.55
26-Mar-17 08:00:00	26-Mar-17 09:00:00		775.52	0.00	0.00	5.70	2.1	329.7		255.69	0.00	0.00	1.88		10.35	18.92	83.84	86.68	26-Mar-17 08:00:00		266.04	18.92	83.84	88.56
26-Mar-17 09:00:00	26-Mar-17 10:00:00		776.77	0.00	0.00	5.44	2.1	329.7		256.10	0.00	0.00	1.79		10.35	18.92	83.84	86.68	26-Mar-17 09:00:00		266.45	18.92	83.84	88.47
26-Mar-17 10:00:00	26-Mar-17 11:00:00		689.54	0.00	0.00	5.22	2.1	329.7		227.34	0.00	0.00	1.72		10.35	18.92	83.84	86.68	26-Mar-17 10:00:00		237.69	18.92	83.84	88.40
26-Mar-17 11:00:00	26-Mar-17 12:00:00		686.78	0.00	0.00	4.99	2.1	329.7		226.43	0.00	0.00	1.64		10.35	18.92	83.84	86.68	26-Mar-17 11:00:00		236.78	18.92	83.84	88.32
26-Mar-17 12:00:00	26-Mar-17 13:00:00		678.79	0.00	0.00	4.76	2.1	329.7		223.80	0.00	0.00	1.57		10.35	18.92	83.84	86.68	26-Mar-17 12:00:00		234.15	18.92	83.84	88.25
26-Mar-17 13:00:00	26-Mar-17 14:00:00		685.97	0.00	0.00	4.64	2.1	329.7		226.17	0.00	0.00	1.53		10.35	18.92	83.84	86.68	26-Mar-17 13:00:00		236.52	18.92	83.84	88.21
26-Mar-17 14:00:00	26-Mar-17 15:00:00		704.03	0.00	0.00	4.64	2.1	329.7		232.12	0.00	0.00	1.53		10.35	18.92	83.84	86.68	26-Mar-17 14:00:00		242.47	18.92	83.84	88.21
26-Mar-17 15:00:00	26-Mar-17 16:00:00		698.70	0.00	0.00	4.64	2.1	329.7		230.36	0.00	0.00	1.53		10.35	18.92	83.84	86.68	26-Mar-17 15:00:00		240.71	18.92	83.84	88.21
26-Mar-17 16:00:00	26-Mar-17 17:00:00		688.97	0.00	0.00	4.65	2.1	329.7		227.15	0.00	0.00	1.53		10.35	18.92	83.84	86.68	26-Mar-17 16:00:00		237.50	18.92	83.84	88.21
26-Mar-17 17:00:00	26-Mar-17 18:00:00		689.19	0.00	0.00	4.79	2.1	329.7		227.23	0.00	0.00	1.58		10.35	18.92	83.84	86.68	26-Mar-17 17:00:00		237.58	18.92	83.84	88.26
26-Mar-17 18:00:00	26-Mar-17 19:00:00		664.55	0.00	0.00	4.93	2.1	329.7		219.10	0.00	0.00	1.63		10.35	18.92	83.84	86.68	26-Mar-17 18:00:00		229.45	18.92	83.84	88.31
26-Mar-17 19:00:00	26-Mar-17 20:00:00		618.71	41.13	0.00	5.08	2.1	329.7		203.99	13.56	0.00	1.67		10.35	18.92	83.84	86.68	26-Mar-17 19:00:00		214.34	32.48	83.84	88.35
26-Mar-17 20:00:00	26-Mar-17 21:00:00		615.47	0.00	0.00	5.21	2.1	329.7		202.92	0.00	0.00	1.72		10.35	18.92	83.84	86.68	26-Mar-17 20:00:00		213.27	18.92	83.84	88.40
26-Mar-17 21:00:00	26-Mar-17 22:00:00		618.92	0.00	0.00	5.22	2.1	329.7		204.06	0.00	0.00	1.72		10.35	18.92	83.84	86.68	26-Mar-17 21:00:00		214.41	18.92	83.84	88.40
26-Mar-17 22:00:00	26-Mar-17 23:00:00		874.40	0.00	0.00	5.22	2.1	329.7		288.29	0.00	0.00	1.72		10.35	18.92	83.84	86.68	26-Mar-17 22:00:00		298.64	18.92	83.84	88.40
26-Mar-17 23:00:00	27-Mar-17 00:00:00		1,434.36	0.00	0.00	5.22	2.1	329.7		472.91	0.00	0.00	1.72		10.35	18.92	83.84	86.68	26-Mar-17 23:00:00		483.26	18.92	83.84	88.40
27-Mar-17 00:00:00	27-Mar-17 01:00:00		1,367.51	0.00	0.00	5.22	2.1	329.7		450.87	0.00	0.00	1.72		10.35	18.92	83.84	86.68	27-Mar-17 00:00:00		461.22	18.92	83.84	88.40
27-Mar-17 01:00:00	27-Mar-17 02:00:00		1,348.31	0.00	0.00	5.21	2.1	329.7		444.54	0.00	0.00	1.72		10.35	18.92	83.84	86.68	27-Mar-17 01:00:00		454.89	18.92	83.84	88.40
27-Mar-17 02:00:00	27-Mar-17 03:00:00		1,311.66	0.00	0.00	5.21	2.1	329.7		432.45	0.00	0.00	1.72		10.35	18.92	83.84	86.68	27-Mar-17 02:00:00		442.80	18.92	83.84	88.40
27-Mar-17 03:00:00	27-Mar-17 04:00:00		1,311.14	0.00	0.00	5.21	2.1	329.7		432.28	0.00	0.00	1.72		10.35	18.92	83.84	86.68	27-Mar-17 03:00:00		442.63	18.92	83.84	88.40
27-Mar-17 04:00:00	27-Mar-17 05:00:00		1,314.33	0.00	0.00	5.20	2.1	329.7		433.34	0.00	0.00	1.72		10.35	18.92	83.84	86.68	27-Mar-17 04:00:00		443.69	18.92	83.84	88.40
27-Mar-17 05:00:00	27-Mar-17 06:00:00		1,410.59	0.00	0.00	5.20	2.1	329.7		465.07	0.00	0.00	1.71		10.35	18.92	83.84	86.68	27-Mar-17 05:00:00		475.42	18.92	83.84	88.39
27-Mar-17 06:00:00	27-Mar-17 07:00:00		1,424.24	0.00	0.00	5.23	2.1	329.7		469.57	0.00	0.00	1.72		10.35	18.92	83.84	86.68	27-Mar-17 06:00:00		479.92	18.92	83.84	88.40
27-Mar-17 07:00:00	27-Mar-17 08:00:00		1,316.02	0.00	0.00	5.27	2.1	329.7		433.89	0.00	0.00	1.74		10.35	18.92	83.84	86.68	27-Mar-17 07:00:00		444.24	18.92	83.84	88.42
27-Mar-17 08:00:00	27-Mar-17 09:00:00		0.05	0.00	0.00	5.30	2.1	329.7		0.02	0.00	0.00	1.75		10.35	18.92	83.84	86.68	27-Mar-17 08:00:00		10.37	18.92	83.84	88.43
27-Mar-17 09:00:00	27-Mar-17 10:00:00		0.00	0.00	0.00	5.19	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	27-Mar-17 09:00:00		10.35	18.92	83.84	88.39
27-Mar-17 10:00:00	27-Mar-17 11:00:00		0.00	0.00	0.00	5.16	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	27-Mar-17 10:00:00		10.35	18.92	83.84	88.38
27-Mar-17 11:00:00	27-Mar-17 12:00:00		0.00	0.00	0.00	5.14	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	27-Mar-17 11:00:00		10.35	18.92	83.84	88.37
27-Mar-17 12:00:00	27-Mar-17 13:00:00		0.00	0.00	0.00	5.10	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	27-Mar-17 12:00:00		10.35	18.92	83.84	88.36
27-Mar-17 13:00:00	27-Mar-17 14:00:00		0.00	0.00	0.00	4.84	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	27-Mar-17 13:00:00		10.35	18.92	83.84	88.28
27-Mar-17 14:00:00	27-Mar-17 15:00:00		0.00	0.00	0.00	4.59	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	27-Mar-17 14:00:00		10.35	18.92	83.84	88.19
27-Mar-17 15:00:00	27-Mar-17 16:00:00		0.00	0.00	0.00	4.35	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	27-Mar-17 15:00:00		10.35	18.92	83.84	88.11
27-Mar-17 16:00:00	27-Mar-17 17:00:00		0.00	0.00	0.00	4.10	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	27-Mar-17 16:00:00		10.35	18.92	83.84	88.03
27-Mar-17 17:00:00	27-Mar-17 18:00:00		0.00	0.00	0.00	4.01	2.1	329.7		0.00	0.00	0.00	1.32		10.35	18.92	83.84	86.68	27-Mar-17 17:00:00		10.35	18.92	83.84	88.00
27-Mar-17 18:00:00	27-Mar-17 19:00:00		0.00	0.00	0.00	4.04	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	27-Mar-17 18:00:00		10.35	18.92	83.84	88.01
27-Mar-17 19:00:00	27-Mar-17 20:00:00		0.00	0.00	0.00	8.27	2.1	329.7		0.00	0.00	0.00	2.73		10.35	18.92	83.84	86.68	27-Mar-17 19:00:00		10.35	18.92	83.84	89.41
27-Mar-17 20:00:00	27-Mar-17 21:00:00		0.00	0.00	0.00	80.18	2.1	329.7		0.00	0.00	0.00	26.44		10.35	18.92	83.84	86.68	27-Mar-17 20:00:00		10.35	18.92	83.84	113.12
27-Mar-17 21:00:00	27-Mar-17 22:00:00		0.00	0.00	0.00	4.19	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	27-Mar-17 21:00:00		10.35	18.92	83.84	88.06
27-Mar-17 22:00:00	27-Mar-17 23:00:00		0.00	0.00	0.00	4.35	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	27-Mar-17 22:00:00		10.35	18.92	83.84	88.11
27-Mar-17 23:00:00	28-Mar-17 00:00:00		0.00	0.00	0.00	4.50	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	27-Mar-17 23:00:00		10.35	18.92	83.84	88.16
28-Mar-17 00:00:00	28-Mar-17 01:00:00		0.00	0.00	0.00	4.66	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	28-Mar-17 00:00:00		10.35	18.92	83.84	88.21
28-Mar-17 01:00:00	28-Mar-17 02:00:00		0.00	0.00	0.00	6.52	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	28-Mar-17 01:00:00		10.35	18.92	83.84	88.83
28-Mar-17 02:00:00	28-Mar-17 03:00:00		0.00	0.00	0.00	5.15	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	28-Mar-17 02:00:00		10.35	18.92	83.84	88.38
28-Mar-17 03:00:00	28-Mar-17 04:00:00		0.00	0.00	0.00	5.32	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	28-Mar-17 03:00:00		10.35	18.92	83.84	88.43
28-Mar-17 04:00:00	28-Mar-17 05:00:00		0.36	0.00	0.00	5.48	2.1	329.7		0.12	0.00	0.00	1.81		10.35	18.92	83.84	86.68	28-Mar-17 04:00:00		10.47	18.92	83.84	88.49
28-Mar-17 05:00:00	28-Mar-17 06:00:00		1.17	0.00	0.00	5.64	2.1	329.7		0.39	0.00	0.00	1.86		10.35	18.92	83.84	86.68	28-Mar-17 05:00:00		10.74	18.92	83.84	88.54
28-Mar-17 06:00:00	28-Mar-17 07:00:00		1.91	0.00	0.00	5.59	2.1	329.7		0.63	0.00	0.00	1.84		10.35	18.92	83.84	86.68	28-Mar-17 06:00:00		10.98	18.92	83.84	88.52
28-Mar-17 07:00:00	28-Mar-17 08:00:00		3.44	0.00	0.00	5.48	2.1	329.7		1.13	0.00	0.00	1.81		10.35	18.92	83.84	86.68	28-Mar-17 07:00:00		11.48	18.92	83.84	88.49
28-Mar-17 08:00:00	28-Mar-17 09:00:00		0.28	0.00	0.00	5.36	2.1	329.7		0.09	0.00	0.00	1.77		10.35	18.92	83.84	86.68	28-Mar-17 08:00:00		10.44	18.92	83.84	88.45
28-Mar-17 09:00:00	28-Mar-17 10:00:00		0.00	0.00	0.00	5.25	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	28-Mar-17 09:00:00		10.35	18.92	83.84	88.41
28-Mar-17 10:00:00	28-Mar-17 11:00:00		0.00	0.00	0.00	5.12	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	28-Mar-17 10:00:00		10.35	18.92	83.84	88.37
28-Mar-17 11:00:00	28-Mar-17 12:00:00		0.00	0.00	0.00	4.98	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	28-Mar-17 11:00:00		10.35	18.92	83.84	88.32
28-Mar-17 12:00:00	28-Mar-17 13:00:00		1.60	0.00	0.00	4.84	2.1	329.7		0.53	0.00	0.00	1.59		10.35	18.92	83.84	86.68	28-Mar-17 12:00:00		10.88	18.92	83.84	88.27
28-Mar-17 13:00:00	28-Mar-17 14:00:00		0.91	0.00	0.00	4.69	2.1	329.7		0.30	0.00	0.00	1.55		10.35	18.92	83.84	86.68	28-Mar-17 13:00:00		10.65	18.92	83.84	88.23
28-Mar-17 14:00:00	28-Mar-17 15:00:00		0.00	11.03	0.00	4.54	2.1	329.7		0.00	3.64	0.00	1.50		10.35	18.92	83.84	86.68	28-Mar-17 14:00:00		10.35	22.56	83.84	88.18
28-Mar-17 15:00:00	28-Mar-17 16:00:00		0.17	2.70	0.00	4.39	2.1	329.7		0.06	0.89	0.00	1.45		10.35	18.92	83.84	86.68	28-Mar-17 15:00:00		10.41	19.81	83.84	88.13
28-Mar-17 16:00:00	28-Mar-17 17:00:00		0.00	0.00	0.00	4.24	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	28-Mar-17 16:00:00		10.35	18.92	83.84	88.08
28-Mar-17 17:00:00	28-Mar-17 18:00:00		0.00	0.00	0.00	4.08	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	28-Mar-17 17:00:00		10.35	18.92	83.84	88.03
28-Mar-17 18:00:00	28-Mar-17 19:00:00		0.00	0.00	0.00	4.02	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	28-Mar-17 18:00:00		10.35	18.92	83.84	88.01
28-Mar-17 19:00:00	28-Mar-17 20:00:00		0.00	0.00	0.00	4.16	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	28-Mar-17 19:00:00		10.35	18.92	83.84	88.05
28-Mar-17 20:00:00	28-Mar-17 21:00:00		0.00	0.00	0.00	4.29	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	28-Mar-17 20:00:00		10.35	18.92	83.84	88.10
28-Mar-17 21:00:00	28-Mar-17 22:00:00		0.00	0.00	0.00	4.43	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	28-Mar-17 21:00:00		10.35	18.92	83.84	88.14
28-Mar-17 22:00:00	28-Mar-17 23:00:00		0.00	0.00	0.00	4.59	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	28-Mar-17 22:00:00		10.35	18.92	83.84	88.19
28-Mar-17 23:00:00	29-Mar-17 00:00:00		0.00	0.00	0.00	4.65	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	28-Mar-17 23:00:00		10.35	18.92	83.84	88.21
29-Mar-17 00:00:00	29-Mar-17 01:00:00		0.00	0.00	0.00	4.72	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	29-Mar-17 00:00:00		10.35	18.92	83.84	88.24
29-Mar-17 01:00:00	29-Mar-17 02:00:00		0.00	0.00	0.00	4.79	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	29-Mar-17 01:00:00		10.35	18.92	83.84	88.26
29-Mar-17 02:00:00	29-Mar-17 03:00:00		2.85	0.00	0.00	5.02	2.1	329.7		0.94	0.00	0.00	1.65		10.35	18.92	83.84	86.68	29-Mar-17 02:00:00		11.29	18.92	83.84	88.33
29-Mar-17 03:00:00	29-Mar-17 04:00:00		0.00	0.00	0.00	5.22	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	29-Mar-17 03:00:00		10.35	18.92	83.84	88.40
29-Mar-17 04:00:00	29-Mar-17 05:00:00		0.00	0.00	0.00	5.42	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	29-Mar-17 04:00:00		10.35	18.92	83.84	88.47
29-Mar-17 05:00:00	29-Mar-17 06:00:00		0.00	0.00	0.00	5.63	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	29-Mar-17 05:00:00		10.35	18.92	83.84	88.54
29-Mar-17 06:00:00	29-Mar-17 07:00:00		0.00	0.00	0.00	5.67	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	29-Mar-17 06:00:00		10.35	18.92	83.84	88.55
29-Mar-17 07:00:00	29-Mar-17 08:00:00		0.00	0.00	0.00	5.54	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	29-Mar-17 07:00:00		10.35	18.92	83.84	88.51
29-Mar-17 08:00:00	29-Mar-17 09:00:

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
31-Mar-17 10:00:00	31-Mar-17 11:00:00		0.00	0.00	0.00	4.97	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	31-Mar-17 10:00:00		**10.35**	**18.92**	**83.84**	**88.32**
31-Mar-17 11:00:00	31-Mar-17 12:00:00		3.31	0.00	0.00	4.95	2.1	329.7		1.09	0.00	0.00	1.63		10.35	18.92	83.84	86.68	31-Mar-17 11:00:00		**11.44**	**18.92**	**83.84**	**88.31**
31-Mar-17 12:00:00	31-Mar-17 13:00:00		7.17	0.00	0.00	4.94	2.1	329.7		2.36	0.00	0.00	1.63		10.35	18.92	83.84	86.68	31-Mar-17 12:00:00		**12.71**	**18.92**	**83.84**	**88.31**
31-Mar-17 13:00:00	31-Mar-17 14:00:00		7.32	0.00	0.00	4.93	2.1	329.7		2.41	0.00	0.00	1.63		10.35	18.92	83.84	86.68	31-Mar-17 13:00:00		**12.76**	**18.92**	**83.84**	**88.31**
31-Mar-17 14:00:00	31-Mar-17 15:00:00		0.93	0.00	0.00	4.78	2.1	329.7		0.31	0.00	0.00	1.58		10.35	18.92	83.84	86.68	31-Mar-17 14:00:00		**10.66**	**18.92**	**83.84**	**88.26**
31-Mar-17 15:00:00	31-Mar-17 16:00:00		0.88	0.00	0.00	4.75	2.1	329.7		0.29	0.00	0.00	1.56		10.35	18.92	83.84	86.68	31-Mar-17 15:00:00		**10.64**	**18.92**	**83.84**	**88.24**
31-Mar-17 16:00:00	31-Mar-17 17:00:00		13.84	0.00	0.00	4.71	2.1	329.7		4.56	0.00	0.00	1.55		10.35	18.92	83.84	86.68	31-Mar-17 16:00:00		**14.91**	**18.92**	**83.84**	**88.23**
31-Mar-17 17:00:00	31-Mar-17 18:00:00		11.46	0.00	0.00	4.68	2.1	329.7		3.78	0.00	0.00	1.54		10.35	18.92	83.84	86.68	31-Mar-17 17:00:00		**14.13**	**18.92**	**83.84**	**88.22**
31-Mar-17 18:00:00	31-Mar-17 19:00:00		8.91	0.00	0.00	4.68	2.1	329.7		2.94	0.00	0.00	1.54		10.35	18.92	83.84	86.68	31-Mar-17 18:00:00		**13.29**	**18.92**	**83.84**	**88.22**
31-Mar-17 19:00:00	31-Mar-17 20:00:00		8.76	0.00	0.00	4.60	2.1	329.7		2.89	0.00	0.00	1.52		10.35	18.92	83.84	86.68	31-Mar-17 19:00:00		**13.24**	**18.92**	**83.84**	**88.20**
31-Mar-17 20:00:00	31-Mar-17 21:00:00		8.61	0.00	0.00	4.51	2.1	329.7		2.84	0.00	0.00	1.49		10.35	18.92	83.84	86.68	31-Mar-17 20:00:00		**13.19**	**18.92**	**83.84**	**88.17**
31-Mar-17 21:00:00	31-Mar-17 22:00:00		8.49	0.00	0.00	4.42	2.1	329.7		2.80	0.00	0.00	1.46		10.35	18.92	83.84	86.68	31-Mar-17 21:00:00		**13.15**	**18.92**	**83.84**	**88.14**
31-Mar-17 22:00:00	31-Mar-17 23:00:00		10.34	0.00	0.00	4.55	2.1	329.7		3.41	0.00	0.00	1.50		10.35	18.92	83.84	86.68	31-Mar-17 22:00:00		**13.76**	**18.92**	**83.84**	**88.18**
31-Mar-17 23:00:00	01-Apr-17 00:00:00		4.16	0.00	0.00	4.68	2.1	329.7		1.37	0.00	0.00	1.54		10.35	18.92	83.84	86.68	31-Mar-17 23:00:00		**11.72**	**18.92**	**83.84**	**88.22**
01-Apr-17 00:00:00	01-Apr-17 01:00:00		1.05	0.00	0.00	4.81	2.1	329.7		0.34	0.00	0.00	1.58		10.35	18.92	83.84	86.68	01-Apr-17 00:00:00		**10.69**	**18.92**	**83.84**	**88.26**
01-Apr-17 01:00:00	01-Apr-17 02:00:00		7.76	0.00	0.00	4.93	2.1	329.7		2.56	0.00	0.00	1.63		10.35	18.92	83.84	86.68	01-Apr-17 01:00:00		**12.91**	**18.92**	**83.84**	**88.31**
01-Apr-17 02:00:00	01-Apr-17 03:00:00		3.85	0.00	0.00	5.05	2.1	329.7		1.27	0.00	0.00	1.67		10.35	18.92	83.84	86.68	01-Apr-17 02:00:00		**11.62**	**18.92**	**83.84**	**88.35**
01-Apr-17 03:00:00	01-Apr-17 04:00:00		2.11	0.00	0.00	5.27	2.1	329.7		0.70	0.00	0.00	1.74		10.35	18.92	83.84	86.68	01-Apr-17 03:00:00		**11.05**	**18.92**	**83.84**	**88.42**
01-Apr-17 04:00:00	01-Apr-17 05:00:00		1.43	0.00	0.00	5.50	2.1	329.7		0.47	0.00	0.00	1.81		10.35	18.92	83.84	86.68	01-Apr-17 04:00:00		**10.82**	**18.92**	**83.84**	**88.49**
01-Apr-17 05:00:00	01-Apr-17 06:00:00		0.75	0.00	0.00	5.73	2.1	329.7		0.25	0.00	0.00	1.89		10.35	18.92	83.84	86.68	01-Apr-17 05:00:00		**10.60**	**18.92**	**83.84**	**88.57**
01-Apr-17 06:00:00	01-Apr-17 07:00:00		0.12	0.00	0.00	5.80	2.1	329.7		0.04	0.00	0.00	1.91		10.35	18.92	83.84	86.68	01-Apr-17 06:00:00		**10.39**	**18.92**	**83.84**	**88.59**
01-Apr-17 07:00:00	01-Apr-17 08:00:00		0.00	0.00	0.00	5.62	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	01-Apr-17 07:00:00		**10.35**	**18.92**	**83.84**	**88.53**
01-Apr-17 08:00:00	01-Apr-17 09:00:00		0.00	0.00	0.00	5.43	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	01-Apr-17 08:00:00		**10.35**	**18.92**	**83.84**	**88.47**
01-Apr-17 09:00:00	01-Apr-17 10:00:00		0.00	0.00	0.00	5.25	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	01-Apr-17 09:00:00		**10.35**	**18.92**	**83.84**	**88.41**
01-Apr-17 10:00:00	01-Apr-17 11:00:00		0.00	0.00	0.00	5.12	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	01-Apr-17 10:00:00		**10.35**	**18.92**	**83.84**	**88.37**
01-Apr-17 11:00:00	01-Apr-17 12:00:00		95.12	0.00	0.00	4.85	2.1	329.7		31.36	0.00	0.00	1.60		10.35	18.92	83.84	86.68	01-Apr-17 11:00:00		**41.71**	**18.92**	**83.84**	**88.28**
01-Apr-17 12:00:00	01-Apr-17 13:00:00		211.83	0.00	0.00	4.57	2.1	329.7		69.84	0.00	0.00	1.51		10.35	18.92	83.84	86.68	01-Apr-17 12:00:00		**80.19**	**18.92**	**83.84**	**88.19**
01-Apr-17 13:00:00	01-Apr-17 14:00:00		204.63	0.00	0.00	4.30	2.1	329.7		67.47	0.00	0.00	1.42		10.35	18.92	83.84	86.68	01-Apr-17 13:00:00		**77.82**	**18.92**	**83.84**	**88.10**
01-Apr-17 14:00:00	01-Apr-17 15:00:00		236.41	0.00	0.00	4.22	2.1	329.7		77.94	0.00	0.00	1.39		10.35	18.92	83.84	86.68	01-Apr-17 14:00:00		**88.29**	**18.92**	**83.84**	**88.07**
01-Apr-17 15:00:00	01-Apr-17 16:00:00		444.94	0.00	0.00	4.10	2.1	329.7		146.70	0.00	0.00	1.35		10.35	18.92	83.84	86.68	01-Apr-17 15:00:00		**157.05**	**18.92**	**83.84**	**88.03**
01-Apr-17 16:00:00	01-Apr-17 17:00:00		311.37	0.00	0.00	3.97	2.1	329.7		102.66	0.00	0.00	1.31		10.35	18.92	83.84	86.68	01-Apr-17 16:00:00		**113.01**	**18.92**	**83.84**	**87.99**
01-Apr-17 17:00:00	01-Apr-17 18:00:00		694.04	1.34	0.00	3.84	2.1	329.7		228.83	0.44	0.00	1.27		10.35	18.92	83.84	86.68	01-Apr-17 17:00:00		**239.18**	**19.36**	**83.84**	**87.95**
01-Apr-17 18:00:00	01-Apr-17 19:00:00		782.57	5.71	0.00	3.70	2.1	329.7		258.01	1.88	0.00	1.22		10.35	18.92	83.84	86.68	01-Apr-17 18:00:00		**268.36**	**20.80**	**83.84**	**87.90**
01-Apr-17 19:00:00	01-Apr-17 20:00:00		791.33	0.00	0.00	3.95	2.1	329.7		260.90	0.00	0.00	1.30		10.35	18.92	83.84	86.68	01-Apr-17 19:00:00		**271.25**	**18.92**	**83.84**	**87.98**
01-Apr-17 20:00:00	01-Apr-17 21:00:00		785.01	0.00	0.00	4.22	2.1	329.7		258.82	0.00	0.00	1.39		10.35	18.92	83.84	86.68	01-Apr-17 20:00:00		**269.17**	**18.92**	**83.84**	**88.07**
01-Apr-17 21:00:00	01-Apr-17 22:00:00		783.59	0.00	0.00	4.49	2.1	329.7		258.35	0.00	0.00	1.48		10.35	18.92	83.84	86.68	01-Apr-17 21:00:00		**268.70**	**18.92**	**83.84**	**88.16**
01-Apr-17 22:00:00	01-Apr-17 23:00:00		865.75	0.00	0.00	4.74	2.1	329.7		285.44	0.00	0.00	1.56		10.35	18.92	83.84	86.68	01-Apr-17 22:00:00		**295.79**	**18.92**	**83.84**	**88.24**
01-Apr-17 23:00:00	02-Apr-17 00:00:00		985.99	0.00	0.00	4.95	2.1	329.7		325.08	0.00	0.00	1.63		10.35	18.92	83.84	86.68	01-Apr-17 23:00:00		**335.43**	**18.92**	**83.84**	**88.31**
02-Apr-17 00:00:00	02-Apr-17 01:00:00		1,029.22	0.00	0.00	5.15	2.1	329.7		339.33	0.00	0.00	1.70		10.35	18.92	83.84	86.68	02-Apr-17 00:00:00		**349.68**	**18.92**	**83.84**	**88.38**
02-Apr-17 01:00:00	02-Apr-17 02:00:00		1,062.71	0.00	0.00	5.35	2.1	329.7		350.38	0.00	0.00	1.77		10.35	18.92	83.84	86.68	02-Apr-17 01:00:00		**360.73**	**18.92**	**83.84**	**88.45**
02-Apr-17 02:00:00	02-Apr-17 03:00:00		1,126.16	0.00	0.00	5.62	2.1	329.7		371.38	0.00	0.00	1.85		10.35	18.92	83.84	86.68	02-Apr-17 02:00:00		**381.65**	**18.92**	**83.84**	**88.53**
02-Apr-17 03:00:00	02-Apr-17 04:00:00		1,150.64	0.00	0.00	5.70	2.1	329.7		379.37	0.00	0.00	1.88		10.35	18.92	83.84	86.68	02-Apr-17 03:00:00		**389.72**	**18.92**	**83.84**	**88.56**
02-Apr-17 04:00:00	02-Apr-17 05:00:00		1,224.26	0.00	0.00	5.76	2.1	329.7		403.64	0.00	0.00	1.90		10.35	18.92	83.84	86.68	02-Apr-17 04:00:00		**413.99**	**18.92**	**83.84**	**88.58**
02-Apr-17 05:00:00	02-Apr-17 06:00:00		1,229.07	0.00	0.00	5.83	2.1	329.7		405.22	0.00	0.00	1.92		10.35	18.92	83.84	86.68	02-Apr-17 05:00:00		**415.57**	**18.92**	**83.84**	**88.60**
02-Apr-17 06:00:00	02-Apr-17 07:00:00		1,221.01	0.00	0.00	5.82	2.1	329.7		402.57	0.00	0.00	1.92		10.35	18.92	83.84	86.68	02-Apr-17 06:00:00		**412.92**	**18.92**	**83.84**	**88.60**
02-Apr-17 07:00:00	02-Apr-17 08:00:00		1,217.89	0.00	0.00	5.83	2.1	329.7		401.54	0.00	0.00	1.92		10.35	18.92	83.84	86.68	02-Apr-17 07:00:00		**411.89**	**18.92**	**83.84**	**88.60**
02-Apr-17 08:00:00	02-Apr-17 09:00:00		1,229.79	0.00	0.00	5.85	2.1	329.7		405.46	0.00	0.00	1.93		10.35	18.92	83.84	86.68	02-Apr-17 08:00:00		**415.81**	**18.92**	**83.84**	**88.61**
02-Apr-17 09:00:00	02-Apr-17 10:00:00		1,210.38	0.00	0.00	5.87	2.1	329.7		399.06	0.00	0.00	1.94		10.35	18.92	83.84	86.68	02-Apr-17 09:00:00		**409.41**	**18.92**	**83.84**	**88.62**
02-Apr-17 10:00:00	02-Apr-17 11:00:00		1,208.61	0.00	0.00	5.73	2.1	329.7		398.48	0.00	0.00	1.89		10.35	18.92	83.84	86.68	02-Apr-17 10:00:00		**408.83**	**18.92**	**83.84**	**88.57**
02-Apr-17 11:00:00	02-Apr-17 12:00:00		1,212.43	0.00	0.00	5.49	2.1	329.7		399.74	0.00	0.00	1.81		10.35	18.92	83.84	86.68	02-Apr-17 11:00:00		**410.09**	**18.92**	**83.84**	**88.49**
02-Apr-17 12:00:00	02-Apr-17 13:00:00		1,239.78	0.00	0.00	5.25	2.1	329.7		408.76	0.00	0.00	1.73		10.35	18.92	83.84	86.68	02-Apr-17 12:00:00		**419.11**	**18.92**	**83.84**	**88.41**
02-Apr-17 13:00:00	02-Apr-17 14:00:00		1,125.50	6.02	0.00	5.02	2.1	329.7		371.08	1.98	0.00	1.66		10.35	18.92	83.84	86.68	02-Apr-17 13:00:00		**381.43**	**20.90**	**83.84**	**88.34**
02-Apr-17 14:00:00	02-Apr-17 15:00:00		854.98	0.00	0.00	4.86	2.1	329.7		281.89	0.00	0.00	1.60		10.35	18.92	83.84	86.68	02-Apr-17 14:00:00		**292.24**	**18.92**	**83.84**	**88.28**
02-Apr-17 15:00:00	02-Apr-17 16:00:00		916.52	0.00	0.00	4.69	2.1	329.7		302.18	0.00	0.00	1.55		10.35	18.92	83.84	86.68	02-Apr-17 15:00:00		**312.53**	**18.92**	**83.84**	**88.23**
02-Apr-17 16:00:00	02-Apr-17 17:00:00		1,389.40	0.00	0.00	4.51	2.1	329.7		458.09	0.00	0.00	1.49		10.35	18.92	83.84	86.68	02-Apr-17 16:00:00		**468.44**	**18.92**	**83.84**	**88.17**
02-Apr-17 17:00:00	02-Apr-17 18:00:00		1,158.14	0.00	0.00	4.33	2.1	329.7		381.84	0.00	0.00	1.43		10.35	18.92	83.84	86.68	02-Apr-17 17:00:00		**392.19**	**18.92**	**83.84**	**88.11**
02-Apr-17 18:00:00	02-Apr-17 19:00:00		1,199.60	0.00	0.00	4.49	2.1	329.7		395.51	0.00	0.00	1.48		10.35	18.92	83.84	86.68	02-Apr-17 18:00:00		**405.86**	**18.92**	**83.84**	**88.16**
02-Apr-17 19:00:00	02-Apr-17 20:00:00		1,010.81	0.00	0.00	4.71	2.1	329.7		333.26	0.00	0.00	1.55		10.35	18.92	83.84	86.68	02-Apr-17 19:00:00		**343.61**	**18.92**	**83.84**	**88.23**
02-Apr-17 20:00:00	02-Apr-17 21:00:00		1,010.40	0.00	0.00	4.90	2.1	329.7		333.13	0.00	0.00	1.62		10.35	18.92	83.84	86.68	02-Apr-17 20:00:00		**343.48**	**18.92**	**83.84**	**88.30**
02-Apr-17 21:00:00	02-Apr-17 22:00:00		633.32	0.00	0.00	5.09	2.1	329.7		208.80	0.00	0.00	1.68		10.35	18.92	83.84	86.68	02-Apr-17 21:00:00		**219.15**	**18.92**	**83.84**	**88.36**
02-Apr-17 22:00:00	02-Apr-17 23:00:00		246.10	0.00	0.00	5.20	2.1	329.7		81.14	0.00	0.00	1.72		10.35	18.92	83.84	86.68	02-Apr-17 22:00:00		**91.49**	**18.92**	**83.84**	**88.40**
02-Apr-17 23:00:00	03-Apr-17 00:00:00		226.71	0.00	0.00	5.34	2.1	329.7		74.75	0.00	0.00	1.76		10.35	18.92	83.84	86.68	02-Apr-17 23:00:00		**85.10**	**18.92**	**83.84**	**88.44**
03-Apr-17 00:00:00	03-Apr-17 01:00:00		229.93	0.00	0.00	5.48	2.1	329.7		75.81	0.00	0.00	1.81		10.35	18.92	83.84	86.68	03-Apr-17 00:00:00		**86.16**	**18.92**	**83.84**	**88.49**
03-Apr-17 01:00:00	03-Apr-17 02:00:00		222.87	0.00	0.00	5.63	2.1	329.7		73.48	0.00	0.00	1.85		10.35	18.92	83.84	86.68	03-Apr-17 01:00:00		**83.83**	**18.92**	**83.84**	**88.53**
03-Apr-17 02:00:00	03-Apr-17 03:00:00		18.76	0.00	0.00	5.65	2.1	329.7		6.18	0.00	0.00	1.86		10.35	18.92	83.84	86.68	03-Apr-17 02:00:00		**16.53**	**18.92**	**83.84**	**88.54**
03-Apr-17 03:00:00	03-Apr-17 04:00:00		0.00	0.00	0.00	5.58	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	03-Apr-17 03:00:00		**10.35**	**18.92**	**83.84**	**88.52**
03-Apr-17 04:00:00	03-Apr-17 05:00:00		0.00	0.00	0.00	5.52	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	03-Apr-17 04:00:00		**10.35**	**18.92**	**83.84**	**88.50**
03-Apr-17 05:00:00	03-Apr-17 06:00:00		0.00	0.00	0.00	5.46	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	03-Apr-17 05:00:00		**10.35**	**18.92**	**83.84**	**88.48**
03-Apr-17 06:00:00	03-Apr-17 07:00:00		0.00	0.00	0.00	5.49	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	03-Apr-17 06:00:00		**10.35**	**18.92**	**83.84**	**88.49**
03-Apr-17 07:00:00	03-Apr-17 08:00:00		0.00	0.00	0.00	5.67	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	03-Apr-17 07:00:00		**10.35**	**18.92**	**83.84**	**88.55**
03-Apr-17 08:00:00	03-Apr-17 09:00:00		0.00	0.00	0.00	43.80	2.1	329.7		0.00	0.00	0.00	14.44		10.35	18.92	83.84	86.68	03-Apr-17 08:00:00		**10.35**	**18.92**	**83.84**	**101.12**
03-Apr-17 09:00:00	03-Apr-17 10:00:00		0.00	0.00	0.00	5.61	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	03-Apr-17 09:00:00		**10.35**	**18.92**	**83.84**	**88.53**
03-Apr-17 10:00:00	03-Apr-17 11:00:00		0.00	0.00	0.00	5.38	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	03-Apr-17 10:00:00		**10.35**	**18.92**	**83.84**	**88.45**
03-Apr-17 11:00:00	03-Apr-17 12:00:00		0.00	0.00	0.00	5.14	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	03-Apr-17 11:00:00		**10.35**	**18.92**	**83.84**	**88.38**
03-Apr-17 12:00:00	03-Apr-17 13:00:00		0.00	0.00	0.00	4.89	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	03-Apr-17 12:00:00		**10.35**	**18.92**	**83.84**	**88.29**
03-Apr-17 13:00:00	03-Apr-17 14:00:00		752.07	0.00	0.00	4.90	2.1	329.7		247.96	0.00	0.00	1.61		10.35	18.92	83.84	86.68	03-Apr-17 13:00:00		**258.31**	**18.92**	**83.84**	**88.29**
03-Apr-17 14:00:00	03-Apr-17 15:00:00		1,038.96	0.00	0.00	5.03	2.1	329.7		342.55	0.00	0.00	1.66		10.35	18.92	83.84	86.68	03-Apr-17 14:00:00		**352.90**	**18.92**	**83.84**	**88.34**
03-Apr-17 15:00:00	03-Apr-17 16:00:00		391.62	0.00	0.00	5.16	2.1	329.7		129.12	0.00	0.00	1.70		10.35	18.92	83.84	86.68	03-Apr-17 15:00:00		**139.47**	**18.92**	**83.84**	**88.38**
03-Apr-17 16:00:00	03-Apr-17 17:00:00		327.43	0.00	0.00	5.29	2.1	329.7		107.95	0.00	0.00	1.74		10.35	18.92	83.84	86.68	03-Apr-17 16:00:00		**118.30**	**18.92**	**83.84**	**88.42**
03-Apr-17 17:00:00	03-Apr-17 18:00:00		330.31	0.00	0.00	9.50	2.1	329.7		108.90	0.00	0.00	2.13		10.35	18.92	83.84	86.68	03-Apr-17 17:00:00		**119.25**	**18.92**	**83.84**	**89.81**
03-Apr-17 18:00:00	03-Apr-17 19:00:00		329.80	0.00	0.00	5.27	2.1	329.7		108.73	0.00	0.00	1.74		10.35	18.92	83.84	86.68	03-Apr-17 18:00:00		**119.08**	**18.92**	**83.84**	**88.42**
03-Apr-17 19:00:00	03-Apr-17 20:00:00		329.33	0.00	0.00	5.18	2.1	329.7		108.58	0.00	0.00	1.71		10.35	18.92	83.84	86.68	03-Apr-17 19:00:00		**118.93**	**18.92**	**83.84**	**88.39**
03-Apr-17 20:00:00	03-Apr-17 21:00:00		387.43	0.00	0.00	5.09	2.1	329.7		127.74	0.00	0.00	1.68		10.35	18.92	83.84	86.68	03-Apr-17 20:00:00		**138.09**	**18.92**	**83.84**	**88.36**
03-Apr-17 21:00:00	03-Apr-17 22:00:00		211.18	0.00	0.00	5.03	2.1	329.7		69.63	0.00	0.00	1.66		10.35	18.92	83.84	86.68	03-Apr-17 21:00:00		**79.98**	**18.92**	**83.84**	**88.34**
03-Apr-17 22:00:00	03-Apr-17 23:00:00		254.75	0.00	0.00	5.01	2.1	329.7		83.99	0.00	0.00	1.65		10.35	18.92	83.84	86.68	03-Apr-17 22:00:00		**94.34**	**18.92**	**83.84**	**88.33**
03-Apr-17 23:00:00	04-Apr-17 00:00:00		742.34	0.00	0.00	4.94	2.1	329.7		244.75	0.00	0.00	1.63		10.35	18.92	83.84	86.68	03-Apr-17 23:00:00		**255.10**	**18.92**	**83.84**	**88.31**
04-Apr-17 00:00:00	04-Apr-17 01:00:00		806.25	0.00	0.00	4.87	2.1	329.7		265.82	0.00	0.00	1.61		10.35	18.92	83.84	86.68	04-Apr-17 00:00:00		**276.17**	**18.92**	**83.84**	**88.29**
04-Apr-17 01:00:00	04-Apr-17 02:00:00		807.79	0.00	0.00	4.78	2.1	329.7		266.33	0.00	0.00	1.58		10.35	18.92	83.84	86.68	04-Apr-17 01:00:00		**276.68**	**18.92**	**83.84**	**88.26**
04-Apr-17 02:00:00	04-Apr-17 03:00:00		868.35	0.00	0.00	4.79	2.1	329.7		286.30	0.00	0.00	1.58		10.35	18.92	83.84	86.68	04-Apr-17 02:00:00		**296.65**	**18.92**	**83.84**	**88.26**
04-Apr-17 03:00:00	04-Apr-17 04:00:00		889.35	0.00	0.00	4.92	2.1	329.7		293.22	0.00	0.00	1.62		10.35	18.92	83.84	86.68	04-Apr-17 03:00:00		**303.57**	**18.92**	**83.84**	**88.30**
04-Apr-17 04:00:00	04-Apr-17 05:00:00		888.92	0.00	0.00	5.04	2.1	329.7		293.08	0.00	0.00	1.66		10.35	18.92	83.84	86.68	04-Apr-17 04:00:00		**303.43**	**18.92**	**83.84**	**88.34**
04-Apr-17 05:00:00	04-Apr-17 06:00:00		817.48	0.00	0.00	5.17	2.1	329.7		269.52	0.00	0.00	1.70		10.35	18.92	83.84	86.68	04-Apr-17 05:00:00		**279.87**	**18.92**	**83.84**	**88.38**
04-Apr-17 06:00:00	04-Apr-17 07:00:00		802.67	0.00	0.00	5.25	2.1	329.7		264.64	0.00	0.00	1.73		10.35	18.92	83.84	86.68	04-Apr-17 06:00:00		**274.99**	**18.92**	**83.84**	**88.41**
04-Apr-17 07:00:00

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
06-Apr-17 09:00:00	06-Apr-17 10:00:00		1,274.72	1,868.58	0.00	6.34	2.1	329.7		420.28	616.07	0.00	2.09		10.35	18.92	83.84	86.68	06-Apr-17 09:00:00		430.63	634.99	83.84	88.77
06-Apr-17 10:00:00	06-Apr-17 11:00:00		1,282.73	1,866.87	0.00	6.34	2.1	329.7		422.92	615.51	0.00	2.09		10.35	18.92	83.84	86.68	06-Apr-17 10:00:00		433.27	634.43	83.84	88.77
06-Apr-17 11:00:00	06-Apr-17 12:00:00		875.47	1,869.05	0.00	6.33	2.1	329.7		288.64	616.23	0.00	2.09		10.35	18.92	83.84	86.68	06-Apr-17 11:00:00		298.99	635.15	83.84	88.77
06-Apr-17 12:00:00	06-Apr-17 13:00:00		517.34	1,458.26	0.00	6.28	2.1	329.7		170.57	480.79	0.00	2.07		10.35	18.92	83.84	86.68	06-Apr-17 12:00:00		180.92	499.71	83.84	88.75
06-Apr-17 13:00:00	06-Apr-17 14:00:00		321.68	1,410.73	0.00	11.16	2.1	329.7		106.06	465.12	0.00	3.68		10.35	18.92	83.84	86.68	06-Apr-17 13:00:00		116.41	484.04	83.84	90.36
06-Apr-17 14:00:00	06-Apr-17 15:00:00		320.96	1,411.74	0.00	5.97	2.1	329.7		105.82	465.45	0.00	1.97		10.35	18.92	83.84	86.68	06-Apr-17 14:00:00		116.17	484.37	83.84	88.65
06-Apr-17 15:00:00	06-Apr-17 16:00:00		319.26	1,412.72	0.00	5.92	2.1	329.7		105.26	465.77	0.00	1.95		10.35	18.92	83.84	86.68	06-Apr-17 15:00:00		115.61	484.69	83.84	88.63
06-Apr-17 16:00:00	06-Apr-17 17:00:00		335.35	1,520.33	0.00	5.87	2.1	329.7		110.57	501.25	0.00	1.94		10.35	18.92	83.84	86.68	06-Apr-17 16:00:00		120.92	520.17	83.84	88.62
06-Apr-17 17:00:00	06-Apr-17 18:00:00		343.76	1,411.94	0.00	5.86	2.1	329.7		113.34	465.52	0.00	1.93		10.35	18.92	83.84	86.68	06-Apr-17 17:00:00		123.69	484.44	83.84	88.61
06-Apr-17 18:00:00	06-Apr-17 19:00:00		292.91	1,322.91	0.00	5.91	2.1	329.7		96.57	436.16	0.00	1.95		10.35	18.92	83.84	86.68	06-Apr-17 18:00:00		106.92	455.08	83.84	88.63
06-Apr-17 19:00:00	06-Apr-17 20:00:00		280.56	1,311.30	0.00	5.94	2.1	329.7		92.50	432.34	0.00	1.96		10.35	18.92	83.84	86.68	06-Apr-17 19:00:00		102.85	451.26	83.84	88.64
06-Apr-17 20:00:00	06-Apr-17 21:00:00		331.75	1,587.04	0.00	5.98	2.1	329.7		109.38	523.25	0.00	1.97		10.35	18.92	83.84	86.68	06-Apr-17 20:00:00		119.73	542.17	83.84	88.65
06-Apr-17 21:00:00	06-Apr-17 22:00:00		309.24	1,648.82	0.00	6.21	2.1	329.7		101.96	543.62	0.00	2.05		10.35	18.92	83.84	86.68	06-Apr-17 21:00:00		112.31	562.54	83.84	88.73
06-Apr-17 22:00:00	06-Apr-17 23:00:00		2.83	1,603.69	0.00	6.39	2.1	329.7		0.93	528.74	0.00	2.11		10.35	18.92	83.84	86.68	06-Apr-17 22:00:00		11.28	547.66	83.84	88.79
06-Apr-17 23:00:00	07-Apr-17 00:00:00		0.00	1,075.74	0.00	6.43	2.1	329.7		0.00	354.67	0.00	2.12		10.35	18.92	83.84	86.68	06-Apr-17 23:00:00		10.35	373.59	83.84	88.80
07-Apr-17 00:00:00	07-Apr-17 01:00:00		0.00	885.04	0.00	6.47	2.1	329.7		0.00	291.80	0.00	2.13		10.35	18.92	83.84	86.68	07-Apr-17 00:00:00		10.35	310.72	83.84	88.81
07-Apr-17 01:00:00	07-Apr-17 02:00:00		0.00	725.56	0.00	6.47	2.1	329.7		0.00	239.22	0.00	2.13		10.35	18.92	83.84	86.68	07-Apr-17 01:00:00		10.35	258.14	83.84	88.81
07-Apr-17 02:00:00	07-Apr-17 03:00:00		0.00	745.16	0.00	6.49	2.1	329.7		0.00	245.68	0.00	2.14		10.35	18.92	83.84	86.68	07-Apr-17 02:00:00		10.35	264.60	83.84	88.82
07-Apr-17 03:00:00	07-Apr-17 04:00:00		0.00	1,130.48	0.00	6.55	2.1	329.7		0.00	372.72	0.00	2.16		10.35	18.92	83.84	86.68	07-Apr-17 03:00:00		10.35	391.64	83.84	88.84
07-Apr-17 04:00:00	07-Apr-17 05:00:00		0.00	1,131.96	0.00	6.61	2.1	329.7		0.00	373.21	0.00	2.18		10.35	18.92	83.84	86.68	07-Apr-17 04:00:00		10.35	392.13	83.84	88.86
07-Apr-17 05:00:00	07-Apr-17 06:00:00		0.00	1,133.51	0.00	6.68	2.1	329.7		0.00	373.72	0.00	2.20		10.35	18.92	83.84	86.68	07-Apr-17 05:00:00		10.35	392.64	83.84	88.88
07-Apr-17 06:00:00	07-Apr-17 07:00:00		0.00	1,134.92	0.00	6.62	2.1	329.7		0.00	374.18	0.00	2.18		10.35	18.92	83.84	86.68	07-Apr-17 06:00:00		10.35	393.10	83.84	88.86
07-Apr-17 07:00:00	07-Apr-17 08:00:00		0.00	1,135.46	0.00	6.50	2.1	329.7		0.00	374.36	0.00	2.14		10.35	18.92	83.84	86.68	07-Apr-17 07:00:00		10.35	393.28	83.84	88.82
07-Apr-17 08:00:00	07-Apr-17 09:00:00		0.00	1,134.92	0.00	6.38	2.1	329.7		0.00	374.18	0.00	2.10		10.35	18.92	83.84	86.68	07-Apr-17 08:00:00		10.35	393.10	83.84	88.78
07-Apr-17 09:00:00	07-Apr-17 10:00:00		0.00	1,152.81	0.00	9.59	2.1	329.7		0.00	380.08	0.00	3.16		10.35	18.92	83.84	86.68	07-Apr-17 09:00:00		10.35	399.00	83.84	89.84
07-Apr-17 10:00:00	07-Apr-17 11:00:00		0.00	1,077.15	0.00	16.23	2.1	329.7		0.00	355.14	0.00	5.35		10.35	18.92	83.84	86.68	07-Apr-17 10:00:00		10.35	374.06	83.84	92.03
07-Apr-17 11:00:00	07-Apr-17 12:00:00		0.00	1,034.18	0.00	5.98	2.1	329.7		0.00	340.97	0.00	1.97		10.35	18.92	83.84	86.68	07-Apr-17 11:00:00		10.35	359.89	83.84	88.65
07-Apr-17 12:00:00	07-Apr-17 13:00:00		0.00	1,062.91	0.00	5.70	2.1	329.7		0.00	350.44	0.00	1.88		10.35	18.92	83.84	86.68	07-Apr-17 12:00:00		10.35	369.36	83.84	88.56
07-Apr-17 13:00:00	07-Apr-17 14:00:00		0.00	1,081.88	0.00	5.43	2.1	329.7		0.00	356.70	0.00	1.79		10.35	18.92	83.84	86.68	07-Apr-17 13:00:00		10.35	375.62	83.84	88.47
07-Apr-17 14:00:00	07-Apr-17 15:00:00		0.00	1,082.66	0.00	5.35	2.1	329.7		0.00	356.95	0.00	1.76		10.35	18.92	83.84	86.68	07-Apr-17 14:00:00		10.35	375.87	83.84	88.44
07-Apr-17 15:00:00	07-Apr-17 16:00:00		0.00	1,131.85	0.00	5.32	2.1	329.7		0.00	373.17	0.00	1.75		10.35	18.92	83.84	86.68	07-Apr-17 15:00:00		10.35	392.09	83.84	88.43
07-Apr-17 16:00:00	07-Apr-17 17:00:00		0.00	1,215.06	0.00	5.28	2.1	329.7		0.00	400.60	0.00	1.74		10.35	18.92	83.84	86.68	07-Apr-17 16:00:00		10.35	419.52	83.84	88.42
07-Apr-17 17:00:00	07-Apr-17 18:00:00		0.00	1,217.68	0.00	5.24	2.1	329.7		0.00	401.47	0.00	1.73		10.35	18.92	83.84	86.68	07-Apr-17 17:00:00		10.35	420.39	83.84	88.41
07-Apr-17 18:00:00	07-Apr-17 19:00:00		0.00	1,217.80	0.00	5.06	2.1	329.7		0.00	401.51	0.00	1.67		10.35	18.92	83.84	86.68	07-Apr-17 18:00:00		10.35	420.43	83.84	88.35
07-Apr-17 19:00:00	07-Apr-17 20:00:00		0.00	1,217.01	0.00	5.05	2.1	329.7		0.00	401.25	0.00	1.66		10.35	18.92	83.84	86.68	07-Apr-17 19:00:00		10.35	420.17	83.84	88.34
07-Apr-17 20:00:00	07-Apr-17 21:00:00		0.00	1,216.81	0.00	5.04	2.1	329.7		0.00	401.18	0.00	1.66		10.35	18.92	83.84	86.68	07-Apr-17 20:00:00		10.35	420.10	83.84	88.34
07-Apr-17 21:00:00	07-Apr-17 22:00:00		0.00	1,216.27	0.00	5.03	2.1	329.7		0.00	401.01	0.00	1.66		10.35	18.92	83.84	86.68	07-Apr-17 21:00:00		10.35	419.93	83.84	88.34
07-Apr-17 22:00:00	07-Apr-17 23:00:00		0.00	1,218.20	0.00	5.16	2.1	329.7		0.00	401.64	0.00	1.70		10.35	18.92	83.84	86.68	07-Apr-17 22:00:00		10.35	420.56	83.84	88.38
07-Apr-17 23:00:00	08-Apr-17 00:00:00		0.00	1,217.34	0.00	5.35	2.1	329.7		0.00	401.36	0.00	1.76		10.35	18.92	83.84	86.68	07-Apr-17 23:00:00		10.35	420.28	83.84	88.44
08-Apr-17 00:00:00	08-Apr-17 01:00:00		0.00	1,269.33	0.00	5.54	2.1	329.7		0.00	418.50	0.00	1.83		10.35	18.92	83.84	86.68	08-Apr-17 00:00:00		10.35	437.42	83.84	88.51
08-Apr-17 01:00:00	08-Apr-17 02:00:00		0.00	1,311.25	0.00	5.73	2.1	329.7		0.00	432.32	0.00	1.89		10.35	18.92	83.84	86.68	08-Apr-17 01:00:00		10.35	451.24	83.84	88.57
08-Apr-17 02:00:00	08-Apr-17 03:00:00		0.00	1,128.84	0.00	5.96	2.1	329.7		0.00	372.18	0.00	1.96		10.35	18.92	83.84	86.68	08-Apr-17 02:00:00		10.35	391.10	83.84	88.64
08-Apr-17 03:00:00	08-Apr-17 04:00:00		0.00	963.13	0.00	6.06	2.1	329.7		0.00	317.55	0.00	2.00		10.35	18.92	83.84	86.68	08-Apr-17 03:00:00		10.35	336.47	83.84	88.68
08-Apr-17 04:00:00	08-Apr-17 05:00:00		2.81	967.27	0.00	6.16	2.1	329.7		0.93	318.91	0.00	2.03		10.35	18.92	83.84	86.68	08-Apr-17 04:00:00		11.28	337.83	83.84	88.71
08-Apr-17 05:00:00	08-Apr-17 06:00:00		15.35	1,428.64	0.00	6.26	2.1	329.7		5.06	471.02	0.00	2.06		10.35	18.92	83.84	86.68	08-Apr-17 05:00:00		15.41	489.94	83.84	88.74
08-Apr-17 06:00:00	08-Apr-17 07:00:00		16.94	1,067.85	0.00	6.23	2.1	329.7		5.59	352.07	0.00	2.05		10.35	18.92	83.84	86.68	08-Apr-17 06:00:00		15.94	370.99	83.84	88.73
08-Apr-17 07:00:00	08-Apr-17 08:00:00		16.16	877.50	0.00	5.96	2.1	329.7		5.33	289.31	0.00	1.96		10.35	18.92	83.84	86.68	08-Apr-17 07:00:00		15.68	308.23	83.84	88.64
08-Apr-17 08:00:00	08-Apr-17 09:00:00		26.20	467.47	0.00	5.69	2.1	329.7		8.64	154.12	0.00	1.87		10.35	18.92	83.84	86.68	08-Apr-17 08:00:00		18.99	173.04	83.84	88.55
08-Apr-17 09:00:00	08-Apr-17 10:00:00		16.64	431.15	0.00	5.42	2.1	329.7		5.49	142.15	0.00	1.79		10.35	18.92	83.84	86.68	08-Apr-17 09:00:00		15.84	161.07	83.84	88.47
08-Apr-17 10:00:00	08-Apr-17 11:00:00		0.00	1,007.26	0.00	5.33	2.1	329.7		0.00	332.09	0.00	1.76		10.35	18.92	83.84	86.68	08-Apr-17 10:00:00		10.35	351.01	83.84	88.44
08-Apr-17 11:00:00	08-Apr-17 12:00:00		0.00	1,174.13	255.46	5.09	2.1	329.7		0.00	387.11	84.22	1.68		10.35	18.92	83.84	86.68	08-Apr-17 11:00:00		10.35	406.03	168.06	88.36
08-Apr-17 12:00:00	08-Apr-17 13:00:00		0.00	1,177.72	677.91	4.84	2.1	329.7		0.00	388.30	223.51	1.60		10.35	18.92	83.84	86.68	08-Apr-17 12:00:00		10.35	407.22	307.35	88.28
08-Apr-17 13:00:00	08-Apr-17 14:00:00		0.00	331.62	677.34	4.59	2.1	329.7		0.00	109.34	223.32	1.51		10.35	18.92	83.84	86.68	08-Apr-17 13:00:00		10.35	128.26	307.16	88.19
08-Apr-17 14:00:00	08-Apr-17 15:00:00		1.85	112.33	714.13	4.56	2.1	329.7		0.61	37.03	235.45	1.50		10.35	18.92	83.84	86.68	08-Apr-17 14:00:00		10.96	55.95	319.29	88.18
08-Apr-17 15:00:00	08-Apr-17 16:00:00		1.89	0.00	703.73	4.46	2.1	329.7		0.62	0.00	232.02	1.47		10.35	18.92	83.84	86.68	08-Apr-17 15:00:00		10.97	18.92	315.86	88.15
08-Apr-17 16:00:00	08-Apr-17 17:00:00		1.34	224.56	67.44	4.36	2.1	329.7		0.44	74.04	22.24	1.44		10.35	18.92	83.84	86.68	08-Apr-17 16:00:00		10.79	92.96	106.08	88.12
08-Apr-17 17:00:00	08-Apr-17 18:00:00		0.79	369.47	0.00	4.25	2.1	329.7		0.26	121.81	0.00	1.40		10.35	18.92	83.84	86.68	08-Apr-17 17:00:00		10.61	140.73	83.84	88.08
08-Apr-17 18:00:00	08-Apr-17 19:00:00		0.24	442.77	0.00	4.43	2.1	329.7		0.08	145.97	0.00	1.46		10.35	18.92	83.84	86.68	08-Apr-17 18:00:00		10.43	164.89	83.84	88.14
08-Apr-17 19:00:00	08-Apr-17 20:00:00		0.00	522.25	0.00	4.54	2.1	329.7		0.00	172.19	0.00	1.50		10.35	18.92	83.84	86.68	08-Apr-17 19:00:00		10.35	191.11	83.84	88.18
08-Apr-17 20:00:00	08-Apr-17 21:00:00		0.00	770.49	0.00	4.63	2.1	329.7		0.00	254.03	0.00	1.53		10.35	18.92	83.84	86.68	08-Apr-17 20:00:00		10.35	272.95	83.84	88.21
08-Apr-17 21:00:00	08-Apr-17 22:00:00		0.00	1,026.85	0.00	4.72	2.1	329.7		0.00	338.55	0.00	1.56		10.35	18.92	83.84	86.68	08-Apr-17 21:00:00		10.35	357.47	83.84	88.24
08-Apr-17 22:00:00	08-Apr-17 23:00:00		0.12	1,094.96	0.00	4.80	2.1	329.7		0.04	361.01	0.00	1.58		10.35	18.92	83.84	86.68	08-Apr-17 22:00:00		10.39	379.93	83.84	88.26
08-Apr-17 23:00:00	09-Apr-17 00:00:00		191.36	51.83	0.00	5.07	2.1	329.7		63.09	17.09	0.00	1.67		10.35	18.92	83.84	86.68	08-Apr-17 23:00:00		73.44	36.01	83.84	88.35
09-Apr-17 00:00:00	09-Apr-17 01:00:00		381.61	502.65	0.00	5.35	2.1	329.7		125.82	165.72	0.00	1.76		10.35	18.92	83.84	86.68	09-Apr-17 00:00:00		136.17	184.64	83.84	88.44
09-Apr-17 01:00:00	09-Apr-17 02:00:00		0.00	1,062.83	0.00	5.62	2.1	329.7		0.00	350.41	0.00	1.85		10.35	18.92	83.84	86.68	09-Apr-17 01:00:00		10.35	369.33	83.84	88.53
09-Apr-17 02:00:00	09-Apr-17 03:00:00		0.00	1,142.96	0.00	5.75	2.1	329.7		0.00	376.83	0.00	1.90		10.35	18.92	83.84	86.68	09-Apr-17 02:00:00		10.35	395.75	83.84	88.58
09-Apr-17 03:00:00	09-Apr-17 04:00:00		0.00	1,530.15	0.00	5.91	2.1	329.7		0.00	504.49	0.00	1.95		10.35	18.92	83.84	86.68	09-Apr-17 03:00:00		10.35	523.41	83.84	88.63
09-Apr-17 04:00:00	09-Apr-17 05:00:00		0.00	2,502.40	0.00	6.08	2.1	329.7		0.00	825.04	0.00	2.00		10.35	18.92	83.84	86.68	09-Apr-17 04:00:00		10.35	843.96	83.84	88.68
09-Apr-17 05:00:00	09-Apr-17 06:00:00		0.00	1,409.16	0.00	6.25	2.1	329.7		0.00	464.60	0.00	2.06		10.35	18.92	83.84	86.68	09-Apr-17 05:00:00		10.35	483.52	83.84	88.74
09-Apr-17 06:00:00	09-Apr-17 07:00:00		0.00	976.65	0.00	6.32	2.1	329.7		0.00	322.00	0.00	2.08		10.35	18.92	83.84	86.68	09-Apr-17 06:00:00		10.35	340.92	83.84	88.76
09-Apr-17 07:00:00	09-Apr-17 08:00:00		0.76	1,377.11	0.00	6.11	2.1	329.7		0.25	454.03	0.00	2.01		10.35	18.92	83.84	86.68	09-Apr-17 07:00:00		10.60	472.95	83.84	88.69
09-Apr-17 08:00:00	09-Apr-17 09:00:00		0.00	1,433.91	0.00	5.89	2.1	329.7		0.00	472.76	0.00	1.94		10.35	18.92	83.84	86.68	09-Apr-17 08:00:00		10.35	491.68	83.84	88.62
09-Apr-17 09:00:00	09-Apr-17 10:00:00		0.00	1,435.63	0.00	5.68	2.1	329.7		0.00	473.33	0.00	1.87		10.35	18.92	83.84	86.68	09-Apr-17 09:00:00		10.35	492.25	83.84	88.55
09-Apr-17 10:00:00	09-Apr-17 11:00:00		0.00	1,365.91	0.00	5.17	2.1	329.7		0.00	450.34	0.00	1.70		10.35	18.92	83.84	86.68	09-Apr-17 10:00:00		10.35	469.26	83.84	88.38
09-Apr-17 11:00:00	09-Apr-17 12:00:00		0.45	1,243.19	0.00	4.83	2.1	329.7		0.15	409.88	0.00	1.59		10.35	18.92	83.84	86.68	09-Apr-17 11:00:00		10.50	428.80	83.84	88.27
09-Apr-17 12:00:00	09-Apr-17 13:00:00		3.35	1,143.98	0.00	4.52	2.1	329.7		1.10	377.17	0.00	1.49		10.35	18.92	83.84	86.68	09-Apr-17 12:00:00		11.45	396.09	83.84	88.17
09-Apr-17 13:00:00	09-Apr-17 14:00:00		0.54	1,078.50	0.00	4.21	2.1	329.7		0.18	355.58	0.00	1.39		10.35	18.92	83.84	86.68	09-Apr-17 13:00:00		10.53	374.50	83.84	88.07
09-Apr-17 14:00:00	09-Apr-17 15:00:00		0.37	918.55	0.00	3.96	2.1	329.7		0.12	302.85	0.00	1.30		10.35	18.92	83.84	86.68	09-Apr-17 14:00:00		10.47	321.77	83.84	87.98
09-Apr-17 15:00:00	09-Apr-17 16:00:00		0.20	968.19	0.00	3.96	2.1	329.7		0.07	319.21	0.00	1.31		10.35	18.92	83.84	86.68	09-Apr-17 15:00:00		10.42	338.13	83.84	87.99
09-Apr-17 16:00:00	09-Apr-17 17:00:00		0.04	964.77	0.00	3.98	2.1	329.7		0.01	318.09	0.00	1.31		10.35	18.92	83.84	86.68	09-Apr-17 16:00:00		10.36	337.01	83.84	87.99
09-Apr-17 17:00:00	09-Apr-17 18:00:00		0.00	968.51	0.00	4.00	2.1	329.7		0.00	319.32	0.00	1.32		10.35	18.92	83.84	86.68	09-Apr-17 17:00:00		10.35	338.24	83.84	88.00
09-Apr-17 18:00:00	09-Apr-17 19:00:00		0.00	967.78	0.00	4.04	2.1	329.7		0.00	319.08	0.00	1.33		10.35	18.92	83.84	86.68	09-Apr-17 18:00:00		10.35	338.00	83.84	88.01
09-Apr-17 19:00:00	09-Apr-17 20:00:00		0.00	966.42	0.00	4.18	2.1	329.7		0.00	318.63	0.00	1.38		10.35	18.92	83.84	86.68	09-Apr-17 19:00:00		10.35	337.55	83.84	88.06
09-Apr-17 20:00:00	09-Apr-17 21:00:00		0.00	904.78	0.00	4.32	2.1	329.7		0.00	298.31	0.00	1.43		10.35	18.92	83.84	86.68	09-Apr-17 20:00:00		10.35	317.23	83.84	88.11
09-Apr-17 21:00:00	09-Apr-17 22:00:00		0.00	902.73	0.00	4.47	2.1	329.7		0.00	297.63	0.00	1.47		10.35	18.92	83.84	86.68	09-Apr-17 21:00:00		10.35	316.55	83.84	88.15
09-Apr-17 22:00:00	09-Apr-17 23:00:00		0.00	904.38	0.00	4.66	2.1	329.7		0.00	298.17	0.00	1.54		10.35	18.92	83.84	86.68	09-Apr-17 22:00:00		10.35	317.09	83.84	88.22
09-Apr-17 23:00:00	10-Apr-17 00:00:00		0.00	905.22	0.00	4.84	2.1	329.7		0.00	298.45	0.00	1.60		10.35	18.92	83.84	86.68	09-Apr-17 23:00:00		10.35	317.37	83.84	88.28
10-Apr-17 00:00:00	10-Apr-17 01:00:00		0.10	968.14	0.00	5.01	2.1	329.7		0.03	319.20	0.00	1.65		10.35	18.92	83.84	86.68	10-Apr-17 00:00:00		10.38	338.12	83.84	88.33
10-Apr-17 01:00:00	10-Apr-17 02:00:00		0.00	993.01	0.00	5.18	2.1	329.7		0.00	327.40	0.00	1.71		10.35	18.92	83.84	86.68	10-Apr-17 01:00:00		10.35	346.32	83.84	88.39
10-Apr-17 02:00:00	10-Apr-17 03:00:00		1.19	969.10	0.00	5.24	2.1	329.7		0.39	319.51	0.00	1.73		10.35	18.92	83.84	86.68	10-Apr-17 02:00:00		10.74	338.43	83.84	88.41
10-Apr-17 03:00:00	10-Apr-17 04:00:00		0.00	897.40	0.00	5.28	2.1	329.7		0.00	295.87	0.00	1.74		10.35	18.92	83.84	86.68	10-Apr-17 03:00:00		10.35	314.79	83.84	88.42
10-Apr-17 04:00:00	10-Apr-17 05:00:00		0.00	897.20	0.00	5.34	2.1	329.7		0.00	295.81	0.00	1.76		10.35	18.92	83.84	86.68	10-Apr-17 04:00:00		10.35	314.73	83.84	88.44
10-Apr-17 05:00:00	10-Apr-17 06:00:00		0.00	898.03	0.00	5.40	2.1	329.7		0.00	296.08	0.00	1.78		10.35

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
12-Apr-17 08:00:00	12-Apr-17 09:00:00		0.00	0.00	0.00	5.22	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	12-Apr-17 08:00:00		**10.35**	**18.92**	**83.84**	**88.40**
12-Apr-17 09:00:00	12-Apr-17 10:00:00		0.00	0.00	0.00	5.21	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	12-Apr-17 09:00:00		**10.35**	**18.92**	**83.84**	**88.40**
12-Apr-17 10:00:00	12-Apr-17 11:00:00		0.18	0.00	0.00	5.06	2.1	329.7		0.06	0.00	0.00	1.67		10.35	18.92	83.84	86.68	12-Apr-17 10:00:00		**10.41**	**18.92**	**83.84**	**88.35**
12-Apr-17 11:00:00	12-Apr-17 12:00:00		0.00	0.00	0.00	4.69	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	12-Apr-17 11:00:00		**10.35**	**18.92**	**83.84**	**88.23**
12-Apr-17 12:00:00	12-Apr-17 13:00:00		0.00	0.00	0.00	4.32	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	12-Apr-17 12:00:00		**10.35**	**18.92**	**83.84**	**88.10**
12-Apr-17 13:00:00	12-Apr-17 14:00:00		0.00	0.00	0.00	3.95	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	12-Apr-17 13:00:00		**10.35**	**18.92**	**83.84**	**87.98**
12-Apr-17 14:00:00	12-Apr-17 15:00:00		0.00	0.00	0.00	3.62	2.1	329.7		0.00	0.00	0.00	1.19		10.35	18.92	83.84	86.68	12-Apr-17 14:00:00		**10.35**	**18.92**	**83.84**	**87.87**
12-Apr-17 15:00:00	12-Apr-17 16:00:00		0.00	0.00	0.00	3.57	2.1	329.7		0.00	0.00	0.00	1.18		10.35	18.92	83.84	86.68	12-Apr-17 15:00:00		**10.35**	**18.92**	**83.84**	**87.86**
12-Apr-17 16:00:00	12-Apr-17 17:00:00		0.00	0.00	0.00	3.55	2.1	329.7		0.00	0.00	0.00	1.17		10.35	18.92	83.84	86.68	12-Apr-17 16:00:00		**10.35**	**18.92**	**83.84**	**87.85**
12-Apr-17 17:00:00	12-Apr-17 18:00:00		0.00	0.00	0.00	3.53	2.1	329.7		0.00	0.00	0.00	1.16		10.35	18.92	83.84	86.68	12-Apr-17 17:00:00		**10.35**	**18.92**	**83.84**	**87.84**
12-Apr-17 18:00:00	12-Apr-17 19:00:00		0.00	0.00	0.00	3.60	2.1	329.7		0.00	0.00	0.00	1.19		10.35	18.92	83.84	86.68	12-Apr-17 18:00:00		**10.35**	**18.92**	**83.84**	**87.87**
12-Apr-17 19:00:00	12-Apr-17 20:00:00		0.00	0.00	0.00	3.81	2.1	329.7		0.00	0.00	0.00	1.26		10.35	18.92	83.84	86.68	12-Apr-17 19:00:00		**10.35**	**18.92**	**83.84**	**87.94**
12-Apr-17 20:00:00	12-Apr-17 21:00:00		0.00	0.00	0.00	4.02	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	12-Apr-17 20:00:00		**10.35**	**18.92**	**83.84**	**88.01**
12-Apr-17 21:00:00	12-Apr-17 22:00:00		0.00	0.00	0.00	4.23	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	12-Apr-17 21:00:00		**10.35**	**18.92**	**83.84**	**88.07**
12-Apr-17 22:00:00	12-Apr-17 23:00:00		0.00	0.00	0.00	4.46	2.1	329.7		0.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	12-Apr-17 22:00:00		**10.35**	**18.92**	**83.84**	**88.15**
12-Apr-17 23:00:00	13-Apr-17 00:00:00		0.00	0.00	0.00	4.67	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	12-Apr-17 23:00:00		**10.35**	**18.92**	**83.84**	**88.22**
13-Apr-17 00:00:00	13-Apr-17 01:00:00		0.00	0.00	0.00	4.86	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	13-Apr-17 00:00:00		**10.35**	**18.92**	**83.84**	**88.28**
13-Apr-17 01:00:00	13-Apr-17 02:00:00		0.00	0.00	0.00	5.05	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	13-Apr-17 01:00:00		**10.35**	**18.92**	**83.84**	**88.34**
13-Apr-17 02:00:00	13-Apr-17 03:00:00		0.00	0.00	0.00	5.21	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	13-Apr-17 02:00:00		**10.35**	**18.92**	**83.84**	**88.40**
13-Apr-17 03:00:00	13-Apr-17 04:00:00		0.12	0.00	0.00	5.27	2.1	329.7		0.04	0.00	0.00	1.74		10.35	18.92	83.84	86.68	13-Apr-17 03:00:00		**10.39**	**18.92**	**83.84**	**88.42**
13-Apr-17 04:00:00	13-Apr-17 05:00:00		1.36	0.00	0.00	5.27	2.1	329.7		0.45	0.00	0.00	1.74		10.35	18.92	83.84	86.68	13-Apr-17 04:00:00		**10.80**	**18.92**	**83.84**	**88.42**
13-Apr-17 05:00:00	13-Apr-17 06:00:00		2.88	0.00	0.00	5.27	2.1	329.7		0.95	0.00	0.00	1.74		10.35	18.92	83.84	86.68	13-Apr-17 05:00:00		**11.30**	**18.92**	**83.84**	**88.42**
13-Apr-17 06:00:00	13-Apr-17 07:00:00		4.37	0.00	0.00	5.27	2.1	329.7		1.44	0.00	0.00	1.74		10.35	18.92	83.84	86.68	13-Apr-17 06:00:00		**11.79**	**18.92**	**83.84**	**88.42**
13-Apr-17 07:00:00	13-Apr-17 08:00:00		2.15	0.00	0.00	5.11	2.1	329.7		0.71	0.00	0.00	1.69		10.35	18.92	83.84	86.68	13-Apr-17 07:00:00		**11.06**	**18.92**	**83.84**	**88.37**
13-Apr-17 08:00:00	13-Apr-17 09:00:00		1.19	0.00	0.00	4.86	2.1	329.7		0.39	0.00	0.00	1.60		10.35	18.92	83.84	86.68	13-Apr-17 08:00:00		**10.74**	**18.92**	**83.84**	**88.28**
13-Apr-17 09:00:00	13-Apr-17 10:00:00		0.75	0.00	0.00	4.61	2.1	329.7		0.25	0.00	0.00	1.52		10.35	18.92	83.84	86.68	13-Apr-17 09:00:00		**10.60**	**18.92**	**83.84**	**88.20**
13-Apr-17 10:00:00	13-Apr-17 11:00:00		0.30	0.00	0.00	4.37	2.1	329.7		0.10	0.00	0.00	1.44		10.35	18.92	83.84	86.68	13-Apr-17 10:00:00		**10.45**	**18.92**	**83.84**	**88.12**
13-Apr-17 11:00:00	13-Apr-17 12:00:00		0.01	0.00	0.00	4.25	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	13-Apr-17 11:00:00		**10.35**	**18.92**	**83.84**	**88.08**
13-Apr-17 12:00:00	13-Apr-17 13:00:00		0.00	0.00	0.00	4.11	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	13-Apr-17 12:00:00		**10.35**	**18.92**	**83.84**	**88.03**
13-Apr-17 13:00:00	13-Apr-17 14:00:00		0.00	0.00	0.00	3.97	2.1	329.7		0.00	0.00	0.00	1.31		10.35	18.92	83.84	86.68	13-Apr-17 13:00:00		**10.35**	**18.92**	**83.84**	**87.99**
13-Apr-17 14:00:00	13-Apr-17 15:00:00		0.00	0.00	0.00	3.83	2.1	329.7		0.00	0.00	0.00	1.26		10.35	18.92	83.84	86.68	13-Apr-17 14:00:00		**10.35**	**18.92**	**83.84**	**87.94**
13-Apr-17 15:00:00	13-Apr-17 16:00:00		117.51	0.00	0.00	3.79	2.1	329.7		38.74	0.00	0.00	1.25		10.35	18.92	83.84	86.68	13-Apr-17 15:00:00		**49.09**	**18.92**	**83.84**	**87.93**
13-Apr-17 16:00:00	13-Apr-17 17:00:00		1,292.26	0.00	0.00	3.73	2.1	329.7		426.06	0.00	0.00	1.23		10.35	18.92	83.84	86.68	13-Apr-17 16:00:00		**436.41**	**18.92**	**83.84**	**87.91**
13-Apr-17 17:00:00	13-Apr-17 18:00:00		1,377.39	0.00	0.00	3.68	2.1	329.7		454.13	0.00	0.00	1.21		10.35	18.92	83.84	86.68	13-Apr-17 17:00:00		**464.48**	**18.92**	**83.84**	**87.89**
13-Apr-17 18:00:00	13-Apr-17 19:00:00		1,389.31	0.00	0.00	3.62	2.1	329.7		458.05	0.00	0.00	1.19		10.35	18.92	83.84	86.68	13-Apr-17 18:00:00		**468.40**	**18.92**	**83.84**	**87.87**
13-Apr-17 19:00:00	13-Apr-17 20:00:00		1,391.24	0.00	0.00	3.73	2.1	329.7		458.69	0.00	0.00	1.23		10.35	18.92	83.84	86.68	13-Apr-17 19:00:00		**469.04**	**18.92**	**83.84**	**87.91**
13-Apr-17 20:00:00	13-Apr-17 21:00:00		1,393.73	0.00	0.00	3.99	2.1	329.7		459.51	0.00	0.00	1.32		10.35	18.92	83.84	86.68	13-Apr-17 20:00:00		**469.86**	**18.92**	**83.84**	**88.00**
13-Apr-17 21:00:00	13-Apr-17 22:00:00		1,409.28	0.00	0.00	4.26	2.1	329.7		464.64	0.00	0.00	1.41		10.35	18.92	83.84	86.68	13-Apr-17 21:00:00		**474.99**	**18.92**	**83.84**	**88.09**
13-Apr-17 22:00:00	13-Apr-17 23:00:00		1,692.82	34.51	0.00	4.53	2.1	329.7		558.12	11.38	0.00	1.49		10.35	18.92	83.84	86.68	13-Apr-17 22:00:00		**568.47**	**30.30**	**83.84**	**88.17**
13-Apr-17 23:00:00	14-Apr-17 00:00:00		1,859.92	639.00	0.00	4.72	2.1	329.7		613.22	210.68	0.00	1.56		10.35	18.92	83.84	86.68	13-Apr-17 23:00:00		**623.57**	**229.60**	**83.84**	**88.24**
14-Apr-17 00:00:00	14-Apr-17 01:00:00		1,825.52	664.96	0.00	4.87	2.1	329.7		601.87	219.24	0.00	1.60		10.35	18.92	83.84	86.68	14-Apr-17 00:00:00		**612.22**	**238.16**	**83.84**	**88.28**
14-Apr-17 01:00:00	14-Apr-17 02:00:00		1,926.03	663.93	0.00	5.01	2.1	329.7		635.01	218.90	0.00	1.65		10.35	18.92	83.84	86.68	14-Apr-17 01:00:00		**645.36**	**237.82**	**83.84**	**88.33**
14-Apr-17 02:00:00	14-Apr-17 03:00:00		2,015.89	1,208.90	0.00	5.15	2.1	329.7		664.64	398.57	0.00	1.70		10.35	18.92	83.84	86.68	14-Apr-17 02:00:00		**674.99**	**417.49**	**83.84**	**88.38**
14-Apr-17 03:00:00	14-Apr-17 04:00:00		2,061.84	1,700.69	0.00	5.27	2.1	329.7		679.79	560.72	0.00	1.74		10.35	18.92	83.84	86.68	14-Apr-17 03:00:00		**690.14**	**579.64**	**83.84**	**88.42**
14-Apr-17 04:00:00	14-Apr-17 05:00:00		2,064.18	1,753.65	0.00	5.39	2.1	329.7		680.56	578.18	0.00	1.78		10.35	18.92	83.84	86.68	14-Apr-17 04:00:00		**690.91**	**597.10**	**83.84**	**88.46**
14-Apr-17 05:00:00	14-Apr-17 06:00:00		2,096.24	1,702.86	0.00	5.50	2.1	329.7		691.13	561.43	0.00	1.81		10.35	18.92	83.84	86.68	14-Apr-17 05:00:00		**701.48**	**580.35**	**83.84**	**88.49**
14-Apr-17 06:00:00	14-Apr-17 07:00:00		2,091.83	1,700.15	0.00	5.62	2.1	329.7		689.67	560.54	0.00	1.85		10.35	18.92	83.84	86.68	14-Apr-17 06:00:00		**700.02**	**579.46**	**83.84**	**88.53**
14-Apr-17 07:00:00	14-Apr-17 08:00:00		2,142.93	1,677.57	0.00	5.69	2.1	329.7		706.52	553.09	0.00	1.88		10.35	18.92	83.84	86.68	14-Apr-17 07:00:00		**716.87**	**572.01**	**83.84**	**88.56**
14-Apr-17 08:00:00	14-Apr-17 09:00:00		1,962.25	1,637.42	0.00	5.52	2.1	329.7		646.95	539.86	0.00	1.82		10.35	18.92	83.84	86.68	14-Apr-17 08:00:00		**657.30**	**558.78**	**83.84**	**88.50**
14-Apr-17 09:00:00	14-Apr-17 10:00:00		1,975.96	1,636.39	0.00	5.35	2.1	329.7		651.47	539.52	0.00	1.76		10.35	18.92	83.84	86.68	14-Apr-17 09:00:00		**661.82**	**558.44**	**83.84**	**88.44**
14-Apr-17 10:00:00	14-Apr-17 11:00:00		2,104.66	1,666.33	0.00	5.18	2.1	329.7		693.91	549.39	0.00	1.71		10.35	18.92	83.84	86.68	14-Apr-17 10:00:00		**704.26**	**568.31**	**83.84**	**88.39**
14-Apr-17 11:00:00	14-Apr-17 12:00:00		729.93	572.99	0.00	4.89	2.1	329.7		240.66	188.92	0.00	1.61		10.35	18.92	83.84	86.68	14-Apr-17 11:00:00		**251.01**	**207.84**	**83.84**	**88.29**
14-Apr-17 12:00:00	14-Apr-17 13:00:00		756.56	876.77	0.00	4.53	2.1	329.7		249.44	289.07	0.00	1.49		10.35	18.92	83.84	86.68	14-Apr-17 12:00:00		**259.79**	**307.99**	**83.84**	**88.17**
14-Apr-17 13:00:00	14-Apr-17 14:00:00		1,883.15	1,444.39	0.00	4.17	2.1	329.7		620.87	476.22	0.00	1.38		10.35	18.92	83.84	86.68	14-Apr-17 13:00:00		**631.22**	**495.14**	**83.84**	**88.06**
14-Apr-17 14:00:00	14-Apr-17 15:00:00		1,589.87	1,147.24	0.00	3.81	2.1	329.7		524.18	378.25	0.00	1.26		10.35	18.92	83.84	86.68	14-Apr-17 14:00:00		**534.53**	**397.17**	**83.84**	**87.94**
14-Apr-17 15:00:00	14-Apr-17 16:00:00		1,670.07	929.47	0.00	3.66	2.1	329.7		550.62	306.45	0.00	1.21		10.35	18.92	83.84	86.68	14-Apr-17 15:00:00		**560.97**	**325.37**	**83.84**	**87.89**
14-Apr-17 16:00:00	14-Apr-17 17:00:00		1,815.52	916.46	0.00	3.66	2.1	329.7		598.58	302.16	0.00	1.21		10.35	18.92	83.84	86.68	14-Apr-17 16:00:00		**608.93**	**321.08**	**83.84**	**87.89**
14-Apr-17 17:00:00	14-Apr-17 18:00:00		1,503.06	712.96	0.00	3.67	2.1	329.7		495.56	235.06	0.00	1.21		10.35	18.92	83.84	86.68	14-Apr-17 17:00:00		**505.91**	**253.98**	**83.84**	**87.89**
14-Apr-17 18:00:00	14-Apr-17 19:00:00		1,491.33	687.78	0.00	3.67	2.1	329.7		491.69	226.76	0.00	1.21		10.35	18.92	83.84	86.68	14-Apr-17 18:00:00		**502.04**	**245.68**	**83.84**	**87.89**
14-Apr-17 19:00:00	14-Apr-17 20:00:00		1,504.21	687.19	0.00	3.63	2.1	329.7		495.94	226.57	0.00	1.20		10.35	18.92	83.84	86.68	14-Apr-17 19:00:00		**506.29**	**245.49**	**83.84**	**87.88**
14-Apr-17 20:00:00	14-Apr-17 21:00:00		1,349.32	688.56	0.00	3.78	2.1	329.7		444.87	227.02	0.00	1.25		10.35	18.92	83.84	86.68	14-Apr-17 20:00:00		**455.22**	**245.94**	**83.84**	**87.93**
14-Apr-17 21:00:00	14-Apr-17 22:00:00		1,284.47	460.02	0.00	3.93	2.1	329.7		423.49	151.67	0.00	1.30		10.35	18.92	83.84	86.68	14-Apr-17 21:00:00		**433.84**	**170.59**	**83.84**	**87.98**
14-Apr-17 22:00:00	14-Apr-17 23:00:00		774.20	211.37	0.00	4.08	2.1	329.7		255.25	69.69	0.00	1.35		10.35	18.92	83.84	86.68	14-Apr-17 22:00:00		**265.60**	**88.61**	**83.84**	**88.03**
14-Apr-17 23:00:00	15-Apr-17 00:00:00		294.46	223.26	0.00	4.19	2.1	329.7		97.08	73.61	0.00	1.38		10.35	18.92	83.84	86.68	14-Apr-17 23:00:00		**107.43**	**92.53**	**83.84**	**88.06**
15-Apr-17 00:00:00	15-Apr-17 01:00:00		0.00	273.41	0.00	4.33	2.1	329.7		0.00	90.14	0.00	1.43		10.35	18.92	83.84	86.68	15-Apr-17 00:00:00		**10.35**	**109.06**	**83.84**	**88.11**
15-Apr-17 01:00:00	15-Apr-17 02:00:00		0.00	122.23	0.00	4.47	2.1	329.7		0.00	40.30	0.00	1.47		10.35	18.92	83.84	86.68	15-Apr-17 01:00:00		**10.35**	**59.22**	**83.84**	**88.15**
15-Apr-17 02:00:00	15-Apr-17 03:00:00		0.00	0.00	0.00	4.61	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	15-Apr-17 02:00:00		**10.35**	**18.92**	**83.84**	**88.20**
15-Apr-17 03:00:00	15-Apr-17 04:00:00		0.00	0.00	0.00	4.58	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	15-Apr-17 03:00:00		**10.35**	**18.92**	**83.84**	**88.19**
15-Apr-17 04:00:00	15-Apr-17 05:00:00		0.00	0.00	0.00	4.65	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	15-Apr-17 04:00:00		**10.35**	**18.92**	**83.84**	**88.21**
15-Apr-17 05:00:00	15-Apr-17 06:00:00		0.00	0.00	0.00	4.73	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	15-Apr-17 05:00:00		**10.35**	**18.92**	**83.84**	**88.24**
15-Apr-17 06:00:00	15-Apr-17 07:00:00		0.00	0.00	0.00	4.81	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	15-Apr-17 06:00:00		**10.35**	**18.92**	**83.84**	**88.27**
15-Apr-17 07:00:00	15-Apr-17 08:00:00		0.00	0.00	0.00	4.84	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	15-Apr-17 07:00:00		**10.35**	**18.92**	**83.84**	**88.28**
15-Apr-17 08:00:00	15-Apr-17 09:00:00		0.00	0.00	0.00	4.85	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	15-Apr-17 08:00:00		**10.35**	**18.92**	**83.84**	**88.28**
15-Apr-17 09:00:00	15-Apr-17 10:00:00		0.00	0.00	0.00	4.85	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	15-Apr-17 09:00:00		**10.35**	**18.92**	**83.84**	**88.28**
15-Apr-17 10:00:00	15-Apr-17 11:00:00		0.00	0.00	0.00	4.85	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	15-Apr-17 10:00:00		**10.35**	**18.92**	**83.84**	**88.28**
15-Apr-17 11:00:00	15-Apr-17 12:00:00		0.00	0.00	0.00	4.66	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	15-Apr-17 11:00:00		**10.35**	**18.92**	**83.84**	**88.21**
15-Apr-17 12:00:00	15-Apr-17 13:00:00		0.00	0.00	0.00	4.42	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	15-Apr-17 12:00:00		**10.35**	**18.92**	**83.84**	**88.14**
15-Apr-17 13:00:00	15-Apr-17 14:00:00		0.00	0.00	0.00	4.19	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	15-Apr-17 13:00:00		**10.35**	**18.92**	**83.84**	**88.06**
15-Apr-17 14:00:00	15-Apr-17 15:00:00		0.00	0.00	0.00	3.95	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	15-Apr-17 14:00:00		**10.35**	**18.92**	**83.84**	**87.98**
15-Apr-17 15:00:00	15-Apr-17 16:00:00		0.00	0.00	0.00	3.90	2.1	329.7		0.00	0.00	0.00	1.29		10.35	18.92	83.84	86.68	15-Apr-17 15:00:00		**10.35**	**18.92**	**83.84**	**87.97**
15-Apr-17 16:00:00	15-Apr-17 17:00:00		0.00	0.00	0.00	3.82	2.1	329.7		0.00	0.00	0.00	1.26		10.35	18.92	83.84	86.68	15-Apr-17 16:00:00		**10.35**	**18.92**	**83.84**	**87.94**
15-Apr-17 17:00:00	15-Apr-17 18:00:00		0.00	0.00	0.00	3.74	2.1	329.7		0.00	0.00	0.00	1.23		10.35	18.92	83.84	86.68	15-Apr-17 17:00:00		**10.35**	**18.92**	**83.84**	**87.91**
15-Apr-17 18:00:00	15-Apr-17 19:00:00		0.00	0.00	0.00	3.66	2.1	329.7		0.00	0.00	0.00	1.21		10.35	18.92	83.84	86.68	15-Apr-17 18:00:00		**10.35**	**18.92**	**83.84**	**87.89**
15-Apr-17 19:00:00	15-Apr-17 20:00:00		0.00	0.00	0.00	3.78	2.1	329.7		0.00	0.00	0.00	1.25		10.35	18.92	83.84	86.68	15-Apr-17 19:00:00		**10.35**	**18.92**	**83.84**	**87.93**
15-Apr-17 20:00:00	15-Apr-17 21:00:00		0.00	0.00	0.00	3.91	2.1	329.7		0.00	0.00	0.00	1.29		10.35	18.92	83.84	86.68	15-Apr-17 20:00:00		**10.35**	**18.92**	**83.84**	**87.97**
15-Apr-17 21:00:00	15-Apr-17 22:00:00		0.00	0.00	0.00	4.05	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	15-Apr-17 21:00:00		**10.35**	**18.92**	**83.84**	**88.01**
15-Apr-17 22:00:00	15-Apr-17 23:00:00		0.50	0.00	0.00	4.18	2.1	329.7		0.16	0.00	0.00	1.38		10.35	18.92	83.84	86.68	15-Apr-17 22:00:00		**10.51**	**18.92**	**83.84**	**88.06**
15-Apr-17 23:00:00	16-Apr-17 00:00:00		0.70	0.00	0.00	4.21	2.1	329.7		0.23	0.00	0.00	1.39		10.35	18.92	83.84	86.68	15-Apr-17 23:00:00		**10.58**	**18.92**	**83.84**	**88.07**
16-Apr-17 00:00:00	16-Apr-17 01:00:00		0.00	0.00	0.00	4.33	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	16-Apr-17 00:00:00		**10.35**	**18.92**	**83.84**	**88.11**
16-Apr-17 01:00:00	16-Apr-17 02:00:00		0.00	0.00	0.00	4.46	2.1	329.7		0.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	16-Apr-17 01:00:00		**10.35**	**18.92**	**83.84**	**88.15**
16-Apr-17 02:00:00	16-Apr-17 03:00:00		0.00	0.00	0.00	4.59	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	16-Apr-17 02:00:00		**10.35**	**18.92**	**83.84**	**88.19**
16-Apr-17 03:00:00	16-Apr-17 04:00:00		0.00	0.00	0.00	4.79	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	16-Apr-17 03:00:00		**10.35**	**18.92**	**83.84**	**88.26**
16-Apr-17 04:00:00	16-Apr-17 05:00:00		0.00	0.00	0.00	5.00	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	16-Apr-17 04:00:00		**10.35**

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
18-Apr-17 07:00:00	18-Apr-17 08:00:00		0.00	0.00	0.00	4.91	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	18-Apr-17 07:00:00		**10.35**	**18.92**	**83.84**	**88.30**
18-Apr-17 08:00:00	18-Apr-17 09:00:00		0.00	0.00	0.00	4.90	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	18-Apr-17 08:00:00		**10.35**	**18.92**	**83.84**	**88.30**
18-Apr-17 09:00:00	18-Apr-17 10:00:00		0.00	48.90	0.00	4.88	2.1	329.7		0.00	16.12	0.00	1.61		10.35	18.92	83.84	86.68	18-Apr-17 09:00:00		**10.35**	**35.04**	**83.84**	**88.29**
18-Apr-17 10:00:00	18-Apr-17 11:00:00		0.00	1.57	0.00	4.86	2.1	329.7		0.00	0.52	0.00	1.60		10.35	18.92	83.84	86.68	18-Apr-17 10:00:00		**10.35**	**19.44**	**83.84**	**88.28**
18-Apr-17 11:00:00	18-Apr-17 12:00:00		0.00	0.00	0.00	5.10	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	18-Apr-17 11:00:00		**10.35**	**18.92**	**83.84**	**88.36**
18-Apr-17 12:00:00	18-Apr-17 13:00:00		0.00	0.00	0.00	5.04	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	18-Apr-17 12:00:00		**10.35**	**18.92**	**83.84**	**88.34**
18-Apr-17 13:00:00	18-Apr-17 14:00:00		0.00	0.00	0.00	4.95	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	18-Apr-17 13:00:00		**10.35**	**18.92**	**83.84**	**88.31**
18-Apr-17 14:00:00	18-Apr-17 15:00:00		0.00	33.67	0.00	4.87	2.1	329.7		0.00	11.10	0.00	1.60		10.35	18.92	83.84	86.68	18-Apr-17 14:00:00		**10.35**	**30.02**	**83.84**	**88.28**
18-Apr-17 15:00:00	18-Apr-17 16:00:00		0.00	0.00	0.00	4.84	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	18-Apr-17 15:00:00		**10.35**	**18.92**	**83.84**	**88.27**
18-Apr-17 16:00:00	18-Apr-17 17:00:00		86.75	1.58	0.00	4.85	2.1	329.7		28.60	0.52	0.00	1.60		10.35	18.92	83.84	86.68	18-Apr-17 16:00:00		**38.95**	**19.44**	**83.84**	**88.28**
18-Apr-17 17:00:00	18-Apr-17 18:00:00		914.61	0.00	0.00	4.86	2.1	329.7		301.55	0.00	0.00	1.60		10.35	18.92	83.84	86.68	18-Apr-17 17:00:00		**311.90**	**18.92**	**83.84**	**88.28**
18-Apr-17 18:00:00	18-Apr-17 19:00:00		408.33	0.00	0.00	4.87	2.1	329.7		134.63	0.00	0.00	1.61		10.35	18.92	83.84	86.68	18-Apr-17 18:00:00		**144.98**	**18.92**	**83.84**	**88.29**
18-Apr-17 19:00:00	18-Apr-17 20:00:00		301.67	0.00	0.00	4.97	2.1	329.7		99.46	0.00	0.00	1.64		10.35	18.92	83.84	86.68	18-Apr-17 19:00:00		**109.81**	**18.92**	**83.84**	**88.32**
18-Apr-17 20:00:00	18-Apr-17 21:00:00		302.32	0.00	0.00	5.04	2.1	329.7		99.67	0.00	0.00	1.66		10.35	18.92	83.84	86.68	18-Apr-17 20:00:00		**110.02**	**18.92**	**83.84**	**88.34**
18-Apr-17 21:00:00	18-Apr-17 22:00:00		129.11	0.00	0.00	5.10	2.1	329.7		42.57	0.00	0.00	1.68		10.35	18.92	83.84	86.68	18-Apr-17 21:00:00		**52.92**	**18.92**	**83.84**	**88.36**
18-Apr-17 22:00:00	18-Apr-17 23:00:00		0.00	0.00	0.00	5.17	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	18-Apr-17 22:00:00		**10.35**	**18.92**	**83.84**	**88.38**
18-Apr-17 23:00:00	19-Apr-17 00:00:00		0.00	0.00	0.00	5.29	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	18-Apr-17 23:00:00		**10.35**	**18.92**	**83.84**	**88.42**
19-Apr-17 00:00:00	19-Apr-17 01:00:00		0.00	0.00	0.00	5.27	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	19-Apr-17 00:00:00		**10.35**	**18.92**	**83.84**	**88.42**
19-Apr-17 01:00:00	19-Apr-17 02:00:00		0.00	0.00	0.00	5.24	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	19-Apr-17 01:00:00		**10.35**	**18.92**	**83.84**	**88.41**
19-Apr-17 02:00:00	19-Apr-17 03:00:00		0.00	0.00	0.00	5.22	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	19-Apr-17 02:00:00		**10.35**	**18.92**	**83.84**	**88.40**
19-Apr-17 03:00:00	19-Apr-17 04:00:00		0.00	0.00	0.00	5.20	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	19-Apr-17 03:00:00		**10.35**	**18.92**	**83.84**	**88.40**
19-Apr-17 04:00:00	19-Apr-17 05:00:00		0.00	0.00	0.00	5.21	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	19-Apr-17 04:00:00		**10.35**	**18.92**	**83.84**	**88.40**
19-Apr-17 05:00:00	19-Apr-17 06:00:00		0.00	0.00	0.00	5.22	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	19-Apr-17 05:00:00		**10.35**	**18.92**	**83.84**	**88.40**
19-Apr-17 06:00:00	19-Apr-17 07:00:00		0.00	0.00	0.00	5.23	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	19-Apr-17 06:00:00		**10.35**	**18.92**	**83.84**	**88.40**
19-Apr-17 07:00:00	19-Apr-17 08:00:00		0.00	0.00	0.00	5.45	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	19-Apr-17 07:00:00		**10.35**	**18.92**	**83.84**	**88.48**
19-Apr-17 08:00:00	19-Apr-17 09:00:00		0.00	0.00	0.00	5.45	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	19-Apr-17 08:00:00		**10.35**	**18.92**	**83.84**	**88.48**
19-Apr-17 09:00:00	19-Apr-17 10:00:00		0.14	0.00	0.00	5.43	2.1	329.7		0.05	0.00	0.00	1.79		10.35	18.92	83.84	86.68	19-Apr-17 09:00:00		**10.40**	**18.92**	**83.84**	**88.47**
19-Apr-17 10:00:00	19-Apr-17 11:00:00		0.96	0.00	0.00	5.40	2.1	329.7		0.32	0.00	0.00	1.78		10.35	18.92	83.84	86.68	19-Apr-17 10:00:00		**10.67**	**18.92**	**83.84**	**88.46**
19-Apr-17 11:00:00	19-Apr-17 12:00:00		1.16	0.00	0.00	5.53	2.1	329.7		0.38	0.00	0.00	1.82		10.35	18.92	83.84	86.68	19-Apr-17 11:00:00		**10.73**	**18.92**	**83.84**	**88.50**
19-Apr-17 12:00:00	19-Apr-17 13:00:00		0.42	0.00	0.00	5.47	2.1	329.7		0.14	0.00	0.00	1.80		10.35	18.92	83.84	86.68	19-Apr-17 12:00:00		**10.49**	**18.92**	**83.84**	**88.48**
19-Apr-17 13:00:00	19-Apr-17 14:00:00		0.28	0.00	0.00	5.38	2.1	329.7		0.09	0.00	0.00	1.77		10.35	18.92	83.84	86.68	19-Apr-17 13:00:00		**10.44**	**18.92**	**83.84**	**88.45**
19-Apr-17 14:00:00	19-Apr-17 15:00:00		0.14	0.00	0.00	5.29	2.1	329.7		0.05	0.00	0.00	1.74		10.35	18.92	83.84	86.68	19-Apr-17 14:00:00		**10.40**	**18.92**	**83.84**	**88.42**
19-Apr-17 15:00:00	19-Apr-17 16:00:00		0.02	0.00	0.00	5.10	2.1	329.7		0.01	0.00	0.00	1.68		10.35	18.92	83.84	86.68	19-Apr-17 15:00:00		**10.36**	**18.92**	**83.84**	**88.36**
19-Apr-17 16:00:00	19-Apr-17 17:00:00		0.00	0.00	0.00	5.02	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	19-Apr-17 16:00:00		**10.35**	**18.92**	**83.84**	**88.34**
19-Apr-17 17:00:00	19-Apr-17 18:00:00		0.00	0.00	0.00	4.96	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	19-Apr-17 17:00:00		**10.35**	**18.92**	**83.84**	**88.32**
19-Apr-17 18:00:00	19-Apr-17 19:00:00		0.00	0.00	0.00	4.90	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	19-Apr-17 18:00:00		**10.35**	**18.92**	**83.84**	**88.29**
19-Apr-17 19:00:00	19-Apr-17 20:00:00		0.00	0.00	0.00	4.85	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	19-Apr-17 19:00:00		**10.35**	**18.92**	**83.84**	**88.28**
19-Apr-17 20:00:00	19-Apr-17 21:00:00		0.00	0.00	0.00	4.86	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	19-Apr-17 20:00:00		**10.35**	**18.92**	**83.84**	**88.28**
19-Apr-17 21:00:00	19-Apr-17 22:00:00		0.00	0.00	0.00	4.87	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	19-Apr-17 21:00:00		**10.35**	**18.92**	**83.84**	**88.29**
19-Apr-17 22:00:00	19-Apr-17 23:00:00		0.00	0.00	0.00	4.89	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	19-Apr-17 22:00:00		**10.35**	**18.92**	**83.84**	**88.29**
19-Apr-17 23:00:00	20-Apr-17 00:00:00		0.00	0.00	0.00	4.76	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	19-Apr-17 23:00:00		**10.35**	**18.92**	**83.84**	**88.25**
20-Apr-17 00:00:00	20-Apr-17 01:00:00		0.00	0.00	0.00	4.82	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	20-Apr-17 00:00:00		**10.35**	**18.92**	**83.84**	**88.27**
20-Apr-17 01:00:00	20-Apr-17 02:00:00		0.00	0.00	0.00	4.91	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	20-Apr-17 01:00:00		**10.35**	**18.92**	**83.84**	**88.30**
20-Apr-17 02:00:00	20-Apr-17 03:00:00		0.00	0.00	0.00	5.00	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	20-Apr-17 02:00:00		**10.35**	**18.92**	**83.84**	**88.33**
20-Apr-17 03:00:00	20-Apr-17 04:00:00		0.00	0.00	0.00	5.02	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	20-Apr-17 03:00:00		**10.35**	**18.92**	**83.84**	**88.34**
20-Apr-17 04:00:00	20-Apr-17 05:00:00		0.00	0.00	0.00	4.98	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	20-Apr-17 04:00:00		**10.35**	**18.92**	**83.84**	**88.32**
20-Apr-17 05:00:00	20-Apr-17 06:00:00		0.00	0.00	0.00	4.95	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	20-Apr-17 05:00:00		**10.35**	**18.92**	**83.84**	**88.31**
20-Apr-17 06:00:00	20-Apr-17 07:00:00		0.00	0.00	0.00	4.91	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	20-Apr-17 06:00:00		**10.35**	**18.92**	**83.84**	**88.30**
20-Apr-17 07:00:00	20-Apr-17 08:00:00		0.00	0.00	0.00	4.78	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	20-Apr-17 07:00:00		**10.35**	**18.92**	**83.84**	**88.25**
20-Apr-17 08:00:00	20-Apr-17 09:00:00		0.00	0.00	0.00	4.68	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	20-Apr-17 08:00:00		**10.35**	**18.92**	**83.84**	**88.22**
20-Apr-17 09:00:00	20-Apr-17 10:00:00		0.00	0.00	0.00	4.59	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	20-Apr-17 09:00:00		**10.35**	**18.92**	**83.84**	**88.19**
20-Apr-17 10:00:00	20-Apr-17 11:00:00		0.00	0.00	0.00	4.50	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	20-Apr-17 10:00:00		**10.35**	**18.92**	**83.84**	**88.16**
20-Apr-17 11:00:00	20-Apr-17 12:00:00		0.00	0.00	0.00	4.51	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	20-Apr-17 11:00:00		**10.35**	**18.92**	**83.84**	**88.17**
20-Apr-17 12:00:00	20-Apr-17 13:00:00		0.00	0.00	0.00	4.33	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	20-Apr-17 12:00:00		**10.35**	**18.92**	**83.84**	**88.11**
20-Apr-17 13:00:00	20-Apr-17 14:00:00		0.00	0.00	0.00	4.13	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	20-Apr-17 13:00:00		**10.35**	**18.92**	**83.84**	**88.04**
20-Apr-17 14:00:00	20-Apr-17 15:00:00		0.00	0.00	0.00	3.92	2.1	329.7		0.00	0.00	0.00	1.29		10.35	18.92	83.84	86.68	20-Apr-17 14:00:00		**10.35**	**18.92**	**83.84**	**87.97**
20-Apr-17 15:00:00	20-Apr-17 16:00:00		0.00	14.67	0.00	3.81	2.1	329.7		0.00	4.84	0.00	1.25		10.35	18.92	83.84	86.68	20-Apr-17 15:00:00		**10.35**	**23.76**	**83.84**	**87.93**
20-Apr-17 16:00:00	20-Apr-17 17:00:00		0.00	0.00	0.00	3.73	2.1	329.7		0.00	0.00	0.00	1.23		10.35	18.92	83.84	86.68	20-Apr-17 16:00:00		**10.35**	**18.92**	**83.84**	**87.91**
20-Apr-17 17:00:00	20-Apr-17 18:00:00		0.00	0.00	0.00	3.65	2.1	329.7		0.00	0.00	0.00	1.20		10.35	18.92	83.84	86.68	20-Apr-17 17:00:00		**10.35**	**18.92**	**83.84**	**87.88**
20-Apr-17 18:00:00	20-Apr-17 19:00:00		0.00	0.00	0.00	3.57	2.1	329.7		0.00	0.00	0.00	1.18		10.35	18.92	83.84	86.68	20-Apr-17 18:00:00		**10.35**	**18.92**	**83.84**	**87.86**
20-Apr-17 19:00:00	20-Apr-17 20:00:00		0.00	0.00	0.00	3.66	2.1	329.7		0.00	0.00	0.00	1.21		10.35	18.92	83.84	86.68	20-Apr-17 19:00:00		**10.35**	**18.92**	**83.84**	**87.89**
20-Apr-17 20:00:00	20-Apr-17 21:00:00		0.74	0.00	0.00	3.79	2.1	329.7		0.24	0.00	0.00	1.25		10.35	18.92	83.84	86.68	20-Apr-17 20:00:00		**10.59**	**18.92**	**83.84**	**87.93**
20-Apr-17 21:00:00	20-Apr-17 22:00:00		3.09	0.00	0.00	3.89	2.1	329.7		1.02	0.00	0.00	1.28		10.35	18.92	83.84	86.68	20-Apr-17 21:00:00		**11.37**	**18.92**	**83.84**	**87.96**
20-Apr-17 22:00:00	20-Apr-17 23:00:00		1.55	0.00	0.00	4.00	2.1	329.7		0.51	0.00	0.00	1.32		10.35	18.92	83.84	86.68	20-Apr-17 22:00:00		**10.86**	**18.92**	**83.84**	**88.00**
20-Apr-17 23:00:00	21-Apr-17 00:00:00		1.02	0.00	0.00	4.15	2.1	329.7		0.34	0.00	0.00	1.37		10.35	18.92	83.84	86.68	20-Apr-17 23:00:00		**10.69**	**18.92**	**83.84**	**88.05**
21-Apr-17 00:00:00	21-Apr-17 01:00:00		0.49	0.00	0.00	4.31	2.1	329.7		0.16	0.00	0.00	1.42		10.35	18.92	83.84	86.68	21-Apr-17 00:00:00		**10.51**	**18.92**	**83.84**	**88.10**
21-Apr-17 01:00:00	21-Apr-17 02:00:00		0.05	0.00	0.00	4.46	2.1	329.7		0.02	0.00	0.00	1.47		10.35	18.92	83.84	86.68	21-Apr-17 01:00:00		**10.37**	**18.92**	**83.84**	**88.15**
21-Apr-17 02:00:00	21-Apr-17 03:00:00		0.00	0.00	0.00	4.61	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	21-Apr-17 02:00:00		**10.35**	**18.92**	**83.84**	**88.20**
21-Apr-17 03:00:00	21-Apr-17 04:00:00		0.00	0.00	0.00	4.68	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	21-Apr-17 03:00:00		**10.35**	**18.92**	**83.84**	**88.22**
21-Apr-17 04:00:00	21-Apr-17 05:00:00		0.00	0.00	0.00	4.78	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	21-Apr-17 04:00:00		**10.35**	**18.92**	**83.84**	**88.25**
21-Apr-17 05:00:00	21-Apr-17 06:00:00		0.00	0.00	0.00	4.90	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	21-Apr-17 05:00:00		**10.35**	**18.92**	**83.84**	**88.29**
21-Apr-17 06:00:00	21-Apr-17 07:00:00		0.00	0.00	0.00	5.02	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	21-Apr-17 06:00:00		**10.35**	**18.92**	**83.84**	**88.33**
21-Apr-17 07:00:00	21-Apr-17 08:00:00		0.00	0.00	0.00	4.95	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	21-Apr-17 07:00:00		**10.35**	**18.92**	**83.84**	**88.31**
21-Apr-17 08:00:00	21-Apr-17 09:00:00		0.00	0.00	0.00	4.74	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	21-Apr-17 08:00:00		**10.35**	**18.92**	**83.84**	**88.24**
21-Apr-17 09:00:00	21-Apr-17 10:00:00		0.00	0.00	0.00	4.55	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	21-Apr-17 09:00:00		**10.35**	**18.92**	**83.84**	**88.18**
21-Apr-17 10:00:00	21-Apr-17 11:00:00		0.00	0.00	0.00	4.36	2.1	329.7		0.00	0.00	0.00	1.44		10.35	18.92	83.84	86.68	21-Apr-17 10:00:00		**10.35**	**18.92**	**83.84**	**88.12**
21-Apr-17 11:00:00	21-Apr-17 12:00:00		0.00	0.00	0.00	4.13	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	21-Apr-17 11:00:00		**10.35**	**18.92**	**83.84**	**88.04**
21-Apr-17 12:00:00	21-Apr-17 13:00:00		0.00	0.00	0.00	3.95	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	21-Apr-17 12:00:00		**10.35**	**18.92**	**83.84**	**87.98**
21-Apr-17 13:00:00	21-Apr-17 14:00:00		1.39	0.00	0.00	3.78	2.1	329.7		0.46	0.00	0.00	1.25		10.35	18.92	83.84	86.68	21-Apr-17 13:00:00		**10.81**	**18.92**	**83.84**	**87.93**
21-Apr-17 14:00:00	21-Apr-17 15:00:00		0.00	0.00	0.00	3.61	2.1	329.7		0.00	0.00	0.00	1.19		10.35	18.92	83.84	86.68	21-Apr-17 14:00:00		**10.35**	**18.92**	**83.84**	**87.87**
21-Apr-17 15:00:00	21-Apr-17 16:00:00		0.00	0.00	0.00	3.51	2.1	329.7		0.00	0.00	0.00	1.16		10.35	18.92	83.84	86.68	21-Apr-17 15:00:00		**10.35**	**18.92**	**83.84**	**87.84**
21-Apr-17 16:00:00	21-Apr-17 17:00:00		0.00	0.00	0.00	3.51	2.1	329.7		0.00	0.00	0.00	1.16		10.35	18.92	83.84	86.68	21-Apr-17 16:00:00		**10.35**	**18.92**	**83.84**	**87.84**
21-Apr-17 17:00:00	21-Apr-17 18:00:00		0.00	0.00	0.00	3.50	2.1	329.7		0.00	0.00	0.00	1.16		10.35	18.92	83.84	86.68	21-Apr-17 17:00:00		**10.35**	**18.92**	**83.84**	**87.84**
21-Apr-17 18:00:00	21-Apr-17 19:00:00		0.00	0.00	0.00	3.50	2.1	329.7		0.00	0.00	0.00	1.16		10.35	18.92	83.84	86.68	21-Apr-17 18:00:00		**10.35**	**18.92**	**83.84**	**87.84**
21-Apr-17 19:00:00	21-Apr-17 20:00:00		0.00	0.00	0.00	3.54	2.1	329.7		0.00	0.00	0.00	1.17		10.35	18.92	83.84	86.68	21-Apr-17 19:00:00		**10.35**	**18.92**	**83.84**	**87.85**
21-Apr-17 20:00:00	21-Apr-17 21:00:00		0.00	0.00	0.00	3.65	2.1	329.7		0.00	0.00	0.00	1.20		10.35	18.92	83.84	86.68	21-Apr-17 20:00:00		**10.35**	**18.92**	**83.84**	**87.88**
21-Apr-17 21:00:00	21-Apr-17 22:00:00		0.00	0.00	0.00	3.75	2.1	329.7		0.00	0.00	0.00	1.24		10.35	18.92	83.84	86.68	21-Apr-17 21:00:00		**10.35**	**18.92**	**83.84**	**87.92**
21-Apr-17 22:00:00	21-Apr-17 23:00:00		0.52	0.00	0.00	3.86	2.1	329.7		0.17	0.00	0.00	1.27		10.35	18.92	83.84	86.68	21-Apr-17 22:00:00		**10.52**	**18.92**	**83.84**	**87.95**
21-Apr-17 23:00:00	22-Apr-17 00:00:00		0.51	0.00	0.00	3.95	2.1	329.7		0.17	0.00	0.00	1.30		10.35	18.92	83.84	86.68	21-Apr-17 23:00:00		**10.52**	**18.92**	**83.84**	**87.98**
22-Apr-17 00:00:00	22-Apr-17 01:00:00		0.00	0.00	0.00	4.12	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	22-Apr-17 00:00:00		**10.35**	**18.92**	**83.84**	**88.04**
22-Apr-17 01:00:00	22-Apr-17 02:00:00		0.00	0.00	0.00	4.30	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	22-Apr-17 01:00:00		**10.35**	**18.92**	**83.84**	**88.10**
22-Apr-17 02:00:00	22-Apr-17 03:00:00		0.00	0.00	0.00	4.49	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	22-Apr-17 02:00:00		**10.35**	**18.92**	**83.84**	**88.16**
22-Apr-17 03:00:00	22-Apr-17 04:00:00		0.00	0.00	0.00	4.67	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	22-Apr-17 03:00:00		**10.35**	**18.92**	**83.84**	**88.22**
22-Apr-17 04:00:00	22-Apr-17 05:00:00		0.00	0.00	0.00	4.70

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
24-Apr-17 06:00:00	24-Apr-17 07:00:00		0.00	545.27	0.00	6.03	2.1	329.7		0.00	179.77	0.00	1.99		10.35	18.92	83.84	86.68	24-Apr-17 06:00:00		**10.35**	**198.69**	**83.84**	**88.67**
24-Apr-17 07:00:00	24-Apr-17 08:00:00		0.00	545.69	0.00	5.94	2.1	329.7		0.00	179.91	0.00	1.96		10.35	18.92	83.84	86.68	24-Apr-17 07:00:00		**10.35**	**198.83**	**83.84**	**88.64**
24-Apr-17 08:00:00	24-Apr-17 09:00:00		0.00	547.65	0.00	5.79	2.1	329.7		0.00	180.56	0.00	1.91		10.35	18.92	83.84	86.68	24-Apr-17 08:00:00		**10.35**	**199.48**	**83.84**	**88.59**
24-Apr-17 09:00:00	24-Apr-17 10:00:00		0.00	545.77	0.00	5.65	2.1	329.7		0.00	179.94	0.00	1.86		10.35	18.92	83.84	86.68	24-Apr-17 09:00:00		**10.35**	**198.86**	**83.84**	**88.54**
24-Apr-17 10:00:00	24-Apr-17 11:00:00		0.00	544.17	0.00	6.33	2.1	329.7		0.00	179.41	0.00	2.09		10.35	18.92	83.84	86.68	24-Apr-17 10:00:00		**10.35**	**198.33**	**83.84**	**88.77**
24-Apr-17 11:00:00	24-Apr-17 12:00:00		0.00	544.20	0.00	5.76	2.1	329.7		0.00	179.42	0.00	1.90		10.35	18.92	83.84	86.68	24-Apr-17 11:00:00		**10.35**	**198.34**	**83.84**	**88.58**
24-Apr-17 12:00:00	24-Apr-17 13:00:00		0.00	545.68	0.00	5.80	2.1	329.7		0.00	179.91	0.00	1.91		10.35	18.92	83.84	86.68	24-Apr-17 12:00:00		**10.35**	**198.83**	**83.84**	**88.59**
24-Apr-17 13:00:00	24-Apr-17 14:00:00		0.00	543.65	0.00	5.84	2.1	329.7		0.00	179.24	0.00	1.92		10.35	18.92	83.84	86.68	24-Apr-17 13:00:00		**10.35**	**198.16**	**83.84**	**88.60**
24-Apr-17 14:00:00	24-Apr-17 15:00:00		0.00	544.91	0.00	5.72	2.1	329.7		0.00	179.66	0.00	1.89		10.35	18.92	83.84	86.68	24-Apr-17 14:00:00		**10.35**	**198.58**	**83.84**	**88.57**
24-Apr-17 15:00:00	24-Apr-17 16:00:00		0.00	545.61	0.00	9.61	2.1	329.7		0.00	179.89	0.00	3.17		10.35	18.92	83.84	86.68	24-Apr-17 15:00:00		**10.35**	**198.81**	**83.84**	**89.85**
24-Apr-17 16:00:00	24-Apr-17 17:00:00		0.00	544.07	0.00	5.18	2.1	329.7		0.00	179.38	0.00	1.71		10.35	18.92	83.84	86.68	24-Apr-17 16:00:00		**10.35**	**198.30**	**83.84**	**88.39**
24-Apr-17 17:00:00	24-Apr-17 18:00:00		0.00	542.93	0.00	5.14	2.1	329.7		0.00	179.00	0.00	1.70		10.35	18.92	83.84	86.68	24-Apr-17 17:00:00		**10.35**	**197.92**	**83.84**	**88.38**
24-Apr-17 18:00:00	24-Apr-17 19:00:00		0.00	545.01	0.00	5.10	2.1	329.7		0.00	179.69	0.00	1.68		10.35	18.92	83.84	86.68	24-Apr-17 18:00:00		**10.35**	**198.61**	**83.84**	**88.36**
24-Apr-17 19:00:00	24-Apr-17 20:00:00		0.00	540.78	0.00	5.08	2.1	329.7		0.00	178.30	0.00	1.67		10.35	18.92	83.84	86.68	24-Apr-17 19:00:00		**10.35**	**197.22**	**83.84**	**88.35**
24-Apr-17 20:00:00	24-Apr-17 21:00:00		0.00	541.11	0.00	5.08	2.1	329.7		0.00	178.40	0.00	1.67		10.35	18.92	83.84	86.68	24-Apr-17 20:00:00		**10.35**	**197.32**	**83.84**	**88.35**
24-Apr-17 21:00:00	24-Apr-17 22:00:00		0.00	540.35	0.00	4.98	2.1	329.7		0.00	178.15	0.00	1.64		10.35	18.92	83.84	86.68	24-Apr-17 21:00:00		**10.35**	**197.07**	**83.84**	**88.32**
24-Apr-17 22:00:00	24-Apr-17 23:00:00		0.00	540.60	0.00	4.88	2.1	329.7		0.00	178.24	0.00	1.61		10.35	18.92	83.84	86.68	24-Apr-17 22:00:00		**10.35**	**197.16**	**83.84**	**88.29**
24-Apr-17 23:00:00	25-Apr-17 00:00:00		0.00	539.83	0.00	4.77	2.1	329.7		0.00	177.98	0.00	1.57		10.35	18.92	83.84	86.68	24-Apr-17 23:00:00		**10.35**	**196.90**	**83.84**	**88.25**
25-Apr-17 00:00:00	25-Apr-17 01:00:00		0.00	540.58	0.00	4.68	2.1	329.7		0.00	178.23	0.00	1.54		10.35	18.92	83.84	86.68	25-Apr-17 00:00:00		**10.35**	**197.15**	**83.84**	**88.22**
25-Apr-17 01:00:00	25-Apr-17 02:00:00		0.00	542.06	0.00	4.69	2.1	329.7		0.00	178.72	0.00	1.55		10.35	18.92	83.84	86.68	25-Apr-17 01:00:00		**10.35**	**197.64**	**83.84**	**88.23**
25-Apr-17 02:00:00	25-Apr-17 03:00:00		0.00	541.08	0.00	4.71	2.1	329.7		0.00	178.39	0.00	1.55		10.35	18.92	83.84	86.68	25-Apr-17 02:00:00		**10.35**	**197.31**	**83.84**	**88.23**
25-Apr-17 03:00:00	25-Apr-17 04:00:00		0.00	503.56	0.00	4.72	2.1	329.7		0.00	166.02	0.00	1.56		10.35	18.92	83.84	86.68	25-Apr-17 03:00:00		**10.35**	**184.94**	**83.84**	**88.24**
25-Apr-17 04:00:00	25-Apr-17 05:00:00		0.00	377.53	0.00	103.23	2.1	329.7		0.00	124.47	0.00	34.03		10.35	18.92	83.84	86.68	25-Apr-17 04:00:00		**10.35**	**143.39**	**83.84**	**120.71**
25-Apr-17 05:00:00	25-Apr-17 06:00:00		315.50	534.77	0.00	4.73	2.1	329.7		103.89	176.32	0.00	1.56		10.35	18.92	83.84	86.68	25-Apr-17 05:00:00		**114.24**	**195.24**	**83.84**	**88.24**
25-Apr-17 06:00:00	25-Apr-17 07:00:00		470.45	798.48	0.00	4.79	2.1	329.7		155.11	263.26	0.00	1.58		10.35	18.92	83.84	86.68	25-Apr-17 06:00:00		**165.46**	**282.18**	**83.84**	**88.26**
25-Apr-17 07:00:00	25-Apr-17 08:00:00		458.96	968.73	0.00	4.86	2.1	329.7		151.32	319.39	0.00	1.60		10.35	18.92	83.84	86.68	25-Apr-17 07:00:00		**161.67**	**338.31**	**83.84**	**88.28**
25-Apr-17 08:00:00	25-Apr-17 09:00:00		471.35	969.41	0.00	4.93	2.1	329.7		155.40	319.62	0.00	1.63		10.35	18.92	83.84	86.68	25-Apr-17 08:00:00		**165.75**	**338.54**	**83.84**	**88.31**
25-Apr-17 09:00:00	25-Apr-17 10:00:00		471.50	964.06	0.00	5.04	2.1	329.7		155.45	317.85	0.00	1.66		10.35	18.92	83.84	86.68	25-Apr-17 09:00:00		**165.80**	**336.77**	**83.84**	**88.34**
25-Apr-17 10:00:00	25-Apr-17 11:00:00		431.00	26.41	0.00	4.91	2.1	329.7		142.10	8.71	0.00	1.62		10.35	18.92	83.84	86.68	25-Apr-17 10:00:00		**152.45**	**27.63**	**83.84**	**88.30**
25-Apr-17 11:00:00	25-Apr-17 12:00:00		182.11	0.00	0.00	4.79	2.1	329.7		60.04	0.00	0.00	1.58		10.35	18.92	83.84	86.68	25-Apr-17 11:00:00		**70.39**	**18.92**	**83.84**	**88.26**
25-Apr-17 12:00:00	25-Apr-17 13:00:00		0.00	0.00	0.00	4.67	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	25-Apr-17 12:00:00		**10.35**	**18.92**	**83.84**	**88.22**
25-Apr-17 13:00:00	25-Apr-17 14:00:00		0.00	0.00	0.00	4.56	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	25-Apr-17 13:00:00		**10.35**	**18.92**	**83.84**	**88.19**
25-Apr-17 14:00:00	25-Apr-17 15:00:00		0.00	0.00	0.00	4.48	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	25-Apr-17 14:00:00		**10.35**	**18.92**	**83.84**	**88.16**
25-Apr-17 15:00:00	25-Apr-17 16:00:00		0.00	0.00	0.00	4.39	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	25-Apr-17 15:00:00		**10.35**	**18.92**	**83.84**	**88.13**
25-Apr-17 16:00:00	25-Apr-17 17:00:00		0.00	0.00	0.00	4.29	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	25-Apr-17 16:00:00		**10.35**	**18.92**	**83.84**	**88.09**
25-Apr-17 17:00:00	25-Apr-17 18:00:00		0.00	0.00	0.00	4.10	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	25-Apr-17 17:00:00		**10.35**	**18.92**	**83.84**	**88.03**
25-Apr-17 18:00:00	25-Apr-17 19:00:00		0.00	0.00	0.00	4.10	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	25-Apr-17 18:00:00		**10.35**	**18.92**	**83.84**	**88.03**
25-Apr-17 19:00:00	25-Apr-17 20:00:00		0.00	0.00	0.00	4.09	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	25-Apr-17 19:00:00		**10.35**	**18.92**	**83.84**	**88.03**
25-Apr-17 20:00:00	25-Apr-17 21:00:00		0.00	0.00	0.00	4.08	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	25-Apr-17 20:00:00		**10.35**	**18.92**	**83.84**	**88.02**
25-Apr-17 21:00:00	25-Apr-17 22:00:00		0.00	0.00	0.00	4.18	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	25-Apr-17 21:00:00		**10.35**	**18.92**	**83.84**	**88.06**
25-Apr-17 22:00:00	25-Apr-17 23:00:00		0.00	0.00	0.00	4.37	2.1	329.7		0.00	0.00	0.00	1.44		10.35	18.92	83.84	86.68	25-Apr-17 22:00:00		**10.35**	**18.92**	**83.84**	**88.12**
25-Apr-17 23:00:00	26-Apr-17 00:00:00		0.00	0.00	0.00	4.56	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	25-Apr-17 23:00:00		**10.35**	**18.92**	**83.84**	**88.18**
26-Apr-17 00:00:00	26-Apr-17 01:00:00		0.00	0.00	0.00	4.75	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	26-Apr-17 00:00:00		**10.35**	**18.92**	**83.84**	**88.25**
26-Apr-17 01:00:00	26-Apr-17 02:00:00		0.00	0.00	0.00	4.85	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	26-Apr-17 01:00:00		**10.35**	**18.92**	**83.84**	**88.28**
26-Apr-17 02:00:00	26-Apr-17 03:00:00		0.00	0.00	0.00	4.89	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	26-Apr-17 02:00:00		**10.35**	**18.92**	**83.84**	**88.29**
26-Apr-17 03:00:00	26-Apr-17 04:00:00		0.00	0.00	0.00	4.92	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	26-Apr-17 03:00:00		**10.35**	**18.92**	**83.84**	**88.30**
26-Apr-17 04:00:00	26-Apr-17 05:00:00		0.00	0.00	0.00	4.96	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	26-Apr-17 04:00:00		**10.35**	**18.92**	**83.84**	**88.32**
26-Apr-17 05:00:00	26-Apr-17 06:00:00		0.00	0.00	0.00	5.09	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	26-Apr-17 05:00:00		**10.35**	**18.92**	**83.84**	**88.36**
26-Apr-17 06:00:00	26-Apr-17 07:00:00		0.00	0.00	0.00	5.11	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	26-Apr-17 06:00:00		**10.35**	**18.92**	**83.84**	**88.37**
26-Apr-17 07:00:00	26-Apr-17 08:00:00		0.00	0.00	0.00	5.13	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	26-Apr-17 07:00:00		**10.35**	**18.92**	**83.84**	**88.37**
26-Apr-17 08:00:00	26-Apr-17 09:00:00		0.00	0.00	0.00	5.15	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	26-Apr-17 08:00:00		**10.35**	**18.92**	**83.84**	**88.38**
26-Apr-17 09:00:00	26-Apr-17 10:00:00		0.00	0.00	0.00	4.72	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	26-Apr-17 09:00:00		**10.35**	**18.92**	**83.84**	**88.24**
26-Apr-17 10:00:00	26-Apr-17 11:00:00		0.00	0.00	0.00	4.42	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	26-Apr-17 10:00:00		**10.35**	**18.92**	**83.84**	**88.14**
26-Apr-17 11:00:00	26-Apr-17 12:00:00		0.00	0.00	0.00	4.12	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	26-Apr-17 11:00:00		**10.35**	**18.92**	**83.84**	**88.04**
26-Apr-17 12:00:00	26-Apr-17 13:00:00		0.00	0.00	0.00	3.82	2.1	329.7		0.00	0.00	0.00	1.26		10.35	18.92	83.84	86.68	26-Apr-17 12:00:00		**10.35**	**18.92**	**83.84**	**87.94**
26-Apr-17 13:00:00	26-Apr-17 14:00:00		1.41	0.00	0.00	3.69	2.1	329.7		0.47	0.00	0.00	1.22		10.35	18.92	83.84	86.68	26-Apr-17 13:00:00		**10.82**	**18.92**	**83.84**	**87.90**
26-Apr-17 14:00:00	26-Apr-17 15:00:00		0.95	0.00	0.00	3.64	2.1	329.7		0.31	0.00	0.00	1.20		10.35	18.92	83.84	86.68	26-Apr-17 14:00:00		**10.66**	**18.92**	**83.84**	**87.88**
26-Apr-17 15:00:00	26-Apr-17 16:00:00		1.54	0.00	0.00	3.59	2.1	329.7		0.51	0.00	0.00	1.18		10.35	18.92	83.84	86.68	26-Apr-17 15:00:00		**10.86**	**18.92**	**83.84**	**87.86**
26-Apr-17 16:00:00	26-Apr-17 17:00:00		0.00	0.00	0.00	3.54	2.1	329.7		0.00	0.00	0.00	1.17		10.35	18.92	83.84	86.68	26-Apr-17 16:00:00		**10.35**	**18.92**	**83.84**	**87.85**
26-Apr-17 17:00:00	26-Apr-17 18:00:00		6.82	0.00	0.00	3.51	2.1	329.7		2.25	0.00	0.00	1.16		10.35	18.92	83.84	86.68	26-Apr-17 17:00:00		**12.60**	**18.92**	**83.84**	**87.84**
26-Apr-17 18:00:00	26-Apr-17 19:00:00		2.45	0.00	0.00	3.52	2.1	329.7		0.81	0.00	0.00	1.16		10.35	18.92	83.84	86.68	26-Apr-17 18:00:00		**11.16**	**18.92**	**83.84**	**87.84**
26-Apr-17 19:00:00	26-Apr-17 20:00:00		0.23	0.00	0.00	3.53	2.1	329.7		0.08	0.00	0.00	1.16		10.35	18.92	83.84	86.68	26-Apr-17 19:00:00		**10.43**	**18.92**	**83.84**	**87.84**
26-Apr-17 20:00:00	26-Apr-17 21:00:00		0.52	0.00	0.00	3.53	2.1	329.7		0.17	0.00	0.00	1.16		10.35	18.92	83.84	86.68	26-Apr-17 20:00:00		**10.52**	**18.92**	**83.84**	**87.84**
26-Apr-17 21:00:00	26-Apr-17 22:00:00		0.92	0.00	0.00	3.55	2.1	329.7		0.30	0.00	0.00	1.17		10.35	18.92	83.84	86.68	26-Apr-17 21:00:00		**10.65**	**18.92**	**83.84**	**87.85**
26-Apr-17 22:00:00	26-Apr-17 23:00:00		0.78	0.00	0.00	3.74	2.1	329.7		0.26	0.00	0.00	1.23		10.35	18.92	83.84	86.68	26-Apr-17 22:00:00		**10.61**	**18.92**	**83.84**	**87.91**
26-Apr-17 23:00:00	27-Apr-17 00:00:00		0.34	0.00	0.00	3.94	2.1	329.7		0.11	0.00	0.00	1.30		10.35	18.92	83.84	86.68	26-Apr-17 23:00:00		**10.46**	**18.92**	**83.84**	**87.98**
27-Apr-17 00:00:00	27-Apr-17 01:00:00		0.44	0.00	0.00	4.13	2.1	329.7		0.14	0.00	0.00	1.36		10.35	18.92	83.84	86.68	27-Apr-17 00:00:00		**10.49**	**18.92**	**83.84**	**88.04**
27-Apr-17 01:00:00	27-Apr-17 02:00:00		0.00	0.00	0.00	4.20	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	27-Apr-17 01:00:00		**10.35**	**18.92**	**83.84**	**88.07**
27-Apr-17 02:00:00	27-Apr-17 03:00:00		0.24	0.00	0.00	4.34	2.1	329.7		0.08	0.00	0.00	1.43		10.35	18.92	83.84	86.68	27-Apr-17 02:00:00		**10.43**	**18.92**	**83.84**	**88.11**
27-Apr-17 03:00:00	27-Apr-17 04:00:00		0.00	0.00	0.00	4.49	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	27-Apr-17 03:00:00		**10.35**	**18.92**	**83.84**	**88.16**
27-Apr-17 04:00:00	27-Apr-17 05:00:00		0.00	0.00	0.00	4.63	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	27-Apr-17 04:00:00		**10.35**	**18.92**	**83.84**	**88.21**
27-Apr-17 05:00:00	27-Apr-17 06:00:00		0.00	0.00	0.00	4.72	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	27-Apr-17 05:00:00		**10.35**	**18.92**	**83.84**	**88.23**
27-Apr-17 06:00:00	27-Apr-17 07:00:00		0.71	0.00	0.00	4.70	2.1	329.7		0.23	0.00	0.00	1.55		10.35	18.92	83.84	86.68	27-Apr-17 06:00:00		**10.58**	**18.92**	**83.84**	**88.23**
27-Apr-17 07:00:00	27-Apr-17 08:00:00		887.26	303.69	0.00	4.68	2.1	329.7		292.53	100.13	0.00	1.54		10.35	18.92	83.84	86.68	27-Apr-17 07:00:00		**302.88**	**119.05**	**83.84**	**88.22**
27-Apr-17 08:00:00	27-Apr-17 09:00:00		848.07	292.94	0.00	4.67	2.1	329.7		279.61	96.58	0.00	1.54		10.35	18.92	83.84	86.68	27-Apr-17 08:00:00		**289.96**	**115.50**	**83.84**	**88.22**
27-Apr-17 09:00:00	27-Apr-17 10:00:00		789.27	244.00	0.00	4.58	2.1	329.7		260.22	80.45	0.00	1.51		10.35	18.92	83.84	86.68	27-Apr-17 09:00:00		**270.57**	**99.37**	**83.84**	**88.19**
27-Apr-17 10:00:00	27-Apr-17 11:00:00		294.36	145.92	0.00	4.43	2.1	329.7		97.05	48.11	0.00	1.46		10.35	18.92	83.84	86.68	27-Apr-17 10:00:00		**107.40**	**67.03**	**83.84**	**88.14**
27-Apr-17 11:00:00	27-Apr-17 12:00:00		58.46	0.00	0.00	4.27	2.1	329.7		19.27	0.00	0.00	1.40		10.35	18.92	83.84	86.68	27-Apr-17 11:00:00		**29.62**	**18.92**	**83.84**	**88.09**
27-Apr-17 12:00:00	27-Apr-17 13:00:00		296.69	0.00	0.00	8.24	2.1	329.7		97.82	0.00	0.00	2.72		10.35	18.92	83.84	86.68	27-Apr-17 12:00:00		**108.17**	**18.92**	**83.84**	**89.40**
27-Apr-17 13:00:00	27-Apr-17 14:00:00		297.17	0.00	0.00	3.98	2.1	329.7		97.98	0.00	0.00	1.31		10.35	18.92	83.84	86.68	27-Apr-17 13:00:00		**108.33**	**18.92**	**83.84**	**87.99**
27-Apr-17 14:00:00	27-Apr-17 15:00:00		345.43	0.00	0.00	3.90	2.1	329.7		113.89	0.00	0.00	1.28		10.35	18.92	83.84	86.68	27-Apr-17 14:00:00		**124.24**	**18.92**	**83.84**	**87.96**
27-Apr-17 15:00:00	27-Apr-17 16:00:00		143.17	0.00	0.00	3.81	2.1	329.7		47.20	0.00	0.00	1.26		10.35	18.92	83.84	86.68	27-Apr-17 15:00:00		**57.55**	**18.92**	**83.84**	**87.94**
27-Apr-17 16:00:00	27-Apr-17 17:00:00		0.00	0.00	0.00	3.63	2.1	329.7		0.00	0.00	0.00	1.20		10.35	18.92	83.84	86.68	27-Apr-17 16:00:00		**10.35**	**18.92**	**83.84**	**87.88**
27-Apr-17 17:00:00	27-Apr-17 18:00:00		0.00	0.00	0.00	3.69	2.1	329.7		0.00	0.00	0.00	1.22		10.35	18.92	83.84	86.68	27-Apr-17 17:00:00		**10.35**	**18.92**	**83.84**	**87.90**
27-Apr-17 18:00:00	27-Apr-17 19:00:00		0.00	0.00	0.00	3.83	2.1	329.7		0.00	0.00	0.00	1.26		10.35	18.92	83.84	86.68	27-Apr-17 18:00:00		**10.35**	**18.92**	**83.84**	**87.94**
27-Apr-17 19:00:00	27-Apr-17 20:00:00		0.00	0.00	0.00	3.97	2.1	329.7		0.00	0.00	0.00	1.31		10.35	18.92	83.84	86.68	27-Apr-17 19:00:00		**10.35**	**18.92**	**83.84**	**87.99**
27-Apr-17 20:00:00	27-Apr-17 21:00:00		0.00	0.00	0.00	4.08	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	27-Apr-17 20:00:00		**10.35**	**18.92**	**83.84**	**88.02**
27-Apr-17 21:00:00	27-Apr-17 22:00:00		0.00	0.00	0.00	4.11	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	27-Apr-17 21:00:00		**10.35**	**18.92**	**83.84**	**88.04**
27-Apr-17 22:00:00	27-Apr-17 23:00:00		0.00	0.00	0.00	4.14	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	27-Apr-17 22:00:00		**10.35**	**18.92**	**83.84**	**88.04**
27-Apr-17 23:00:00	28-Apr-17 00:00:00		0.00	0.00	0.00	4.16	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	27-Apr-17 23:00:00		**10.35**	**18.92**	**83.84**	**88.05**
28-Apr-17 00:00:00	28-Apr-17 01:00:00		0.00	0.00	0.00	4.11	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	28-Apr-17 00:00:00		**10.35**	**18.92**	**83.84**	**88.04**
28-Apr-17 01:00:00	28-Apr-17 02:00:00		0.00	0.00	0.00	4.11	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	28-Apr-17 01:00:00		**10.35**	**18.92**	**83.84**	**88.04**
28-Apr-17 02:00:00	28-Apr-17 03:00:00		0.00	0.00	0.00	4.15	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	28-Apr-17 02:00:00		**10.35**	**18.92**	**83.84**	**88.05**
28-Apr-17 03:00:00	28-Apr-17 04:00:00		0.00	0.00	0.00	4.18

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
30-Apr-17 05:00:00	30-Apr-17 06:00:00		0.00	0.00	0.00	4.52	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	30-Apr-17 05:00:00		10.35	18.92	83.84	88.17
30-Apr-17 06:00:00	30-Apr-17 07:00:00		0.00	0.00	0.00	4.41	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	30-Apr-17 06:00:00		10.35	18.92	83.84	88.13
30-Apr-17 07:00:00	30-Apr-17 08:00:00		0.00	0.00	0.00	4.30	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	30-Apr-17 07:00:00		10.35	18.92	83.84	88.10
30-Apr-17 08:00:00	30-Apr-17 09:00:00		0.00	0.00	0.00	4.32	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	30-Apr-17 08:00:00		10.35	18.92	83.84	88.10
30-Apr-17 09:00:00	30-Apr-17 10:00:00		0.00	0.00	0.00	4.27	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	30-Apr-17 09:00:00		10.35	18.92	83.84	88.09
30-Apr-17 10:00:00	30-Apr-17 11:00:00		0.00	0.00	0.00	4.20	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	30-Apr-17 10:00:00		10.35	18.92	83.84	88.06
30-Apr-17 11:00:00	30-Apr-17 12:00:00		0.00	0.00	0.00	4.13	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	30-Apr-17 11:00:00		10.35	18.92	83.84	88.04
30-Apr-17 12:00:00	30-Apr-17 13:00:00		3.23	0.00	0.00	4.08	2.1	329.7		1.07	0.00	0.00	1.34		10.35	18.92	83.84	86.68	30-Apr-17 12:00:00		11.42	18.92	83.84	88.02
30-Apr-17 13:00:00	30-Apr-17 14:00:00		7.82	0.00	0.00	4.08	2.1	329.7		2.58	0.00	0.00	1.35		10.35	18.92	83.84	86.68	30-Apr-17 13:00:00		12.93	18.92	83.84	88.03
30-Apr-17 14:00:00	30-Apr-17 15:00:00		3.24	0.00	0.00	4.09	2.1	329.7		1.07	0.00	0.00	1.35		10.35	18.92	83.84	86.68	30-Apr-17 14:00:00		11.42	18.92	83.84	88.03
30-Apr-17 15:00:00	30-Apr-17 16:00:00		250.48	0.00	0.00	4.10	2.1	329.7		82.58	0.00	0.00	1.35		10.35	18.92	83.84	86.68	30-Apr-17 15:00:00		92.93	18.92	83.84	88.03
30-Apr-17 16:00:00	30-Apr-17 17:00:00		508.19	0.00	0.00	4.09	2.1	329.7		167.55	0.00	0.00	1.35		10.35	18.92	83.84	86.68	30-Apr-17 16:00:00		177.90	18.92	83.84	88.03
30-Apr-17 17:00:00	30-Apr-17 18:00:00		574.19	0.00	0.00	4.12	2.1	329.7		189.31	0.00	0.00	1.36		10.35	18.92	83.84	86.68	30-Apr-17 17:00:00		199.66	18.92	83.84	88.04
30-Apr-17 18:00:00	30-Apr-17 19:00:00		230.84	0.00	0.00	4.15	2.1	329.7		76.11	0.00	0.00	1.37		10.35	18.92	83.84	86.68	30-Apr-17 18:00:00		86.46	18.92	83.84	88.05
30-Apr-17 19:00:00	30-Apr-17 20:00:00		31.45	0.00	0.00	4.18	2.1	329.7		10.37	0.00	0.00	1.38		10.35	18.92	83.84	86.68	30-Apr-17 19:00:00		20.72	18.92	83.84	88.06
30-Apr-17 20:00:00	30-Apr-17 21:00:00		12.49	0.00	0.00	4.26	2.1	329.7		4.12	0.00	0.00	1.40		10.35	18.92	83.84	86.68	30-Apr-17 20:00:00		14.47	18.92	83.84	88.08
30-Apr-17 21:00:00	30-Apr-17 22:00:00		4.03	0.00	0.00	4.38	2.1	329.7		1.33	0.00	0.00	1.44		10.35	18.92	83.84	86.68	30-Apr-17 21:00:00		11.68	18.92	83.84	88.12
30-Apr-17 22:00:00	30-Apr-17 23:00:00		5.83	0.00	0.00	4.49	2.1	329.7		1.92	0.00	0.00	1.48		10.35	18.92	83.84	86.68	30-Apr-17 22:00:00		12.27	18.92	83.84	88.16
30-Apr-17 23:00:00	01-May-17 00:00:00		4.83	0.00	0.00	4.59	2.1	329.7		1.59	0.00	0.00	1.51		10.35	18.92	83.84	86.68	30-Apr-17 23:00:00		11.94	18.92	83.84	88.19
01-May-17 00:00:00	01-May-17 01:00:00		4.26	0.00	0.00	4.64	2.1	329.7		1.41	0.00	0.00	1.53		10.35	18.92	83.84	86.68	01-May-17 00:00:00		11.76	18.92	83.84	88.21
01-May-17 01:00:00	01-May-17 02:00:00		3.04	0.00	0.00	4.64	2.1	329.7		1.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	01-May-17 01:00:00		11.35	18.92	83.84	88.21
01-May-17 02:00:00	01-May-17 03:00:00		2.60	0.00	0.00	4.63	2.1	329.7		0.86	0.00	0.00	1.53		10.35	18.92	83.84	86.68	01-May-17 02:00:00		11.21	18.92	83.84	88.21
01-May-17 03:00:00	01-May-17 04:00:00		2.70	0.00	0.00	4.63	2.1	329.7		0.89	0.00	0.00	1.53		10.35	18.92	83.84	86.68	01-May-17 03:00:00		11.24	18.92	83.84	88.21
01-May-17 04:00:00	01-May-17 05:00:00		2.04	0.00	0.00	4.64	2.1	329.7		0.67	0.00	0.00	1.53		10.35	18.92	83.84	86.68	01-May-17 04:00:00		11.02	18.92	83.84	88.21
01-May-17 05:00:00	01-May-17 06:00:00		2.59	0.00	0.00	4.68	2.1	329.7		0.85	0.00	0.00	1.54		10.35	18.92	83.84	86.68	01-May-17 05:00:00		11.20	18.92	83.84	88.22
01-May-17 06:00:00	01-May-17 07:00:00		3.13	0.00	0.00	4.72	2.1	329.7		1.03	0.00	0.00	1.56		10.35	18.92	83.84	86.68	01-May-17 06:00:00		11.38	18.92	83.84	88.24
01-May-17 07:00:00	01-May-17 08:00:00		5.21	0.00	0.00	4.76	2.1	329.7		1.72	0.00	0.00	1.57		10.35	18.92	83.84	86.68	01-May-17 07:00:00		12.07	18.92	83.84	88.25
01-May-17 08:00:00	01-May-17 09:00:00		7.61	0.00	0.00	4.72	2.1	329.7		2.51	0.00	0.00	1.56		10.35	18.92	83.84	86.68	01-May-17 08:00:00		12.86	18.92	83.84	88.24
01-May-17 09:00:00	01-May-17 10:00:00		6.89	0.00	0.00	4.65	2.1	329.7		2.27	0.00	0.00	1.53		10.35	18.92	83.84	86.68	01-May-17 09:00:00		12.62	18.92	83.84	88.21
01-May-17 10:00:00	01-May-17 11:00:00		6.13	0.00	0.00	4.59	2.1	329.7		2.02	0.00	0.00	1.51		10.35	18.92	83.84	86.68	01-May-17 10:00:00		12.37	18.92	83.84	88.19
01-May-17 11:00:00	01-May-17 12:00:00		5.47	0.00	0.00	4.54	2.1	329.7		1.80	0.00	0.00	1.50		10.35	18.92	83.84	86.68	01-May-17 11:00:00		12.15	18.92	83.84	88.18
01-May-17 12:00:00	01-May-17 13:00:00		6.27	0.00	0.00	4.45	2.1	329.7		2.07	0.00	0.00	1.47		10.35	18.92	83.84	86.68	01-May-17 12:00:00		12.42	18.92	83.84	88.15
01-May-17 13:00:00	01-May-17 14:00:00		7.14	0.00	0.00	4.35	2.1	329.7		2.35	0.00	0.00	1.43		10.35	18.92	83.84	86.68	01-May-17 13:00:00		12.70	18.92	83.84	88.11
01-May-17 14:00:00	01-May-17 15:00:00		5.03	0.00	0.00	4.24	2.1	329.7		1.66	0.00	0.00	1.40		10.35	18.92	83.84	86.68	01-May-17 14:00:00		12.01	18.92	83.84	88.08
01-May-17 15:00:00	01-May-17 16:00:00		2.37	0.00	0.00	4.14	2.1	329.7		0.78	0.00	0.00	1.37		10.35	18.92	83.84	86.68	01-May-17 15:00:00		11.13	18.92	83.84	88.05
01-May-17 16:00:00	01-May-17 17:00:00		1.47	0.00	0.00	4.24	2.1	329.7		0.48	0.00	0.00	1.40		10.35	18.92	83.84	86.68	01-May-17 16:00:00		10.83	18.92	83.84	88.08
01-May-17 17:00:00	01-May-17 18:00:00		0.77	0.00	0.00	4.47	2.1	329.7		0.25	0.00	0.00	1.47		10.35	18.92	83.84	86.68	01-May-17 17:00:00		10.60	18.92	83.84	88.15
01-May-17 18:00:00	01-May-17 19:00:00		0.00	0.00	0.00	4.67	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	01-May-17 18:00:00		10.35	18.92	83.84	88.22
01-May-17 19:00:00	01-May-17 20:00:00		0.00	0.00	0.00	4.88	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	01-May-17 19:00:00		10.35	18.92	83.84	88.29
01-May-17 20:00:00	01-May-17 21:00:00		0.00	0.00	0.00	5.09	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	01-May-17 20:00:00		10.35	18.92	83.84	88.36
01-May-17 21:00:00	01-May-17 22:00:00		0.00	0.00	0.00	5.19	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	01-May-17 21:00:00		10.35	18.92	83.84	88.39
01-May-17 22:00:00	01-May-17 23:00:00		0.13	0.00	0.00	5.27	2.1	329.7		0.04	0.00	0.00	1.74		10.35	18.92	83.84	86.68	01-May-17 22:00:00		10.39	18.92	83.84	88.42
01-May-17 23:00:00	02-May-17 00:00:00		1.74	0.00	0.00	5.34	2.1	329.7		0.57	0.00	0.00	1.76		10.35	18.92	83.84	86.68	01-May-17 23:00:00		10.92	18.92	83.84	88.44
02-May-17 00:00:00	02-May-17 01:00:00		1.12	0.00	0.00	5.24	2.1	329.7		0.37	0.00	0.00	1.73		10.35	18.92	83.84	86.68	02-May-17 00:00:00		10.72	18.92	83.84	88.41
02-May-17 01:00:00	02-May-17 02:00:00		2.35	0.00	0.00	5.32	2.1	329.7		0.77	0.00	0.00	1.75		10.35	18.92	83.84	86.68	02-May-17 01:00:00		11.12	18.92	83.84	88.43
02-May-17 02:00:00	02-May-17 03:00:00		2.89	0.00	0.00	5.48	2.1	329.7		0.95	0.00	0.00	1.81		10.35	18.92	83.84	86.68	02-May-17 02:00:00		11.30	18.92	83.84	88.49
02-May-17 03:00:00	02-May-17 04:00:00		0.00	0.00	0.00	5.65	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	02-May-17 03:00:00		10.35	18.92	83.84	88.54
02-May-17 04:00:00	02-May-17 05:00:00		0.00	0.00	0.00	5.75	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	02-May-17 04:00:00		10.35	18.92	83.84	88.58
02-May-17 05:00:00	02-May-17 06:00:00		0.00	0.00	0.00	5.73	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	02-May-17 05:00:00		10.35	18.92	83.84	88.57
02-May-17 06:00:00	02-May-17 07:00:00		0.28	0.00	0.00	5.71	2.1	329.7		0.09	0.00	0.00	1.88		10.35	18.92	83.84	86.68	02-May-17 06:00:00		10.44	18.92	83.84	88.56
02-May-17 07:00:00	02-May-17 08:00:00		2.29	0.00	0.00	5.70	2.1	329.7		0.76	0.00	0.00	1.88		10.35	18.92	83.84	86.68	02-May-17 07:00:00		11.11	18.92	83.84	88.56
02-May-17 08:00:00	02-May-17 09:00:00		0.00	0.00	0.00	5.67	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	02-May-17 08:00:00		10.35	18.92	83.84	88.55
02-May-17 09:00:00	02-May-17 10:00:00		0.00	0.00	0.00	5.58	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	02-May-17 09:00:00		10.35	18.92	83.84	88.52
02-May-17 10:00:00	02-May-17 11:00:00		0.00	0.00	0.00	5.47	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	02-May-17 10:00:00		10.35	18.92	83.84	88.48
02-May-17 11:00:00	02-May-17 12:00:00		0.04	0.00	0.00	5.37	2.1	329.7		0.01	0.00	0.00	1.77		10.35	18.92	83.84	86.68	02-May-17 11:00:00		10.36	18.92	83.84	88.45
02-May-17 12:00:00	02-May-17 13:00:00		0.30	0.00	0.00	5.26	2.1	329.7		0.10	0.00	0.00	1.74		10.35	18.92	83.84	86.68	02-May-17 12:00:00		10.45	18.92	83.84	88.42
02-May-17 13:00:00	02-May-17 14:00:00		0.60	0.00	0.00	5.10	2.1	329.7		0.20	0.00	0.00	1.68		10.35	18.92	83.84	86.68	02-May-17 13:00:00		10.55	18.92	83.84	88.36
02-May-17 14:00:00	02-May-17 15:00:00		2.01	0.00	0.00	4.92	2.1	329.7		0.66	0.00	0.00	1.62		10.35	18.92	83.84	86.68	02-May-17 14:00:00		11.01	18.92	83.84	88.30
02-May-17 15:00:00	02-May-17 16:00:00		0.96	0.00	0.00	4.73	2.1	329.7		0.32	0.00	0.00	1.56		10.35	18.92	83.84	86.68	02-May-17 15:00:00		10.67	18.92	83.84	88.24
02-May-17 16:00:00	02-May-17 17:00:00		1.03	0.00	0.00	4.47	2.1	329.7		0.34	0.00	0.00	1.47		10.35	18.92	83.84	86.68	02-May-17 16:00:00		10.69	18.92	83.84	88.15
02-May-17 17:00:00	02-May-17 18:00:00		4.06	0.00	0.00	4.32	2.1	329.7		1.34	0.00	0.00	1.43		10.35	18.92	83.84	86.68	02-May-17 17:00:00		11.69	18.92	83.84	88.11
02-May-17 18:00:00	02-May-17 19:00:00		0.00	0.00	0.00	4.23	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	02-May-17 18:00:00		10.35	18.92	83.84	88.07
02-May-17 19:00:00	02-May-17 20:00:00		0.00	0.00	0.00	4.13	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	02-May-17 19:00:00		10.35	18.92	83.84	88.04
02-May-17 20:00:00	02-May-17 21:00:00		0.00	0.00	0.00	4.19	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	02-May-17 20:00:00		10.35	18.92	83.84	88.06
02-May-17 21:00:00	02-May-17 22:00:00		0.00	0.00	0.00	4.40	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	02-May-17 21:00:00		10.35	18.92	83.84	88.13
02-May-17 22:00:00	02-May-17 23:00:00		0.00	0.00	0.00	4.59	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	02-May-17 22:00:00		10.35	18.92	83.84	88.19
02-May-17 23:00:00	03-May-17 00:00:00		0.68	0.00	0.00	4.77	2.1	329.7		0.22	0.00	0.00	1.57		10.35	18.92	83.84	86.68	02-May-17 23:00:00		10.57	18.92	83.84	88.25
03-May-17 00:00:00	03-May-17 01:00:00		0.00	0.00	0.00	5.01	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	03-May-17 00:00:00		10.35	18.92	83.84	88.33
03-May-17 01:00:00	03-May-17 02:00:00		0.00	0.00	0.00	5.21	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	03-May-17 01:00:00		10.35	18.92	83.84	88.40
03-May-17 02:00:00	03-May-17 03:00:00		0.00	0.00	0.00	5.37	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	03-May-17 02:00:00		10.35	18.92	83.84	88.45
03-May-17 03:00:00	03-May-17 04:00:00		0.08	0.00	0.00	5.53	2.1	329.7		0.03	0.00	0.00	1.82		10.35	18.92	83.84	86.68	03-May-17 03:00:00		10.38	18.92	83.84	88.50
03-May-17 04:00:00	03-May-17 05:00:00		1.62	0.00	0.00	5.70	2.1	329.7		0.54	0.00	0.00	1.88		10.35	18.92	83.84	86.68	03-May-17 04:00:00		10.89	18.92	83.84	88.56
03-May-17 05:00:00	03-May-17 06:00:00		0.00	0.00	0.00	5.67	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	03-May-17 05:00:00		10.35	18.92	83.84	88.55
03-May-17 06:00:00	03-May-17 07:00:00		0.00	0.00	0.00	5.60	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	03-May-17 06:00:00		10.35	18.92	83.84	88.53
03-May-17 07:00:00	03-May-17 08:00:00		0.00	0.00	0.00	5.54	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	03-May-17 07:00:00		10.35	18.92	83.84	88.51
03-May-17 08:00:00	03-May-17 09:00:00		0.00	0.00	0.00	5.43	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	03-May-17 08:00:00		10.35	18.92	83.84	88.47
03-May-17 09:00:00	03-May-17 10:00:00		0.00	0.00	0.00	5.10	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	03-May-17 09:00:00		10.35	18.92	83.84	88.36
03-May-17 10:00:00	03-May-17 11:00:00		0.00	0.00	0.00	4.74	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	03-May-17 10:00:00		10.35	18.92	83.84	88.24
03-May-17 11:00:00	03-May-17 12:00:00		0.00	0.00	0.00	4.37	2.1	329.7		0.00	0.00	0.00	1.44		10.35	18.92	83.84	86.68	03-May-17 11:00:00		10.35	18.92	83.84	88.12
03-May-17 12:00:00	03-May-17 13:00:00		1.17	0.00	0.00	4.10	2.1	329.7		0.39	0.00	0.00	1.35		10.35	18.92	83.84	86.68	03-May-17 12:00:00		10.74	18.92	83.84	88.03
03-May-17 13:00:00	03-May-17 14:00:00		253.32	9.90	0.00	4.08	2.1	329.7		83.52	3.27	0.00	1.35		10.35	18.92	83.84	86.68	03-May-17 13:00:00		93.87	22.19	83.84	88.03
03-May-17 14:00:00	03-May-17 15:00:00		989.39	37.31	0.00	4.08	2.1	329.7		326.20	12.30	0.00	1.35		10.35	18.92	83.84	86.68	03-May-17 14:00:00		336.55	31.22	83.84	88.03
03-May-17 15:00:00	03-May-17 16:00:00		942.09	158.61	0.00	4.08	2.1	329.7		310.61	52.29	0.00	1.34		10.35	18.92	83.84	86.68	03-May-17 15:00:00		320.96	71.21	83.84	88.02
03-May-17 16:00:00	03-May-17 17:00:00		929.85	159.71	0.00	4.09	2.1	329.7		306.57	52.66	0.00	1.35		10.35	18.92	83.84	86.68	03-May-17 16:00:00		316.92	71.58	83.84	88.03
03-May-17 17:00:00	03-May-17 18:00:00		909.10	158.94	0.00	4.10	2.1	329.7		299.73	52.40	0.00	1.35		10.35	18.92	83.84	86.68	03-May-17 17:00:00		310.08	71.32	83.84	88.03
03-May-17 18:00:00	03-May-17 19:00:00		919.20	164.04	0.00	4.11	2.1	329.7		303.06	54.09	0.00	1.36		10.35	18.92	83.84	86.68	03-May-17 18:00:00		313.41	73.01	83.84	88.04
03-May-17 19:00:00	03-May-17 20:00:00		920.89	166.18	0.00	4.12	2.1	329.7		303.62	54.79	0.00	1.36		10.35	18.92	83.84	86.68	03-May-17 19:00:00		313.97	73.71	83.84	88.04
03-May-17 20:00:00	03-May-17 21:00:00		222.62	173.02	0.00	4.17	2.1	329.7		73.40	57.04	0.00	1.37		10.35	18.92	83.84	86.68	03-May-17 20:00:00		83.75	75.96	83.84	88.05
03-May-17 21:00:00	03-May-17 22:00:00		0.00	141.84	0.00	4.42	2.1	329.7		0.00	46.76	0.00	1.46		10.35	18.92	83.84	86.68	03-May-17 21:00:00		10.35	65.68	83.84	88.14
03-May-17 22:00:00	03-May-17 23:00:00		0.00	4.41	0.00	4.69	2.1	329.7		0.00	1.45	0.00	1.55		10.35	18.92	83.84	86.68	03-May-17 22:00:00		10.35	20.37	83.84	88.23
03-May-17 23:00:00	04-May-17 00:00:00		0.00	0.00	0.00	4.96	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	03-May-17 23:00:00		10.35	18.92	83.84	88.32
04-May-17 00:00:00	04-May-17 01:00:00		0.00	0.00	0.00	5.26	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	04-May-17 00:00:00		10.35	18.92	83.84	88.41
04-May-17 01:00:00	04-May-17 02:00:00		0.00	0.00	0.00	5.40	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	04-May-17 01:00:00		10.35	18.92	83.84	88.46
04-May-17 02:00:00	04-May-17 03:00:00		0.00	0.00	0.00	5.49	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	04-May-17 02:00:00		10.35	18.92	83.84	88.49
04-May-17 03:00:00	04-May-17 04:00:00		0.00	0.00	0.00	5.58	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	04-May-17 03:00:00		10.35	18.92	83.84	88.52
04-May-17 04:00:00	04-May-17 05:00:00		0.00	0.00	0.00	5.72	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	04-May-17 04:00:00		10.35	18.92	83.84	88.57
04-May-17 05:00:00	04-May-17 06:00:00		0.00

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
06-May-17 04:00:00	06-May-17 05:00:00		0.11	0.00	0.00	5.89	2.1	329.7		0.04	0.00	0.00	1.94		10.35	18.92	83.84	86.68	06-May-17 04:00:00		**10.39**	**18.92**	**83.84**	**88.62**
06-May-17 05:00:00	06-May-17 06:00:00		0.00	0.00	0.00	6.00	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	06-May-17 05:00:00		**10.35**	**18.92**	**83.84**	**88.66**
06-May-17 06:00:00	06-May-17 07:00:00		0.13	0.00	0.00	6.12	2.1	329.7		0.04	0.00	0.00	2.02		10.35	18.92	83.84	86.68	06-May-17 06:00:00		**10.39**	**18.92**	**83.84**	**88.70**
06-May-17 07:00:00	06-May-17 08:00:00		0.00	0.00	0.00	6.24	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	06-May-17 07:00:00		**10.35**	**18.92**	**83.84**	**88.74**
06-May-17 08:00:00	06-May-17 09:00:00		0.00	0.00	0.00	6.31	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	06-May-17 08:00:00		**10.35**	**18.92**	**83.84**	**88.76**
06-May-17 09:00:00	06-May-17 10:00:00		0.00	0.00	0.00	6.07	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	06-May-17 09:00:00		**10.35**	**18.92**	**83.84**	**88.68**
06-May-17 10:00:00	06-May-17 11:00:00		0.00	0.00	0.00	5.79	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	06-May-17 10:00:00		**10.35**	**18.92**	**83.84**	**88.59**
06-May-17 11:00:00	06-May-17 12:00:00		0.00	0.00	0.00	5.50	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	06-May-17 11:00:00		**10.35**	**18.92**	**83.84**	**88.49**
06-May-17 12:00:00	06-May-17 13:00:00		0.00	0.00	0.00	5.25	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	06-May-17 12:00:00		**10.35**	**18.92**	**83.84**	**88.41**
06-May-17 13:00:00	06-May-17 14:00:00		0.00	0.00	0.00	5.16	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	06-May-17 13:00:00		**10.35**	**18.92**	**83.84**	**88.38**
06-May-17 14:00:00	06-May-17 15:00:00		35.76	0.00	0.00	5.11	2.1	329.7		11.79	0.00	0.00	1.68		10.35	18.92	83.84	86.68	06-May-17 14:00:00		**22.14**	**18.92**	**83.84**	**88.36**
06-May-17 15:00:00	06-May-17 16:00:00		714.97	0.00	0.00	5.06	2.1	329.7		235.72	0.00	0.00	1.67		10.35	18.92	83.84	86.68	06-May-17 15:00:00		**246.07**	**18.92**	**83.84**	**88.35**
06-May-17 16:00:00	06-May-17 17:00:00		724.77	0.00	0.00	5.03	2.1	329.7		238.96	0.00	0.00	1.66		10.35	18.92	83.84	86.68	06-May-17 16:00:00		**249.31**	**18.92**	**83.84**	**88.34**
06-May-17 17:00:00	06-May-17 18:00:00		727.65	0.00	0.00	5.22	2.1	329.7		239.91	0.00	0.00	1.72		10.35	18.92	83.84	86.68	06-May-17 17:00:00		**250.26**	**18.92**	**83.84**	**88.40**
06-May-17 18:00:00	06-May-17 19:00:00		719.03	0.00	0.00	5.47	2.1	329.7		237.06	0.00	0.00	1.80		10.35	18.92	83.84	86.68	06-May-17 18:00:00		**247.41**	**18.92**	**83.84**	**88.48**
06-May-17 19:00:00	06-May-17 20:00:00		713.91	0.00	0.00	5.73	2.1	329.7		235.38	0.00	0.00	1.89		10.35	18.92	83.84	86.68	06-May-17 19:00:00		**245.73**	**18.92**	**83.84**	**88.57**
06-May-17 20:00:00	06-May-17 21:00:00		741.37	0.00	0.00	5.89	2.1	329.7		244.43	0.00	0.00	1.94		10.35	18.92	83.84	86.68	06-May-17 20:00:00		**254.78**	**18.92**	**83.84**	**88.62**
06-May-17 21:00:00	06-May-17 22:00:00		718.43	0.00	0.00	5.81	2.1	329.7		236.87	0.00	0.00	1.91		10.35	18.92	83.84	86.68	06-May-17 21:00:00		**247.22**	**18.92**	**83.84**	**88.59**
06-May-17 22:00:00	06-May-17 23:00:00		709.34	0.00	0.00	5.73	2.1	329.7		233.87	0.00	0.00	1.89		10.35	18.92	83.84	86.68	06-May-17 22:00:00		**244.22**	**18.92**	**83.84**	**88.57**
06-May-17 23:00:00	07-May-17 00:00:00		718.92	0.00	0.00	5.66	2.1	329.7		237.03	0.00	0.00	1.87		10.35	18.92	83.84	86.68	06-May-17 23:00:00		**247.38**	**18.92**	**83.84**	**88.55**
07-May-17 00:00:00	07-May-17 01:00:00		583.56	0.00	0.00	5.56	2.1	329.7		192.40	0.00	0.00	1.83		10.35	18.92	83.84	86.68	07-May-17 00:00:00		**202.75**	**18.92**	**83.84**	**88.51**
07-May-17 01:00:00	07-May-17 02:00:00		241.32	0.00	0.00	5.64	2.1	329.7		79.56	0.00	0.00	1.86		10.35	18.92	83.84	86.68	07-May-17 01:00:00		**89.91**	**18.92**	**83.84**	**88.54**
07-May-17 02:00:00	07-May-17 03:00:00		245.57	0.00	0.00	5.85	2.1	329.7		80.97	0.00	0.00	1.93		10.35	18.92	83.84	86.68	07-May-17 02:00:00		**91.32**	**18.92**	**83.84**	**88.61**
07-May-17 03:00:00	07-May-17 04:00:00		495.12	0.00	0.00	6.05	2.1	329.7		163.24	0.00	0.00	1.99		10.35	18.92	83.84	86.68	07-May-17 03:00:00		**173.59**	**18.92**	**83.84**	**88.67**
07-May-17 04:00:00	07-May-17 05:00:00		564.84	0.00	0.00	6.27	2.1	329.7		186.23	0.00	0.00	2.07		10.35	18.92	83.84	86.68	07-May-17 04:00:00		**196.58**	**18.92**	**83.84**	**88.75**
07-May-17 05:00:00	07-May-17 06:00:00		592.54	0.00	0.00	6.26	2.1	329.7		195.36	0.00	0.00	2.06		10.35	18.92	83.84	86.68	07-May-17 05:00:00		**205.71**	**18.92**	**83.84**	**88.74**
07-May-17 06:00:00	07-May-17 07:00:00		1,110.67	0.00	0.00	6.13	2.1	329.7		366.19	0.00	0.00	2.02		10.35	18.92	83.84	86.68	07-May-17 06:00:00		**376.54**	**18.92**	**83.84**	**88.70**
07-May-17 07:00:00	07-May-17 08:00:00		1,342.52	0.00	0.00	6.01	2.1	329.7		442.63	0.00	0.00	1.98		10.35	18.92	83.84	86.68	07-May-17 07:00:00		**452.98**	**18.92**	**83.84**	**88.66**
07-May-17 08:00:00	07-May-17 09:00:00		1,346.93	0.00	0.00	5.88	2.1	329.7		444.08	0.00	0.00	1.94		10.35	18.92	83.84	86.68	07-May-17 08:00:00		**454.43**	**18.92**	**83.84**	**88.62**
07-May-17 09:00:00	07-May-17 10:00:00		1,329.61	0.00	0.00	5.68	2.1	329.7		438.37	0.00	0.00	1.87		10.35	18.92	83.84	86.68	07-May-17 09:00:00		**448.72**	**18.92**	**83.84**	**88.55**
07-May-17 10:00:00	07-May-17 11:00:00		1,123.02	0.00	0.00	5.44	2.1	329.7		370.26	0.00	0.00	1.79		10.35	18.92	83.84	86.68	07-May-17 10:00:00		**380.61**	**18.92**	**83.84**	**88.47**
07-May-17 11:00:00	07-May-17 12:00:00		360.10	0.00	0.00	5.21	2.1	329.7		118.73	0.00	0.00	1.72		10.35	18.92	83.84	86.68	07-May-17 11:00:00		**129.08**	**18.92**	**83.84**	**88.40**
07-May-17 12:00:00	07-May-17 13:00:00		332.20	0.00	0.00	5.05	2.1	329.7		109.53	0.00	0.00	1.67		10.35	18.92	83.84	86.68	07-May-17 12:00:00		**119.88**	**18.92**	**83.84**	**88.35**
07-May-17 13:00:00	07-May-17 14:00:00		343.18	0.00	0.00	4.96	2.1	329.7		113.15	0.00	0.00	1.63		10.35	18.92	83.84	86.68	07-May-17 13:00:00		**123.50**	**18.92**	**83.84**	**88.31**
07-May-17 14:00:00	07-May-17 15:00:00		0.00	0.00	0.00	4.78	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	07-May-17 14:00:00		**10.35**	**18.92**	**83.84**	**88.26**
07-May-17 15:00:00	07-May-17 16:00:00		0.00	0.00	0.00	4.60	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	07-May-17 15:00:00		**10.35**	**18.92**	**83.84**	**88.20**
07-May-17 16:00:00	07-May-17 17:00:00		0.00	0.00	0.00	4.50	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	07-May-17 16:00:00		**10.35**	**18.92**	**83.84**	**88.16**
07-May-17 17:00:00	07-May-17 18:00:00		0.00	0.00	0.00	4.49	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	07-May-17 17:00:00		**10.35**	**18.92**	**83.84**	**88.16**
07-May-17 18:00:00	07-May-17 19:00:00		0.00	0.00	0.00	4.42	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	07-May-17 18:00:00		**10.35**	**18.92**	**83.84**	**88.14**
07-May-17 19:00:00	07-May-17 20:00:00		0.00	0.00	0.00	4.35	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	07-May-17 19:00:00		**10.35**	**18.92**	**83.84**	**88.11**
07-May-17 20:00:00	07-May-17 21:00:00		0.00	0.00	0.00	4.33	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	07-May-17 20:00:00		**10.35**	**18.92**	**83.84**	**88.11**
07-May-17 21:00:00	07-May-17 22:00:00		0.00	0.00	0.00	4.54	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	07-May-17 21:00:00		**10.35**	**18.92**	**83.84**	**88.18**
07-May-17 22:00:00	07-May-17 23:00:00		0.00	0.00	0.00	4.77	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	07-May-17 22:00:00		**10.35**	**18.92**	**83.84**	**88.25**
07-May-17 23:00:00	08-May-17 00:00:00		0.00	0.00	0.00	5.01	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	07-May-17 23:00:00		**10.35**	**18.92**	**83.84**	**88.33**
08-May-17 00:00:00	08-May-17 01:00:00		0.00	0.00	0.00	5.23	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	08-May-17 00:00:00		**10.35**	**18.92**	**83.84**	**88.40**
08-May-17 01:00:00	08-May-17 02:00:00		0.53	0.00	0.00	5.36	2.1	329.7		0.18	0.00	0.00	1.77		10.35	18.92	83.84	86.68	08-May-17 01:00:00		**10.53**	**18.92**	**83.84**	**88.45**
08-May-17 02:00:00	08-May-17 03:00:00		0.00	0.00	0.00	5.46	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	08-May-17 02:00:00		**10.35**	**18.92**	**83.84**	**88.48**
08-May-17 03:00:00	08-May-17 04:00:00		0.56	0.00	0.00	5.57	2.1	329.7		0.18	0.00	0.00	1.84		10.35	18.92	83.84	86.68	08-May-17 03:00:00		**10.53**	**18.92**	**83.84**	**88.52**
08-May-17 04:00:00	08-May-17 05:00:00		1.50	0.00	0.00	5.67	2.1	329.7		0.50	0.00	0.00	1.87		10.35	18.92	83.84	86.68	08-May-17 04:00:00		**10.85**	**18.92**	**83.84**	**88.55**
08-May-17 05:00:00	08-May-17 06:00:00		2.69	0.00	0.00	5.64	2.1	329.7		0.89	0.00	0.00	1.86		10.35	18.92	83.84	86.68	08-May-17 05:00:00		**11.24**	**18.92**	**83.84**	**88.54**
08-May-17 06:00:00	08-May-17 07:00:00		3.77	0.00	0.00	5.56	2.1	329.7		1.24	0.00	0.00	1.83		10.35	18.92	83.84	86.68	08-May-17 06:00:00		**11.59**	**18.92**	**83.84**	**88.51**
08-May-17 07:00:00	08-May-17 08:00:00		0.55	0.00	0.00	5.47	2.1	329.7		0.18	0.00	0.00	1.80		10.35	18.92	83.84	86.68	08-May-17 07:00:00		**10.53**	**18.92**	**83.84**	**88.48**
08-May-17 08:00:00	08-May-17 09:00:00		0.37	0.00	0.00	5.37	2.1	329.7		0.12	0.00	0.00	1.77		10.35	18.92	83.84	86.68	08-May-17 08:00:00		**10.47**	**18.92**	**83.84**	**88.45**
08-May-17 09:00:00	08-May-17 10:00:00		0.19	0.00	0.00	5.12	2.1	329.7		0.06	0.00	0.00	1.69		10.35	18.92	83.84	86.68	08-May-17 09:00:00		**10.41**	**18.92**	**83.84**	**88.37**
08-May-17 10:00:00	08-May-17 11:00:00		0.03	0.00	0.00	4.84	2.1	329.7		0.01	0.00	0.00	1.59		10.35	18.92	83.84	86.68	08-May-17 10:00:00		**10.36**	**18.92**	**83.84**	**88.27**
08-May-17 11:00:00	08-May-17 12:00:00		0.00	0.00	0.00	4.55	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	08-May-17 11:00:00		**10.35**	**18.92**	**83.84**	**88.18**
08-May-17 12:00:00	08-May-17 13:00:00		0.00	0.00	0.00	4.29	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	08-May-17 12:00:00		**10.35**	**18.92**	**83.84**	**88.09**
08-May-17 13:00:00	08-May-17 14:00:00		0.00	0.00	0.00	4.19	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	08-May-17 13:00:00		**10.35**	**18.92**	**83.84**	**88.06**
08-May-17 14:00:00	08-May-17 15:00:00		0.00	0.00	0.00	4.13	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	08-May-17 14:00:00		**10.35**	**18.92**	**83.84**	**88.04**
08-May-17 15:00:00	08-May-17 16:00:00		0.00	0.00	0.00	4.07	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	08-May-17 15:00:00		**10.35**	**18.92**	**83.84**	**88.02**
08-May-17 16:00:00	08-May-17 17:00:00		0.00	0.00	0.00	3.97	2.1	329.7		0.00	0.00	0.00	1.31		10.35	18.92	83.84	86.68	08-May-17 16:00:00		**10.35**	**18.92**	**83.84**	**87.99**
08-May-17 17:00:00	08-May-17 18:00:00		0.00	0.00	0.00	3.91	2.1	329.7		0.00	0.00	0.00	1.29		10.35	18.92	83.84	86.68	08-May-17 17:00:00		**10.35**	**18.92**	**83.84**	**87.97**
08-May-17 18:00:00	08-May-17 19:00:00		0.00	0.00	0.00	3.97	2.1	329.7		0.00	0.00	0.00	1.31		10.35	18.92	83.84	86.68	08-May-17 18:00:00		**10.35**	**18.92**	**83.84**	**87.99**
08-May-17 19:00:00	08-May-17 20:00:00		0.00	0.00	0.00	4.02	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	08-May-17 19:00:00		**10.35**	**18.92**	**83.84**	**88.01**
08-May-17 20:00:00	08-May-17 21:00:00		0.00	0.00	0.00	4.08	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	08-May-17 20:00:00		**10.35**	**18.92**	**83.84**	**88.03**
08-May-17 21:00:00	08-May-17 22:00:00		0.00	0.00	0.00	4.22	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	08-May-17 21:00:00		**10.35**	**18.92**	**83.84**	**88.07**
08-May-17 22:00:00	08-May-17 23:00:00		0.09	0.00	0.00	4.39	2.1	329.7		0.03	0.00	0.00	1.45		10.35	18.92	83.84	86.68	08-May-17 22:00:00		**10.38**	**18.92**	**83.84**	**88.13**
08-May-17 23:00:00	09-May-17 00:00:00		0.00	0.00	0.00	4.55	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	08-May-17 23:00:00		**10.35**	**18.92**	**83.84**	**88.18**
09-May-17 00:00:00	09-May-17 01:00:00		0.00	0.00	0.00	4.77	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	09-May-17 00:00:00		**10.35**	**18.92**	**83.84**	**88.25**
09-May-17 01:00:00	09-May-17 02:00:00		1.27	0.00	0.00	4.92	2.1	329.7		0.42	0.00	0.00	1.62		10.35	18.92	83.84	86.68	09-May-17 01:00:00		**10.77**	**18.92**	**83.84**	**88.30**
09-May-17 02:00:00	09-May-17 03:00:00		0.00	0.00	0.00	4.89	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	09-May-17 02:00:00		**10.35**	**18.92**	**83.84**	**88.29**
09-May-17 03:00:00	09-May-17 04:00:00		0.00	0.00	0.00	4.87	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	09-May-17 03:00:00		**10.35**	**18.92**	**83.84**	**88.29**
09-May-17 04:00:00	09-May-17 05:00:00		0.00	0.00	0.00	4.85	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	09-May-17 04:00:00		**10.35**	**18.92**	**83.84**	**88.28**
09-May-17 05:00:00	09-May-17 06:00:00		0.00	0.00	0.00	4.91	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	09-May-17 05:00:00		**10.35**	**18.92**	**83.84**	**88.30**
09-May-17 06:00:00	09-May-17 07:00:00		0.00	0.00	0.00	5.02	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	09-May-17 06:00:00		**10.35**	**18.92**	**83.84**	**88.34**
09-May-17 07:00:00	09-May-17 08:00:00		0.00	0.00	0.00	5.14	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	09-May-17 07:00:00		**10.35**	**18.92**	**83.84**	**88.37**
09-May-17 08:00:00	09-May-17 09:00:00		0.00	0.00	0.00	5.21	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	09-May-17 08:00:00		**10.35**	**18.92**	**83.84**	**88.40**
09-May-17 09:00:00	09-May-17 10:00:00		0.00	0.00	0.00	4.99	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	09-May-17 09:00:00		**10.35**	**18.92**	**83.84**	**88.32**
09-May-17 10:00:00	09-May-17 11:00:00		0.00	0.00	0.00	4.70	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	09-May-17 10:00:00		**10.35**	**18.92**	**83.84**	**88.23**
09-May-17 11:00:00	09-May-17 12:00:00		0.00	0.00	0.00	4.42	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	09-May-17 11:00:00		**10.35**	**18.92**	**83.84**	**88.14**
09-May-17 12:00:00	09-May-17 13:00:00		0.00	0.00	0.00	4.14	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	09-May-17 12:00:00		**10.35**	**18.92**	**83.84**	**88.04**
09-May-17 13:00:00	09-May-17 14:00:00		0.00	0.00	0.00	3.91	2.1	329.7		0.00	0.00	0.00	1.29		10.35	18.92	83.84	86.68	09-May-17 13:00:00		**10.35**	**18.92**	**83.84**	**87.97**
09-May-17 14:00:00	09-May-17 15:00:00		0.00	0.00	0.00	3.70	2.1	329.7		0.00	0.00	0.00	1.22		10.35	18.92	83.84	86.68	09-May-17 14:00:00		**10.35**	**18.92**	**83.84**	**87.90**
09-May-17 15:00:00	09-May-17 16:00:00		0.00	0.00	0.00	3.49	2.1	329.7		0.00	0.00	0.00	1.15		10.35	18.92	83.84	86.68	09-May-17 15:00:00		**10.35**	**18.92**	**83.84**	**87.83**
09-May-17 16:00:00	09-May-17 17:00:00		0.07	0.00	0.00	3.29	2.1	329.7		0.02	0.00	0.00	1.08		10.35	18.92	83.84	86.68	09-May-17 16:00:00		**10.37**	**18.92**	**83.84**	**87.76**
09-May-17 17:00:00	09-May-17 18:00:00		0.00	0.00	0.00	3.24	2.1	329.7		0.00	0.00	0.00	1.07		10.35	18.92	83.84	86.68	09-May-17 17:00:00		**10.35**	**18.92**	**83.84**	**87.75**
09-May-17 18:00:00	09-May-17 19:00:00		0.00	0.00	0.00	3.30	2.1	329.7		0.00	0.00	0.00	1.09		10.35	18.92	83.84	86.68	09-May-17 18:00:00		**10.35**	**18.92**	**83.84**	**87.77**
09-May-17 19:00:00	09-May-17 20:00:00		0.10	0.00	0.00	3.35	2.1	329.7		0.03	0.00	0.00	1.11		10.35	18.92	83.84	86.68	09-May-17 19:00:00		**10.38**	**18.92**	**83.84**	**87.79**
09-May-17 20:00:00	09-May-17 21:00:00		0.00	0.00	0.00	3.44	2.1	329.7		0.00	0.00	0.00	1.13		10.35	18.92	83.84	86.68	09-May-17 20:00:00		**10.35**	**18.92**	**83.84**	**87.81**
09-May-17 21:00:00	09-May-17 22:00:00		0.00	0.00	0.00	3.67	2.1	329.7		0.00	0.00	0.00	1.21		10.35	18.92	83.84	86.68	09-May-17 21:00:00		**10.35**	**18.92**	**83.84**	**87.89**
09-May-17 22:00:00	09-May-17 23:00:00		0.00	0.00	0.00	3.89	2.1	329.7		0.00	0.00	0.00	1.28		10.35	18.92	83.84	86.68	09-May-17 22:00:00		**10.35**	**18.92**	**83.84**	**87.96**
09-May-17 23:00:00	10-May-17 00:00:00		0.00	0.00	0.00	4.11	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	09-May-17 23:00:00		**10.35**	**18.92**	**83.84**	**88.04**
10-May-17 00:00:00	10-May-17 01:00:00		0.00	0.00	0.00	4.39	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	10-May-17 00:00:00		**10.35**	**18.92**	**83.84**	**88.13**
10-May-17 01:00:00	10-May-17 02:00:00		0.00	0.00	0.00	4.65	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	10-May-17 01:00:00		**10.35**	**18.92**	**83.84**	**88.21**
10-May-17 02:00:00	10-May-17 03:00:00		0.00	0.00	0.00	4.75	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	10-May-17 02:00:00		**10.35**	**18.92**	**83.84**	**88.25**
10-May-17 03:00:00	10-May-17 04:00:00		0.00	0.00	0.00	4.85	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	10-May-17 03:00:00		**10.35**	**18.92**	**83.84**	**88.28**
10-May-17 04:00:00	10-May-17 05:00:00		0.00	0.00	0.00	4.98	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	10-May-17 04:00:00		**10.35**	**

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
12-May-17 03:00:00	12-May-17 04:00:00		0.00	0.00	0.00	4.53	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	12-May-17 03:00:00		**10.35**	**18.92**	**83.84**	**88.17**
12-May-17 04:00:00	12-May-17 05:00:00		0.18	0.00	0.00	4.65	2.1	329.7		0.06	0.00	0.00	1.53		10.35	18.92	83.84	86.68	12-May-17 04:00:00		**10.41**	**18.92**	**83.84**	**88.21**
12-May-17 05:00:00	12-May-17 06:00:00		0.00	0.00	0.00	4.80	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	12-May-17 05:00:00		**10.35**	**18.92**	**83.84**	**88.26**
12-May-17 06:00:00	12-May-17 07:00:00		0.00	0.00	0.00	4.99	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	12-May-17 06:00:00		**10.35**	**18.92**	**83.84**	**88.33**
12-May-17 07:00:00	12-May-17 08:00:00		0.00	0.00	0.00	5.19	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	12-May-17 07:00:00		**10.35**	**18.92**	**83.84**	**88.39**
12-May-17 08:00:00	12-May-17 09:00:00		292.46	0.00	0.00	5.35	2.1	329.7		96.42	0.00	0.00	1.76		10.35	18.92	83.84	86.68	12-May-17 08:00:00		**106.77**	**18.92**	**83.84**	**88.44**
12-May-17 09:00:00	12-May-17 10:00:00		735.58	0.00	0.00	5.27	2.1	329.7		242.52	0.00	0.00	1.74		10.35	18.92	83.84	86.68	12-May-17 09:00:00		**252.87**	**18.92**	**83.84**	**88.42**
12-May-17 10:00:00	12-May-17 11:00:00		815.97	0.00	0.00	5.33	2.1	329.7		269.03	0.00	0.00	1.76		10.35	18.92	83.84	86.68	12-May-17 10:00:00		**279.38**	**18.92**	**83.84**	**88.44**
12-May-17 11:00:00	12-May-17 12:00:00		781.96	0.00	0.00	5.39	2.1	329.7		257.81	0.00	0.00	1.78		10.35	18.92	83.84	86.68	12-May-17 11:00:00		**268.16**	**18.92**	**83.84**	**88.46**
12-May-17 12:00:00	12-May-17 13:00:00		830.76	0.00	0.00	5.43	2.1	329.7		273.90	0.00	0.00	1.79		10.35	18.92	83.84	86.68	12-May-17 12:00:00		**284.25**	**18.92**	**83.84**	**88.47**
12-May-17 13:00:00	12-May-17 14:00:00		844.09	0.00	0.00	5.35	2.1	329.7		278.30	0.00	0.00	1.76		10.35	18.92	83.84	86.68	12-May-17 13:00:00		**288.65**	**18.92**	**83.84**	**88.44**
12-May-17 14:00:00	12-May-17 15:00:00		852.69	0.00	0.00	5.39	2.1	329.7		281.13	0.00	0.00	1.78		10.35	18.92	83.84	86.68	12-May-17 14:00:00		**291.48**	**18.92**	**83.84**	**88.46**
12-May-17 15:00:00	12-May-17 16:00:00		861.84	256.93	0.00	5.44	2.1	329.7		284.15	84.71	0.00	1.79		10.35	18.92	83.84	86.68	12-May-17 15:00:00		**294.50**	**103.63**	**83.84**	**88.47**
12-May-17 16:00:00	12-May-17 17:00:00		867.78	326.84	0.00	5.46	2.1	329.7		286.11	107.76	0.00	1.80		10.35	18.92	83.84	86.68	12-May-17 16:00:00		**296.46**	**126.68**	**83.84**	**88.48**
12-May-17 17:00:00	12-May-17 18:00:00		848.52	323.08	0.00	5.37	2.1	329.7		279.76	106.52	0.00	1.77		10.35	18.92	83.84	86.68	12-May-17 17:00:00		**290.11**	**125.44**	**83.84**	**88.45**
12-May-17 18:00:00	12-May-17 19:00:00		843.49	239.98	0.00	5.42	2.1	329.7		278.10	79.12	0.00	1.79		10.35	18.92	83.84	86.68	12-May-17 18:00:00		**288.45**	**98.04**	**83.84**	**88.47**
12-May-17 19:00:00	12-May-17 20:00:00		840.79	373.54	0.00	5.47	2.1	329.7		277.21	123.16	0.00	1.80		10.35	18.92	83.84	86.68	12-May-17 19:00:00		**287.56**	**142.08**	**83.84**	**88.48**
12-May-17 20:00:00	12-May-17 21:00:00		842.32	0.46	0.00	5.53	2.1	329.7		277.71	0.15	0.00	1.82		10.35	18.92	83.84	86.68	12-May-17 20:00:00		**288.06**	**19.07**	**83.84**	**88.50**
12-May-17 21:00:00	12-May-17 22:00:00		858.82	0.00	0.00	5.61	2.1	329.7		283.15	0.00	0.00	1.85		10.35	18.92	83.84	86.68	12-May-17 21:00:00		**293.50**	**18.92**	**83.84**	**88.53**
12-May-17 22:00:00	12-May-17 23:00:00		847.23	0.00	0.00	5.70	2.1	329.7		279.33	0.00	0.00	1.88		10.35	18.92	83.84	86.68	12-May-17 22:00:00		**289.68**	**18.92**	**83.84**	**88.56**
12-May-17 23:00:00	13-May-17 00:00:00		828.71	0.00	0.00	5.79	2.1	329.7		273.22	0.00	0.00	1.91		10.35	18.92	83.84	86.68	12-May-17 23:00:00		**283.57**	**18.92**	**83.84**	**88.59**
13-May-17 00:00:00	13-May-17 01:00:00		821.08	0.00	0.00	5.86	2.1	329.7		270.71	0.00	0.00	1.93		10.35	18.92	83.84	86.68	13-May-17 00:00:00		**281.06**	**18.92**	**83.84**	**88.61**
13-May-17 01:00:00	13-May-17 02:00:00		813.08	0.00	0.00	5.70	2.1	329.7		268.07	0.00	0.00	1.88		10.35	18.92	83.84	86.68	13-May-17 01:00:00		**278.42**	**18.92**	**83.84**	**88.56**
13-May-17 02:00:00	13-May-17 03:00:00		818.25	0.00	0.00	5.56	2.1	329.7		269.78	0.00	0.00	1.83		10.35	18.92	83.84	86.68	13-May-17 02:00:00		**280.13**	**18.92**	**83.84**	**88.51**
13-May-17 03:00:00	13-May-17 04:00:00		821.11	0.00	0.00	5.43	2.1	329.7		270.72	0.00	0.00	1.79		10.35	18.92	83.84	86.68	13-May-17 03:00:00		**281.07**	**18.92**	**83.84**	**88.47**
13-May-17 04:00:00	13-May-17 05:00:00		820.84	0.00	0.00	5.30	2.1	329.7		270.63	0.00	0.00	1.75		10.35	18.92	83.84	86.68	13-May-17 04:00:00		**280.98**	**18.92**	**83.84**	**88.43**
13-May-17 05:00:00	13-May-17 06:00:00		832.56	0.00	0.00	5.22	2.1	329.7		274.50	0.00	0.00	1.72		10.35	18.92	83.84	86.68	13-May-17 05:00:00		**284.85**	**18.92**	**83.84**	**88.40**
13-May-17 06:00:00	13-May-17 07:00:00		1,087.62	0.00	0.00	5.24	2.1	329.7		358.59	0.00	0.00	1.73		10.35	18.92	83.84	86.68	13-May-17 06:00:00		**368.94**	**18.92**	**83.84**	**88.41**
13-May-17 07:00:00	13-May-17 08:00:00		844.09	312.24	0.00	5.26	2.1	329.7		278.30	102.94	0.00	1.73		10.35	18.92	83.84	86.68	13-May-17 07:00:00		**288.65**	**121.86**	**83.84**	**88.41**
13-May-17 08:00:00	13-May-17 09:00:00		752.98	412.04	0.00	5.28	2.1	329.7		248.26	135.85	0.00	1.74		10.35	18.92	83.84	86.68	13-May-17 08:00:00		**258.61**	**154.77**	**83.84**	**88.42**
13-May-17 09:00:00	13-May-17 10:00:00		739.88	411.87	0.00	5.30	2.1	329.7		243.94	135.79	0.00	1.75		10.35	18.92	83.84	86.68	13-May-17 09:00:00		**254.29**	**154.71**	**83.84**	**88.43**
13-May-17 10:00:00	13-May-17 11:00:00		722.39	412.47	0.00	5.18	2.1	329.7		238.17	135.99	0.00	1.71		10.35	18.92	83.84	86.68	13-May-17 10:00:00		**248.52**	**154.91**	**83.84**	**88.39**
13-May-17 11:00:00	13-May-17 12:00:00		695.82	410.66	0.00	5.05	2.1	329.7		229.41	135.40	0.00	1.67		10.35	18.92	83.84	86.68	13-May-17 11:00:00		**239.76**	**154.32**	**83.84**	**88.35**
13-May-17 12:00:00	13-May-17 13:00:00		686.87	412.54	0.00	4.94	2.1	329.7		226.46	136.02	0.00	1.63		10.35	18.92	83.84	86.68	13-May-17 12:00:00		**236.81**	**154.94**	**83.84**	**88.31**
13-May-17 13:00:00	13-May-17 14:00:00		673.50	348.68	0.00	4.97	2.1	329.7		222.05	114.96	0.00	1.64		10.35	18.92	83.84	86.68	13-May-17 13:00:00		**232.40**	**133.88**	**83.84**	**88.32**
13-May-17 14:00:00	13-May-17 15:00:00		679.50	256.99	0.00	4.86	2.1	329.7		224.03	84.73	0.00	1.60		10.35	18.92	83.84	86.68	13-May-17 14:00:00		**234.38**	**103.65**	**83.84**	**88.28**
13-May-17 15:00:00	13-May-17 16:00:00		683.04	251.37	0.00	4.76	2.1	329.7		225.20	82.88	0.00	1.57		10.35	18.92	83.84	86.68	13-May-17 15:00:00		**235.55**	**101.80**	**83.84**	**88.25**
13-May-17 16:00:00	13-May-17 17:00:00		721.11	249.87	0.00	4.65	2.1	329.7		237.75	82.38	0.00	1.53		10.35	18.92	83.84	86.68	13-May-17 16:00:00		**248.10**	**101.30**	**83.84**	**88.21**
13-May-17 17:00:00	13-May-17 18:00:00		715.18	251.57	0.00	4.50	2.1	329.7		235.79	82.94	0.00	1.48		10.35	18.92	83.84	86.68	13-May-17 17:00:00		**246.14**	**101.86**	**83.84**	**88.16**
13-May-17 18:00:00	13-May-17 19:00:00		722.75	253.43	0.00	4.42	2.1	329.7		238.29	83.56	0.00	1.46		10.35	18.92	83.84	86.68	13-May-17 18:00:00		**248.64**	**102.48**	**83.84**	**88.14**
13-May-17 19:00:00	13-May-17 20:00:00		713.38	253.45	0.00	4.35	2.1	329.7		235.20	83.56	0.00	1.43		10.35	18.92	83.84	86.68	13-May-17 19:00:00		**245.55**	**102.48**	**83.84**	**88.11**
13-May-17 20:00:00	13-May-17 21:00:00		698.69	252.53	0.00	4.26	2.1	329.7		230.36	83.26	0.00	1.41		10.35	18.92	83.84	86.68	13-May-17 20:00:00		**240.71**	**102.18**	**83.84**	**88.09**
13-May-17 21:00:00	13-May-17 22:00:00		700.07	251.63	0.00	4.22	2.1	329.7		230.81	82.96	0.00	1.39		10.35	18.92	83.84	86.68	13-May-17 21:00:00		**241.16**	**101.88**	**83.84**	**88.07**
13-May-17 22:00:00	13-May-17 23:00:00		698.54	254.31	0.00	4.34	2.1	329.7		230.31	83.84	0.00	1.43		10.35	18.92	83.84	86.68	13-May-17 22:00:00		**240.66**	**102.76**	**83.84**	**88.11**
13-May-17 23:00:00	14-May-17 00:00:00		708.64	254.50	0.00	4.47	2.1	329.7		233.64	83.91	0.00	1.47		10.35	18.92	83.84	86.68	13-May-17 23:00:00		**243.99**	**102.83**	**83.84**	**88.15**
14-May-17 00:00:00	14-May-17 01:00:00		707.67	254.69	0.00	4.60	2.1	329.7		233.32	83.97	0.00	1.52		10.35	18.92	83.84	86.68	14-May-17 00:00:00		**243.67**	**102.89**	**83.84**	**88.20**
14-May-17 01:00:00	14-May-17 02:00:00		709.46	253.19	0.00	4.73	2.1	329.7		233.91	83.48	0.00	1.56		10.35	18.92	83.84	86.68	14-May-17 01:00:00		**244.26**	**102.40**	**83.84**	**88.24**
14-May-17 02:00:00	14-May-17 03:00:00		714.72	252.62	0.00	4.84	2.1	329.7		235.64	83.29	0.00	1.59		10.35	18.92	83.84	86.68	14-May-17 02:00:00		**245.99**	**102.21**	**83.84**	**88.27**
14-May-17 03:00:00	14-May-17 04:00:00		720.12	253.59	0.00	4.95	2.1	329.7		237.42	83.61	0.00	1.63		10.35	18.92	83.84	86.68	14-May-17 03:00:00		**247.77**	**102.53**	**83.84**	**88.31**
14-May-17 04:00:00	14-May-17 05:00:00		730.62	253.39	0.00	5.04	2.1	329.7		240.88	83.54	0.00	1.66		10.35	18.92	83.84	86.68	14-May-17 04:00:00		**251.23**	**102.46**	**83.84**	**88.34**
14-May-17 05:00:00	14-May-17 06:00:00		732.06	255.34	0.00	4.86	2.1	329.7		241.36	84.18	0.00	1.60		10.35	18.92	83.84	86.68	14-May-17 05:00:00		**251.71**	**103.10**	**83.84**	**88.28**
14-May-17 06:00:00	14-May-17 07:00:00		816.63	287.15	0.00	4.87	2.1	329.7		269.24	94.67	0.00	1.60		10.35	18.92	83.84	86.68	14-May-17 06:00:00		**279.59**	**113.59**	**83.84**	**88.28**
14-May-17 07:00:00	14-May-17 08:00:00		1,050.91	430.53	0.00	4.87	2.1	329.7		346.49	141.95	0.00	1.61		10.35	18.92	83.84	86.68	14-May-17 07:00:00		**356.84**	**160.87**	**83.84**	**88.29**
14-May-17 08:00:00	14-May-17 09:00:00		1,041.58	440.34	0.00	4.87	2.1	329.7		343.41	145.18	0.00	1.61		10.35	18.92	83.84	86.68	14-May-17 08:00:00		**353.76**	**164.10**	**83.84**	**88.29**
14-May-17 09:00:00	14-May-17 10:00:00		1,080.16	441.05	0.00	4.78	2.1	329.7		356.13	145.41	0.00	1.58		10.35	18.92	83.84	86.68	14-May-17 09:00:00		**366.48**	**164.33**	**83.84**	**88.26**
14-May-17 10:00:00	14-May-17 11:00:00		1,098.98	441.59	0.00	4.61	2.1	329.7		362.34	145.59	0.00	1.52		10.35	18.92	83.84	86.68	14-May-17 10:00:00		**372.69**	**164.51**	**83.84**	**88.20**
14-May-17 11:00:00	14-May-17 12:00:00		1,090.16	441.68	0.00	4.44	2.1	329.7		359.43	145.62	0.00	1.46		10.35	18.92	83.84	86.68	14-May-17 11:00:00		**369.78**	**164.54**	**83.84**	**88.14**
14-May-17 12:00:00	14-May-17 13:00:00		1,069.89	440.39	0.00	4.27	2.1	329.7		352.74	145.20	0.00	1.41		10.35	18.92	83.84	86.68	14-May-17 12:00:00		**363.09**	**164.12**	**83.84**	**88.09**
14-May-17 13:00:00	14-May-17 14:00:00		1,086.67	440.64	0.00	4.22	2.1	329.7		358.27	145.28	0.00	1.39		10.35	18.92	83.84	86.68	14-May-17 13:00:00		**368.62**	**164.20**	**83.84**	**88.07**
14-May-17 14:00:00	14-May-17 15:00:00		937.18	370.77	0.00	4.11	2.1	329.7		308.99	122.24	0.00	1.35		10.35	18.92	83.84	86.68	14-May-17 14:00:00		**319.34**	**141.16**	**83.84**	**88.03**
14-May-17 15:00:00	14-May-17 16:00:00		711.11	254.98	0.00	3.99	2.1	329.7		234.45	84.07	0.00	1.32		10.35	18.92	83.84	86.68	14-May-17 15:00:00		**244.80**	**102.99**	**83.84**	**88.00**
14-May-17 16:00:00	14-May-17 17:00:00		718.16	256.92	0.00	3.88	2.1	329.7		236.78	84.71	0.00	1.28		10.35	18.92	83.84	86.68	14-May-17 16:00:00		**247.13**	**103.63**	**83.84**	**87.96**
14-May-17 17:00:00	14-May-17 18:00:00		723.10	256.47	0.00	3.92	2.1	329.7		238.40	84.56	0.00	1.29		10.35	18.92	83.84	86.68	14-May-17 17:00:00		**248.75**	**103.48**	**83.84**	**87.97**
14-May-17 18:00:00	14-May-17 19:00:00		740.24	254.97	0.00	3.87	2.1	329.7		244.06	84.06	0.00	1.28		10.35	18.92	83.84	86.68	14-May-17 18:00:00		**254.41**	**102.98**	**83.84**	**87.96**
14-May-17 19:00:00	14-May-17 20:00:00		753.22	254.73	0.00	3.82	2.1	329.7		248.34	83.98	0.00	1.26		10.35	18.92	83.84	86.68	14-May-17 19:00:00		**258.69**	**102.90**	**83.84**	**87.94**
14-May-17 20:00:00	14-May-17 21:00:00		493.32	254.40	0.00	3.78	2.1	329.7		162.65	83.88	0.00	1.25		10.35	18.92	83.84	86.68	14-May-17 20:00:00		**173.00**	**102.80**	**83.84**	**87.93**
14-May-17 21:00:00	14-May-17 22:00:00		113.42	253.25	0.00	3.99	2.1	329.7		37.40	83.50	0.00	1.32		10.35	18.92	83.84	86.68	14-May-17 21:00:00		**47.75**	**102.42**	**83.84**	**88.00**
14-May-17 22:00:00	14-May-17 23:00:00		0.12	198.97	0.00	4.13	2.1	329.7		0.04	65.60	0.00	1.36		10.35	18.92	83.84	86.68	14-May-17 22:00:00		**10.39**	**84.52**	**83.84**	**88.04**
14-May-17 23:00:00	15-May-17 00:00:00		1.26	0.00	0.00	4.27	2.1	329.7		0.42	0.00	0.00	1.41		10.35	18.92	83.84	86.68	14-May-17 23:00:00		**10.77**	**18.92**	**83.84**	**88.09**
15-May-17 00:00:00	15-May-17 01:00:00		0.05	0.00	0.00	4.41	2.1	329.7		0.02	0.00	0.00	1.45		10.35	18.92	83.84	86.68	15-May-17 00:00:00		**10.37**	**18.92**	**83.84**	**88.13**
15-May-17 01:00:00	15-May-17 02:00:00		0.12	0.00	0.00	4.63	2.1	329.7		0.04	0.00	0.00	1.53		10.35	18.92	83.84	86.68	15-May-17 01:00:00		**10.39**	**18.92**	**83.84**	**88.21**
15-May-17 02:00:00	15-May-17 03:00:00		0.00	65.83	0.00	4.70	2.1	329.7		0.00	21.70	0.00	1.55		10.35	18.92	83.84	86.68	15-May-17 02:00:00		**10.35**	**40.62**	**83.84**	**88.23**
15-May-17 03:00:00	15-May-17 04:00:00		0.00	0.00	0.00	4.77	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	15-May-17 03:00:00		**10.35**	**18.92**	**83.84**	**88.25**
15-May-17 04:00:00	15-May-17 05:00:00		0.00	0.00	0.00	4.84	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	15-May-17 04:00:00		**10.35**	**18.92**	**83.84**	**88.28**
15-May-17 05:00:00	15-May-17 06:00:00		0.96	0.00	0.00	4.88	2.1	329.7		0.32	0.00	0.00	1.61		10.35	18.92	83.84	86.68	15-May-17 05:00:00		**10.67**	**18.92**	**83.84**	**88.29**
15-May-17 06:00:00	15-May-17 07:00:00		1.28	0.00	0.00	4.81	2.1	329.7		0.42	0.00	0.00	1.59		10.35	18.92	83.84	86.68	15-May-17 06:00:00		**10.77**	**18.92**	**83.84**	**88.27**
15-May-17 07:00:00	15-May-17 08:00:00		0.89	0.00	0.00	4.74	2.1	329.7		0.29	0.00	0.00	1.56		10.35	18.92	83.84	86.68	15-May-17 07:00:00		**10.64**	**18.92**	**83.84**	**88.24**
15-May-17 08:00:00	15-May-17 09:00:00		0.50	0.00	0.00	4.67	2.1	329.7		0.17	0.00	0.00	1.54		10.35	18.92	83.84	86.68	15-May-17 08:00:00		**10.52**	**18.92**	**83.84**	**88.22**
15-May-17 09:00:00	15-May-17 10:00:00		0.12	0.00	0.00	4.50	2.1	329.7		0.04	0.00	0.00	1.48		10.35	18.92	83.84	86.68	15-May-17 09:00:00		**10.39**	**18.92**	**83.84**	**88.16**
15-May-17 10:00:00	15-May-17 11:00:00		0.00	0.00	0.00	4.14	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	15-May-17 10:00:00		**10.35**	**18.92**	**83.84**	**88.04**
15-May-17 11:00:00	15-May-17 12:00:00		0.42	0.00	0.00	3.77	2.1	329.7		0.14	0.00	0.00	1.24		10.35	18.92	83.84	86.68	15-May-17 11:00:00		**10.49**	**18.92**	**83.84**	**87.92**
15-May-17 12:00:00	15-May-17 13:00:00		0.00	0.00	0.00	3.41	2.1	329.7		0.00	0.00	0.00	1.12		10.35	18.92	83.84	86.68	15-May-17 12:00:00		**10.35**	**18.92**	**83.84**	**87.80**
15-May-17 13:00:00	15-May-17 14:00:00		0.00	87.60	0.00	3.37	2.1	329.7		0.00	28.88	0.00	1.11		10.35	18.92	83.84	86.68	15-May-17 13:00:00		**10.35**	**47.80**	**83.84**	**87.79**
15-May-17 14:00:00	15-May-17 15:00:00		1.93	0.00	0.00	3.36	2.1	329.7		0.64	0.00	0.00	1.11		10.35	18.92	83.84	86.68	15-May-17 14:00:00		**10.99**	**18.92**	**83.84**	**87.79**
15-May-17 15:00:00	15-May-17 16:00:00		5.35	2.12	0.00	3.34	2.1	329.7		1.76	0.70	0.00	1.10		10.35	18.92	83.84	86.68	15-May-17 15:00:00		**12.11**	**19.62**	**83.84**	**87.78**
15-May-17 16:00:00	15-May-17 17:00:00		2.02	0.00	0.00	3.32	2.1	329.7		0.67	0.00	0.00	1.09		10.35	18.92	83.84	86.68	15-May-17 16:00:00		**11.02**	**18.92**	**83.84**	**87.77**
15-May-17 17:00:00	15-May-17 18:00:00		2.52	0.00	0.00	3.42	2.1	329.7		0.83	0.00	0.00	1.13		10.35	18.92	83.84	86.68	15-May-17 17:00:00		**11.18**	**18.92**	**83.84**	**87.81**
15-May-17 18:00:00	15-May-17 19:00:00		0.00	0.00	0.00	3.47	2.1	329.7		0.00	0.00	0.00	1.15		10.35	18.92	83.84	86.68	15-May-17 18:00:00		**10.35**	**18.92**	**83.84**	**87.83**
15-May-17 19:00:00	15-May-17 20:00:00		0.00	0.00	0.00	3.53	2.1	329.7		0.00	0.00	0.00	1.16		10.35	18.92	83.84	86.68	15-May-17 19:00:00		**10.35**	**18.92**	**83.84**	**87.84**
15-May-17 20:00:00	15-May-17 21:00:00		0.14	0.00	0.00	3.58	2.1	329.7		0.05	0.00	0.00	1.18		10.35	18.92	83.84	86.68	15-May-17 20:00:00		**10.40**	**18.92**	**83.84**	**87.86**
15-May-17 21:00:00	15-May-17 22:00:00		3.23	0.00	0.00	3.76	2.1	329.7		1.06	0.00	0.00	1.24		10.35	18.92	83.84	86.68	15-May-17 21:00:00		**11.41**	**18.92**	**83.84**	**87.92**
15-May-17 22:00:00	15-May-17 23:00:00		1.17	0.00	0.00	4.01	2.1	329.7		0.39	0.00	0.00	1.32		10.35	18.92	83.84	86.68	15-May-17 22:00:00		**10.74**	**18.92**	**83.84**	**88.00**
15-May-17 23:00:00	16-May-17 00:00:00		0.87	0.00	0.00	4.26	2.1	329.7		0.29	0.00	0.00	1.41		10.35	18.92	83.84	86.68	15-May-17 23:00:00		**10.64**	**18.92**	**83.84**	**88.09**
16-May-17 00:00:00	16-May-17 01:00:00		0.00	0.00	0.00	4.51	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	16-May-17 00:00:00		**10.35**	**18.92**	**83.84**	**88.17**
16-May-17 01:00:00	16-May-17 02:00:00		1.13	0.00	0.00	4.70	2.1	329.7		0.37	0.00	0.00	1.55		10.35	18.92	83.84	86.68	16-May-17 01:00:00		**10.72**	**18.92**	**83.84**	**88.23**
16-May-17 02:00:00	16-May-17 03:00:00		0.00	0.00	0.00	4.75	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	16-May-17 02:00:00		**10.35**	**18.92**	**83.84**	**88.24**
16-May-17 03:00:00	16-May-17 04:00:00		0.00	0.00	0.00	4.79	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	16-May-17 03:00:00

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
18-May-17 02:00:00	18-May-17 03:00:00		2.67	0.00	0.00	4.64	2.1	329.7		0.88	0.00	0.00	1.53		10.35	18.92	83.84	86.68	18-May-17 02:00:00		11.23	18.92	83.84	88.21
18-May-17 03:00:00	18-May-17 04:00:00		0.83	0.00	0.00	4.64	2.1	329.7		0.27	0.00	0.00	1.53		10.35	18.92	83.84	86.68	18-May-17 03:00:00		10.62	18.92	83.84	88.21
18-May-17 04:00:00	18-May-17 05:00:00		0.59	0.00	0.00	4.64	2.1	329.7		0.19	0.00	0.00	1.53		10.35	18.92	83.84	86.68	18-May-17 04:00:00		10.54	18.92	83.84	88.21
18-May-17 05:00:00	18-May-17 06:00:00		0.98	0.00	0.00	4.65	2.1	329.7		0.32	0.00	0.00	1.53		10.35	18.92	83.84	86.68	18-May-17 05:00:00		10.67	18.92	83.84	88.21
18-May-17 06:00:00	18-May-17 07:00:00		0.29	0.00	0.00	4.66	2.1	329.7		0.10	0.00	0.00	1.54		10.35	18.92	83.84	86.68	18-May-17 06:00:00		10.45	18.92	83.84	88.22
18-May-17 07:00:00	18-May-17 08:00:00		0.17	0.00	0.00	4.67	2.1	329.7		0.05	0.00	0.00	1.54		10.35	18.92	83.84	86.68	18-May-17 07:00:00		10.40	18.92	83.84	88.22
18-May-17 08:00:00	18-May-17 09:00:00		106.06	0.00	0.00	4.67	2.1	329.7		34.97	0.00	0.00	1.54		10.35	18.92	83.84	86.68	18-May-17 08:00:00		45.32	18.92	83.84	88.22
18-May-17 09:00:00	18-May-17 10:00:00		358.28	0.00	0.00	4.62	2.1	329.7		118.12	0.00	0.00	1.52		10.35	18.92	83.84	86.68	18-May-17 09:00:00		128.47	18.92	83.84	88.20
18-May-17 10:00:00	18-May-17 11:00:00		0.00	0.00	0.00	4.49	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	18-May-17 10:00:00		10.35	18.92	83.84	88.16
18-May-17 11:00:00	18-May-17 12:00:00		0.00	0.00	0.00	4.36	2.1	329.7		0.00	0.00	0.00	1.44		10.35	18.92	83.84	86.68	18-May-17 11:00:00		10.35	18.92	83.84	88.12
18-May-17 12:00:00	18-May-17 13:00:00		0.60	0.00	0.00	4.23	2.1	329.7		0.20	0.00	0.00	1.39		10.35	18.92	83.84	86.68	18-May-17 12:00:00		10.55	18.92	83.84	88.07
18-May-17 13:00:00	18-May-17 14:00:00		1.41	0.00	0.00	4.00	2.1	329.7		0.46	0.00	0.00	1.32		10.35	18.92	83.84	86.68	18-May-17 13:00:00		10.81	18.92	83.84	88.00
18-May-17 14:00:00	18-May-17 15:00:00		2.93	0.00	0.00	3.85	2.1	329.7		0.97	0.00	0.00	1.27		10.35	18.92	83.84	86.68	18-May-17 14:00:00		11.32	18.92	83.84	87.95
18-May-17 15:00:00	18-May-17 16:00:00		0.00	0.00	0.00	3.72	2.1	329.7		0.00	0.00	0.00	1.23		10.35	18.92	83.84	86.68	18-May-17 15:00:00		10.35	18.92	83.84	87.91
18-May-17 16:00:00	18-May-17 17:00:00		0.00	0.00	0.00	3.59	2.1	329.7		0.00	0.00	0.00	1.18		10.35	18.92	83.84	86.68	18-May-17 16:00:00		10.35	18.92	83.84	87.86
18-May-17 17:00:00	18-May-17 18:00:00		0.00	0.00	0.00	3.60	2.1	329.7		0.00	0.00	0.00	1.19		10.35	18.92	83.84	86.68	18-May-17 17:00:00		10.35	18.92	83.84	87.87
18-May-17 18:00:00	18-May-17 19:00:00		0.00	0.00	0.00	3.72	2.1	329.7		0.00	0.00	0.00	1.23		10.35	18.92	83.84	86.68	18-May-17 18:00:00		10.35	18.92	83.84	87.91
18-May-17 19:00:00	18-May-17 20:00:00		0.00	0.00	0.00	3.82	2.1	329.7		0.00	0.00	0.00	1.26		10.35	18.92	83.84	86.68	18-May-17 19:00:00		10.35	18.92	83.84	87.94
18-May-17 20:00:00	18-May-17 21:00:00		0.00	0.00	0.00	3.93	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	18-May-17 20:00:00		10.35	18.92	83.84	87.98
18-May-17 21:00:00	18-May-17 22:00:00		0.00	0.00	0.00	4.04	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	18-May-17 21:00:00		10.35	18.92	83.84	88.01
18-May-17 22:00:00	18-May-17 23:00:00		0.25	0.00	0.00	4.15	2.1	329.7		0.08	0.00	0.00	1.37		10.35	18.92	83.84	86.68	18-May-17 22:00:00		10.43	18.92	83.84	88.05
18-May-17 23:00:00	19-May-17 00:00:00		1.80	0.00	0.00	4.26	2.1	329.7		0.59	0.00	0.00	1.41		10.35	18.92	83.84	86.68	18-May-17 23:00:00		10.94	18.92	83.84	88.09
19-May-17 00:00:00	19-May-17 01:00:00		1.78	0.00	0.00	4.37	2.1	329.7		0.59	0.00	0.00	1.44		10.35	18.92	83.84	86.68	19-May-17 00:00:00		10.94	18.92	83.84	88.12
19-May-17 01:00:00	19-May-17 02:00:00		1.93	0.00	0.00	4.49	2.1	329.7		0.64	0.00	0.00	1.48		10.35	18.92	83.84	86.68	19-May-17 01:00:00		10.99	18.92	83.84	88.16
19-May-17 02:00:00	19-May-17 03:00:00		1.29	0.00	0.00	4.57	2.1	329.7		0.42	0.00	0.00	1.51		10.35	18.92	83.84	86.68	19-May-17 02:00:00		10.77	18.92	83.84	88.19
19-May-17 03:00:00	19-May-17 04:00:00		2.23	0.00	0.00	4.65	2.1	329.7		0.73	0.00	0.00	1.53		10.35	18.92	83.84	86.68	19-May-17 03:00:00		11.08	18.92	83.84	88.21
19-May-17 04:00:00	19-May-17 05:00:00		1.92	0.00	0.00	4.72	2.1	329.7		0.63	0.00	0.00	1.56		10.35	18.92	83.84	86.68	19-May-17 04:00:00		10.98	18.92	83.84	88.24
19-May-17 05:00:00	19-May-17 06:00:00		0.14	0.00	0.00	4.70	2.1	329.7		0.04	0.00	0.00	1.55		10.35	18.92	83.84	86.68	19-May-17 05:00:00		10.39	18.92	83.84	88.23
19-May-17 06:00:00	19-May-17 07:00:00		0.09	0.00	0.00	4.76	2.1	329.7		0.03	0.00	0.00	1.57		10.35	18.92	83.84	86.68	19-May-17 06:00:00		10.38	18.92	83.84	88.25
19-May-17 07:00:00	19-May-17 08:00:00		0.05	0.00	0.00	4.85	2.1	329.7		0.02	0.00	0.00	1.60		10.35	18.92	83.84	86.68	19-May-17 07:00:00		10.37	18.92	83.84	88.28
19-May-17 08:00:00	19-May-17 09:00:00		0.13	0.00	0.00	4.93	2.1	329.7		0.04	0.00	0.00	1.63		10.35	18.92	83.84	86.68	19-May-17 08:00:00		10.39	18.92	83.84	88.31
19-May-17 09:00:00	19-May-17 10:00:00		2.13	0.00	0.00	4.91	2.1	329.7		0.70	0.00	0.00	1.62		10.35	18.92	83.84	86.68	19-May-17 09:00:00		11.05	18.92	83.84	88.30
19-May-17 10:00:00	19-May-17 11:00:00		0.94	0.00	0.00	4.63	2.1	329.7		0.31	0.00	0.00	1.53		10.35	18.92	83.84	86.68	19-May-17 10:00:00		10.66	18.92	83.84	88.21
19-May-17 11:00:00	19-May-17 12:00:00		1.01	0.00	0.00	4.35	2.1	329.7		0.33	0.00	0.00	1.43		10.35	18.92	83.84	86.68	19-May-17 11:00:00		10.68	18.92	83.84	88.11
19-May-17 12:00:00	19-May-17 13:00:00		0.69	0.00	0.00	4.07	2.1	329.7		0.23	0.00	0.00	1.34		10.35	18.92	83.84	86.68	19-May-17 12:00:00		10.58	18.92	83.84	88.02
19-May-17 13:00:00	19-May-17 14:00:00		7.37	0.00	0.00	3.91	2.1	329.7		2.43	0.00	0.00	1.29		10.35	18.92	83.84	86.68	19-May-17 13:00:00		12.78	18.92	83.84	87.97
19-May-17 14:00:00	19-May-17 15:00:00		3.60	0.00	0.00	3.75	2.1	329.7		1.19	0.00	0.00	1.24		10.35	18.92	83.84	86.68	19-May-17 14:00:00		11.54	18.92	83.84	87.92
19-May-17 15:00:00	19-May-17 16:00:00		0.39	0.00	0.00	3.57	2.1	329.7		0.13	0.00	0.00	1.18		10.35	18.92	83.84	86.68	19-May-17 15:00:00		10.48	18.92	83.84	87.86
19-May-17 16:00:00	19-May-17 17:00:00		15.33	0.00	0.00	3.39	2.1	329.7		5.06	0.00	0.00	1.12		10.35	18.92	83.84	86.68	19-May-17 16:00:00		15.41	18.92	83.84	87.80
19-May-17 17:00:00	19-May-17 18:00:00		5.87	0.00	0.00	3.32	2.1	329.7		1.94	0.00	0.00	1.09		10.35	18.92	83.84	86.68	19-May-17 17:00:00		12.29	18.92	83.84	87.77
19-May-17 18:00:00	19-May-17 19:00:00		0.00	0.00	0.00	3.39	2.1	329.7		0.00	0.00	0.00	1.12		10.35	18.92	83.84	86.68	19-May-17 18:00:00		10.35	18.92	83.84	87.80
19-May-17 19:00:00	19-May-17 20:00:00		0.00	0.00	0.00	3.46	2.1	329.7		0.00	0.00	0.00	1.14		10.35	18.92	83.84	86.68	19-May-17 19:00:00		10.35	18.92	83.84	87.82
19-May-17 20:00:00	19-May-17 21:00:00		0.00	0.00	0.00	3.53	2.1	329.7		0.00	0.00	0.00	1.16		10.35	18.92	83.84	86.68	19-May-17 20:00:00		10.35	18.92	83.84	87.84
19-May-17 21:00:00	19-May-17 22:00:00		0.29	0.00	0.00	3.72	2.1	329.7		0.10	0.00	0.00	1.23		10.35	18.92	83.84	86.68	19-May-17 21:00:00		10.45	18.92	83.84	87.91
19-May-17 22:00:00	19-May-17 23:00:00		0.77	0.00	0.00	3.94	2.1	329.7		0.25	0.00	0.00	1.30		10.35	18.92	83.84	86.68	19-May-17 22:00:00		10.60	18.92	83.84	87.98
19-May-17 23:00:00	20-May-17 00:00:00		0.30	0.00	0.00	4.14	2.1	329.7		0.10	0.00	0.00	1.37		10.35	18.92	83.84	86.68	19-May-17 23:00:00		10.45	18.92	83.84	88.05
20-May-17 00:00:00	20-May-17 01:00:00		3.21	0.00	0.00	4.35	2.1	329.7		1.06	0.00	0.00	1.43		10.35	18.92	83.84	86.68	20-May-17 00:00:00		11.41	18.92	83.84	88.11
20-May-17 01:00:00	20-May-17 02:00:00		0.85	0.00	0.00	4.48	2.1	329.7		0.28	0.00	0.00	1.48		10.35	18.92	83.84	86.68	20-May-17 01:00:00		10.63	18.92	83.84	88.16
20-May-17 02:00:00	20-May-17 03:00:00		5.22	0.00	0.00	4.59	2.1	329.7		1.72	0.00	0.00	1.51		10.35	18.92	83.84	86.68	20-May-17 02:00:00		12.07	18.92	83.84	88.19
20-May-17 03:00:00	20-May-17 04:00:00		0.95	0.00	0.00	4.71	2.1	329.7		0.31	0.00	0.00	1.55		10.35	18.92	83.84	86.68	20-May-17 03:00:00		10.66	18.92	83.84	88.23
20-May-17 04:00:00	20-May-17 05:00:00		0.00	0.00	0.00	4.82	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	20-May-17 04:00:00		10.35	18.92	83.84	88.27
20-May-17 05:00:00	20-May-17 06:00:00		0.00	0.00	0.00	4.88	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	20-May-17 05:00:00		10.35	18.92	83.84	88.29
20-May-17 06:00:00	20-May-17 07:00:00		146.59	0.00	0.00	4.88	2.1	329.7		48.33	0.00	0.00	1.61		10.35	18.92	83.84	86.68	20-May-17 06:00:00		58.68	18.92	83.84	88.29
20-May-17 07:00:00	20-May-17 08:00:00		627.80	0.00	0.00	4.89	2.1	329.7		206.98	0.00	0.00	1.61		10.35	18.92	83.84	86.68	20-May-17 07:00:00		217.33	18.92	83.84	88.29
20-May-17 08:00:00	20-May-17 09:00:00		103.08	0.00	0.00	4.91	2.1	329.7		33.99	0.00	0.00	1.62		10.35	18.92	83.84	86.68	20-May-17 08:00:00		44.34	18.92	83.84	88.30
20-May-17 09:00:00	20-May-17 10:00:00		0.00	0.00	0.00	4.83	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	20-May-17 09:00:00		10.35	18.92	83.84	88.27
20-May-17 10:00:00	20-May-17 11:00:00		0.00	0.00	0.00	4.62	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	20-May-17 10:00:00		10.35	18.92	83.84	88.20
20-May-17 11:00:00	20-May-17 12:00:00		0.00	0.00	0.00	4.42	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	20-May-17 11:00:00		10.35	18.92	83.84	88.14
20-May-17 12:00:00	20-May-17 13:00:00		0.00	0.00	0.00	4.23	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	20-May-17 12:00:00		10.35	18.92	83.84	88.07
20-May-17 13:00:00	20-May-17 14:00:00		0.00	0.00	0.00	4.04	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	20-May-17 13:00:00		10.35	18.92	83.84	88.01
20-May-17 14:00:00	20-May-17 15:00:00		8.49	0.00	0.00	3.91	2.1	329.7		2.80	0.00	0.00	1.29		10.35	18.92	83.84	86.68	20-May-17 14:00:00		13.15	18.92	83.84	87.97
20-May-17 15:00:00	20-May-17 16:00:00		4.70	0.00	0.00	3.77	2.1	329.7		1.55	0.00	0.00	1.24		10.35	18.92	83.84	86.68	20-May-17 15:00:00		11.90	18.92	83.84	87.92
20-May-17 16:00:00	20-May-17 17:00:00		0.63	0.00	0.00	3.64	2.1	329.7		0.21	0.00	0.00	1.20		10.35	18.92	83.84	86.68	20-May-17 16:00:00		10.56	18.92	83.84	87.88
20-May-17 17:00:00	20-May-17 18:00:00		5.28	0.00	0.00	3.53	2.1	329.7		1.74	0.00	0.00	1.16		10.35	18.92	83.84	86.68	20-May-17 17:00:00		12.09	18.92	83.84	87.84
20-May-17 18:00:00	20-May-17 19:00:00		1.36	0.00	0.00	3.51	2.1	329.7		0.45	0.00	0.00	1.16		10.35	18.92	83.84	86.68	20-May-17 18:00:00		10.80	18.92	83.84	87.84
20-May-17 19:00:00	20-May-17 20:00:00		0.00	0.00	0.00	3.51	2.1	329.7		0.00	0.00	0.00	1.16		10.35	18.92	83.84	86.68	20-May-17 19:00:00		10.35	18.92	83.84	87.84
20-May-17 20:00:00	20-May-17 21:00:00		0.00	0.00	0.00	3.51	2.1	329.7		0.00	0.00	0.00	1.16		10.35	18.92	83.84	86.68	20-May-17 20:00:00		10.35	18.92	83.84	87.84
20-May-17 21:00:00	20-May-17 22:00:00		0.00	0.00	0.00	3.58	2.1	329.7		0.00	0.00	0.00	1.18		10.35	18.92	83.84	86.68	20-May-17 21:00:00		10.35	18.92	83.84	87.86
20-May-17 22:00:00	20-May-17 23:00:00		0.00	0.00	0.00	3.82	2.1	329.7		0.00	0.00	0.00	1.26		10.35	18.92	83.84	86.68	20-May-17 22:00:00		10.35	18.92	83.84	87.94
20-May-17 23:00:00	21-May-17 00:00:00		0.00	0.00	0.00	4.08	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	20-May-17 23:00:00		10.35	18.92	83.84	88.03
21-May-17 00:00:00	21-May-17 01:00:00		0.00	0.00	0.00	4.34	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	21-May-17 00:00:00		10.35	18.92	83.84	88.11
21-May-17 01:00:00	21-May-17 02:00:00		0.00	0.00	0.00	4.62	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	21-May-17 01:00:00		10.35	18.92	83.84	88.20
21-May-17 02:00:00	21-May-17 03:00:00		0.00	0.00	0.00	4.75	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	21-May-17 02:00:00		10.35	18.92	83.84	88.25
21-May-17 03:00:00	21-May-17 04:00:00		0.00	0.00	0.00	4.84	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	21-May-17 03:00:00		10.35	18.92	83.84	88.28
21-May-17 04:00:00	21-May-17 05:00:00		0.00	0.00	0.00	4.93	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	21-May-17 04:00:00		10.35	18.92	83.84	88.31
21-May-17 05:00:00	21-May-17 06:00:00		0.00	0.00	0.00	5.02	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	21-May-17 05:00:00		10.35	18.92	83.84	88.33
21-May-17 06:00:00	21-May-17 07:00:00		0.00	0.00	0.00	5.06	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	21-May-17 06:00:00		10.35	18.92	83.84	88.35
21-May-17 07:00:00	21-May-17 08:00:00		0.00	0.00	0.00	5.09	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	21-May-17 07:00:00		10.35	18.92	83.84	88.36
21-May-17 08:00:00	21-May-17 09:00:00		0.00	0.00	0.00	5.12	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	21-May-17 08:00:00		10.35	18.92	83.84	88.37
21-May-17 09:00:00	21-May-17 10:00:00		0.00	0.00	0.00	5.11	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	21-May-17 09:00:00		10.35	18.92	83.84	88.37
21-May-17 10:00:00	21-May-17 11:00:00		0.00	0.00	0.00	4.86	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	21-May-17 10:00:00		10.35	18.92	83.84	88.28
21-May-17 11:00:00	21-May-17 12:00:00		0.00	0.00	0.00	4.58	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	21-May-17 11:00:00		10.35	18.92	83.84	88.19
21-May-17 12:00:00	21-May-17 13:00:00		0.00	0.00	0.00	4.30	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	21-May-17 12:00:00		10.35	18.92	83.84	88.10
21-May-17 13:00:00	21-May-17 14:00:00		0.00	0.00	0.00	4.14	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	21-May-17 13:00:00		10.35	18.92	83.84	88.05
21-May-17 14:00:00	21-May-17 15:00:00		0.00	0.00	0.00	4.29	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	21-May-17 14:00:00		10.35	18.92	83.84	88.10
21-May-17 15:00:00	21-May-17 16:00:00		0.00	0.00	0.00	4.46	2.1	329.7		0.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	21-May-17 15:00:00		10.35	18.92	83.84	88.15
21-May-17 16:00:00	21-May-17 17:00:00		0.00	0.00	0.00	4.62	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	21-May-17 16:00:00		10.35	18.92	83.84	88.20
21-May-17 17:00:00	21-May-17 18:00:00		0.00	0.00	0.00	4.72	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	21-May-17 17:00:00		10.35	18.92	83.84	88.24
21-May-17 18:00:00	21-May-17 19:00:00		0.00	0.00	0.00	4.75	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	21-May-17 18:00:00		10.35	18.92	83.84	88.25
21-May-17 19:00:00	21-May-17 20:00:00		0.00	0.00	0.00	4.78	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	21-May-17 19:00:00		10.35	18.92	83.84	88.26
21-May-17 20:00:00	21-May-17 21:00:00		0.06	0.00	0.00	4.82	2.1	329.7		0.02	0.00	0.00	1.59		10.35	18.92	83.84	86.68	21-May-17 20:00:00		10.37	18.92	83.84	88.27
21-May-17 21:00:00	21-May-17 22:00:00		1.57	0.00	0.00	4.95	2.1	329.7		0.52	0.00	0.00	1.63		10.35	18.92	83.84	86.68	21-May-17 21:00:00		10.87	18.92	83.84	88.31
21-May-17 22:00:00	21-May-17 23:00:00		1.40	0.00	0.00	5.38	2.1	329.7		0.46	0.00	0.00	1.78		10.35	18.92	83.84	86.68	21-May-17 22:00:00		10.81	18.92	83.84	88.46
21-May-17 23:00:00	22-May-17 00:00:00		0.12	1.50	9.80	316.43	2.1	329.7		0.04	0.49	3.23	104.33		10.35	18.92	83.84	86.68	21-May-17 23:00:00		10.39	19.41	87.07	191.01
22-May-17 00:00:00	22-May-17 01:00:00		0.00	0.00	1.19	244.06	2.1	329.7		0.00	0.00	0.39	80.47		10.35	18.92	83.84	86.68	22-May-17 00:00:00		10.35	18.92	84.23	167.15
22-May-17 01:00:00	22-May-17 02:00:00		0.00	0.00	1.05	4.82	2.1	329.7		0.00	0.00	0.35	1.59		10.35	18.92	83.84	86.68	22-May-17 01:00:00		10.35	18.92	84.19	88.27
22-May-17 02:00:00	22-May-17 03:00:00		0.00	0.00	0.90	5.07	2.1	329.7		0.00	0.00	0.30	1.67		10.35	18.92	83.84	86.68	22-May-17 02:00:00		10.35	18.92	84.14

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
24-May-17 01:00:00	24-May-17 02:00:00		1,025.49	0.00	0.00	5.18	2.1	329.7		338.10	0.00	0.00	1.71		10.35	18.92	83.84	86.68	24-May-17 01:00:00		**348.45**	**18.92**	**83.84**	**88.39**
24-May-17 02:00:00	24-May-17 03:00:00		1,052.70	0.00	0.00	5.19	2.1	329.7		347.08	0.00	0.00	1.71		10.35	18.92	83.84	86.68	24-May-17 02:00:00		**357.43**	**18.92**	**83.84**	**88.39**
24-May-17 03:00:00	24-May-17 04:00:00		1,045.14	0.00	0.00	5.17	2.1	329.7		344.58	0.00	0.00	1.71		10.35	18.92	83.84	86.68	24-May-17 03:00:00		**354.93**	**18.92**	**83.84**	**88.39**
24-May-17 04:00:00	24-May-17 05:00:00		1,041.14	0.00	0.00	5.16	2.1	329.7		343.26	0.00	0.00	1.70		10.35	18.92	83.84	86.68	24-May-17 04:00:00		**353.61**	**18.92**	**83.84**	**88.38**
24-May-17 05:00:00	24-May-17 06:00:00		1,059.09	0.00	0.00	5.13	2.1	329.7		349.18	0.00	0.00	1.69		10.35	18.92	83.84	86.68	24-May-17 05:00:00		**359.53**	**18.92**	**83.84**	**88.37**
24-May-17 06:00:00	24-May-17 07:00:00		1,070.74	0.00	0.00	5.01	2.1	329.7		353.02	0.00	0.00	1.65		10.35	18.92	83.84	86.68	24-May-17 06:00:00		**363.37**	**18.92**	**83.84**	**88.33**
24-May-17 07:00:00	24-May-17 08:00:00		1,072.76	0.00	0.00	4.86	2.1	329.7		353.69	0.00	0.00	1.60		10.35	18.92	83.84	86.68	24-May-17 07:00:00		**364.04**	**18.92**	**83.84**	**88.28**
24-May-17 08:00:00	24-May-17 09:00:00		1,073.85	0.00	0.00	4.71	2.1	329.7		354.05	0.00	0.00	1.55		10.35	18.92	83.84	86.68	24-May-17 08:00:00		**364.40**	**18.92**	**83.84**	**88.23**
24-May-17 09:00:00	24-May-17 10:00:00		756.27	0.00	0.00	5.27	2.1	329.7		249.34	0.00	0.00	1.74		10.35	18.92	83.84	86.68	24-May-17 09:00:00		**259.69**	**18.92**	**83.84**	**88.42**
24-May-17 10:00:00	24-May-17 11:00:00		272.73	0.00	0.00	4.52	2.1	329.7		89.92	0.00	0.00	1.49		10.35	18.92	83.84	86.68	24-May-17 10:00:00		**100.27**	**18.92**	**83.84**	**88.17**
24-May-17 11:00:00	24-May-17 12:00:00		203.29	0.00	0.00	4.51	2.1	329.7		67.03	0.00	0.00	1.49		10.35	18.92	83.84	86.68	24-May-17 11:00:00		**77.38**	**18.92**	**83.84**	**88.17**
24-May-17 12:00:00	24-May-17 13:00:00		0.00	0.00	0.00	5.12	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	24-May-17 12:00:00		**10.35**	**18.92**	**83.84**	**88.37**
24-May-17 13:00:00	24-May-17 14:00:00		0.00	0.00	0.00	4.36	2.1	329.7		0.00	0.00	0.00	1.44		10.35	18.92	83.84	86.68	24-May-17 13:00:00		**10.35**	**18.92**	**83.84**	**88.12**
24-May-17 14:00:00	24-May-17 15:00:00		0.00	0.00	0.00	4.51	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	24-May-17 14:00:00		**10.35**	**18.92**	**83.84**	**88.17**
24-May-17 15:00:00	24-May-17 16:00:00		0.00	0.00	0.00	4.67	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	24-May-17 15:00:00		**10.35**	**18.92**	**83.84**	**88.22**
24-May-17 16:00:00	24-May-17 17:00:00		0.00	0.00	0.00	11.01	2.1	329.7		0.00	0.00	0.00	3.63		10.35	18.92	83.84	86.68	24-May-17 16:00:00		**10.35**	**18.92**	**83.84**	**90.31**
24-May-17 17:00:00	24-May-17 18:00:00		0.00	0.00	0.00	4.94	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	24-May-17 17:00:00		**10.35**	**18.92**	**83.84**	**88.31**
24-May-17 18:00:00	24-May-17 19:00:00		0.00	0.00	0.00	5.04	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	24-May-17 18:00:00		**10.35**	**18.92**	**83.84**	**88.34**
24-May-17 19:00:00	24-May-17 20:00:00		0.00	0.00	0.00	5.14	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	24-May-17 19:00:00		**10.35**	**18.92**	**83.84**	**88.37**
24-May-17 20:00:00	24-May-17 21:00:00		0.00	0.00	0.00	5.28	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	24-May-17 20:00:00		**10.35**	**18.92**	**83.84**	**88.42**
24-May-17 21:00:00	24-May-17 22:00:00		0.00	0.00	0.00	5.42	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	24-May-17 21:00:00		**10.35**	**18.92**	**83.84**	**88.47**
24-May-17 22:00:00	24-May-17 23:00:00		0.00	0.00	0.00	5.52	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	24-May-17 22:00:00		**10.35**	**18.92**	**83.84**	**88.50**
24-May-17 23:00:00	25-May-17 00:00:00		0.00	0.00	0.00	36.68	2.1	329.7		0.00	0.00	0.00	12.09		10.35	18.92	83.84	86.68	24-May-17 23:00:00		**10.35**	**18.92**	**83.84**	**98.77**
25-May-17 00:00:00	25-May-17 01:00:00		0.00	0.00	0.00	5.62	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	25-May-17 00:00:00		**10.35**	**18.92**	**83.84**	**88.53**
25-May-17 01:00:00	25-May-17 02:00:00		0.00	0.00	0.00	5.46	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	25-May-17 01:00:00		**10.35**	**18.92**	**83.84**	**88.48**
25-May-17 02:00:00	25-May-17 03:00:00		0.00	0.00	0.00	5.30	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	25-May-17 02:00:00		**10.35**	**18.92**	**83.84**	**88.43**
25-May-17 03:00:00	25-May-17 04:00:00		0.00	0.00	0.00	5.14	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	25-May-17 03:00:00		**10.35**	**18.92**	**83.84**	**88.37**
25-May-17 04:00:00	25-May-17 05:00:00		0.00	0.00	0.00	5.25	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	25-May-17 04:00:00		**10.35**	**18.92**	**83.84**	**88.41**
25-May-17 05:00:00	25-May-17 06:00:00		0.00	0.00	0.00	5.40	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	25-May-17 05:00:00		**10.35**	**18.92**	**83.84**	**88.46**
25-May-17 06:00:00	25-May-17 07:00:00		0.00	0.00	0.00	5.55	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	25-May-17 06:00:00		**10.35**	**18.92**	**83.84**	**88.51**
25-May-17 07:00:00	25-May-17 08:00:00		0.00	0.00	0.00	5.70	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	25-May-17 07:00:00		**10.35**	**18.92**	**83.84**	**88.56**
25-May-17 08:00:00	25-May-17 09:00:00		0.00	0.00	0.00	5.68	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	25-May-17 08:00:00		**10.35**	**18.92**	**83.84**	**88.55**
25-May-17 09:00:00	25-May-17 10:00:00		0.00	0.00	0.00	5.58	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	25-May-17 09:00:00		**10.35**	**18.92**	**83.84**	**88.52**
25-May-17 10:00:00	25-May-17 11:00:00		0.00	0.00	0.00	5.49	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	25-May-17 10:00:00		**10.35**	**18.92**	**83.84**	**88.49**
25-May-17 11:00:00	25-May-17 12:00:00		0.00	0.00	0.00	5.40	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	25-May-17 11:00:00		**10.35**	**18.92**	**83.84**	**88.46**
25-May-17 12:00:00	25-May-17 13:00:00		0.00	0.00	0.00	5.32	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	25-May-17 12:00:00		**10.35**	**18.92**	**83.84**	**88.43**
25-May-17 13:00:00	25-May-17 14:00:00		0.00	0.00	0.00	5.16	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	25-May-17 13:00:00		**10.35**	**18.92**	**83.84**	**88.38**
25-May-17 14:00:00	25-May-17 15:00:00		0.00	0.00	0.00	5.01	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	25-May-17 14:00:00		**10.35**	**18.92**	**83.84**	**88.33**
25-May-17 15:00:00	25-May-17 16:00:00		0.00	0.00	0.00	4.86	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	25-May-17 15:00:00		**10.35**	**18.92**	**83.84**	**88.28**
25-May-17 16:00:00	25-May-17 17:00:00		0.00	0.00	0.00	4.76	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	25-May-17 16:00:00		**10.35**	**18.92**	**83.84**	**88.25**
25-May-17 17:00:00	25-May-17 18:00:00		0.00	0.00	0.00	4.76	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	25-May-17 17:00:00		**10.35**	**18.92**	**83.84**	**88.25**
25-May-17 18:00:00	25-May-17 19:00:00		0.00	0.00	0.00	4.76	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	25-May-17 18:00:00		**10.35**	**18.92**	**83.84**	**88.25**
25-May-17 19:00:00	25-May-17 20:00:00		0.00	0.00	0.00	4.76	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	25-May-17 19:00:00		**10.35**	**18.92**	**83.84**	**88.25**
25-May-17 20:00:00	25-May-17 21:00:00		0.00	0.00	0.00	4.92	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	25-May-17 20:00:00		**10.35**	**18.92**	**83.84**	**88.30**
25-May-17 21:00:00	25-May-17 22:00:00		0.00	0.00	0.00	5.00	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	25-May-17 21:00:00		**10.35**	**18.92**	**83.84**	**88.33**
25-May-17 22:00:00	25-May-17 23:00:00		0.00	0.00	0.00	5.07	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	25-May-17 22:00:00		**10.35**	**18.92**	**83.84**	**88.35**
25-May-17 23:00:00	26-May-17 00:00:00		0.00	0.00	0.00	5.14	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	25-May-17 23:00:00		**10.35**	**18.92**	**83.84**	**88.38**
26-May-17 00:00:00	26-May-17 01:00:00		0.00	0.00	0.00	5.21	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	26-May-17 00:00:00		**10.35**	**18.92**	**83.84**	**88.40**
26-May-17 01:00:00	26-May-17 02:00:00		0.00	0.00	0.00	5.23	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	26-May-17 01:00:00		**10.35**	**18.92**	**83.84**	**88.40**
26-May-17 02:00:00	26-May-17 03:00:00		0.00	0.00	0.00	5.25	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	26-May-17 02:00:00		**10.35**	**18.92**	**83.84**	**88.41**
26-May-17 03:00:00	26-May-17 04:00:00		0.00	0.00	0.00	5.26	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	26-May-17 03:00:00		**10.35**	**18.92**	**83.84**	**88.42**
26-May-17 04:00:00	26-May-17 05:00:00		0.00	0.00	0.00	5.32	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	26-May-17 04:00:00		**10.35**	**18.92**	**83.84**	**88.43**
26-May-17 05:00:00	26-May-17 06:00:00		0.00	0.00	0.00	5.32	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	26-May-17 05:00:00		**10.35**	**18.92**	**83.84**	**88.43**
26-May-17 06:00:00	26-May-17 07:00:00		0.00	0.00	0.00	5.33	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	26-May-17 06:00:00		**10.35**	**18.92**	**83.84**	**88.44**
26-May-17 07:00:00	26-May-17 08:00:00		0.00	0.00	0.00	5.33	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	26-May-17 07:00:00		**10.35**	**18.92**	**83.84**	**88.44**
26-May-17 08:00:00	26-May-17 09:00:00		0.00	0.00	0.00	5.22	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	26-May-17 08:00:00		**10.35**	**18.92**	**83.84**	**88.40**
26-May-17 09:00:00	26-May-17 10:00:00		0.00	0.00	0.00	4.92	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	26-May-17 09:00:00		**10.35**	**18.92**	**83.84**	**88.30**
26-May-17 10:00:00	26-May-17 11:00:00		0.00	0.00	0.00	4.62	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	26-May-17 10:00:00		**10.35**	**18.92**	**83.84**	**88.20**
26-May-17 11:00:00	26-May-17 12:00:00		0.00	0.00	0.00	4.33	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	26-May-17 11:00:00		**10.35**	**18.92**	**83.84**	**88.11**
26-May-17 12:00:00	26-May-17 13:00:00		0.00	0.00	0.00	4.28	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	26-May-17 12:00:00		**10.35**	**18.92**	**83.84**	**88.09**
26-May-17 13:00:00	26-May-17 14:00:00		0.00	0.00	0.00	4.19	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	26-May-17 13:00:00		**10.35**	**18.92**	**83.84**	**88.06**
26-May-17 14:00:00	26-May-17 15:00:00		0.00	0.00	0.00	4.10	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	26-May-17 14:00:00		**10.35**	**18.92**	**83.84**	**88.03**
26-May-17 15:00:00	26-May-17 16:00:00		0.00	0.00	0.00	4.00	2.1	329.7		0.00	0.00	0.00	1.32		10.35	18.92	83.84	86.68	26-May-17 15:00:00		**10.35**	**18.92**	**83.84**	**88.00**
26-May-17 16:00:00	26-May-17 17:00:00		0.00	0.00	0.00	3.97	2.1	329.7		0.00	0.00	0.00	1.31		10.35	18.92	83.84	86.68	26-May-17 16:00:00		**10.35**	**18.92**	**83.84**	**87.99**
26-May-17 17:00:00	26-May-17 18:00:00		0.00	0.00	0.00	3.91	2.1	329.7		0.00	0.00	0.00	1.29		10.35	18.92	83.84	86.68	26-May-17 17:00:00		**10.35**	**18.92**	**83.84**	**87.97**
26-May-17 18:00:00	26-May-17 19:00:00		0.00	0.00	0.00	3.84	2.1	329.7		0.00	0.00	0.00	1.27		10.35	18.92	83.84	86.68	26-May-17 18:00:00		**10.35**	**18.92**	**83.84**	**87.95**
26-May-17 19:00:00	26-May-17 20:00:00		524.21	0.00	0.00	3.77	2.1	329.7		172.83	0.00	0.00	1.24		10.35	18.92	83.84	86.68	26-May-17 19:00:00		**183.18**	**18.92**	**83.84**	**87.92**
26-May-17 20:00:00	26-May-17 21:00:00		50.10	0.00	0.00	3.74	2.1	329.7		16.52	0.00	0.00	1.23		10.35	18.92	83.84	86.68	26-May-17 20:00:00		**26.87**	**18.92**	**83.84**	**87.91**
26-May-17 21:00:00	26-May-17 22:00:00		0.00	0.00	0.00	3.89	2.1	329.7		0.00	0.00	0.00	1.28		10.35	18.92	83.84	86.68	26-May-17 21:00:00		**10.35**	**18.92**	**83.84**	**87.96**
26-May-17 22:00:00	26-May-17 23:00:00		0.00	0.00	0.00	4.05	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	26-May-17 22:00:00		**10.35**	**18.92**	**83.84**	**88.01**
26-May-17 23:00:00	27-May-17 00:00:00		0.00	0.00	0.00	4.20	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	26-May-17 23:00:00		**10.35**	**18.92**	**83.84**	**88.07**
27-May-17 00:00:00	27-May-17 01:00:00		0.00	0.00	0.00	4.23	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	27-May-17 00:00:00		**10.35**	**18.92**	**83.84**	**88.07**
27-May-17 01:00:00	27-May-17 02:00:00		0.00	0.00	0.00	4.35	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	27-May-17 01:00:00		**10.35**	**18.92**	**83.84**	**88.11**
27-May-17 02:00:00	27-May-17 03:00:00		0.00	0.00	0.00	4.49	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	27-May-17 02:00:00		**10.35**	**18.92**	**83.84**	**88.16**
27-May-17 03:00:00	27-May-17 04:00:00		0.00	0.00	0.00	4.63	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	27-May-17 03:00:00		**10.35**	**18.92**	**83.84**	**88.20**
27-May-17 04:00:00	27-May-17 05:00:00		0.00	0.00	0.00	4.73	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	27-May-17 04:00:00		**10.35**	**18.92**	**83.84**	**88.24**
27-May-17 05:00:00	27-May-17 06:00:00		0.00	0.00	0.00	4.77	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	27-May-17 05:00:00		**10.35**	**18.92**	**83.84**	**88.25**
27-May-17 06:00:00	27-May-17 07:00:00		0.00	0.00	0.00	4.81	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	27-May-17 06:00:00		**10.35**	**18.92**	**83.84**	**88.27**
27-May-17 07:00:00	27-May-17 08:00:00		0.00	0.00	0.00	4.85	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	27-May-17 07:00:00		**10.35**	**18.92**	**83.84**	**88.28**
27-May-17 08:00:00	27-May-17 09:00:00		0.00	0.00	0.00	4.74	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	27-May-17 08:00:00		**10.35**	**18.92**	**83.84**	**88.24**
27-May-17 09:00:00	27-May-17 10:00:00		0.00	0.00	0.00	4.55	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	27-May-17 09:00:00		**10.35**	**18.92**	**83.84**	**88.18**
27-May-17 10:00:00	27-May-17 11:00:00		0.00	0.00	0.00	4.37	2.1	329.7		0.00	0.00	0.00	1.44		10.35	18.92	83.84	86.68	27-May-17 10:00:00		**10.35**	**18.92**	**83.84**	**88.12**
27-May-17 11:00:00	27-May-17 12:00:00		0.00	0.00	0.00	4.19	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	27-May-17 11:00:00		**10.35**	**18.92**	**83.84**	**88.06**
27-May-17 12:00:00	27-May-17 13:00:00		0.00	0.00	0.00	4.09	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	27-May-17 12:00:00		**10.35**	**18.92**	**83.84**	**88.03**
27-May-17 13:00:00	27-May-17 14:00:00		0.00	0.00	0.00	3.96	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	27-May-17 13:00:00		**10.35**	**18.92**	**83.84**	**87.98**
27-May-17 14:00:00	27-May-17 15:00:00		0.00	0.00	0.00	3.81	2.1	329.7		0.00	0.00	0.00	1.26		10.35	18.92	83.84	86.68	27-May-17 14:00:00		**10.35**	**18.92**	**83.84**	**87.94**
27-May-17 15:00:00	27-May-17 16:00:00		0.00	0.00	0.00	3.66	2.1	329.7		0.00	0.00	0.00	1.21		10.35	18.92	83.84	86.68	27-May-17 15:00:00		**10.35**	**18.92**	**83.84**	**87.89**
27-May-17 16:00:00	27-May-17 17:00:00		0.00	0.00	0.00	3.58	2.1	329.7		0.00	0.00	0.00	1.18		10.35	18.92	83.84	86.68	27-May-17 16:00:00		**10.35**	**18.92**	**83.84**	**87.86**
27-May-17 17:00:00	27-May-17 18:00:00		0.00	0.00	0.00	3.56	2.1	329.7		0.00	0.00	0.00	1.17		10.35	18.92	83.84	86.68	27-May-17 17:00:00		**10.35**	**18.92**	**83.84**	**87.85**
27-May-17 18:00:00	27-May-17 19:00:00		0.00	0.00	0.00	3.55	2.1	329.7		0.00	0.00	0.00	1.17		10.35	18.92	83.84	86.68	27-May-17 18:00:00		**10.35**	**18.92**	**83.84**	**87.85**
27-May-17 19:00:00	27-May-17 20:00:00		0.00	0.00	0.00	3.53	2.1	329.7		0.00	0.00	0.00	1.16		10.35	18.92	83.84	86.68	27-May-17 19:00:00		**10.35**	**18.92**	**83.84**	**87.84**
27-May-17 20:00:00	27-May-17 21:00:00		0.00	0.00	0.00	3.66	2.1	329.7		0.00	0.00	0.00	1.21		10.35	18.92	83.84	86.68	27-May-17 20:00:00		**10.35**	**18.92**	**83.84**	**87.89**
27-May-17 21:00:00	27-May-17 22:00:00		0.00	0.00	0.00	3.84	2.1	329.7		0.00	0.00	0.00	1.27		10.35	18.92	83.84	86.68	27-May-17 21:00:00		**10.35**	**18.92**	**83.84**	**87.95**
27-May-17 22:00:00	27-May-17 23:00:00		0.00	0.00	0.00	4.01	2.1	329.7		0.00	0.00	0.00	1.32		10.35	18.92	83.84	86.68	27-May-17 22:00:00		**10.35**	**18.92**	**83.84**	**88.00**
27-May-17 23:00:00	28-May-17 00:00:00		0.00	0.00	0.00	4.18	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	27-May-17 23:00:00		**10.35**	**18.92**	**83.84**	**88.06**
28-May-17 00:00:00	28-May-17 01:00:00		0.00	0.00	0.00	4.17	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	28-May-17 00:00:00		**10.35**	**18.92**	**83.84**	**88.05**
28-May-17 01:00:00	28-May-17 02:00:00		0.00	0.00	0.00	4.25	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	28-May-17 01:00:00		**

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
30-May-17 00:00:00	30-May-17 01:00:00		0.00	0.00	0.00	4.97	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	30-May-17 00:00:00		10.35	18.92	83.84	88.32
30-May-17 01:00:00	30-May-17 02:00:00		0.00	0.00	0.00	4.95	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	30-May-17 01:00:00		10.35	18.92	83.84	88.31
30-May-17 02:00:00	30-May-17 03:00:00		0.00	0.00	0.00	4.88	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	30-May-17 02:00:00		10.35	18.92	83.84	88.29
30-May-17 03:00:00	30-May-17 04:00:00		0.00	0.00	0.00	4.82	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	30-May-17 03:00:00		10.35	18.92	83.84	88.27
30-May-17 04:00:00	30-May-17 05:00:00		0.00	0.00	0.00	4.70	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	30-May-17 04:00:00		10.35	18.92	83.84	88.23
30-May-17 05:00:00	30-May-17 06:00:00		0.00	0.00	0.00	4.68	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	30-May-17 05:00:00		10.35	18.92	83.84	88.22
30-May-17 06:00:00	30-May-17 07:00:00		0.00	0.00	0.00	4.69	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	30-May-17 06:00:00		10.35	18.92	83.84	88.23
30-May-17 07:00:00	30-May-17 08:00:00		0.00	0.00	0.00	4.70	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	30-May-17 07:00:00		10.35	18.92	83.84	88.23
30-May-17 08:00:00	30-May-17 09:00:00		0.00	0.00	0.00	4.71	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	30-May-17 08:00:00		10.35	18.92	83.84	88.23
30-May-17 09:00:00	30-May-17 10:00:00		0.00	0.00	0.00	4.74	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	30-May-17 09:00:00		10.35	18.92	83.84	88.24
30-May-17 10:00:00	30-May-17 11:00:00		0.00	0.00	0.00	4.78	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	30-May-17 10:00:00		10.35	18.92	83.84	88.26
30-May-17 11:00:00	30-May-17 12:00:00		0.00	0.00	0.00	4.82	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	30-May-17 11:00:00		10.35	18.92	83.84	88.27
30-May-17 12:00:00	30-May-17 13:00:00		0.00	0.00	0.00	4.68	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	30-May-17 12:00:00		10.35	18.92	83.84	88.22
30-May-17 13:00:00	30-May-17 14:00:00		0.00	0.00	0.00	4.48	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	30-May-17 13:00:00		10.35	18.92	83.84	88.16
30-May-17 14:00:00	30-May-17 15:00:00		0.00	0.00	0.00	4.32	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	30-May-17 14:00:00		10.35	18.92	83.84	88.11
30-May-17 15:00:00	30-May-17 16:00:00		0.00	0.00	0.00	4.17	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	30-May-17 15:00:00		10.35	18.92	83.84	88.06
30-May-17 16:00:00	30-May-17 17:00:00		0.00	0.00	0.00	3.94	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	30-May-17 16:00:00		10.35	18.92	83.84	87.98
30-May-17 17:00:00	30-May-17 18:00:00		0.00	0.00	0.00	3.93	2.1	329.7		0.00	0.00	0.00	1.29		10.35	18.92	83.84	86.68	30-May-17 17:00:00		10.35	18.92	83.84	87.97
30-May-17 18:00:00	30-May-17 19:00:00		0.00	0.00	0.00	3.98	2.1	329.7		0.00	0.00	0.00	1.31		10.35	18.92	83.84	86.68	30-May-17 18:00:00		10.35	18.92	83.84	87.99
30-May-17 19:00:00	30-May-17 20:00:00		0.00	0.00	0.00	4.03	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	30-May-17 19:00:00		10.35	18.92	83.84	88.01
30-May-17 20:00:00	30-May-17 21:00:00		0.00	0.00	0.00	4.09	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	30-May-17 20:00:00		10.35	18.92	83.84	88.03
30-May-17 21:00:00	30-May-17 22:00:00		0.00	0.00	0.00	4.21	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	30-May-17 21:00:00		10.35	18.92	83.84	88.07
30-May-17 22:00:00	30-May-17 23:00:00		0.00	0.00	0.00	4.33	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	30-May-17 22:00:00		10.35	18.92	83.84	88.11
30-May-17 23:00:00	31-May-17 00:00:00		0.00	0.00	0.00	4.45	2.1	329.7		0.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	30-May-17 23:00:00		10.35	18.92	83.84	88.15
31-May-17 00:00:00	31-May-17 01:00:00		0.00	0.00	0.00	4.54	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	31-May-17 00:00:00		10.35	18.92	83.84	88.18
31-May-17 01:00:00	31-May-17 02:00:00		0.00	0.00	0.00	4.60	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	31-May-17 01:00:00		10.35	18.92	83.84	88.20
31-May-17 02:00:00	31-May-17 03:00:00		0.00	0.00	0.00	4.67	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	31-May-17 02:00:00		10.35	18.92	83.84	88.22
31-May-17 03:00:00	31-May-17 04:00:00		0.00	0.00	0.00	4.74	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	31-May-17 03:00:00		10.35	18.92	83.84	88.24
31-May-17 04:00:00	31-May-17 05:00:00		0.00	0.00	0.00	4.89	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	31-May-17 04:00:00		10.35	18.92	83.84	88.29
31-May-17 05:00:00	31-May-17 06:00:00		0.00	0.00	0.00	4.93	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	31-May-17 05:00:00		10.35	18.92	83.84	88.31
31-May-17 06:00:00	31-May-17 07:00:00		0.00	0.00	0.00	4.91	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	31-May-17 06:00:00		10.35	18.92	83.84	88.30
31-May-17 07:00:00	31-May-17 08:00:00		0.00	0.00	0.00	4.88	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	31-May-17 07:00:00		10.35	18.92	83.84	88.29
31-May-17 08:00:00	31-May-17 09:00:00		0.00	0.00	0.00	4.87	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	31-May-17 08:00:00		10.35	18.92	83.84	88.29
31-May-17 09:00:00	31-May-17 10:00:00		0.00	0.00	0.00	4.75	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	31-May-17 09:00:00		10.35	18.92	83.84	88.25
31-May-17 10:00:00	31-May-17 11:00:00		0.00	0.00	0.00	4.59	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	31-May-17 10:00:00		10.35	18.92	83.84	88.19
31-May-17 11:00:00	31-May-17 12:00:00		0.00	0.00	0.00	4.43	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	31-May-17 11:00:00		10.35	18.92	83.84	88.14
31-May-17 12:00:00	31-May-17 13:00:00		0.00	0.00	0.00	4.17	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	31-May-17 12:00:00		10.35	18.92	83.84	88.06
31-May-17 13:00:00	31-May-17 14:00:00		0.00	0.00	0.00	4.06	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	31-May-17 13:00:00		10.35	18.92	83.84	88.02
31-May-17 14:00:00	31-May-17 15:00:00		0.00	0.00	0.00	4.04	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	31-May-17 14:00:00		10.35	18.92	83.84	88.01
31-May-17 15:00:00	31-May-17 16:00:00		0.00	0.00	0.00	4.01	2.1	329.7		0.00	0.00	0.00	1.32		10.35	18.92	83.84	86.68	31-May-17 15:00:00		10.35	18.92	83.84	88.00
31-May-17 16:00:00	31-May-17 17:00:00		0.00	0.00	0.00	3.86	2.1	329.7		0.00	0.00	0.00	1.27		10.35	18.92	83.84	86.68	31-May-17 16:00:00		10.35	18.92	83.84	87.95
31-May-17 17:00:00	31-May-17 18:00:00		0.00	0.00	0.00	3.93	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	31-May-17 17:00:00		10.35	18.92	83.84	87.98
31-May-17 18:00:00	31-May-17 19:00:00		0.00	0.00	0.00	4.13	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	31-May-17 18:00:00		10.35	18.92	83.84	88.04
31-May-17 19:00:00	31-May-17 20:00:00		0.00	0.00	0.00	4.34	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	31-May-17 19:00:00		10.35	18.92	83.84	88.11
31-May-17 20:00:00	31-May-17 21:00:00		0.00	0.00	0.00	4.49	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	31-May-17 20:00:00		10.35	18.92	83.84	88.16
31-May-17 21:00:00	31-May-17 22:00:00		0.00	0.00	0.00	4.46	2.1	329.7		0.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	31-May-17 21:00:00		10.35	18.92	83.84	88.15
31-May-17 22:00:00	31-May-17 23:00:00		0.00	0.00	0.00	5.51	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	31-May-17 22:00:00		10.35	18.92	83.84	88.50
31-May-17 23:00:00	01-Jun-17 00:00:00		0.00	0.00	0.00	4.51	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	31-May-17 23:00:00		10.35	18.92	83.84	88.17
01-Jun-17 00:00:00	01-Jun-17 01:00:00		0.00	0.00	0.00	4.58	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	01-Jun-17 00:00:00		10.35	18.92	83.84	88.19
01-Jun-17 01:00:00	01-Jun-17 02:00:00		0.00	0.00	0.00	4.64	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	01-Jun-17 01:00:00		10.35	18.92	83.84	88.21
01-Jun-17 02:00:00	01-Jun-17 03:00:00		0.00	0.00	0.00	4.70	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	01-Jun-17 02:00:00		10.35	18.92	83.84	88.23
01-Jun-17 03:00:00	01-Jun-17 04:00:00		0.00	0.00	0.00	4.80	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	01-Jun-17 03:00:00		10.35	18.92	83.84	88.26
01-Jun-17 04:00:00	01-Jun-17 05:00:00		0.00	0.00	0.00	4.92	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	01-Jun-17 04:00:00		10.35	18.92	83.84	88.30
01-Jun-17 05:00:00	01-Jun-17 06:00:00		0.00	0.00	0.00	5.04	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	01-Jun-17 05:00:00		10.35	18.92	83.84	88.34
01-Jun-17 06:00:00	01-Jun-17 07:00:00		0.00	0.00	0.00	5.13	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	01-Jun-17 06:00:00		10.35	18.92	83.84	88.37
01-Jun-17 07:00:00	01-Jun-17 08:00:00		0.00	0.00	0.00	4.93	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	01-Jun-17 07:00:00		10.35	18.92	83.84	88.30
01-Jun-17 08:00:00	01-Jun-17 09:00:00		0.00	0.00	0.00	4.67	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	01-Jun-17 08:00:00		10.35	18.92	83.84	88.22
01-Jun-17 09:00:00	01-Jun-17 10:00:00		0.00	0.00	0.00	4.42	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	01-Jun-17 09:00:00		10.35	18.92	83.84	88.14
01-Jun-17 10:00:00	01-Jun-17 11:00:00		0.00	0.00	0.00	4.19	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	01-Jun-17 10:00:00		10.35	18.92	83.84	88.06
01-Jun-17 11:00:00	01-Jun-17 12:00:00		0.00	0.00	0.00	4.10	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	01-Jun-17 11:00:00		10.35	18.92	83.84	88.03
01-Jun-17 12:00:00	01-Jun-17 13:00:00		0.00	0.00	0.00	3.94	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	01-Jun-17 12:00:00		10.35	18.92	83.84	87.98
01-Jun-17 13:00:00	01-Jun-17 14:00:00		0.00	0.00	0.00	3.78	2.1	329.7		0.00	0.00	0.00	1.25		10.35	18.92	83.84	86.68	01-Jun-17 13:00:00		10.35	18.92	83.84	87.93
01-Jun-17 14:00:00	01-Jun-17 15:00:00		0.00	0.00	0.00	3.62	2.1	329.7		0.00	0.00	0.00	1.19		10.35	18.92	83.84	86.68	01-Jun-17 14:00:00		10.35	18.92	83.84	87.87
01-Jun-17 15:00:00	01-Jun-17 16:00:00		0.00	0.00	0.00	3.65	2.1	329.7		0.00	0.00	0.00	1.20		10.35	18.92	83.84	86.68	01-Jun-17 15:00:00		10.35	18.92	83.84	87.88
01-Jun-17 16:00:00	01-Jun-17 17:00:00		0.00	0.00	0.00	3.82	2.1	329.7		0.00	0.00	0.00	1.26		10.35	18.92	83.84	86.68	01-Jun-17 16:00:00		10.35	18.92	83.84	87.94
01-Jun-17 17:00:00	01-Jun-17 18:00:00		0.00	0.00	0.00	3.99	2.1	329.7		0.00	0.00	0.00	1.32		10.35	18.92	83.84	86.68	01-Jun-17 17:00:00		10.35	18.92	83.84	88.00
01-Jun-17 18:00:00	01-Jun-17 19:00:00		0.00	0.00	0.00	4.18	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	01-Jun-17 18:00:00		10.35	18.92	83.84	88.06
01-Jun-17 19:00:00	01-Jun-17 20:00:00		0.00	0.00	0.00	4.35	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	01-Jun-17 19:00:00		10.35	18.92	83.84	88.11
01-Jun-17 20:00:00	01-Jun-17 21:00:00		0.00	0.00	0.00	4.39	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	01-Jun-17 20:00:00		10.35	18.92	83.84	88.13
01-Jun-17 21:00:00	01-Jun-17 22:00:00		0.00	0.00	0.00	4.43	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	01-Jun-17 21:00:00		10.35	18.92	83.84	88.14
01-Jun-17 22:00:00	01-Jun-17 23:00:00		0.00	0.00	0.00	4.43	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	01-Jun-17 22:00:00		10.35	18.92	83.84	88.14
01-Jun-17 23:00:00	02-Jun-17 00:00:00		0.00	0.00	0.00	4.34	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	01-Jun-17 23:00:00		10.35	18.92	83.84	88.11
02-Jun-17 00:00:00	02-Jun-17 01:00:00		0.30	0.00	0.00	4.45	2.1	329.7		0.10	0.00	0.00	1.47		10.35	18.92	83.84	86.68	02-Jun-17 00:00:00		10.45	18.92	83.84	88.15
02-Jun-17 01:00:00	02-Jun-17 02:00:00		1.05	0.00	0.00	4.55	2.1	329.7		0.35	0.00	0.00	1.50		10.35	18.92	83.84	86.68	02-Jun-17 01:00:00		10.70	18.92	83.84	88.18
02-Jun-17 02:00:00	02-Jun-17 03:00:00		0.00	0.00	0.00	4.65	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	02-Jun-17 02:00:00		10.35	18.92	83.84	88.21
02-Jun-17 03:00:00	02-Jun-17 04:00:00		0.00	0.00	0.00	4.74	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	02-Jun-17 03:00:00		10.35	18.92	83.84	88.24
02-Jun-17 04:00:00	02-Jun-17 05:00:00		0.00	0.00	0.00	4.88	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	02-Jun-17 04:00:00		10.35	18.92	83.84	88.29
02-Jun-17 05:00:00	02-Jun-17 06:00:00		0.00	0.00	0.00	5.03	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	02-Jun-17 05:00:00		10.35	18.92	83.84	88.34
02-Jun-17 06:00:00	02-Jun-17 07:00:00		0.00	0.00	0.00	5.18	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	02-Jun-17 06:00:00		10.35	18.92	83.84	88.39
02-Jun-17 07:00:00	02-Jun-17 08:00:00		0.00	0.00	0.00	5.10	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	02-Jun-17 07:00:00		10.35	18.92	83.84	88.36
02-Jun-17 08:00:00	02-Jun-17 09:00:00		0.11	0.00	0.00	4.79	2.1	329.7		0.04	0.00	0.00	1.58		10.35	18.92	83.84	86.68	02-Jun-17 08:00:00		10.39	18.92	83.84	88.26
02-Jun-17 09:00:00	02-Jun-17 10:00:00		0.00	0.00	0.00	4.48	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	02-Jun-17 09:00:00		10.35	18.92	83.84	88.16
02-Jun-17 10:00:00	02-Jun-17 11:00:00		0.00	0.00	0.00	4.18	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	02-Jun-17 10:00:00		10.35	18.92	83.84	88.06
02-Jun-17 11:00:00	02-Jun-17 12:00:00		0.00	0.00	0.00	3.99	2.1	329.7		0.00	0.00	0.00	1.32		10.35	18.92	83.84	86.68	02-Jun-17 11:00:00		10.35	18.92	83.84	88.00
02-Jun-17 12:00:00	02-Jun-17 13:00:00		0.00	0.00	0.00	3.87	2.1	329.7		0.00	0.00	0.00	1.27		10.35	18.92	83.84	86.68	02-Jun-17 12:00:00		10.35	18.92	83.84	87.95
02-Jun-17 13:00:00	02-Jun-17 14:00:00		0.00	0.00	0.00	3.74	2.1	329.7		0.00	0.00	0.00	1.23		10.35	18.92	83.84	86.68	02-Jun-17 13:00:00		10.35	18.92	83.84	87.91
02-Jun-17 14:00:00	02-Jun-17 15:00:00		0.00	0.00	0.00	3.62	2.1	329.7		0.00	0.00	0.00	1.19		10.35	18.92	83.84	86.68	02-Jun-17 14:00:00		10.35	18.92	83.84	87.87
02-Jun-17 15:00:00	02-Jun-17 16:00:00		0.00	0.00	0.00	3.58	2.1	329.7		0.00	0.00	0.00	1.18		10.35	18.92	83.84	86.68	02-Jun-17 15:00:00		10.35	18.92	83.84	87.86
02-Jun-17 16:00:00	02-Jun-17 17:00:00		0.00	0.00	0.00	3.59	2.1	329.7		0.00	0.00	0.00	1.18		10.35	18.92	83.84	86.68	02-Jun-17 16:00:00		10.35	18.92	83.84	87.86
02-Jun-17 17:00:00	02-Jun-17 18:00:00		0.00	0.00	0.00	3.60	2.1	329.7		0.00	0.00	0.00	1.19		10.35	18.92	83.84	86.68	02-Jun-17 17:00:00		10.35	18.92	83.84	87.87
02-Jun-17 18:00:00	02-Jun-17 19:00:00		0.00	0.00	0.00	3.60	2.1	329.7		0.00	0.00	0.00	1.19		10.35	18.92	83.84	86.68	02-Jun-17 18:00:00		10.35	18.92	83.84	87.87
02-Jun-17 19:00:00	02-Jun-17 20:00:00		0.00	0.00	0.00	3.74	2.1	329.7		0.00	0.00	0.00	1.23		10.35	18.92	83.84	86.68	02-Jun-17 19:00:00		10.35	18.92	83.84	87.91
02-Jun-17 20:00:00	02-Jun-17 21:00:00		0.58	0.00	0.00	4.01	2.1	329.7		0.19	0.00	0.00	1.32		10.35	18.92	83.84	86.68	02-Jun-17 20:00:00		10.54	18.92	83.84	88.00
02-Jun-17 21:00:00	02-Jun-17 22:00:00		1.91	0.00	0.00	4.29	2.1	329.7		0.63	0.00	0.00	1.41		10.35	18.92	83.84	86.68	02-Jun-17 21:00:00		10.98	18.92	83.84	88.09
02-Jun-17 22:00:00	02-Jun-17 23:00:00		1.20	0.00	0.00	4.56	2.1	329.7		0.39	0.00	0.00	1.50		10.35	18.92	83.84	86.68	02-Jun-17 22:00:00		10.74	18.92	83.84	88.18
02-Jun-17 23:00:00	03-

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
04-Jun-17 23:00:00	05-Jun-17 00:00:00		0.00	0.00	0.00	5.03	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	04-Jun-17 23:00:00		10.35	18.92	83.84	88.34
05-Jun-17 00:00:00	05-Jun-17 01:00:00		0.00	0.00	0.00	4.85	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	05-Jun-17 00:00:00		10.35	18.92	83.84	88.28
05-Jun-17 01:00:00	05-Jun-17 02:00:00		0.00	0.00	0.00	7.86	2.1	329.7		0.00	0.00	0.00	2.59		10.35	18.92	83.84	86.68	05-Jun-17 01:00:00		10.35	18.92	83.84	89.27
05-Jun-17 02:00:00	05-Jun-17 03:00:00		0.00	0.00	0.00	4.60	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	05-Jun-17 02:00:00		10.35	18.92	83.84	88.20
05-Jun-17 03:00:00	05-Jun-17 04:00:00		0.00	0.00	0.00	4.63	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	05-Jun-17 03:00:00		10.35	18.92	83.84	88.21
05-Jun-17 04:00:00	05-Jun-17 05:00:00		0.00	0.00	0.00	4.65	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	05-Jun-17 04:00:00		10.35	18.92	83.84	88.21
05-Jun-17 05:00:00	05-Jun-17 06:00:00		0.00	0.00	0.00	4.69	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	05-Jun-17 05:00:00		10.35	18.92	83.84	88.23
05-Jun-17 06:00:00	05-Jun-17 07:00:00		0.00	0.00	0.00	4.69	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	05-Jun-17 06:00:00		10.35	18.92	83.84	88.23
05-Jun-17 07:00:00	05-Jun-17 08:00:00		0.00	0.00	0.00	4.68	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	05-Jun-17 07:00:00		10.35	18.92	83.84	88.22
05-Jun-17 08:00:00	05-Jun-17 09:00:00		0.00	0.00	0.00	4.67	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	05-Jun-17 08:00:00		10.35	18.92	83.84	88.22
05-Jun-17 09:00:00	05-Jun-17 10:00:00		0.00	0.00	0.00	4.71	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	05-Jun-17 09:00:00		10.35	18.92	83.84	88.23
05-Jun-17 10:00:00	05-Jun-17 11:00:00		0.00	0.00	0.00	4.74	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	05-Jun-17 10:00:00		10.35	18.92	83.84	88.24
05-Jun-17 11:00:00	05-Jun-17 12:00:00		0.00	0.00	0.00	4.75	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	05-Jun-17 11:00:00		10.35	18.92	83.84	88.25
05-Jun-17 12:00:00	05-Jun-17 13:00:00		0.00	0.00	0.00	4.76	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	05-Jun-17 12:00:00		10.35	18.92	83.84	88.25
05-Jun-17 13:00:00	05-Jun-17 14:00:00		0.00	0.00	0.00	4.66	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	05-Jun-17 13:00:00		10.35	18.92	83.84	88.22
05-Jun-17 14:00:00	05-Jun-17 15:00:00		87.50	439.25	0.00	4.52	2.1	329.7		28.85	144.82	0.00	1.49		10.35	18.92	83.84	86.68	05-Jun-17 14:00:00		39.20	163.74	83.84	88.17
05-Jun-17 15:00:00	05-Jun-17 16:00:00		360.20	803.11	0.00	4.42	2.1	329.7		118.76	264.78	0.00	1.46		10.35	18.92	83.84	86.68	05-Jun-17 15:00:00		129.11	283.70	83.84	88.14
05-Jun-17 16:00:00	05-Jun-17 17:00:00		365.03	1,229.22	0.00	4.31	2.1	329.7		120.35	405.27	0.00	1.42		10.35	18.92	83.84	86.68	05-Jun-17 16:00:00		130.70	424.19	83.84	88.10
05-Jun-17 17:00:00	05-Jun-17 18:00:00		257.05	1,236.12	0.00	177.59	2.1	329.7		84.75	407.55	0.00	58.55		10.35	18.92	83.84	86.68	05-Jun-17 17:00:00		95.10	426.47	83.84	145.23
05-Jun-17 18:00:00	05-Jun-17 19:00:00		0.00	1,380.47	0.00	4.81	2.1	329.7		0.00	455.14	0.00	1.59		10.35	18.92	83.84	86.68	05-Jun-17 18:00:00		10.35	474.06	83.84	88.27
05-Jun-17 19:00:00	05-Jun-17 20:00:00		0.00	944.63	0.00	13.20	2.1	329.7		0.00	311.44	0.00	4.35		10.35	18.92	83.84	86.68	05-Jun-17 19:00:00		10.35	330.36	83.84	91.03
05-Jun-17 20:00:00	05-Jun-17 21:00:00		0.00	1,176.55	0.00	5.51	2.1	329.7		0.00	387.91	0.00	1.82		10.35	18.92	83.84	86.68	05-Jun-17 20:00:00		10.35	406.83	83.84	88.50
05-Jun-17 21:00:00	05-Jun-17 22:00:00		0.00	1,044.25	0.00	4.99	2.1	329.7		0.00	344.29	0.00	1.64		10.35	18.92	83.84	86.68	05-Jun-17 21:00:00		10.35	363.21	83.84	88.32
05-Jun-17 22:00:00	05-Jun-17 23:00:00		0.00	989.01	0.00	4.85	2.1	329.7		0.00	326.08	0.00	1.60		10.35	18.92	83.84	86.68	05-Jun-17 22:00:00		10.35	345.00	83.84	88.28
05-Jun-17 23:00:00	06-Jun-17 00:00:00		0.00	992.23	0.00	4.71	2.1	329.7		0.00	327.14	0.00	1.55		10.35	18.92	83.84	86.68	05-Jun-17 23:00:00		10.35	346.06	83.84	88.23
06-Jun-17 00:00:00	06-Jun-17 01:00:00		0.00	991.83	0.00	4.66	2.1	329.7		0.00	327.01	0.00	1.54		10.35	18.92	83.84	86.68	06-Jun-17 00:00:00		10.35	345.93	83.84	88.22
06-Jun-17 01:00:00	06-Jun-17 02:00:00		0.00	991.83	0.00	14.44	2.1	329.7		0.00	327.01	0.00	4.76		10.35	18.92	83.84	86.68	06-Jun-17 01:00:00		10.35	345.93	83.84	91.44
06-Jun-17 02:00:00	06-Jun-17 03:00:00		0.00	933.83	0.00	186.86	2.1	329.7		0.00	307.88	0.00	61.61		10.35	18.92	83.84	86.68	06-Jun-17 02:00:00		10.35	326.80	83.84	148.29
06-Jun-17 03:00:00	06-Jun-17 04:00:00		0.00	934.75	0.00	186.48	2.1	329.7		0.00	308.19	0.00	61.48		10.35	18.92	83.84	86.68	06-Jun-17 03:00:00		10.35	327.11	83.84	148.16
06-Jun-17 04:00:00	06-Jun-17 05:00:00		0.00	938.64	0.00	186.10	2.1	329.7		0.00	309.47	0.00	61.36		10.35	18.92	83.84	86.68	06-Jun-17 04:00:00		10.35	328.39	83.84	148.04
06-Jun-17 05:00:00	06-Jun-17 06:00:00		0.00	934.73	0.00	185.72	2.1	329.7		0.00	308.18	0.00	61.23		10.35	18.92	83.84	86.68	06-Jun-17 05:00:00		10.35	327.10	83.84	147.91
06-Jun-17 06:00:00	06-Jun-17 07:00:00		0.00	585.93	0.00	185.78	2.1	329.7		0.00	193.18	0.00	61.25		10.35	18.92	83.84	86.68	06-Jun-17 06:00:00		10.35	212.10	83.84	147.93
06-Jun-17 07:00:00	06-Jun-17 08:00:00		0.00	493.26	0.00	186.19	2.1	329.7		0.00	162.63	0.00	61.39		10.35	18.92	83.84	86.68	06-Jun-17 07:00:00		10.35	181.55	83.84	148.07
06-Jun-17 08:00:00	06-Jun-17 09:00:00		0.00	258.60	0.00	187.98	2.1	329.7		0.00	85.26	0.00	61.98		10.35	18.92	83.84	86.68	06-Jun-17 08:00:00		10.35	104.18	83.84	148.66
06-Jun-17 09:00:00	06-Jun-17 10:00:00		0.00	0.00	0.00	187.95	2.1	329.7		0.00	0.00	0.00	61.97		10.35	18.92	83.84	86.68	06-Jun-17 09:00:00		10.35	18.92	83.84	148.65
06-Jun-17 10:00:00	06-Jun-17 11:00:00		0.00	0.00	0.00	41.03	2.1	329.7		0.00	0.00	0.00	13.53		10.35	18.92	83.84	86.68	06-Jun-17 10:00:00		10.35	18.92	83.84	100.21
06-Jun-17 11:00:00	06-Jun-17 12:00:00		0.00	0.00	0.00	4.16	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	06-Jun-17 11:00:00		10.35	18.92	83.84	88.05
06-Jun-17 12:00:00	06-Jun-17 13:00:00		0.00	0.00	0.00	4.19	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	06-Jun-17 12:00:00		10.35	18.92	83.84	88.06
06-Jun-17 13:00:00	06-Jun-17 14:00:00		0.00	0.00	0.00	4.23	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	06-Jun-17 13:00:00		10.35	18.92	83.84	88.07
06-Jun-17 14:00:00	06-Jun-17 15:00:00		0.00	0.00	0.00	4.32	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	06-Jun-17 14:00:00		10.35	18.92	83.84	88.10
06-Jun-17 15:00:00	06-Jun-17 16:00:00		0.00	0.00	0.00	4.38	2.1	329.7		0.00	0.00	0.00	1.44		10.35	18.92	83.84	86.68	06-Jun-17 15:00:00		10.35	18.92	83.84	88.12
06-Jun-17 16:00:00	06-Jun-17 17:00:00		0.00	0.00	0.00	4.40	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	06-Jun-17 16:00:00		10.35	18.92	83.84	88.13
06-Jun-17 17:00:00	06-Jun-17 18:00:00		0.00	0.00	0.00	4.43	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	06-Jun-17 17:00:00		10.35	18.92	83.84	88.14
06-Jun-17 18:00:00	06-Jun-17 19:00:00		0.00	0.00	0.00	4.53	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	06-Jun-17 18:00:00		10.35	18.92	83.84	88.17
06-Jun-17 19:00:00	06-Jun-17 20:00:00		0.00	0.00	0.00	4.60	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	06-Jun-17 19:00:00		10.35	18.92	83.84	88.20
06-Jun-17 20:00:00	06-Jun-17 21:00:00		0.00	0.00	0.00	4.64	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	06-Jun-17 20:00:00		10.35	18.92	83.84	88.21
06-Jun-17 21:00:00	06-Jun-17 22:00:00		0.00	0.00	0.00	4.67	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	06-Jun-17 21:00:00		10.35	18.92	83.84	88.22
06-Jun-17 22:00:00	06-Jun-17 23:00:00		0.00	0.00	0.00	4.69	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	06-Jun-17 22:00:00		10.35	18.92	83.84	88.23
06-Jun-17 23:00:00	07-Jun-17 00:00:00		0.00	0.00	0.00	4.78	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	06-Jun-17 23:00:00		10.35	18.92	83.84	88.26
07-Jun-17 00:00:00	07-Jun-17 01:00:00		0.00	0.00	0.00	4.89	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	07-Jun-17 00:00:00		10.35	18.92	83.84	88.29
07-Jun-17 01:00:00	07-Jun-17 02:00:00		0.00	0.00	0.00	5.01	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	07-Jun-17 01:00:00		10.35	18.92	83.84	88.33
07-Jun-17 02:00:00	07-Jun-17 03:00:00		0.00	0.00	0.00	4.98	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	07-Jun-17 02:00:00		10.35	18.92	83.84	88.32
07-Jun-17 03:00:00	07-Jun-17 04:00:00		0.00	0.00	0.00	4.99	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	07-Jun-17 03:00:00		10.35	18.92	83.84	88.32
07-Jun-17 04:00:00	07-Jun-17 05:00:00		0.00	0.00	0.00	5.07	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	07-Jun-17 04:00:00		10.35	18.92	83.84	88.35
07-Jun-17 05:00:00	07-Jun-17 06:00:00		0.00	0.00	0.00	5.15	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	07-Jun-17 05:00:00		10.35	18.92	83.84	88.38
07-Jun-17 06:00:00	07-Jun-17 07:00:00		0.00	0.00	0.00	5.19	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	07-Jun-17 06:00:00		10.35	18.92	83.84	88.39
07-Jun-17 07:00:00	07-Jun-17 08:00:00		0.00	0.00	0.00	5.20	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	07-Jun-17 07:00:00		10.35	18.92	83.84	88.39
07-Jun-17 08:00:00	07-Jun-17 09:00:00		0.00	0.00	0.00	5.21	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	07-Jun-17 08:00:00		10.35	18.92	83.84	88.40
07-Jun-17 09:00:00	07-Jun-17 10:00:00		0.00	0.00	0.00	5.22	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	07-Jun-17 09:00:00		10.35	18.92	83.84	88.40
07-Jun-17 10:00:00	07-Jun-17 11:00:00		0.00	0.00	0.00	5.28	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	07-Jun-17 10:00:00		10.35	18.92	83.84	88.42
07-Jun-17 11:00:00	07-Jun-17 12:00:00		0.00	0.00	0.00	5.23	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	07-Jun-17 11:00:00		10.35	18.92	83.84	88.40
07-Jun-17 12:00:00	07-Jun-17 13:00:00		0.00	0.00	0.00	5.14	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	07-Jun-17 12:00:00		10.35	18.92	83.84	88.37
07-Jun-17 13:00:00	07-Jun-17 14:00:00		0.00	0.00	0.00	5.05	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	07-Jun-17 13:00:00		10.35	18.92	83.84	88.34
07-Jun-17 14:00:00	07-Jun-17 15:00:00		0.00	0.00	0.00	4.87	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	07-Jun-17 14:00:00		10.35	18.92	83.84	88.29
07-Jun-17 15:00:00	07-Jun-17 16:00:00		0.00	0.00	0.00	4.88	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	07-Jun-17 15:00:00		10.35	18.92	83.84	88.29
07-Jun-17 16:00:00	07-Jun-17 17:00:00		0.00	0.00	0.00	4.97	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	07-Jun-17 16:00:00		10.35	18.92	83.84	88.32
07-Jun-17 17:00:00	07-Jun-17 18:00:00		0.00	0.00	0.00	5.07	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	07-Jun-17 17:00:00		10.35	18.92	83.84	88.35
07-Jun-17 18:00:00	07-Jun-17 19:00:00		0.00	0.00	0.00	4.97	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	07-Jun-17 18:00:00		10.35	18.92	83.84	88.32
07-Jun-17 19:00:00	07-Jun-17 20:00:00		0.00	0.00	0.00	4.97	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	07-Jun-17 19:00:00		10.35	18.92	83.84	88.32
07-Jun-17 20:00:00	07-Jun-17 21:00:00		0.00	0.00	0.00	5.09	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	07-Jun-17 20:00:00		10.35	18.92	83.84	88.36
07-Jun-17 21:00:00	07-Jun-17 22:00:00		0.00	0.00	0.00	5.21	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	07-Jun-17 21:00:00		10.35	18.92	83.84	88.40
07-Jun-17 22:00:00	07-Jun-17 23:00:00		0.00	0.00	0.00	5.36	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	07-Jun-17 22:00:00		10.35	18.92	83.84	88.45
07-Jun-17 23:00:00	08-Jun-17 00:00:00		0.00	0.00	0.00	5.38	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	07-Jun-17 23:00:00		10.35	18.92	83.84	88.45
08-Jun-17 00:00:00	08-Jun-17 01:00:00		0.00	0.00	0.00	5.36	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	08-Jun-17 00:00:00		10.35	18.92	83.84	88.45
08-Jun-17 01:00:00	08-Jun-17 02:00:00		0.00	0.00	0.00	5.34	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	08-Jun-17 01:00:00		10.35	18.92	83.84	88.44
08-Jun-17 02:00:00	08-Jun-17 03:00:00		0.00	0.00	0.00	5.34	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	08-Jun-17 02:00:00		10.35	18.92	83.84	88.44
08-Jun-17 03:00:00	08-Jun-17 04:00:00		0.00	0.00	0.00	5.46	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	08-Jun-17 03:00:00		10.35	18.92	83.84	88.48
08-Jun-17 04:00:00	08-Jun-17 05:00:00		0.00	0.00	0.00	5.59	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	08-Jun-17 04:00:00		10.35	18.92	83.84	88.52
08-Jun-17 05:00:00	08-Jun-17 06:00:00		0.00	0.00	0.00	5.72	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	08-Jun-17 05:00:00		10.35	18.92	83.84	88.57
08-Jun-17 06:00:00	08-Jun-17 07:00:00		0.00	0.00	0.00	5.78	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	08-Jun-17 06:00:00		10.35	18.92	83.84	88.59
08-Jun-17 07:00:00	08-Jun-17 08:00:00		0.00	0.00	0.00	5.71	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	08-Jun-17 07:00:00		10.35	18.92	83.84	88.56
08-Jun-17 08:00:00	08-Jun-17 09:00:00		0.00	0.00	0.00	5.64	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	08-Jun-17 08:00:00		10.35	18.92	83.84	88.54
08-Jun-17 09:00:00	08-Jun-17 10:00:00		0.00	0.00	0.00	5.57	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	08-Jun-17 09:00:00		10.35	18.92	83.84	88.52
08-Jun-17 10:00:00	08-Jun-17 11:00:00		0.00	0.00	0.00	5.38	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	08-Jun-17 10:00:00		10.35	18.92	83.84	88.45
08-Jun-17 11:00:00	08-Jun-17 12:00:00		0.00	0.00	0.00	5.05	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	08-Jun-17 11:00:00		10.35	18.92	83.84	88.34
08-Jun-17 12:00:00	08-Jun-17 13:00:00		0.00	0.00	0.00	4.77	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	08-Jun-17 12:00:00		10.35	18.92	83.84	88.25
08-Jun-17 13:00:00	08-Jun-17 14:00:00		0.00	0.00	0.00	4.48	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	08-Jun-17 13:00:00		10.35	18.92	83.84	88.16
08-Jun-17 14:00:00	08-Jun-17 15:00:00		0.00	0.00	0.00	4.22	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	08-Jun-17 14:00:00		10.35	18.92	83.84	88.07
08-Jun-17 15:00:00	08-Jun-17 16:00:00		0.00	0.00	0.00	4.19	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	08-Jun-17 15:00:00		10.35	18.92	83.84	88.06
08-Jun-17 16:00:00	08-Jun-17 17:00:00		0.00	0.00	0.00	4.20	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	08-Jun-17 16:00:00		10.35	18.92	83.84	88.07
08-Jun-17 17:00:00	08-Jun-17 18:00:00		432.54	0.00	0.00	4.22	2.1	329.7		142.61	0.00	0.00	1.39		10.35	18.92	83.84	86.68	08-Jun-17 17:00:00		152.96	18.92	83.84	88.07
08-Jun-17 18:00:00	08-Jun-17 19:00:00		534.24	0.00	0.00	4.21	2.1	329.7		176.14	0.00	0.00	1.39		10.35	18.92	83.84	86.68	08-Jun-17 18:00:00		186.49	18.92	83.84	88.07
08-Jun-17 19:00:00	08-Jun-17 20:00:00		567.47	0.00	0.00	4.27	2.1	329.7		187.09	0.00	0.00	1.41		10.35	18.92	83.84	86.68	08-Jun-17 19:00:00		197.44	18.92	83.84	88.09
08-Jun-17 20:00:00	08-Jun-17 21:00:00		698.30	0.00	0

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
10-Jun-17 22:00:00	10-Jun-17 23:00:00		916.32	0.00	0.00	4.04	2.1	329.7		302.11	0.00	0.00	1.33		10.35	18.92	83.84	86.68	10-Jun-17 22:00:00		312.46	18.92	83.84	88.01
10-Jun-17 23:00:00	11-Jun-17 00:00:00		817.33	0.00	0.00	4.29	2.1	329.7		269.47	0.00	0.00	1.41		10.35	18.92	83.84	86.68	10-Jun-17 23:00:00		279.82	18.92	83.84	88.09
11-Jun-17 00:00:00	11-Jun-17 01:00:00		841.95	0.00	0.00	4.45	2.1	329.7		277.59	0.00	0.00	1.47		10.35	18.92	83.84	86.68	11-Jun-17 00:00:00		287.94	18.92	83.84	88.15
11-Jun-17 01:00:00	11-Jun-17 02:00:00		874.07	0.00	0.00	4.54	2.1	329.7		288.18	0.00	0.00	1.50		10.35	18.92	83.84	86.68	11-Jun-17 01:00:00		298.53	18.92	83.84	88.18
11-Jun-17 02:00:00	11-Jun-17 03:00:00		743.28	0.00	0.00	4.65	2.1	329.7		245.06	0.00	0.00	1.53		10.35	18.92	83.84	86.68	11-Jun-17 02:00:00		255.41	18.92	83.84	88.21
11-Jun-17 03:00:00	11-Jun-17 04:00:00		92.16	0.00	0.00	4.76	2.1	329.7		30.38	0.00	0.00	1.57		10.35	18.92	83.84	86.68	11-Jun-17 03:00:00		40.73	18.92	83.84	88.25
11-Jun-17 04:00:00	11-Jun-17 05:00:00		0.00	0.00	0.00	4.77	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	11-Jun-17 04:00:00		10.35	18.92	83.84	88.25
11-Jun-17 05:00:00	11-Jun-17 06:00:00		0.00	0.00	0.00	4.84	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	11-Jun-17 05:00:00		10.35	18.92	83.84	88.28
11-Jun-17 06:00:00	11-Jun-17 07:00:00		0.00	0.00	0.00	4.97	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	11-Jun-17 06:00:00		10.35	18.92	83.84	88.32
11-Jun-17 07:00:00	11-Jun-17 08:00:00		0.00	0.00	0.00	5.10	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	11-Jun-17 07:00:00		10.35	18.92	83.84	88.36
11-Jun-17 08:00:00	11-Jun-17 09:00:00		0.00	0.00	0.00	5.15	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	11-Jun-17 08:00:00		10.35	18.92	83.84	88.38
11-Jun-17 09:00:00	11-Jun-17 10:00:00		0.00	0.00	0.00	4.93	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	11-Jun-17 09:00:00		10.35	18.92	83.84	88.30
11-Jun-17 10:00:00	11-Jun-17 11:00:00		0.00	0.00	0.00	4.67	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	11-Jun-17 10:00:00		10.35	18.92	83.84	88.22
11-Jun-17 11:00:00	11-Jun-17 12:00:00		0.35	0.00	0.00	4.42	2.1	329.7		0.12	0.00	0.00	1.46		10.35	18.92	83.84	86.68	11-Jun-17 11:00:00		10.47	18.92	83.84	88.14
11-Jun-17 12:00:00	11-Jun-17 13:00:00		1.75	0.00	0.00	4.16	2.1	329.7		0.58	0.00	0.00	1.37		10.35	18.92	83.84	86.68	11-Jun-17 12:00:00		10.93	18.92	83.84	88.05
11-Jun-17 13:00:00	11-Jun-17 14:00:00		1.07	0.00	0.00	4.01	2.1	329.7		0.35	0.00	0.00	1.32		10.35	18.92	83.84	86.68	11-Jun-17 13:00:00		10.70	18.92	83.84	88.00
11-Jun-17 14:00:00	11-Jun-17 15:00:00		0.10	0.00	0.00	3.91	2.1	329.7		0.03	0.00	0.00	1.29		10.35	18.92	83.84	86.68	11-Jun-17 14:00:00		10.38	18.92	83.84	87.97
11-Jun-17 15:00:00	11-Jun-17 16:00:00		0.00	0.00	0.00	3.80	2.1	329.7		0.00	0.00	0.00	1.25		10.35	18.92	83.84	86.68	11-Jun-17 15:00:00		10.35	18.92	83.84	87.93
11-Jun-17 16:00:00	11-Jun-17 17:00:00		0.00	0.00	0.00	3.63	2.1	329.7		0.00	0.00	0.00	1.20		10.35	18.92	83.84	86.68	11-Jun-17 16:00:00		10.35	18.92	83.84	87.88
11-Jun-17 17:00:00	11-Jun-17 18:00:00		0.00	0.00	0.00	3.61	2.1	329.7		0.00	0.00	0.00	1.19		10.35	18.92	83.84	86.68	11-Jun-17 17:00:00		10.35	18.92	83.84	87.87
11-Jun-17 18:00:00	11-Jun-17 19:00:00		0.00	0.00	0.00	3.67	2.1	329.7		0.00	0.00	0.00	1.21		10.35	18.92	83.84	86.68	11-Jun-17 18:00:00		10.35	18.92	83.84	87.89
11-Jun-17 19:00:00	11-Jun-17 20:00:00		0.00	0.00	0.00	3.72	2.1	329.7		0.00	0.00	0.00	1.23		10.35	18.92	83.84	86.68	11-Jun-17 19:00:00		10.35	18.92	83.84	87.91
11-Jun-17 20:00:00	11-Jun-17 21:00:00		0.00	0.00	0.00	3.70	2.1	329.7		0.00	0.00	0.00	1.22		10.35	18.92	83.84	86.68	11-Jun-17 20:00:00		10.35	18.92	83.84	87.90
11-Jun-17 21:00:00	11-Jun-17 22:00:00		0.00	0.00	0.00	3.83	2.1	329.7		0.00	0.00	0.00	1.26		10.35	18.92	83.84	86.68	11-Jun-17 21:00:00		10.35	18.92	83.84	87.94
11-Jun-17 22:00:00	11-Jun-17 23:00:00		0.00	0.00	0.00	4.06	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	11-Jun-17 22:00:00		10.35	18.92	83.84	88.02
11-Jun-17 23:00:00	12-Jun-17 00:00:00		0.00	0.00	0.00	4.29	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	11-Jun-17 23:00:00		10.35	18.92	83.84	88.09
12-Jun-17 00:00:00	12-Jun-17 01:00:00		1.09	0.00	0.00	4.58	2.1	329.7		0.36	0.00	0.00	1.51		10.35	18.92	83.84	86.68	12-Jun-17 00:00:00		10.71	18.92	83.84	88.19
12-Jun-17 01:00:00	12-Jun-17 02:00:00		2.09	0.00	0.00	4.78	2.1	329.7		0.69	0.00	0.00	1.57		10.35	18.92	83.84	86.68	12-Jun-17 01:00:00		11.04	18.92	83.84	88.25
12-Jun-17 02:00:00	12-Jun-17 03:00:00		1.50	0.00	0.00	4.91	2.1	329.7		0.49	0.00	0.00	1.62		10.35	18.92	83.84	86.68	12-Jun-17 02:00:00		10.84	18.92	83.84	88.30
12-Jun-17 03:00:00	12-Jun-17 04:00:00		0.95	0.00	0.00	5.04	2.1	329.7		0.31	0.00	0.00	1.66		10.35	18.92	83.84	86.68	12-Jun-17 03:00:00		10.66	18.92	83.84	88.34
12-Jun-17 04:00:00	12-Jun-17 05:00:00		0.40	0.00	0.00	5.01	2.1	329.7		0.13	0.00	0.00	1.65		10.35	18.92	83.84	86.68	12-Jun-17 04:00:00		10.48	18.92	83.84	88.33
12-Jun-17 05:00:00	12-Jun-17 06:00:00		0.02	0.00	0.00	4.96	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	12-Jun-17 05:00:00		10.35	18.92	83.84	88.32
12-Jun-17 06:00:00	12-Jun-17 07:00:00		0.00	0.00	0.00	5.02	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	12-Jun-17 06:00:00		10.35	18.92	83.84	88.34
12-Jun-17 07:00:00	12-Jun-17 08:00:00		0.00	0.00	0.00	5.08	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	12-Jun-17 07:00:00		10.35	18.92	83.84	88.35
12-Jun-17 08:00:00	12-Jun-17 09:00:00		0.00	0.00	0.00	4.99	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	12-Jun-17 08:00:00		10.35	18.92	83.84	88.33
12-Jun-17 09:00:00	12-Jun-17 10:00:00		0.00	0.00	0.00	4.68	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	12-Jun-17 09:00:00		10.35	18.92	83.84	88.22
12-Jun-17 10:00:00	12-Jun-17 11:00:00		0.00	0.00	0.00	4.42	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	12-Jun-17 10:00:00		10.35	18.92	83.84	88.14
12-Jun-17 11:00:00	12-Jun-17 12:00:00		0.00	0.00	0.00	4.16	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	12-Jun-17 11:00:00		10.35	18.92	83.84	88.05
12-Jun-17 12:00:00	12-Jun-17 13:00:00		1.34	0.00	0.00	4.01	2.1	329.7		0.44	0.00	0.00	1.32		10.35	18.92	83.84	86.68	12-Jun-17 12:00:00		10.79	18.92	83.84	88.00
12-Jun-17 13:00:00	12-Jun-17 14:00:00		1.34	0.00	0.00	3.94	2.1	329.7		0.44	0.00	0.00	1.30		10.35	18.92	83.84	86.68	12-Jun-17 13:00:00		10.79	18.92	83.84	87.98
12-Jun-17 14:00:00	12-Jun-17 15:00:00		0.00	0.00	0.00	3.82	2.1	329.7		0.00	0.00	0.00	1.26		10.35	18.92	83.84	86.68	12-Jun-17 14:00:00		10.35	18.92	83.84	87.94
12-Jun-17 15:00:00	12-Jun-17 16:00:00		0.00	0.00	0.00	3.70	2.1	329.7		0.00	0.00	0.00	1.22		10.35	18.92	83.84	86.68	12-Jun-17 15:00:00		10.35	18.92	83.84	87.90
12-Jun-17 16:00:00	12-Jun-17 17:00:00		0.00	0.00	0.00	3.65	2.1	329.7		0.00	0.00	0.00	1.20		10.35	18.92	83.84	86.68	12-Jun-17 16:00:00		10.35	18.92	83.84	87.88
12-Jun-17 17:00:00	12-Jun-17 18:00:00		0.00	0.00	0.00	3.79	2.1	329.7		0.00	0.00	0.00	1.25		10.35	18.92	83.84	86.68	12-Jun-17 17:00:00		10.35	18.92	83.84	87.93
12-Jun-17 18:00:00	12-Jun-17 19:00:00		0.00	0.00	0.00	3.93	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	12-Jun-17 18:00:00		10.35	18.92	83.84	87.98
12-Jun-17 19:00:00	12-Jun-17 20:00:00		0.00	0.00	0.00	4.07	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	12-Jun-17 19:00:00		10.35	18.92	83.84	88.02
12-Jun-17 20:00:00	12-Jun-17 21:00:00		0.00	0.00	0.00	4.27	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	12-Jun-17 20:00:00		10.35	18.92	83.84	88.09
12-Jun-17 21:00:00	12-Jun-17 22:00:00		0.00	0.00	0.00	4.37	2.1	329.7		0.00	0.00	0.00	1.44		10.35	18.92	83.84	86.68	12-Jun-17 21:00:00		10.35	18.92	83.84	88.12
12-Jun-17 22:00:00	12-Jun-17 23:00:00		0.00	0.00	0.00	4.40	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	12-Jun-17 22:00:00		10.35	18.92	83.84	88.13
12-Jun-17 23:00:00	13-Jun-17 00:00:00		4.72	0.00	0.00	4.43	2.1	329.7		1.56	0.00	0.00	1.46		10.35	18.92	83.84	86.68	12-Jun-17 23:00:00		11.91	18.92	83.84	88.14
13-Jun-17 00:00:00	13-Jun-17 01:00:00		74.61	0.00	0.00	4.48	2.1	329.7		24.60	0.00	0.00	1.48		10.35	18.92	83.84	86.68	13-Jun-17 00:00:00		34.95	18.92	83.84	88.16
13-Jun-17 01:00:00	13-Jun-17 02:00:00		90.74	0.00	0.00	4.54	2.1	329.7		29.92	0.00	0.00	1.50		10.35	18.92	83.84	86.68	13-Jun-17 01:00:00		40.27	18.92	83.84	88.18
13-Jun-17 02:00:00	13-Jun-17 03:00:00		0.00	0.00	0.00	4.58	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	13-Jun-17 02:00:00		10.35	18.92	83.84	88.19
13-Jun-17 03:00:00	13-Jun-17 04:00:00		0.63	0.00	0.00	4.61	2.1	329.7		0.21	0.00	0.00	1.52		10.35	18.92	83.84	86.68	13-Jun-17 03:00:00		10.56	18.92	83.84	88.20
13-Jun-17 04:00:00	13-Jun-17 05:00:00		0.27	0.00	0.00	4.66	2.1	329.7		0.09	0.00	0.00	1.53		10.35	18.92	83.84	86.68	13-Jun-17 04:00:00		10.44	18.92	83.84	88.21
13-Jun-17 05:00:00	13-Jun-17 06:00:00		0.19	0.00	0.00	5.12	2.1	329.7		0.06	0.00	0.00	1.69		10.35	18.92	83.84	86.68	13-Jun-17 05:00:00		10.41	18.92	83.84	88.37
13-Jun-17 06:00:00	13-Jun-17 07:00:00		0.11	0.00	0.00	4.78	2.1	329.7		0.04	0.00	0.00	1.57		10.35	18.92	83.84	86.68	13-Jun-17 06:00:00		10.39	18.92	83.84	88.25
13-Jun-17 07:00:00	13-Jun-17 08:00:00		0.03	0.00	0.00	4.78	2.1	329.7		0.01	0.00	0.00	1.58		10.35	18.92	83.84	86.68	13-Jun-17 07:00:00		10.36	18.92	83.84	88.26
13-Jun-17 08:00:00	13-Jun-17 09:00:00		0.00	0.00	0.00	4.79	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	13-Jun-17 08:00:00		10.35	18.92	83.84	88.26
13-Jun-17 09:00:00	13-Jun-17 10:00:00		67.91	0.00	0.00	4.73	2.1	329.7		22.39	0.00	0.00	1.56		10.35	18.92	83.84	86.68	13-Jun-17 09:00:00		32.74	18.92	83.84	88.24
13-Jun-17 10:00:00	13-Jun-17 11:00:00		756.33	0.00	0.00	4.51	2.1	329.7		249.36	0.00	0.00	1.49		10.35	18.92	83.84	86.68	13-Jun-17 10:00:00		259.71	18.92	83.84	88.17
13-Jun-17 11:00:00	13-Jun-17 12:00:00		1,335.68	0.00	0.00	4.31	2.1	329.7		440.37	0.00	0.00	1.42		10.35	18.92	83.84	86.68	13-Jun-17 11:00:00		450.72	18.92	83.84	88.10
13-Jun-17 12:00:00	13-Jun-17 13:00:00		1,260.30	0.00	0.00	4.12	2.1	329.7		415.52	0.00	0.00	1.36		10.35	18.92	83.84	86.68	13-Jun-17 12:00:00		425.87	18.92	83.84	88.04
13-Jun-17 13:00:00	13-Jun-17 14:00:00		1,208.97	0.00	0.00	3.81	2.1	329.7		398.60	0.00	0.00	1.26		10.35	18.92	83.84	86.68	13-Jun-17 13:00:00		408.95	18.92	83.84	87.94
13-Jun-17 14:00:00	13-Jun-17 15:00:00		941.26	0.00	0.00	3.62	2.1	329.7		310.33	0.00	0.00	1.19		10.35	18.92	83.84	86.68	13-Jun-17 14:00:00		320.68	18.92	83.84	87.87
13-Jun-17 15:00:00	13-Jun-17 16:00:00		312.91	0.00	0.00	3.58	2.1	329.7		103.17	0.00	0.00	1.18		10.35	18.92	83.84	86.68	13-Jun-17 15:00:00		113.52	18.92	83.84	87.86
13-Jun-17 16:00:00	13-Jun-17 17:00:00		0.00	0.00	0.00	3.55	2.1	329.7		0.00	0.00	0.00	1.17		10.35	18.92	83.84	86.68	13-Jun-17 16:00:00		10.35	18.92	83.84	87.85
13-Jun-17 17:00:00	13-Jun-17 18:00:00		0.00	0.00	0.00	3.64	2.1	329.7		0.00	0.00	0.00	1.20		10.35	18.92	83.84	86.68	13-Jun-17 17:00:00		10.35	18.92	83.84	87.88
13-Jun-17 18:00:00	13-Jun-17 19:00:00		0.00	0.00	0.00	3.95	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	13-Jun-17 18:00:00		10.35	18.92	83.84	87.98
13-Jun-17 19:00:00	13-Jun-17 20:00:00		0.22	0.00	0.00	4.20	2.1	329.7		0.07	0.00	0.00	1.39		10.35	18.92	83.84	86.68	13-Jun-17 19:00:00		10.42	18.92	83.84	88.07
13-Jun-17 20:00:00	13-Jun-17 21:00:00		1.20	0.00	0.00	4.46	2.1	329.7		0.40	0.00	0.00	1.47		10.35	18.92	83.84	86.68	13-Jun-17 20:00:00		10.75	18.92	83.84	88.15
13-Jun-17 21:00:00	13-Jun-17 22:00:00		3.64	0.00	0.00	4.71	2.1	329.7		1.20	0.00	0.00	1.55		10.35	18.92	83.84	86.68	13-Jun-17 21:00:00		11.55	18.92	83.84	88.23
13-Jun-17 22:00:00	13-Jun-17 23:00:00		0.34	0.00	0.00	4.80	2.1	329.7		0.11	0.00	0.00	1.58		10.35	18.92	83.84	86.68	13-Jun-17 22:00:00		10.46	18.92	83.84	88.26
13-Jun-17 23:00:00	14-Jun-17 00:00:00		0.96	0.00	0.00	4.84	2.1	329.7		0.32	0.00	0.00	1.60		10.35	18.92	83.84	86.68	13-Jun-17 23:00:00		10.67	18.92	83.84	88.28
14-Jun-17 00:00:00	14-Jun-17 01:00:00		0.61	0.00	0.00	4.88	2.1	329.7		0.20	0.00	0.00	1.61		10.35	18.92	83.84	86.68	14-Jun-17 00:00:00		10.55	18.92	83.84	88.29
14-Jun-17 01:00:00	14-Jun-17 02:00:00		0.00	0.00	0.00	4.98	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	14-Jun-17 01:00:00		10.35	18.92	83.84	88.32
14-Jun-17 02:00:00	14-Jun-17 03:00:00		0.00	0.00	0.00	5.05	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	14-Jun-17 02:00:00		10.35	18.92	83.84	88.34
14-Jun-17 03:00:00	14-Jun-17 04:00:00		0.00	0.00	0.00	5.03	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	14-Jun-17 03:00:00		10.35	18.92	83.84	88.34
14-Jun-17 04:00:00	14-Jun-17 05:00:00		0.00	0.00	0.00	5.00	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	14-Jun-17 04:00:00		10.35	18.92	83.84	88.33
14-Jun-17 05:00:00	14-Jun-17 06:00:00		0.00	0.00	0.00	4.94	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	14-Jun-17 05:00:00		10.35	18.92	83.84	88.31
14-Jun-17 06:00:00	14-Jun-17 07:00:00		0.00	0.00	0.00	4.88	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	14-Jun-17 06:00:00		10.35	18.92	83.84	88.29
14-Jun-17 07:00:00	14-Jun-17 08:00:00		0.00	0.00	0.00	4.88	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	14-Jun-17 07:00:00		10.35	18.92	83.84	88.29
14-Jun-17 08:00:00	14-Jun-17 09:00:00		0.00	0.00	0.00	4.88	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	14-Jun-17 08:00:00		10.35	18.92	83.84	88.29
14-Jun-17 09:00:00	14-Jun-17 10:00:00		0.00	0.00	0.00	4.79	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	14-Jun-17 09:00:00		10.35	18.92	83.84	88.26
14-Jun-17 10:00:00	14-Jun-17 11:00:00		0.00	0.00	0.00	4.56	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	14-Jun-17 10:00:00		10.35	18.92	83.84	88.18
14-Jun-17 11:00:00	14-Jun-17 12:00:00		0.08	0.00	0.00	4.40	2.1	329.7		0.03	0.00	0.00	1.45		10.35	18.92	83.84	86.68	14-Jun-17 11:00:00		10.38	18.92	83.84	88.13
14-Jun-17 12:00:00	14-Jun-17 13:00:00		0.00	0.00	0.00	4.24	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	14-Jun-17 12:00:00		10.35	18.92	83.84	88.08
14-Jun-17 13:00:00	14-Jun-17 14:00:00		0.00	0.00	0.00	4.08	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	14-Jun-17 13:00:00		10.35	18.92	83.84	88.02
14-Jun-17 14:00:00	14-Jun-17 15:00:00		0.00	0.00	0.00	3.93	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	14-Jun-17 14:00:00		10.35	18.92	83.84	87.98
14-Jun-17 15:00:00	14-Jun-17 16:00:00		0.00	0.00	0.00	3.79	2.1	329.7		0.00	0.00	0.00	1.25		10.35	18.92	83.84	86.68	14-Jun-17 15:00:00		10.35	18.92	83.84	87.93
14-Jun-17 16:00:00	14-Jun-17 17:00:00		0.00	0.00	0.00	3.65	2.1	329.7		0.00	0.00	0.00	1.20		10.35	18.92	83.84	86.68	14-Jun-17 16:00:00		10.35	18.92	83.84	87.88
14-Jun-17 17:00:00	14-Jun-17 18:00:00		0.00	0.00	0.00	3.54	2.1	329.7		0.00	0.00	0.00	1.17		10.35	18.92	83.84	86.68	14-Jun-17 17:00:00		10.35	18.92	83.84	87.85
14-Jun-17 18:00:00	14-Jun-17 19:00:00		0.00	0.00	0.00	3.74	2.1	329.7		0.00	0.00	0.00	1.23		10.35	18.92	83.84	86.68	14-Jun-17 18:00:00		10.35	18.92	83.84	87.91
14-Jun-17 19:00:00	14-Jun-17 20:00:00		0.00	0.00	0.00

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
16-Jun-17 21:00:00	16-Jun-17 22:00:00		0.00	0.00	0.00	4.14	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	16-Jun-17 21:00:00		10.35	18.92	83.84	88.05
16-Jun-17 22:00:00	16-Jun-17 23:00:00		0.00	0.00	0.00	4.26	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	16-Jun-17 22:00:00		10.35	18.92	83.84	88.08
16-Jun-17 23:00:00	17-Jun-17 00:00:00		0.00	0.00	0.00	4.40	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	16-Jun-17 23:00:00		10.35	18.92	83.84	88.13
17-Jun-17 00:00:00	17-Jun-17 01:00:00		0.00	0.00	0.00	4.49	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	17-Jun-17 00:00:00		10.35	18.92	83.84	88.16
17-Jun-17 01:00:00	17-Jun-17 02:00:00		0.00	0.00	0.00	4.57	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	17-Jun-17 01:00:00		10.35	18.92	83.84	88.19
17-Jun-17 02:00:00	17-Jun-17 03:00:00		0.91	0.00	0.00	5.39	2.1	329.7		0.30	0.00	0.00	1.78		10.35	18.92	83.84	86.68	17-Jun-17 02:00:00		10.65	18.92	83.84	88.46
17-Jun-17 03:00:00	17-Jun-17 04:00:00		2.12	0.00	0.00	4.71	2.1	329.7		0.70	0.00	0.00	1.55		10.35	18.92	83.84	86.68	17-Jun-17 03:00:00		11.05	18.92	83.84	88.23
17-Jun-17 04:00:00	17-Jun-17 05:00:00		1.29	0.00	0.00	4.68	2.1	329.7		0.42	0.00	0.00	1.54		10.35	18.92	83.84	86.68	17-Jun-17 04:00:00		10.77	18.92	83.84	88.22
17-Jun-17 05:00:00	17-Jun-17 06:00:00		0.00	0.00	0.00	4.66	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	17-Jun-17 05:00:00		10.35	18.92	83.84	88.22
17-Jun-17 06:00:00	17-Jun-17 07:00:00		0.00	0.00	0.00	4.64	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	17-Jun-17 06:00:00		10.35	18.92	83.84	88.21
17-Jun-17 07:00:00	17-Jun-17 08:00:00		0.00	0.00	0.00	4.69	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	17-Jun-17 07:00:00		10.35	18.92	83.84	88.23
17-Jun-17 08:00:00	17-Jun-17 09:00:00		0.00	0.00	0.00	4.82	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	17-Jun-17 08:00:00		10.35	18.92	83.84	88.27
17-Jun-17 09:00:00	17-Jun-17 10:00:00		0.00	0.00	0.00	9.35	2.1	329.7		0.00	0.00	0.00	3.08		10.35	18.92	83.84	86.68	17-Jun-17 09:00:00		10.35	18.92	83.84	89.76
17-Jun-17 10:00:00	17-Jun-17 11:00:00		0.00	0.00	0.00	4.45	2.1	329.7		0.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	17-Jun-17 10:00:00		10.35	18.92	83.84	88.15
17-Jun-17 11:00:00	17-Jun-17 12:00:00		0.00	0.00	0.00	4.28	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	17-Jun-17 11:00:00		10.35	18.92	83.84	88.09
17-Jun-17 12:00:00	17-Jun-17 13:00:00		0.86	0.00	0.00	4.10	2.1	329.7		0.28	0.00	0.00	1.35		10.35	18.92	83.84	86.68	17-Jun-17 12:00:00		10.63	18.92	83.84	88.03
17-Jun-17 13:00:00	17-Jun-17 14:00:00		0.00	0.00	0.00	3.89	2.1	329.7		0.00	0.00	0.00	1.28		10.35	18.92	83.84	86.68	17-Jun-17 13:00:00		10.35	18.92	83.84	87.96
17-Jun-17 14:00:00	17-Jun-17 15:00:00		0.00	0.00	0.00	3.85	2.1	329.7		0.00	0.00	0.00	1.27		10.35	18.92	83.84	86.68	17-Jun-17 14:00:00		10.35	18.92	83.84	87.95
17-Jun-17 15:00:00	17-Jun-17 16:00:00		0.00	0.00	0.00	3.85	2.1	329.7		0.00	0.00	0.00	1.27		10.35	18.92	83.84	86.68	17-Jun-17 15:00:00		10.35	18.92	83.84	87.95
17-Jun-17 16:00:00	17-Jun-17 17:00:00		0.00	0.00	0.00	3.85	2.1	329.7		0.00	0.00	0.00	1.27		10.35	18.92	83.84	86.68	17-Jun-17 16:00:00		10.35	18.92	83.84	87.95
17-Jun-17 17:00:00	17-Jun-17 18:00:00		0.00	0.00	0.00	3.97	2.1	329.7		0.00	0.00	0.00	1.31		10.35	18.92	83.84	86.68	17-Jun-17 17:00:00		10.35	18.92	83.84	87.99
17-Jun-17 18:00:00	17-Jun-17 19:00:00		0.00	0.00	0.00	4.16	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	17-Jun-17 18:00:00		10.35	18.92	83.84	88.05
17-Jun-17 19:00:00	17-Jun-17 20:00:00		0.00	0.00	0.00	4.34	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	17-Jun-17 19:00:00		10.35	18.92	83.84	88.11
17-Jun-17 20:00:00	17-Jun-17 21:00:00		0.00	0.00	0.00	4.51	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	17-Jun-17 20:00:00		10.35	18.92	83.84	88.17
17-Jun-17 21:00:00	17-Jun-17 22:00:00		0.00	0.00	0.00	4.64	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	17-Jun-17 21:00:00		10.35	18.92	83.84	88.21
17-Jun-17 22:00:00	17-Jun-17 23:00:00		0.00	0.00	0.00	4.67	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	17-Jun-17 22:00:00		10.35	18.92	83.84	88.22
17-Jun-17 23:00:00	18-Jun-17 00:00:00		0.00	0.00	0.00	4.69	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	17-Jun-17 23:00:00		10.35	18.92	83.84	88.23
18-Jun-17 00:00:00	18-Jun-17 01:00:00		0.00	0.00	0.00	4.71	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	18-Jun-17 00:00:00		10.35	18.92	83.84	88.23
18-Jun-17 01:00:00	18-Jun-17 02:00:00		0.00	0.00	0.00	4.78	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	18-Jun-17 01:00:00		10.35	18.92	83.84	88.25
18-Jun-17 02:00:00	18-Jun-17 03:00:00		0.00	0.00	0.00	4.76	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	18-Jun-17 02:00:00		10.35	18.92	83.84	88.25
18-Jun-17 03:00:00	18-Jun-17 04:00:00		0.00	0.00	0.00	4.73	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	18-Jun-17 03:00:00		10.35	18.92	83.84	88.24
18-Jun-17 04:00:00	18-Jun-17 05:00:00		0.00	0.00	0.00	4.69	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	18-Jun-17 04:00:00		10.35	18.92	83.84	88.23
18-Jun-17 05:00:00	18-Jun-17 06:00:00		0.00	0.00	0.00	4.66	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	18-Jun-17 05:00:00		10.35	18.92	83.84	88.22
18-Jun-17 06:00:00	18-Jun-17 07:00:00		0.96	0.00	0.00	4.68	2.1	329.7		0.32	0.00	0.00	1.54		10.35	18.92	83.84	86.68	18-Jun-17 06:00:00		10.67	18.92	83.84	88.22
18-Jun-17 07:00:00	18-Jun-17 08:00:00		9.32	0.00	0.00	4.70	2.1	329.7		3.07	0.00	0.00	1.55		10.35	18.92	83.84	86.68	18-Jun-17 07:00:00		13.42	18.92	83.84	88.23
18-Jun-17 08:00:00	18-Jun-17 09:00:00		4.47	0.00	0.00	4.73	2.1	329.7		1.47	0.00	0.00	1.56		10.35	18.92	83.84	86.68	18-Jun-17 08:00:00		11.82	18.92	83.84	88.24
18-Jun-17 09:00:00	18-Jun-17 10:00:00		5.76	0.00	0.00	4.72	2.1	329.7		1.90	0.00	0.00	1.56		10.35	18.92	83.84	86.68	18-Jun-17 09:00:00		12.25	18.92	83.84	88.24
18-Jun-17 10:00:00	18-Jun-17 11:00:00		4.88	0.00	0.00	4.56	2.1	329.7		1.61	0.00	0.00	1.50		10.35	18.92	83.84	86.68	18-Jun-17 10:00:00		11.96	18.92	83.84	88.18
18-Jun-17 11:00:00	18-Jun-17 12:00:00		0.00	0.00	0.00	4.39	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	18-Jun-17 11:00:00		10.35	18.92	83.84	88.13
18-Jun-17 12:00:00	18-Jun-17 13:00:00		0.00	0.00	0.00	4.22	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	18-Jun-17 12:00:00		10.35	18.92	83.84	88.07
18-Jun-17 13:00:00	18-Jun-17 14:00:00		0.00	0.00	0.00	4.08	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	18-Jun-17 13:00:00		10.35	18.92	83.84	88.03
18-Jun-17 14:00:00	18-Jun-17 15:00:00		0.00	0.00	0.00	4.00	2.1	329.7		0.00	0.00	0.00	1.32		10.35	18.92	83.84	86.68	18-Jun-17 14:00:00		10.35	18.92	83.84	88.00
18-Jun-17 15:00:00	18-Jun-17 16:00:00		0.00	0.00	0.00	3.91	2.1	329.7		0.00	0.00	0.00	1.29		10.35	18.92	83.84	86.68	18-Jun-17 15:00:00		10.35	18.92	83.84	87.97
18-Jun-17 16:00:00	18-Jun-17 17:00:00		0.00	0.00	0.00	3.81	2.1	329.7		0.00	0.00	0.00	1.26		10.35	18.92	83.84	86.68	18-Jun-17 16:00:00		10.35	18.92	83.84	87.94
18-Jun-17 17:00:00	18-Jun-17 18:00:00		0.00	0.00	0.00	3.83	2.1	329.7		0.00	0.00	0.00	1.26		10.35	18.92	83.84	86.68	18-Jun-17 17:00:00		10.35	18.92	83.84	87.94
18-Jun-17 18:00:00	18-Jun-17 19:00:00		0.00	0.00	0.00	3.92	2.1	329.7		0.00	0.00	0.00	1.29		10.35	18.92	83.84	86.68	18-Jun-17 18:00:00		10.35	18.92	83.84	87.97
18-Jun-17 19:00:00	18-Jun-17 20:00:00		0.00	0.00	0.00	3.98	2.1	329.7		0.00	0.00	0.00	1.31		10.35	18.92	83.84	86.68	18-Jun-17 19:00:00		10.35	18.92	83.84	87.99
18-Jun-17 20:00:00	18-Jun-17 21:00:00		0.00	0.00	0.00	4.04	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	18-Jun-17 20:00:00		10.35	18.92	83.84	88.01
18-Jun-17 21:00:00	18-Jun-17 22:00:00		0.00	0.00	0.00	4.15	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	18-Jun-17 21:00:00		10.35	18.92	83.84	88.05
18-Jun-17 22:00:00	18-Jun-17 23:00:00		0.00	0.00	0.00	9.44	2.1	329.7		0.00	0.00	0.00	3.11		10.35	18.92	83.84	86.68	18-Jun-17 22:00:00		10.35	18.92	83.84	89.79
18-Jun-17 23:00:00	19-Jun-17 00:00:00		0.00	0.00	0.00	102.23	2.1	329.7		0.00	0.00	0.00	33.71		10.35	18.92	83.84	86.68	18-Jun-17 23:00:00		10.35	18.92	83.84	120.39
19-Jun-17 00:00:00	19-Jun-17 01:00:00		0.00	0.00	0.00	4.61	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	19-Jun-17 00:00:00		10.35	18.92	83.84	88.20
19-Jun-17 01:00:00	19-Jun-17 02:00:00		0.00	0.00	0.00	4.63	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	19-Jun-17 01:00:00		10.35	18.92	83.84	88.21
19-Jun-17 02:00:00	19-Jun-17 03:00:00		0.00	0.00	0.00	4.64	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	19-Jun-17 02:00:00		10.35	18.92	83.84	88.21
19-Jun-17 03:00:00	19-Jun-17 04:00:00		0.00	0.00	0.00	4.65	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	19-Jun-17 03:00:00		10.35	18.92	83.84	88.21
19-Jun-17 04:00:00	19-Jun-17 05:00:00		0.00	0.00	0.00	4.65	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	19-Jun-17 04:00:00		10.35	18.92	83.84	88.21
19-Jun-17 05:00:00	19-Jun-17 06:00:00		0.00	0.00	0.00	4.92	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	19-Jun-17 05:00:00		10.35	18.92	83.84	88.30
19-Jun-17 06:00:00	19-Jun-17 07:00:00		0.00	0.00	0.00	4.82	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	19-Jun-17 06:00:00		10.35	18.92	83.84	88.27
19-Jun-17 07:00:00	19-Jun-17 08:00:00		1.20	0.00	0.00	4.96	2.1	329.7		0.40	0.00	0.00	1.63		10.35	18.92	83.84	86.68	19-Jun-17 07:00:00		10.75	18.92	83.84	88.31
19-Jun-17 08:00:00	19-Jun-17 09:00:00		1.77	0.00	0.00	5.10	2.1	329.7		0.58	0.00	0.00	1.68		10.35	18.92	83.84	86.68	19-Jun-17 08:00:00		10.93	18.92	83.84	88.36
19-Jun-17 09:00:00	19-Jun-17 10:00:00		2.36	0.00	0.00	5.15	2.1	329.7		0.78	0.00	0.00	1.70		10.35	18.92	83.84	86.68	19-Jun-17 09:00:00		11.13	18.92	83.84	88.38
19-Jun-17 10:00:00	19-Jun-17 11:00:00		2.14	0.00	0.00	4.90	2.1	329.7		0.71	0.00	0.00	1.62		10.35	18.92	83.84	86.68	19-Jun-17 10:00:00		11.06	18.92	83.84	88.30
19-Jun-17 11:00:00	19-Jun-17 12:00:00		1.04	0.00	0.00	4.62	2.1	329.7		0.34	0.00	0.00	1.52		10.35	18.92	83.84	86.68	19-Jun-17 11:00:00		10.69	18.92	83.84	88.20
19-Jun-17 12:00:00	19-Jun-17 13:00:00		0.69	0.00	0.00	4.34	2.1	329.7		0.23	0.00	0.00	1.43		10.35	18.92	83.84	86.68	19-Jun-17 12:00:00		10.58	18.92	83.84	88.11
19-Jun-17 13:00:00	19-Jun-17 14:00:00		0.35	0.00	0.00	4.11	2.1	329.7		0.11	0.00	0.00	1.36		10.35	18.92	83.84	86.68	19-Jun-17 13:00:00		10.46	18.92	83.84	88.04
19-Jun-17 14:00:00	19-Jun-17 15:00:00		0.04	0.00	0.00	6.76	2.1	329.7		0.01	0.00	0.00	2.23		10.35	18.92	83.84	86.68	19-Jun-17 14:00:00		10.36	18.92	83.84	88.91
19-Jun-17 15:00:00	19-Jun-17 16:00:00		0.00	0.00	0.00	4.12	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	19-Jun-17 15:00:00		10.35	18.92	83.84	88.04
19-Jun-17 16:00:00	19-Jun-17 17:00:00		0.00	0.00	0.00	4.09	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	19-Jun-17 16:00:00		10.35	18.92	83.84	88.03
19-Jun-17 17:00:00	19-Jun-17 18:00:00		0.00	0.00	0.00	50.67	2.1	329.7		0.00	0.00	0.00	16.71		10.35	18.92	83.84	86.68	19-Jun-17 17:00:00		10.35	18.92	83.84	103.39
19-Jun-17 18:00:00	19-Jun-17 19:00:00		0.00	0.00	0.00	4.09	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	19-Jun-17 18:00:00		10.35	18.92	83.84	88.03
19-Jun-17 19:00:00	19-Jun-17 20:00:00		0.00	0.00	0.00	4.29	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	19-Jun-17 19:00:00		10.35	18.92	83.84	88.09
19-Jun-17 20:00:00	19-Jun-17 21:00:00		0.00	0.00	0.00	4.48	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	19-Jun-17 20:00:00		10.35	18.92	83.84	88.16
19-Jun-17 21:00:00	19-Jun-17 22:00:00		0.00	0.00	0.00	26.27	2.1	329.7		0.00	0.00	0.00	8.66		10.35	18.92	83.84	86.68	19-Jun-17 21:00:00		10.35	18.92	83.84	95.34
19-Jun-17 22:00:00	19-Jun-17 23:00:00		0.00	0.00	0.00	5.25	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	19-Jun-17 22:00:00		10.35	18.92	83.84	88.41
19-Jun-17 23:00:00	20-Jun-17 00:00:00		0.00	0.00	0.00	5.45	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	19-Jun-17 23:00:00		10.35	18.92	83.84	88.48
20-Jun-17 00:00:00	20-Jun-17 01:00:00		0.00	0.00	0.00	12.86	2.1	329.7		0.00	0.00	0.00	4.24		10.35	18.92	83.84	86.68	20-Jun-17 00:00:00		10.35	18.92	83.84	90.92
20-Jun-17 01:00:00	20-Jun-17 02:00:00		0.00	0.00	0.00	5.53	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	20-Jun-17 01:00:00		10.35	18.92	83.84	88.50
20-Jun-17 02:00:00	20-Jun-17 03:00:00		0.24	0.00	0.00	5.41	2.1	329.7		0.08	0.00	0.00	1.78		10.35	18.92	83.84	86.68	20-Jun-17 02:00:00		10.43	18.92	83.84	88.46
20-Jun-17 03:00:00	20-Jun-17 04:00:00		0.00	0.00	0.00	5.29	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	20-Jun-17 03:00:00		10.35	18.92	83.84	88.42
20-Jun-17 04:00:00	20-Jun-17 05:00:00		0.00	0.00	0.00	5.15	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	20-Jun-17 04:00:00		10.35	18.92	83.84	88.38
20-Jun-17 05:00:00	20-Jun-17 06:00:00		0.00	0.00	0.00	5.14	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	20-Jun-17 05:00:00		10.35	18.92	83.84	88.37
20-Jun-17 06:00:00	20-Jun-17 07:00:00		0.00	0.00	0.00	5.14	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	20-Jun-17 06:00:00		10.35	18.92	83.84	88.37
20-Jun-17 07:00:00	20-Jun-17 08:00:00		4.79	0.00	0.00	5.13	2.1	329.7		1.58	0.00	0.00	1.69		10.35	18.92	83.84	86.68	20-Jun-17 07:00:00		11.93	18.92	83.84	88.37
20-Jun-17 08:00:00	20-Jun-17 09:00:00		1.69	0.00	0.00	5.06	2.1	329.7		0.56	0.00	0.00	1.67		10.35	18.92	83.84	86.68	20-Jun-17 08:00:00		10.91	18.92	83.84	88.35
20-Jun-17 09:00:00	20-Jun-17 10:00:00		0.00	0.00	0.00	4.87	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	20-Jun-17 09:00:00		10.35	18.92	83.84	88.29
20-Jun-17 10:00:00	20-Jun-17 11:00:00		0.00	0.00	0.00	4.67	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	20-Jun-17 10:00:00		10.35	18.92	83.84	88.22
20-Jun-17 11:00:00	20-Jun-17 12:00:00		0.00	0.00	0.00	4.48	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	20-Jun-17 11:00:00		10.35	18.92	83.84	88.16
20-Jun-17 12:00:00	20-Jun-17 13:00:00		0.00	0.00	0.00	100.14	2.1	329.7		0.00	0.00	0.00	33.02		10.35	18.92	83.84	86.68	20-Jun-17 12:00:00		10.35	18.92	83.84	119.70
20-Jun-17 13:00:00	20-Jun-17 14:00:00		1.05	0.00	0.00	4.69	2.1	329.7		0.35	0.00	0.00	1.54		10.35	18.92	83.84	86.68	20-Jun-17 13:00:00		10.70	18.92	83.84	88.22
20-Jun-17 14:00:00	20-Jun-17 15:00:00		2.75	0.00	0.00	4.80	2.1	329.7		0.91	0.00	0.00	1.58		10.35	18.92	83.84	86.68	20-Jun-17 14:00:00		11.26	18.92	83.84	88.26
20-Jun-17 15:00:00	20-Jun-17 16:00:00		0.00	0.00	0.00	4.91	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	20-Jun-17 15:00:00		10.35	18.92	83.84	88.30
20-Jun-17 16:00:00	20-Jun-17 17:00:00		0.00	0.00	0.00	5.03	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	20-Jun-17 16:00:00		10.35	18.92	83.84	88.34
20-Jun-17 17:00:00	20-Jun-17 18:00:00		0.00	0.00	0.00	5.08	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	20-Jun-17 17:00:00		10.35	18.92	83.84	88.36
20-Jun-17 18:00:00	20-Jun-17 19:00:00		0.00	0.00	0.00	5.12

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
22-Jun-17 20:00:00	22-Jun-17 21:00:00		0.00	0.00	0.00	4.78	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	22-Jun-17 20:00:00		**10.35**	**18.92**	**83.84**	**88.26**
22-Jun-17 21:00:00	22-Jun-17 22:00:00		0.00	0.00	0.00	4.79	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	22-Jun-17 21:00:00		**10.35**	**18.92**	**83.84**	**88.26**
22-Jun-17 22:00:00	22-Jun-17 23:00:00		0.00	0.00	0.00	4.77	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	22-Jun-17 22:00:00		**10.35**	**18.92**	**83.84**	**88.25**
22-Jun-17 23:00:00	23-Jun-17 00:00:00		0.00	0.00	0.00	4.75	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	22-Jun-17 23:00:00		**10.35**	**18.92**	**83.84**	**88.25**
23-Jun-17 00:00:00	23-Jun-17 01:00:00		0.00	0.00	0.00	4.73	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	23-Jun-17 00:00:00		**10.35**	**18.92**	**83.84**	**88.24**
23-Jun-17 01:00:00	23-Jun-17 02:00:00		1.41	0.00	0.00	4.51	2.1	329.7		0.46	0.00	0.00	1.49		10.35	18.92	83.84	86.68	23-Jun-17 01:00:00		**10.81**	**18.92**	**83.84**	**88.17**
23-Jun-17 02:00:00	23-Jun-17 03:00:00		3.32	0.00	0.00	23.79	2.1	329.7		1.09	0.00	0.00	7.84		10.35	18.92	83.84	86.68	23-Jun-17 02:00:00		**11.44**	**18.92**	**83.84**	**94.52**
23-Jun-17 03:00:00	23-Jun-17 04:00:00		2.70	0.00	0.00	4.24	2.1	329.7		0.89	0.00	0.00	1.40		10.35	18.92	83.84	86.68	23-Jun-17 03:00:00		**11.24**	**18.92**	**83.84**	**88.08**
23-Jun-17 04:00:00	23-Jun-17 05:00:00		1.89	0.00	0.00	4.29	2.1	329.7		0.62	0.00	0.00	1.42		10.35	18.92	83.84	86.68	23-Jun-17 04:00:00		**10.97**	**18.92**	**83.84**	**88.10**
23-Jun-17 05:00:00	23-Jun-17 06:00:00		1.16	0.00	0.00	4.35	2.1	329.7		0.38	0.00	0.00	1.43		10.35	18.92	83.84	86.68	23-Jun-17 05:00:00		**10.73**	**18.92**	**83.84**	**88.11**
23-Jun-17 06:00:00	23-Jun-17 07:00:00		0.43	0.00	0.00	4.41	2.1	329.7		0.14	0.00	0.00	1.45		10.35	18.92	83.84	86.68	23-Jun-17 06:00:00		**10.49**	**18.92**	**83.84**	**88.13**
23-Jun-17 07:00:00	23-Jun-17 08:00:00		0.00	0.00	0.00	4.55	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	23-Jun-17 07:00:00		**10.35**	**18.92**	**83.84**	**88.18**
23-Jun-17 08:00:00	23-Jun-17 09:00:00		0.00	0.00	0.00	35.96	2.1	329.7		0.00	0.00	0.00	11.86		10.35	18.92	83.84	86.68	23-Jun-17 08:00:00		**10.35**	**18.92**	**83.84**	**98.54**
23-Jun-17 09:00:00	23-Jun-17 10:00:00		0.00	0.00	0.00	4.64	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	23-Jun-17 09:00:00		**10.35**	**18.92**	**83.84**	**88.21**
23-Jun-17 10:00:00	23-Jun-17 11:00:00		0.00	0.00	0.00	4.57	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	23-Jun-17 10:00:00		**10.35**	**18.92**	**83.84**	**88.19**
23-Jun-17 11:00:00	23-Jun-17 12:00:00		0.08	0.00	0.00	4.49	2.1	329.7		0.03	0.00	0.00	1.48		10.35	18.92	83.84	86.68	23-Jun-17 11:00:00		**10.38**	**18.92**	**83.84**	**88.16**
23-Jun-17 12:00:00	23-Jun-17 13:00:00		0.00	0.00	0.00	4.42	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	23-Jun-17 12:00:00		**10.35**	**18.92**	**83.84**	**88.14**
23-Jun-17 13:00:00	23-Jun-17 14:00:00		0.00	0.00	0.00	4.27	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	23-Jun-17 13:00:00		**10.35**	**18.92**	**83.84**	**88.09**
23-Jun-17 14:00:00	23-Jun-17 15:00:00		0.00	0.00	0.00	4.10	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	23-Jun-17 14:00:00		**10.35**	**18.92**	**83.84**	**88.03**
23-Jun-17 15:00:00	23-Jun-17 16:00:00		0.00	0.00	0.00	5.22	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	23-Jun-17 15:00:00		**10.35**	**18.92**	**83.84**	**88.40**
23-Jun-17 16:00:00	23-Jun-17 17:00:00		0.00	0.00	0.00	3.86	2.1	329.7		0.00	0.00	0.00	1.27		10.35	18.92	83.84	86.68	23-Jun-17 16:00:00		**10.35**	**18.92**	**83.84**	**87.95**
23-Jun-17 17:00:00	23-Jun-17 18:00:00		0.00	0.00	0.00	3.76	2.1	329.7		0.00	0.00	0.00	1.24		10.35	18.92	83.84	86.68	23-Jun-17 17:00:00		**10.35**	**18.92**	**83.84**	**87.92**
23-Jun-17 18:00:00	23-Jun-17 19:00:00		0.00	0.00	0.00	3.67	2.1	329.7		0.00	0.00	0.00	1.21		10.35	18.92	83.84	86.68	23-Jun-17 18:00:00		**10.35**	**18.92**	**83.84**	**87.89**
23-Jun-17 19:00:00	23-Jun-17 20:00:00		0.00	0.00	0.00	3.63	2.1	329.7		0.00	0.00	0.00	1.20		10.35	18.92	83.84	86.68	23-Jun-17 19:00:00		**10.35**	**18.92**	**83.84**	**87.88**
23-Jun-17 20:00:00	23-Jun-17 21:00:00		0.00	0.00	0.00	3.75	2.1	329.7		0.00	0.00	0.00	1.24		10.35	18.92	83.84	86.68	23-Jun-17 20:00:00		**10.35**	**18.92**	**83.84**	**87.92**
23-Jun-17 21:00:00	23-Jun-17 22:00:00		0.00	0.00	0.00	3.88	2.1	329.7		0.00	0.00	0.00	1.28		10.35	18.92	83.84	86.68	23-Jun-17 21:00:00		**10.35**	**18.92**	**83.84**	**87.96**
23-Jun-17 22:00:00	23-Jun-17 23:00:00		0.00	0.00	0.00	4.01	2.1	329.7		0.00	0.00	0.00	1.32		10.35	18.92	83.84	86.68	23-Jun-17 22:00:00		**10.35**	**18.92**	**83.84**	**88.00**
23-Jun-17 23:00:00	24-Jun-17 00:00:00		0.00	0.00	0.00	4.13	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	23-Jun-17 23:00:00		**10.35**	**18.92**	**83.84**	**88.04**
24-Jun-17 00:00:00	24-Jun-17 01:00:00		45.25	0.00	0.00	4.28	2.1	329.7		14.92	0.00	0.00	1.41		10.35	18.92	83.84	86.68	24-Jun-17 00:00:00		**25.27**	**18.92**	**83.84**	**88.09**
24-Jun-17 01:00:00	24-Jun-17 02:00:00		1,060.16	0.00	0.00	4.42	2.1	329.7		349.54	0.00	0.00	1.46		10.35	18.92	83.84	86.68	24-Jun-17 01:00:00		**359.89**	**18.92**	**83.84**	**88.14**
24-Jun-17 02:00:00	24-Jun-17 03:00:00		1,129.68	0.00	0.00	4.57	2.1	329.7		372.46	0.00	0.00	1.51		10.35	18.92	83.84	86.68	24-Jun-17 02:00:00		**382.81**	**18.92**	**83.84**	**88.19**
24-Jun-17 03:00:00	24-Jun-17 04:00:00		1,257.72	0.00	0.00	4.65	2.1	329.7		414.67	0.00	0.00	1.53		10.35	18.92	83.84	86.68	24-Jun-17 03:00:00		**425.02**	**18.92**	**83.84**	**88.21**
24-Jun-17 04:00:00	24-Jun-17 05:00:00		1,581.50	3.99	0.00	4.66	2.1	329.7		521.42	1.31	0.00	1.54		10.35	18.92	83.84	86.68	24-Jun-17 04:00:00		**531.77**	**20.23**	**83.84**	**88.22**
24-Jun-17 05:00:00	24-Jun-17 06:00:00		1,394.32	0.00	0.00	4.67	2.1	329.7		459.71	0.00	0.00	1.54		10.35	18.92	83.84	86.68	24-Jun-17 05:00:00		**470.06**	**18.92**	**83.84**	**88.22**
24-Jun-17 06:00:00	24-Jun-17 07:00:00		1,282.05	0.00	0.00	4.68	2.1	329.7		422.69	0.00	0.00	1.54		10.35	18.92	83.84	86.68	24-Jun-17 06:00:00		**433.04**	**18.92**	**83.84**	**88.22**
24-Jun-17 07:00:00	24-Jun-17 08:00:00		1,290.76	0.00	0.00	4.72	2.1	329.7		425.56	0.00	0.00	1.56		10.35	18.92	83.84	86.68	24-Jun-17 07:00:00		**435.91**	**18.92**	**83.84**	**88.24**
24-Jun-17 08:00:00	24-Jun-17 09:00:00		1,274.43	0.00	0.00	4.67	2.1	329.7		420.18	0.00	0.00	1.54		10.35	18.92	83.84	86.68	24-Jun-17 08:00:00		**430.53**	**18.92**	**83.84**	**88.22**
24-Jun-17 09:00:00	24-Jun-17 10:00:00		1,284.55	0.00	0.00	4.62	2.1	329.7		423.52	0.00	0.00	1.52		10.35	18.92	83.84	86.68	24-Jun-17 09:00:00		**433.87**	**18.92**	**83.84**	**88.20**
24-Jun-17 10:00:00	24-Jun-17 11:00:00		1,079.68	0.00	0.00	4.56	2.1	329.7		355.97	0.00	0.00	1.50		10.35	18.92	83.84	86.68	24-Jun-17 10:00:00		**366.32**	**18.92**	**83.84**	**88.18**
24-Jun-17 11:00:00	24-Jun-17 12:00:00		172.55	0.00	0.00	4.43	2.1	329.7		56.89	0.00	0.00	1.46		10.35	18.92	83.84	86.68	24-Jun-17 11:00:00		**67.24**	**18.92**	**83.84**	**88.14**
24-Jun-17 12:00:00	24-Jun-17 13:00:00		0.00	0.00	0.00	4.36	2.1	329.7		0.00	0.00	0.00	1.44		10.35	18.92	83.84	86.68	24-Jun-17 12:00:00		**10.35**	**18.92**	**83.84**	**88.12**
24-Jun-17 13:00:00	24-Jun-17 14:00:00		0.00	0.00	0.00	4.30	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	24-Jun-17 13:00:00		**10.35**	**18.92**	**83.84**	**88.10**
24-Jun-17 14:00:00	24-Jun-17 15:00:00		0.00	0.00	0.00	4.24	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	24-Jun-17 14:00:00		**10.35**	**18.92**	**83.84**	**88.08**
24-Jun-17 15:00:00	24-Jun-17 16:00:00		0.00	0.00	0.00	4.26	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	24-Jun-17 15:00:00		**10.35**	**18.92**	**83.84**	**88.08**
24-Jun-17 16:00:00	24-Jun-17 17:00:00		0.00	0.00	0.00	4.32	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	24-Jun-17 16:00:00		**10.35**	**18.92**	**83.84**	**88.10**
24-Jun-17 17:00:00	24-Jun-17 18:00:00		0.00	0.00	0.00	4.37	2.1	329.7		0.00	0.00	0.00	1.44		10.35	18.92	83.84	86.68	24-Jun-17 17:00:00		**10.35**	**18.92**	**83.84**	**88.12**
24-Jun-17 18:00:00	24-Jun-17 19:00:00		0.00	0.00	0.00	4.42	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	24-Jun-17 18:00:00		**10.35**	**18.92**	**83.84**	**88.14**
24-Jun-17 19:00:00	24-Jun-17 20:00:00		0.24	0.00	0.00	4.52	2.1	329.7		0.08	0.00	0.00	1.49		10.35	18.92	83.84	86.68	24-Jun-17 19:00:00		**10.43**	**18.92**	**83.84**	**88.17**
24-Jun-17 20:00:00	24-Jun-17 21:00:00		1.22	0.00	0.00	4.67	2.1	329.7		0.40	0.00	0.00	1.54		10.35	18.92	83.84	86.68	24-Jun-17 20:00:00		**10.75**	**18.92**	**83.84**	**88.22**
24-Jun-17 21:00:00	24-Jun-17 22:00:00		1.41	0.00	0.00	4.82	2.1	329.7		0.46	0.00	0.00	1.59		10.35	18.92	83.84	86.68	24-Jun-17 21:00:00		**10.81**	**18.92**	**83.84**	**88.27**
24-Jun-17 22:00:00	24-Jun-17 23:00:00		5.83	0.00	0.00	4.97	2.1	329.7		1.92	0.00	0.00	1.64		10.35	18.92	83.84	86.68	24-Jun-17 22:00:00		**12.27**	**18.92**	**83.84**	**88.32**
24-Jun-17 23:00:00	25-Jun-17 00:00:00		7.62	0.00	0.00	5.13	2.1	329.7		2.51	0.00	0.00	1.69		10.35	18.92	83.84	86.68	24-Jun-17 23:00:00		**12.86**	**18.92**	**83.84**	**88.37**
25-Jun-17 00:00:00	25-Jun-17 01:00:00		13.75	0.00	0.00	5.16	2.1	329.7		4.53	0.00	0.00	1.70		10.35	18.92	83.84	86.68	25-Jun-17 00:00:00		**14.88**	**18.92**	**83.84**	**88.38**
25-Jun-17 01:00:00	25-Jun-17 02:00:00		39.47	0.00	0.00	5.18	2.1	329.7		13.01	0.00	0.00	1.71		10.35	18.92	83.84	86.68	25-Jun-17 01:00:00		**23.36**	**18.92**	**83.84**	**88.39**
25-Jun-17 02:00:00	25-Jun-17 03:00:00		27.19	0.00	0.00	5.20	2.1	329.7		8.96	0.00	0.00	1.72		10.35	18.92	83.84	86.68	25-Jun-17 02:00:00		**19.31**	**18.92**	**83.84**	**88.40**
25-Jun-17 03:00:00	25-Jun-17 04:00:00		10.46	0.00	0.00	5.20	2.1	329.7		3.45	0.00	0.00	1.71		10.35	18.92	83.84	86.68	25-Jun-17 03:00:00		**13.80**	**18.92**	**83.84**	**88.39**
25-Jun-17 04:00:00	25-Jun-17 05:00:00		10.23	0.00	0.00	5.04	2.1	329.7		3.37	0.00	0.00	1.66		10.35	18.92	83.84	86.68	25-Jun-17 04:00:00		**13.72**	**18.92**	**83.84**	**88.34**
25-Jun-17 05:00:00	25-Jun-17 06:00:00		12.85	0.00	0.00	4.89	2.1	329.7		4.24	0.00	0.00	1.61		10.35	18.92	83.84	86.68	25-Jun-17 05:00:00		**14.59**	**18.92**	**83.84**	**88.29**
25-Jun-17 06:00:00	25-Jun-17 07:00:00		12.56	0.00	0.00	4.73	2.1	329.7		4.14	0.00	0.00	1.56		10.35	18.92	83.84	86.68	25-Jun-17 06:00:00		**14.49**	**18.92**	**83.84**	**88.24**
25-Jun-17 07:00:00	25-Jun-17 08:00:00		10.35	0.00	0.00	4.61	2.1	329.7		3.41	0.00	0.00	1.52		10.35	18.92	83.84	86.68	25-Jun-17 07:00:00		**13.76**	**18.92**	**83.84**	**88.20**
25-Jun-17 08:00:00	25-Jun-17 09:00:00		13.27	0.00	0.00	4.51	2.1	329.7		4.37	0.00	0.00	1.49		10.35	18.92	83.84	86.68	25-Jun-17 08:00:00		**14.72**	**18.92**	**83.84**	**88.17**
25-Jun-17 09:00:00	25-Jun-17 10:00:00		10.16	0.00	0.00	4.41	2.1	329.7		3.35	0.00	0.00	1.45		10.35	18.92	83.84	86.68	25-Jun-17 09:00:00		**13.70**	**18.92**	**83.84**	**88.13**
25-Jun-17 10:00:00	25-Jun-17 11:00:00		12.58	0.00	0.00	4.31	2.1	329.7		4.15	0.00	0.00	1.42		10.35	18.92	83.84	86.68	25-Jun-17 10:00:00		**14.50**	**18.92**	**83.84**	**88.10**
25-Jun-17 11:00:00	25-Jun-17 12:00:00		17.94	0.00	0.00	4.09	2.1	329.7		5.91	0.00	0.00	1.35		10.35	18.92	83.84	86.68	25-Jun-17 11:00:00		**16.26**	**18.92**	**83.84**	**88.03**
25-Jun-17 12:00:00	25-Jun-17 13:00:00		3.22	0.00	0.00	4.02	2.1	329.7		1.06	0.00	0.00	1.32		10.35	18.92	83.84	86.68	25-Jun-17 12:00:00		**11.41**	**18.92**	**83.84**	**88.00**
25-Jun-17 13:00:00	25-Jun-17 14:00:00		0.58	0.00	0.00	3.96	2.1	329.7		0.19	0.00	0.00	1.30		10.35	18.92	83.84	86.68	25-Jun-17 13:00:00		**10.54**	**18.92**	**83.84**	**87.98**
25-Jun-17 14:00:00	25-Jun-17 15:00:00		0.00	0.00	0.00	3.90	2.1	329.7		0.00	0.00	0.00	1.28		10.35	18.92	83.84	86.68	25-Jun-17 14:00:00		**10.35**	**18.92**	**83.84**	**87.96**
25-Jun-17 15:00:00	25-Jun-17 16:00:00		0.17	0.00	0.00	3.99	2.1	329.7		0.06	0.00	0.00	1.32		10.35	18.92	83.84	86.68	25-Jun-17 15:00:00		**10.41**	**18.92**	**83.84**	**88.00**
25-Jun-17 16:00:00	25-Jun-17 17:00:00		0.00	0.00	0.00	4.10	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	25-Jun-17 16:00:00		**10.35**	**18.92**	**83.84**	**88.03**
25-Jun-17 17:00:00	25-Jun-17 18:00:00		0.00	0.00	0.00	4.20	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	25-Jun-17 17:00:00		**10.35**	**18.92**	**83.84**	**88.07**
25-Jun-17 18:00:00	25-Jun-17 19:00:00		0.00	0.00	0.00	4.30	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	25-Jun-17 18:00:00		**10.35**	**18.92**	**83.84**	**88.10**
25-Jun-17 19:00:00	25-Jun-17 20:00:00		0.00	0.00	0.00	4.43	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	25-Jun-17 19:00:00		**10.35**	**18.92**	**83.84**	**88.14**
25-Jun-17 20:00:00	25-Jun-17 21:00:00		0.00	0.00	0.00	4.49	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	25-Jun-17 20:00:00		**10.35**	**18.92**	**83.84**	**88.16**
25-Jun-17 21:00:00	25-Jun-17 22:00:00		0.00	0.00	0.00	4.55	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	25-Jun-17 21:00:00		**10.35**	**18.92**	**83.84**	**88.18**
25-Jun-17 22:00:00	25-Jun-17 23:00:00		0.00	0.00	0.00	4.61	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	25-Jun-17 22:00:00		**10.35**	**18.92**	**83.84**	**88.20**
25-Jun-17 23:00:00	26-Jun-17 00:00:00		63.26	0.00	0.00	4.98	2.1	329.7		20.86	0.00	0.00	1.64		10.35	18.92	83.84	86.68	25-Jun-17 23:00:00		**31.21**	**18.92**	**83.84**	**88.32**
26-Jun-17 00:00:00	26-Jun-17 01:00:00		428.74	0.00	0.00	5.09	2.1	329.7		141.36	0.00	0.00	1.68		10.35	18.92	83.84	86.68	26-Jun-17 00:00:00		**151.71**	**18.92**	**83.84**	**88.36**
26-Jun-17 01:00:00	26-Jun-17 02:00:00		492.91	0.00	0.00	5.13	2.1	329.7		162.51	0.00	0.00	1.69		10.35	18.92	83.84	86.68	26-Jun-17 01:00:00		**172.86**	**18.92**	**83.84**	**88.37**
26-Jun-17 02:00:00	26-Jun-17 03:00:00		229.56	0.00	0.00	5.18	2.1	329.7		75.69	0.00	0.00	1.71		10.35	18.92	83.84	86.68	26-Jun-17 02:00:00		**86.04**	**18.92**	**83.84**	**88.39**
26-Jun-17 03:00:00	26-Jun-17 04:00:00		3.44	0.00	0.00	5.24	2.1	329.7		1.14	0.00	0.00	1.73		10.35	18.92	83.84	86.68	26-Jun-17 03:00:00		**11.49**	**18.92**	**83.84**	**88.41**
26-Jun-17 04:00:00	26-Jun-17 05:00:00		0.81	0.00	0.00	5.33	2.1	329.7		0.27	0.00	0.00	1.76		10.35	18.92	83.84	86.68	26-Jun-17 04:00:00		**10.62**	**18.92**	**83.84**	**88.44**
26-Jun-17 05:00:00	26-Jun-17 06:00:00		1.85	0.00	0.00	5.43	2.1	329.7		0.61	0.00	0.00	1.79		10.35	18.92	83.84	86.68	26-Jun-17 05:00:00		**10.96**	**18.92**	**83.84**	**88.47**
26-Jun-17 06:00:00	26-Jun-17 07:00:00		3.10	0.00	0.00	5.52	2.1	329.7		1.02	0.00	0.00	1.82		10.35	18.92	83.84	86.68	26-Jun-17 06:00:00		**11.37**	**18.92**	**83.84**	**88.50**
26-Jun-17 07:00:00	26-Jun-17 08:00:00		1.45	0.00	0.00	5.56	2.1	329.7		0.48	0.00	0.00	1.83		10.35	18.92	83.84	86.68	26-Jun-17 07:00:00		**10.83**	**18.92**	**83.84**	**88.51**
26-Jun-17 08:00:00	26-Jun-17 09:00:00		0.98	0.00	0.00	6.16	2.1	329.7		0.32	0.00	0.00	2.03		10.35	18.92	83.84	86.68	26-Jun-17 08:00:00		**10.67**	**18.92**	**83.84**	**88.71**
26-Jun-17 09:00:00	26-Jun-17 10:00:00		0.51	0.00	0.00	5.12	2.1	329.7		0.17	0.00	0.00	1.69		10.35	18.92	83.84	86.68	26-Jun-17 09:00:00		**10.52**	**18.92**	**83.84**	**88.37**
26-Jun-17 10:00:00	26-Jun-17 11:00:00		0.08	0.00	0.00	4.77	2.1	329.7		0.03	0.00	0.00	1.57		10.35	18.92	83.84	86.68	26-Jun-17 10:00:00		**10.38**	**18.92**	**83.84**	**88.25**
26-Jun-17 11:00:00	26-Jun-17 12:00:00		2.26	0.00	0.00	4.42	2.1	329.7		0.74	0.00	0.00	1.46		10.35	18.92	83.84	86.68	26-Jun-17 11:00:00		**11.09**	**18.92**	**83.84**	**88.14**
26-Jun-17 12:00:00	26-Jun-17 13:00:00		10.68	0.00	0.00	4.13	2.1	329.7		3.52	0.00	0.00	1.36		10.35	18.92	83.84	86.68	26-Jun-17 12:00:00		**13.87**	**18.92**	**83.84**	**88.04**
26-Jun-17 13:00:00	26-Jun-17 14:00:00		18.19	0.00	0.00	4.05	2.1	329.7		6.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	26-Jun-17 13:00:00		**16.35**	**18.92**	**83.84**	**88.02**
26-Jun-17 14:00:00	26-Jun-17 15:00:00		16.51	0.00	0.00	3.99	2.1	329.7		5.44	0.00	0.00	1.31		10.35	18.92	83.84	86.68	26-Jun-17 14:00:00		**15.79**	**18.92**	**83.84**	**87.99**
26-Jun-17 15:00:00	26-Jun-17 16:00:00		22.44	0.00	0.00	3.92	2.1	329.7		7.40	0.00	0.00	1.29		10.35	18.92	83.84	86.68	26-Jun-17 15:00:00		**17.75**	**18.92**	**83.84**	**87.97**
26-Jun-17 16:00:00	26-Jun-17 17:00:00		28.58	0.00	0.00	3.86	2.1	329.7		9.42	0.00	0.00	1.27		10.35	18.92	83.84	86.68	26-Jun-17 16:00:00		**19.77**	**18.92**	**83.84**	**87.95**
26-Jun-17 17:00:00	26-Jun-17 18:00:00		32.34

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)								MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil		Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr		lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
28-Jun-17 19:00:00	28-Jun-17 20:00:00		11.72	0.00	0.00	4.33	2.1	329.7		3.86	0.00	0.00	1.43			10.35	18.92	83.84	86.68	28-Jun-17 19:00:00		14.21	18.92	83.84	88.11
28-Jun-17 20:00:00	28-Jun-17 21:00:00		10.24	0.00	0.00	4.44	2.1	329.7		3.38	0.00	0.00	1.46			10.35	18.92	83.84	86.68	28-Jun-17 20:00:00		13.73	18.92	83.84	88.14
28-Jun-17 21:00:00	28-Jun-17 22:00:00		16.02	0.00	0.00	4.60	2.1	329.7		5.28	0.00	0.00	1.52			10.35	18.92	83.84	86.68	28-Jun-17 21:00:00		15.63	18.92	83.84	88.20
28-Jun-17 22:00:00	28-Jun-17 23:00:00		7.31	0.00	0.00	4.76	2.1	329.7		2.41	0.00	0.00	1.57			10.35	18.92	83.84	86.68	28-Jun-17 22:00:00		12.76	18.92	83.84	88.25
28-Jun-17 23:00:00	29-Jun-17 00:00:00		9.96	0.00	0.00	4.92	2.1	329.7		3.28	0.00	0.00	1.62			10.35	18.92	83.84	86.68	28-Jun-17 23:00:00		13.63	18.92	83.84	88.30
29-Jun-17 00:00:00	29-Jun-17 01:00:00		14.04	0.00	0.00	5.06	2.1	329.7		4.63	0.00	0.00	1.67			10.35	18.92	83.84	86.68	29-Jun-17 00:00:00		14.98	18.92	83.84	88.35
29-Jun-17 01:00:00	29-Jun-17 02:00:00		0.86	0.00	0.00	5.11	2.1	329.7		0.28	0.00	0.00	1.68			10.35	18.92	83.84	86.68	29-Jun-17 01:00:00		10.63	18.92	83.84	88.36
29-Jun-17 02:00:00	29-Jun-17 03:00:00		0.72	0.00	0.00	5.15	2.1	329.7		0.24	0.00	0.00	1.70			10.35	18.92	83.84	86.68	29-Jun-17 02:00:00		10.59	18.92	83.84	88.38
29-Jun-17 03:00:00	29-Jun-17 04:00:00		1.25	0.00	0.00	5.19	2.1	329.7		0.41	0.00	0.00	1.71			10.35	18.92	83.84	86.68	29-Jun-17 03:00:00		10.76	18.92	83.84	88.39
29-Jun-17 04:00:00	29-Jun-17 05:00:00		0.16	0.00	0.00	5.22	2.1	329.7		0.05	0.00	0.00	1.72			10.35	18.92	83.84	86.68	29-Jun-17 04:00:00		10.40	18.92	83.84	88.40
29-Jun-17 05:00:00	29-Jun-17 06:00:00		0.00	0.00	0.00	5.23	2.1	329.7		0.00	0.00	0.00	1.73			10.35	18.92	83.84	86.68	29-Jun-17 05:00:00		10.35	18.92	83.84	88.41
29-Jun-17 06:00:00	29-Jun-17 07:00:00		0.00	0.00	0.00	5.26	2.1	329.7		0.00	0.00	0.00	1.73			10.35	18.92	83.84	86.68	29-Jun-17 06:00:00		10.35	18.92	83.84	88.41
29-Jun-17 07:00:00	29-Jun-17 08:00:00		0.00	0.00	0.00	5.28	2.1	329.7		0.00	0.00	0.00	1.74			10.35	18.92	83.84	86.68	29-Jun-17 07:00:00		10.35	18.92	83.84	88.42
29-Jun-17 08:00:00	29-Jun-17 09:00:00		0.00	0.00	0.00	5.27	2.1	329.7		0.00	0.00	0.00	1.74			10.35	18.92	83.84	86.68	29-Jun-17 08:00:00		10.35	18.92	83.84	88.42
29-Jun-17 09:00:00	29-Jun-17 10:00:00		0.00	0.00	0.00	5.01	2.1	329.7		0.00	0.00	0.00	1.65			10.35	18.92	83.84	86.68	29-Jun-17 09:00:00		10.35	18.92	83.84	88.33
29-Jun-17 10:00:00	29-Jun-17 11:00:00		0.00	0.00	0.00	4.70	2.1	329.7		0.00	0.00	0.00	1.55			10.35	18.92	83.84	86.68	29-Jun-17 10:00:00		10.35	18.92	83.84	88.23
29-Jun-17 11:00:00	29-Jun-17 12:00:00		0.00	0.00	0.00	4.39	2.1	329.7		0.00	0.00	0.00	1.45			10.35	18.92	83.84	86.68	29-Jun-17 11:00:00		10.35	18.92	83.84	88.13
29-Jun-17 12:00:00	29-Jun-17 13:00:00		2.72	0.00	0.00	4.07	2.1	329.7		0.90	0.00	0.00	1.34			10.35	18.92	83.84	86.68	29-Jun-17 12:00:00		11.25	18.92	83.84	88.02
29-Jun-17 13:00:00	29-Jun-17 14:00:00		10.42	0.00	0.00	3.88	2.1	329.7		3.44	0.00	0.00	1.28			10.35	18.92	83.84	86.68	29-Jun-17 13:00:00		13.79	18.92	83.84	87.96
29-Jun-17 14:00:00	29-Jun-17 15:00:00		12.39	0.00	0.00	3.77	2.1	329.7		4.09	0.00	0.00	1.24			10.35	18.92	83.84	86.68	29-Jun-17 14:00:00		14.44	18.92	83.84	87.92
29-Jun-17 15:00:00	29-Jun-17 16:00:00		11.63	0.00	0.00	3.65	2.1	329.7		3.83	0.00	0.00	1.20			10.35	18.92	83.84	86.68	29-Jun-17 15:00:00		14.18	18.92	83.84	87.88
29-Jun-17 16:00:00	29-Jun-17 17:00:00		1.45	0.00	0.00	3.57	2.1	329.7		0.48	0.00	0.00	1.18			10.35	18.92	83.84	86.68	29-Jun-17 16:00:00		10.83	18.92	83.84	87.86
29-Jun-17 17:00:00	29-Jun-17 18:00:00		0.59	0.00	0.00	3.68	2.1	329.7		0.20	0.00	0.00	1.21			10.35	18.92	83.84	86.68	29-Jun-17 17:00:00		10.55	18.92	83.84	87.89
29-Jun-17 18:00:00	29-Jun-17 19:00:00		7.85	0.00	0.00	3.80	2.1	329.7		2.59	0.00	0.00	1.25			10.35	18.92	83.84	86.68	29-Jun-17 18:00:00		12.94	18.92	83.84	87.93
29-Jun-17 19:00:00	29-Jun-17 20:00:00		11.53	0.00	0.00	3.91	2.1	329.7		3.80	0.00	0.00	1.29			10.35	18.92	83.84	86.68	29-Jun-17 19:00:00		14.15	18.92	83.84	87.97
29-Jun-17 20:00:00	29-Jun-17 21:00:00		12.09	0.00	0.00	4.05	2.1	329.7		3.99	0.00	0.00	1.33			10.35	18.92	83.84	86.68	29-Jun-17 20:00:00		14.34	18.92	83.84	88.01
29-Jun-17 21:00:00	29-Jun-17 22:00:00		10.47	0.00	0.00	4.19	2.1	329.7		3.45	0.00	0.00	1.38			10.35	18.92	83.84	86.68	29-Jun-17 21:00:00		13.80	18.92	83.84	88.06
29-Jun-17 22:00:00	29-Jun-17 23:00:00		10.68	0.00	0.00	4.31	2.1	329.7		3.52	0.00	0.00	1.42			10.35	18.92	83.84	86.68	29-Jun-17 22:00:00		13.87	18.92	83.84	88.10
29-Jun-17 23:00:00	30-Jun-17 00:00:00		13.71	0.00	0.00	4.43	2.1	329.7		4.52	0.00	0.00	1.46			10.35	18.92	83.84	86.68	29-Jun-17 23:00:00		14.87	18.92	83.84	88.14
30-Jun-17 00:00:00	30-Jun-17 01:00:00		5.54	0.00	0.00	4.56	2.1	329.7		1.83	0.00	0.00	1.50			10.35	18.92	83.84	86.68	30-Jun-17 00:00:00		12.18	18.92	83.84	88.18
30-Jun-17 01:00:00	30-Jun-17 02:00:00		0.00	0.00	0.00	4.60	2.1	329.7		0.00	0.00	0.00	1.52			10.35	18.92	83.84	86.68	30-Jun-17 01:00:00		10.35	18.92	83.84	88.20
30-Jun-17 02:00:00	30-Jun-17 03:00:00		1.01	0.00	0.00	4.58	2.1	329.7		0.33	0.00	0.00	1.51			10.35	18.92	83.84	86.68	30-Jun-17 02:00:00		10.68	18.92	83.84	88.19
30-Jun-17 03:00:00	30-Jun-17 04:00:00		4.44	0.00	0.00	4.56	2.1	329.7		1.46	0.00	0.00	1.50			10.35	18.92	83.84	86.68	30-Jun-17 03:00:00		11.81	18.92	83.84	88.18
30-Jun-17 04:00:00	30-Jun-17 05:00:00		23.87	0.00	0.00	4.60	2.1	329.7		7.87	0.00	0.00	1.52			10.35	18.92	83.84	86.68	30-Jun-17 04:00:00		18.22	18.92	83.84	88.20
30-Jun-17 05:00:00	30-Jun-17 06:00:00		18.58	0.00	0.00	4.72	2.1	329.7		6.13	0.00	0.00	1.56			10.35	18.92	83.84	86.68	30-Jun-17 05:00:00		16.48	18.92	83.84	88.24
30-Jun-17 06:00:00	30-Jun-17 07:00:00		18.71	0.00	0.00	4.79	2.1	329.7		6.17	0.00	0.00	1.58			10.35	18.92	83.84	86.68	30-Jun-17 06:00:00		16.52	18.92	83.84	88.26
30-Jun-17 07:00:00	30-Jun-17 08:00:00		5.83	0.00	0.00	4.86	2.1	329.7		1.92	0.00	0.00	1.60			10.35	18.92	83.84	86.68	30-Jun-17 07:00:00		12.27	18.92	83.84	88.28
30-Jun-17 08:00:00	30-Jun-17 09:00:00		17.13	0.00	0.00	5.01	2.1	329.7		5.65	0.00	0.00	1.65			10.35	18.92	83.84	86.68	30-Jun-17 08:00:00		16.00	18.92	83.84	88.33
30-Jun-17 09:00:00	30-Jun-17 10:00:00		7.18	0.00	0.00	5.15	2.1	329.7		2.37	0.00	0.00	1.70			10.35	18.92	83.84	86.68	30-Jun-17 09:00:00		12.72	18.92	83.84	88.38
30-Jun-17 10:00:00	30-Jun-17 11:00:00		4.83	0.00	0.00	5.17	2.1	329.7		1.59	0.00	0.00	1.71			10.35	18.92	83.84	86.68	30-Jun-17 10:00:00		11.94	18.92	83.84	88.39
30-Jun-17 11:00:00	30-Jun-17 12:00:00		4.12	0.00	0.00	5.19	2.1	329.7		1.36	0.00	0.00	1.71			10.35	18.92	83.84	86.68	30-Jun-17 11:00:00		11.71	18.92	83.84	88.39
30-Jun-17 12:00:00	30-Jun-17 13:00:00		3.55	0.00	0.00	5.16	2.1	329.7		1.17	0.00	0.00	1.70			10.35	18.92	83.84	86.68	30-Jun-17 12:00:00		11.52	18.92	83.84	88.38
30-Jun-17 13:00:00	30-Jun-17 14:00:00		2.99	0.00	0.00	5.23	2.1	329.7		0.99	0.00	0.00	1.72			10.35	18.92	83.84	86.68	30-Jun-17 13:00:00		11.34	18.92	83.84	88.40
30-Jun-17 14:00:00	30-Jun-17 15:00:00		3.29	0.00	0.00	4.54	2.1	329.7		1.09	0.00	0.00	1.50			10.35	18.92	83.84	86.68	30-Jun-17 14:00:00		11.44	18.92	83.84	88.18
30-Jun-17 15:00:00	30-Jun-17 16:00:00		6.60	0.00	0.00	4.41	2.1	329.7		2.17	0.00	0.00	1.45			10.35	18.92	83.84	86.68	30-Jun-17 15:00:00		12.52	18.92	83.84	88.13
30-Jun-17 16:00:00	30-Jun-17 17:00:00		12.25	0.00	0.00	4.28	2.1	329.7		4.04	0.00	0.00	1.41			10.35	18.92	83.84	86.68	30-Jun-17 16:00:00		14.39	18.92	83.84	88.09
30-Jun-17 17:00:00	30-Jun-17 18:00:00		20.17	0.00	0.00	4.14	2.1	329.7		6.65	0.00	0.00	1.36			10.35	18.92	83.84	86.68	30-Jun-17 17:00:00		17.00	18.92	83.84	88.04
30-Jun-17 18:00:00	30-Jun-17 19:00:00		8.32	0.00	0.00	4.15	2.1	329.7		2.74	0.00	0.00	1.37			10.35	18.92	83.84	86.68	30-Jun-17 18:00:00		13.09	18.92	83.84	88.05
30-Jun-17 19:00:00	30-Jun-17 20:00:00		0.00	0.00	0.00	4.22	2.1	329.7		0.00	0.00	0.00	1.39			10.35	18.92	83.84	86.68	30-Jun-17 19:00:00		10.35	18.92	83.84	88.07
30-Jun-17 20:00:00	30-Jun-17 21:00:00		0.00	0.00	0.00	4.29	2.1	329.7		0.00	0.00	0.00	1.42			10.35	18.92	83.84	86.68	30-Jun-17 20:00:00		10.35	18.92	83.84	88.10
30-Jun-17 21:00:00	30-Jun-17 22:00:00		0.00	0.00	0.00	4.49	2.1	329.7		0.00	0.00	0.00	1.48			10.35	18.92	83.84	86.68	30-Jun-17 21:00:00		10.35	18.92	83.84	88.16
30-Jun-17 22:00:00	30-Jun-17 23:00:00		0.00	0.00	0.00	4.67	2.1	329.7		0.00	0.00	0.00	1.54			10.35	18.92	83.84	86.68	30-Jun-17 22:00:00		10.35	18.92	83.84	88.22
30-Jun-17 23:00:00	01-Jul-17 00:00:00		0.00	0.00	0.00	4.75	2.1	329.7		0.00	0.00	0.00	1.57			10.35	18.92	83.84	86.68	30-Jun-17 23:00:00		10.35	18.92	83.84	88.25
01-Jul-17 00:00:00	01-Jul-17 01:00:00		0.00	0.00	0.00	4.84	2.1	329.7		0.00	0.00	0.00	1.60			10.35	18.92	83.84	86.68	01-Jul-17 00:00:00		10.35	18.92	83.84	88.28
01-Jul-17 01:00:00	01-Jul-17 02:00:00		3.06	0.00	0.00	4.81	2.1	329.7		1.01	0.00	0.00	1.58			10.35	18.92	83.84	86.68	01-Jul-17 01:00:00		11.36	18.92	83.84	88.26
01-Jul-17 02:00:00	01-Jul-17 03:00:00		16.59	0.00	0.00	4.83	2.1	329.7		5.47	0.00	0.00	1.59			10.35	18.92	83.84	86.68	01-Jul-17 02:00:00		15.82	18.92	83.84	88.27
01-Jul-17 03:00:00	01-Jul-17 04:00:00		21.22	0.00	0.00	4.96	2.1	329.7		7.00	0.00	0.00	1.63			10.35	18.92	83.84	86.68	01-Jul-17 03:00:00		17.35	18.92	83.84	88.31
01-Jul-17 04:00:00	01-Jul-17 05:00:00		24.23	0.00	0.00	5.08	2.1	329.7		7.99	0.00	0.00	1.68			10.35	18.92	83.84	86.68	01-Jul-17 04:00:00		18.34	18.92	83.84	88.36
01-Jul-17 05:00:00	01-Jul-17 06:00:00		23.33	0.00	0.00	5.18	2.1	329.7		7.69	0.00	0.00	1.71			10.35	18.92	83.84	86.68	01-Jul-17 05:00:00		18.04	18.92	83.84	88.39
01-Jul-17 06:00:00	01-Jul-17 07:00:00		25.87	0.00	0.00	5.13	2.1	329.7		8.53	0.00	0.00	1.69			10.35	18.92	83.84	86.68	01-Jul-17 06:00:00		18.88	18.92	83.84	88.37
01-Jul-17 07:00:00	01-Jul-17 08:00:00		29.83	0.00	0.00	5.07	2.1	329.7		9.84	0.00	0.00	1.67			10.35	18.92	83.84	86.68	01-Jul-17 07:00:00		20.19	18.92	83.84	88.35
01-Jul-17 08:00:00	01-Jul-17 09:00:00		16.93	0.00	0.00	5.00	2.1	329.7		5.58	0.00	0.00	1.65			10.35	18.92	83.84	86.68	01-Jul-17 08:00:00		15.93	18.92	83.84	88.33
01-Jul-17 09:00:00	01-Jul-17 10:00:00		0.00	0.00	0.00	4.92	2.1	329.7		0.00	0.00	0.00	1.62			10.35	18.92	83.84	86.68	01-Jul-17 09:00:00		10.35	18.92	83.84	88.30
01-Jul-17 10:00:00	01-Jul-17 11:00:00		0.00	0.00	0.00	4.76	2.1	329.7		0.00	0.00	0.00	1.57			10.35	18.92	83.84	86.68	01-Jul-17 10:00:00		10.35	18.92	83.84	88.25
01-Jul-17 11:00:00	01-Jul-17 12:00:00		0.00	0.00	0.00	7.14	2.1	329.7		0.00	0.00	0.00	2.35			10.35	18.92	83.84	86.68	01-Jul-17 11:00:00		10.35	18.92	83.84	89.03
01-Jul-17 12:00:00	01-Jul-17 13:00:00		3.67	0.00	0.00	4.44	2.1	329.7		1.21	0.00	0.00	1.46			10.35	18.92	83.84	86.68	01-Jul-17 12:00:00		11.56	18.92	83.84	88.14
01-Jul-17 13:00:00	01-Jul-17 14:00:00		1.39	0.00	0.00	4.30	2.1	329.7		0.46	0.00	0.00	1.42			10.35	18.92	83.84	86.68	01-Jul-17 13:00:00		10.81	18.92	83.84	88.10
01-Jul-17 14:00:00	01-Jul-17 15:00:00		5.62	0.00	0.00	4.16	2.1	329.7		1.85	0.00	0.00	1.37			10.35	18.92	83.84	86.68	01-Jul-17 14:00:00		12.20	18.92	83.84	88.05
01-Jul-17 15:00:00	01-Jul-17 16:00:00		0.91	0.00	0.00	4.06	2.1	329.7		0.30	0.00	0.00	1.34			10.35	18.92	83.84	86.68	01-Jul-17 15:00:00		10.65	18.92	83.84	88.02
01-Jul-17 16:00:00	01-Jul-17 17:00:00		0.81	0.00	0.00	4.03	2.1	329.7		0.27	0.00	0.00	1.33			10.35	18.92	83.84	86.68	01-Jul-17 16:00:00		10.62	18.92	83.84	88.01
01-Jul-17 17:00:00	01-Jul-17 18:00:00		0.52	0.00	0.00	4.00	2.1	329.7		0.17	0.00	0.00	1.32			10.35	18.92	83.84	86.68	01-Jul-17 17:00:00		10.52	18.92	83.84	88.00
01-Jul-17 18:00:00	01-Jul-17 19:00:00		0.24	0.00	0.00	3.98	2.1	329.7		0.08	0.00	0.00	1.31			10.35	18.92	83.84	86.68	01-Jul-17 18:00:00		10.43	18.92	83.84	87.99
01-Jul-17 19:00:00	01-Jul-17 20:00:00		0.38	0.00	0.00	174.51	2.1	329.7		0.13	0.00	0.00	57.53			10.35	18.92	83.84	86.68	01-Jul-17 19:00:00		10.48	18.92	83.84	144.21
01-Jul-17 20:00:00	01-Jul-17 21:00:00		8.66	0.00	0.00	49.05	2.1	329.7		2.85	0.00	0.00	16.17			10.35	18.92	83.84	86.68	01-Jul-17 20:00:00		13.20	18.92	83.84	102.85
01-Jul-17 21:00:00	01-Jul-17 22:00:00		0.00	0.00	0.00	6.02	2.1	329.7		0.00	0.00	0.00	1.99			10.35	18.92	83.84	86.68	01-Jul-17 21:00:00		10.35	18.92	83.84	88.67
01-Jul-17 22:00:00	01-Jul-17 23:00:00		0.00	0.00	0.00	5.69	2.1	329.7		0.00	0.00	0.00	1.88			10.35	18.92	83.84	86.68	01-Jul-17 22:00:00		10.35	18.92	83.84	88.56
01-Jul-17 23:00:00	02-Jul-17 00:00:00		5.93	0.00	0.00	5.35	2.1	329.7		1.95	0.00	0.00	1.76			10.35	18.92	83.84	86.68	01-Jul-17 23:00:00		12.30	18.92	83.84	88.44
02-Jul-17 00:00:00	02-Jul-17 01:00:00		31.68	0.00	0.00	5.06	2.1	329.7		10.44	0.00	0.00	1.67			10.35	18.92	83.84	86.68	02-Jul-17 00:00:00		20.79	18.92	83.84	88.35
02-Jul-17 01:00:00	02-Jul-17 02:00:00		1.36	0.00	0.00	5.03	2.1	329.7		0.45	0.00	0.00	1.66			10.35	18.92	83.84	86.68	02-Jul-17 01:00:00		10.80	18.92	83.84	88.34
02-Jul-17 02:00:00	02-Jul-17 03:00:00		0.00	0.00	0.00	5.05	2.1	329.7		0.00	0.00	0.00	1.66			10.35	18.92	83.84	86.68	02-Jul-17 02:00:00		10.35	18.92	83.84	88.34
02-Jul-17 03:00:00	02-Jul-17 04:00:00		5.59	0.00	0.00	5.38	2.1	329.7		1.84	0.00	0.00	1.77			10.35	18.92	83.84	86.68	02-Jul-17 03:00:00		12.19	18.92	83.84	88.45
02-Jul-17 04:00:00	02-Jul-17 05:00:00		22.09	0.00	0.00	6.68	2.1	329.7		7.28	0.00	0.00	2.20			10.35	18.92	83.84	86.68	02-Jul-17 04:00:00		17.63	18.92	83.84	88.88
02-Jul-17 05:00:00	02-Jul-17 06:00:00		19.95	0.00	0.00	5.14	2.1	329.7		6.58	0.00	0.00	1.70			10.35	18.92	83.84	86.68	02-Jul-17 05:00:00		16.93	18.92	83.84	88.38
02-Jul-17 06:00:00	02-Jul-17 07:00:00		7.69	0.00	0.00	5.08	2.1	329.7		2.54	0.00	0.00	1.67			10.35	18.92	83.84	86.68	02-Jul-17 06:00:00		12.89	18.92	83.84	88.35
02-Jul-17 07:00:00	02-Jul-17 08:00:00		8.03	0.00	0.00	5.01	2.1	329.7		2.65	0.00	0.00	1.65			10.35	18.92	83.84	86.68	02-Jul-17 07:00:00		13.00	18.92	83.84	88.33
02-Jul-17 08:00:00	02-Jul-17 09:00:00		8.37	0.00	0.00	4.84	2.1	329.7		2.76	0.00	0.00	1.60			10.35	18.92	83.84	86.68	02-Jul-17 08:00:00		13.11	18.92	83.84	88.28
02-Jul-17 09:00:00	02-Jul-17 10:00:00		8.71	0.00	0.00	4.62	2.1	329.7		2.87	0.00	0.00	1.52			10.35	18.92	83.84	86.68	02-Jul-17 09:00:00		13.22	18.92	83.84	88.20
02-Jul-17 10:00:00	02-Jul-17 11:00:00		8.77	0.00	0.00	4.44	2.1	329.7		2.89	0.00	0.00	1.46			10.35	18.92	83.84	86.68	02-Jul-17 10:00:00		13.24	18.92	83.84	88.14
02-Jul-17 11:00:00	02-Jul-17 12:00:00		12.11	0.00	0.00	4.25	2.1	329.7		3.99	0.00	0.00	1.40			10.35	18.92	83.84	86.68	02-Jul-17 11:00:00		14.34	18.92	83.84	88.08
02-Jul-17 12:00:00	02-Jul-17 13:00:00		8.52	0.00	0.00	4.09	2.1	329.7		2.81	0.00	0.00	1.35			10.35	18.92	83.84	86.68	02-Jul-17 12:00:00		13.16	18.92	83.84	88.03
02-Jul-17 13:00:00	02-Jul-17 14:00:00		2.96	0.00	0.00	4.00	2.1	329.7		0.98	0.00	0.00	1.32			10.35	18.92	83.84	86.68	02-Jul-17 13:00:00		11.33	18.92	83.84	88.00
02-Jul-17 14:00:00	02-Jul-17 15:00:00		3.27	0.00	0.00	3.92	2.1	329.7		1.08	0.00	0.00	1.29			10.35	18.92	83.84	86.68	02-Jul-17 14:00:00		11.43	18.92	83.84	87.97
02-Jul-17 15:00:00	02-Jul-17 16:00:00		1.58	0.00	0.00	3.84	2.1	329.7		0.52	0.00	0.00	1.27			10.35	18.92	83.84	86.68

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
04-Jul-17 18:00:00	04-Jul-17 19:00:00		0.00	0.00	0.00	4.61	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	04-Jul-17 18:00:00		**10.35**	**18.92**	**83.84**	**88.20**
04-Jul-17 19:00:00	04-Jul-17 20:00:00		0.00	0.00	0.00	4.61	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	04-Jul-17 19:00:00		**10.35**	**18.92**	**83.84**	**88.20**
04-Jul-17 20:00:00	04-Jul-17 21:00:00		0.00	0.00	0.00	4.61	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	04-Jul-17 20:00:00		**10.35**	**18.92**	**83.84**	**88.20**
04-Jul-17 21:00:00	04-Jul-17 22:00:00		121.10	0.00	0.00	4.66	2.1	329.7		39.93	0.00	0.00	1.54		10.35	18.92	83.84	86.68	04-Jul-17 21:00:00		**50.28**	**18.92**	**83.84**	**88.22**
04-Jul-17 22:00:00	04-Jul-17 23:00:00		0.57	0.00	0.00	4.68	2.1	329.7		0.19	0.00	0.00	1.54		10.35	18.92	83.84	86.68	04-Jul-17 22:00:00		**10.54**	**18.92**	**83.84**	**88.22**
04-Jul-17 23:00:00	05-Jul-17 00:00:00		1.55	0.00	0.00	4.67	2.1	329.7		0.51	0.00	0.00	1.54		10.35	18.92	83.84	86.68	04-Jul-17 23:00:00		**10.86**	**18.92**	**83.84**	**88.22**
05-Jul-17 00:00:00	05-Jul-17 01:00:00		2.42	0.00	0.00	4.66	2.1	329.7		0.80	0.00	0.00	1.53		10.35	18.92	83.84	86.68	05-Jul-17 00:00:00		**11.15**	**18.92**	**83.84**	**88.21**
05-Jul-17 01:00:00	05-Jul-17 02:00:00		7.00	0.00	0.00	4.73	2.1	329.7		2.31	0.00	0.00	1.56		10.35	18.92	83.84	86.68	05-Jul-17 01:00:00		**12.66**	**18.92**	**83.84**	**88.24**
05-Jul-17 02:00:00	05-Jul-17 03:00:00		21.81	0.00	0.00	4.88	2.1	329.7		7.19	0.00	0.00	1.61		10.35	18.92	83.84	86.68	05-Jul-17 02:00:00		**17.54**	**18.92**	**83.84**	**88.29**
05-Jul-17 03:00:00	05-Jul-17 04:00:00		533.58	0.00	0.00	4.99	2.1	329.7		175.92	0.00	0.00	1.65		10.35	18.92	83.84	86.68	05-Jul-17 03:00:00		**186.27**	**18.92**	**83.84**	**88.33**
05-Jul-17 04:00:00	05-Jul-17 05:00:00		1,162.53	0.00	0.00	5.10	2.1	329.7		383.29	0.00	0.00	1.68		10.35	18.92	83.84	86.68	05-Jul-17 04:00:00		**393.64**	**18.92**	**83.84**	**88.36**
05-Jul-17 05:00:00	05-Jul-17 06:00:00		1,059.84	0.00	0.00	5.20	2.1	329.7		349.43	0.00	0.00	1.71		10.35	18.92	83.84	86.68	05-Jul-17 05:00:00		**359.78**	**18.92**	**83.84**	**88.39**
05-Jul-17 06:00:00	05-Jul-17 07:00:00		1,008.79	0.00	0.00	5.21	2.1	329.7		332.60	0.00	0.00	1.72		10.35	18.92	83.84	86.68	05-Jul-17 06:00:00		**342.95**	**18.92**	**83.84**	**88.40**
05-Jul-17 07:00:00	05-Jul-17 08:00:00		1,081.57	0.00	0.00	5.22	2.1	329.7		356.59	0.00	0.00	1.72		10.35	18.92	83.84	86.68	05-Jul-17 07:00:00		**366.94**	**18.92**	**83.84**	**88.40**
05-Jul-17 08:00:00	05-Jul-17 09:00:00		1,083.96	0.00	0.00	5.22	2.1	329.7		357.38	0.00	0.00	1.72		10.35	18.92	83.84	86.68	05-Jul-17 08:00:00		**367.73**	**18.92**	**83.84**	**88.40**
05-Jul-17 09:00:00	05-Jul-17 10:00:00		990.44	0.00	0.00	5.27	2.1	329.7		326.55	0.00	0.00	1.74		10.35	18.92	83.84	86.68	05-Jul-17 09:00:00		**336.90**	**18.92**	**83.84**	**88.42**
05-Jul-17 10:00:00	05-Jul-17 11:00:00		216.05	0.00	0.00	5.05	2.1	329.7		71.23	0.00	0.00	1.66		10.35	18.92	83.84	86.68	05-Jul-17 10:00:00		**81.58**	**18.92**	**83.84**	**88.34**
05-Jul-17 11:00:00	05-Jul-17 12:00:00		7.26	0.00	0.00	4.72	2.1	329.7		2.39	0.00	0.00	1.56		10.35	18.92	83.84	86.68	05-Jul-17 11:00:00		**12.74**	**18.92**	**83.84**	**88.24**
05-Jul-17 12:00:00	05-Jul-17 13:00:00		1.05	0.00	0.00	4.40	2.1	329.7		0.35	0.00	0.00	1.45		10.35	18.92	83.84	86.68	05-Jul-17 12:00:00		**10.70**	**18.92**	**83.84**	**88.13**
05-Jul-17 13:00:00	05-Jul-17 14:00:00		0.00	0.00	0.00	4.10	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	05-Jul-17 13:00:00		**10.35**	**18.92**	**83.84**	**88.03**
05-Jul-17 14:00:00	05-Jul-17 15:00:00		317.72	0.00	0.00	3.97	2.1	329.7		104.75	0.00	0.00	1.31		10.35	18.92	83.84	86.68	05-Jul-17 14:00:00		**115.10**	**18.92**	**83.84**	**87.99**
05-Jul-17 15:00:00	05-Jul-17 16:00:00		651.31	0.00	0.00	3.87	2.1	329.7		214.74	0.00	0.00	1.28		10.35	18.92	83.84	86.68	05-Jul-17 15:00:00		**225.09**	**18.92**	**83.84**	**87.96**
05-Jul-17 16:00:00	05-Jul-17 17:00:00		422.87	0.00	0.00	3.77	2.1	329.7		139.42	0.00	0.00	1.24		10.35	18.92	83.84	86.68	05-Jul-17 16:00:00		**149.77**	**18.92**	**83.84**	**87.92**
05-Jul-17 17:00:00	05-Jul-17 18:00:00		413.09	0.00	0.00	3.83	2.1	329.7		136.20	0.00	0.00	1.26		10.35	18.92	83.84	86.68	05-Jul-17 17:00:00		**146.55**	**18.92**	**83.84**	**87.94**
05-Jul-17 18:00:00	05-Jul-17 19:00:00		719.94	0.00	0.00	4.56	2.1	329.7		237.36	0.00	0.00	1.50		10.35	18.92	83.84	86.68	05-Jul-17 18:00:00		**247.71**	**18.92**	**83.84**	**88.18**
05-Jul-17 19:00:00	05-Jul-17 20:00:00		883.42	0.00	0.00	5.38	2.1	329.7		291.26	0.00	0.00	1.77		10.35	18.92	83.84	86.68	05-Jul-17 19:00:00		**301.61**	**18.92**	**83.84**	**88.45**
05-Jul-17 20:00:00	05-Jul-17 21:00:00		864.55	0.00	0.00	148.49	2.1	329.7		285.04	0.00	0.00	48.96		10.35	18.92	83.84	86.68	05-Jul-17 20:00:00		**295.39**	**18.92**	**83.84**	**135.64**
05-Jul-17 21:00:00	05-Jul-17 22:00:00		986.77	0.00	0.00	5.09	2.1	329.7		325.34	0.00	0.00	1.68		10.35	18.92	83.84	86.68	05-Jul-17 21:00:00		**335.69**	**18.92**	**83.84**	**88.36**
05-Jul-17 22:00:00	05-Jul-17 23:00:00		974.48	0.00	0.00	4.99	2.1	329.7		321.28	0.00	0.00	1.65		10.35	18.92	83.84	86.68	05-Jul-17 22:00:00		**331.63**	**18.92**	**83.84**	**88.33**
05-Jul-17 23:00:00	06-Jul-17 00:00:00		950.51	0.00	0.00	4.89	2.1	329.7		313.38	0.00	0.00	1.61		10.35	18.92	83.84	86.68	05-Jul-17 23:00:00		**323.73**	**18.92**	**83.84**	**88.29**
06-Jul-17 00:00:00	06-Jul-17 01:00:00		950.37	0.00	0.00	4.81	2.1	329.7		313.34	0.00	0.00	1.59		10.35	18.92	83.84	86.68	06-Jul-17 00:00:00		**323.69**	**18.92**	**83.84**	**88.27**
06-Jul-17 01:00:00	06-Jul-17 02:00:00		948.60	0.00	0.00	4.83	2.1	329.7		312.75	0.00	0.00	1.59		10.35	18.92	83.84	86.68	06-Jul-17 01:00:00		**323.10**	**18.92**	**83.84**	**88.27**
06-Jul-17 02:00:00	06-Jul-17 03:00:00		946.35	0.00	0.00	4.87	2.1	329.7		312.01	0.00	0.00	1.61		10.35	18.92	83.84	86.68	06-Jul-17 02:00:00		**322.36**	**18.92**	**83.84**	**88.29**
06-Jul-17 03:00:00	06-Jul-17 04:00:00		946.15	0.00	0.00	4.91	2.1	329.7		311.95	0.00	0.00	1.62		10.35	18.92	83.84	86.68	06-Jul-17 03:00:00		**322.30**	**18.92**	**83.84**	**88.30**
06-Jul-17 04:00:00	06-Jul-17 05:00:00		946.26	0.00	0.00	4.98	2.1	329.7		311.98	0.00	0.00	1.64		10.35	18.92	83.84	86.68	06-Jul-17 04:00:00		**322.33**	**18.92**	**83.84**	**88.32**
06-Jul-17 05:00:00	06-Jul-17 06:00:00		992.84	0.00	0.00	5.05	2.1	329.7		327.34	0.00	0.00	1.66		10.35	18.92	83.84	86.68	06-Jul-17 05:00:00		**337.69**	**18.92**	**83.84**	**88.34**
06-Jul-17 06:00:00	06-Jul-17 07:00:00		921.50	0.00	0.00	5.10	2.1	329.7		303.82	0.00	0.00	1.68		10.35	18.92	83.84	86.68	06-Jul-17 06:00:00		**314.17**	**18.92**	**83.84**	**88.36**
06-Jul-17 07:00:00	06-Jul-17 08:00:00		938.49	0.00	0.00	5.16	2.1	329.7		309.42	0.00	0.00	1.70		10.35	18.92	83.84	86.68	06-Jul-17 07:00:00		**319.77**	**18.92**	**83.84**	**88.38**
06-Jul-17 08:00:00	06-Jul-17 09:00:00		932.08	0.00	0.00	5.17	2.1	329.7		307.31	0.00	0.00	1.70		10.35	18.92	83.84	86.68	06-Jul-17 08:00:00		**317.66**	**18.92**	**83.84**	**88.38**
06-Jul-17 09:00:00	06-Jul-17 10:00:00		930.07	0.00	0.00	5.00	2.1	329.7		306.64	0.00	0.00	1.65		10.35	18.92	83.84	86.68	06-Jul-17 09:00:00		**316.99**	**18.92**	**83.84**	**88.33**
06-Jul-17 10:00:00	06-Jul-17 11:00:00		984.63	0.00	0.00	4.81	2.1	329.7		324.63	0.00	0.00	1.58		10.35	18.92	83.84	86.68	06-Jul-17 10:00:00		**334.98**	**18.92**	**83.84**	**88.26**
06-Jul-17 11:00:00	06-Jul-17 12:00:00		960.73	0.00	0.00	4.61	2.1	329.7		316.75	0.00	0.00	1.52		10.35	18.92	83.84	86.68	06-Jul-17 11:00:00		**327.10**	**18.92**	**83.84**	**88.20**
06-Jul-17 12:00:00	06-Jul-17 13:00:00		928.97	0.00	0.00	4.41	2.1	329.7		306.28	0.00	0.00	1.45		10.35	18.92	83.84	86.68	06-Jul-17 12:00:00		**316.63**	**18.92**	**83.84**	**88.13**
06-Jul-17 13:00:00	06-Jul-17 14:00:00		922.26	0.00	0.00	4.29	2.1	329.7		304.07	0.00	0.00	1.42		10.35	18.92	83.84	86.68	06-Jul-17 13:00:00		**314.42**	**18.92**	**83.84**	**88.10**
06-Jul-17 14:00:00	06-Jul-17 15:00:00		902.83	0.00	0.00	4.22	2.1	329.7		297.66	0.00	0.00	1.39		10.35	18.92	83.84	86.68	06-Jul-17 14:00:00		**308.01**	**18.92**	**83.84**	**88.07**
06-Jul-17 15:00:00	06-Jul-17 16:00:00		894.62	0.00	0.00	4.14	2.1	329.7		294.96	0.00	0.00	1.36		10.35	18.92	83.84	86.68	06-Jul-17 15:00:00		**305.31**	**18.92**	**83.84**	**88.04**
06-Jul-17 16:00:00	06-Jul-17 17:00:00		892.14	0.00	0.00	4.11	2.1	329.7		294.14	0.00	0.00	1.35		10.35	18.92	83.84	86.68	06-Jul-17 16:00:00		**304.49**	**18.92**	**83.84**	**88.03**
06-Jul-17 17:00:00	06-Jul-17 18:00:00		922.18	0.00	0.00	4.36	2.1	329.7		304.04	0.00	0.00	1.44		10.35	18.92	83.84	86.68	06-Jul-17 17:00:00		**314.39**	**18.92**	**83.84**	**88.12**
06-Jul-17 18:00:00	06-Jul-17 19:00:00		916.67	0.00	0.00	4.64	2.1	329.7		302.22	0.00	0.00	1.53		10.35	18.92	83.84	86.68	06-Jul-17 18:00:00		**312.57**	**18.92**	**83.84**	**88.21**
06-Jul-17 19:00:00	06-Jul-17 20:00:00		914.14	0.00	0.00	4.93	2.1	329.7		301.39	0.00	0.00	1.62		10.35	18.92	83.84	86.68	06-Jul-17 19:00:00		**311.74**	**18.92**	**83.84**	**88.30**
06-Jul-17 20:00:00	06-Jul-17 21:00:00		930.96	0.00	0.00	5.17	2.1	329.7		306.94	0.00	0.00	1.70		10.35	18.92	83.84	86.68	06-Jul-17 20:00:00		**317.29**	**18.92**	**83.84**	**88.38**
06-Jul-17 21:00:00	06-Jul-17 22:00:00		952.82	0.00	0.00	5.22	2.1	329.7		314.14	0.00	0.00	1.72		10.35	18.92	83.84	86.68	06-Jul-17 21:00:00		**324.49**	**18.92**	**83.84**	**88.40**
06-Jul-17 22:00:00	06-Jul-17 23:00:00		949.13	0.00	0.00	5.24	2.1	329.7		312.93	0.00	0.00	1.73		10.35	18.92	83.84	86.68	06-Jul-17 22:00:00		**323.28**	**18.92**	**83.84**	**88.41**
06-Jul-17 23:00:00	07-Jul-17 00:00:00		856.26	0.00	0.00	5.26	2.1	329.7		282.31	0.00	0.00	1.73		10.35	18.92	83.84	86.68	06-Jul-17 23:00:00		**292.66**	**18.92**	**83.84**	**88.41**
07-Jul-17 00:00:00	07-Jul-17 01:00:00		905.70	0.00	0.00	5.24	2.1	329.7		298.61	0.00	0.00	1.73		10.35	18.92	83.84	86.68	07-Jul-17 00:00:00		**308.96**	**18.92**	**83.84**	**88.41**
07-Jul-17 01:00:00	07-Jul-17 02:00:00		250.03	0.00	0.00	5.21	2.1	329.7		82.44	0.00	0.00	1.72		10.35	18.92	83.84	86.68	07-Jul-17 01:00:00		**92.79**	**18.92**	**83.84**	**88.40**
07-Jul-17 02:00:00	07-Jul-17 03:00:00		33.05	0.00	0.00	5.21	2.1	329.7		10.90	0.00	0.00	1.72		10.35	18.92	83.84	86.68	07-Jul-17 02:00:00		**21.25**	**18.92**	**83.84**	**88.40**
07-Jul-17 03:00:00	07-Jul-17 04:00:00		0.94	0.00	0.00	5.21	2.1	329.7		0.31	0.00	0.00	1.72		10.35	18.92	83.84	86.68	07-Jul-17 03:00:00		**10.66**	**18.92**	**83.84**	**88.40**
07-Jul-17 04:00:00	07-Jul-17 05:00:00		0.52	0.00	0.00	5.24	2.1	329.7		0.17	0.00	0.00	1.73		10.35	18.92	83.84	86.68	07-Jul-17 04:00:00		**10.52**	**18.92**	**83.84**	**88.41**
07-Jul-17 05:00:00	07-Jul-17 06:00:00		14.71	0.00	0.00	5.26	2.1	329.7		4.85	0.00	0.00	1.73		10.35	18.92	83.84	86.68	07-Jul-17 05:00:00		**15.20**	**18.92**	**83.84**	**88.41**
07-Jul-17 06:00:00	07-Jul-17 07:00:00		6.56	0.00	0.00	5.24	2.1	329.7		2.16	0.00	0.00	1.73		10.35	18.92	83.84	86.68	07-Jul-17 06:00:00		**12.51**	**18.92**	**83.84**	**88.41**
07-Jul-17 07:00:00	07-Jul-17 08:00:00		0.40	0.00	0.00	5.22	2.1	329.7		0.13	0.00	0.00	1.72		10.35	18.92	83.84	86.68	07-Jul-17 07:00:00		**10.48**	**18.92**	**83.84**	**88.40**
07-Jul-17 08:00:00	07-Jul-17 09:00:00		0.14	0.00	0.00	5.15	2.1	329.7		0.05	0.00	0.00	1.70		10.35	18.92	83.84	86.68	07-Jul-17 08:00:00		**10.40**	**18.92**	**83.84**	**88.38**
07-Jul-17 09:00:00	07-Jul-17 10:00:00		0.15	0.00	0.00	4.98	2.1	329.7		0.05	0.00	0.00	1.64		10.35	18.92	83.84	86.68	07-Jul-17 09:00:00		**10.40**	**18.92**	**83.84**	**88.32**
07-Jul-17 10:00:00	07-Jul-17 11:00:00		10.45	0.00	0.00	4.82	2.1	329.7		3.45	0.00	0.00	1.59		10.35	18.92	83.84	86.68	07-Jul-17 10:00:00		**13.80**	**18.92**	**83.84**	**88.27**
07-Jul-17 11:00:00	07-Jul-17 12:00:00		5.84	0.00	0.00	4.67	2.1	329.7		1.93	0.00	0.00	1.54		10.35	18.92	83.84	86.68	07-Jul-17 11:00:00		**12.28**	**18.92**	**83.84**	**88.22**
07-Jul-17 12:00:00	07-Jul-17 13:00:00		0.00	0.00	0.00	4.55	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	07-Jul-17 12:00:00		**10.35**	**18.92**	**83.84**	**88.18**
07-Jul-17 13:00:00	07-Jul-17 14:00:00		0.00	0.00	0.00	4.51	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	07-Jul-17 13:00:00		**10.35**	**18.92**	**83.84**	**88.17**
07-Jul-17 14:00:00	07-Jul-17 15:00:00		0.00	0.00	0.00	4.45	2.1	329.7		0.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	07-Jul-17 14:00:00		**10.35**	**18.92**	**83.84**	**88.15**
07-Jul-17 15:00:00	07-Jul-17 16:00:00		0.00	0.00	0.00	4.39	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	07-Jul-17 15:00:00		**10.35**	**18.92**	**83.84**	**88.13**
07-Jul-17 16:00:00	07-Jul-17 17:00:00		0.00	0.00	0.00	4.25	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	07-Jul-17 16:00:00		**10.35**	**18.92**	**83.84**	**88.08**
07-Jul-17 17:00:00	07-Jul-17 18:00:00		0.00	0.00	0.00	4.20	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	07-Jul-17 17:00:00		**10.35**	**18.92**	**83.84**	**88.06**
07-Jul-17 18:00:00	07-Jul-17 19:00:00		0.00	0.00	0.00	4.25	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	07-Jul-17 18:00:00		**10.35**	**18.92**	**83.84**	**88.08**
07-Jul-17 19:00:00	07-Jul-17 20:00:00		0.00	0.00	0.00	4.31	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	07-Jul-17 19:00:00		**10.35**	**18.92**	**83.84**	**88.10**
07-Jul-17 20:00:00	07-Jul-17 21:00:00		0.02	0.00	0.00	4.37	2.1	329.7		0.01	0.00	0.00	1.44		10.35	18.92	83.84	86.68	07-Jul-17 20:00:00		**10.36**	**18.92**	**83.84**	**88.12**
07-Jul-17 21:00:00	07-Jul-17 22:00:00		0.05	0.00	0.00	4.53	2.1	329.7		0.02	0.00	0.00	1.49		10.35	18.92	83.84	86.68	07-Jul-17 21:00:00		**10.37**	**18.92**	**83.84**	**88.17**
07-Jul-17 22:00:00	07-Jul-17 23:00:00		0.49	0.00	0.00	4.72	2.1	329.7		0.16	0.00	0.00	1.56		10.35	18.92	83.84	86.68	07-Jul-17 22:00:00		**10.51**	**18.92**	**83.84**	**88.24**
07-Jul-17 23:00:00	08-Jul-17 00:00:00		0.00	0.00	0.00	4.92	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	07-Jul-17 23:00:00		**10.35**	**18.92**	**83.84**	**88.30**
08-Jul-17 00:00:00	08-Jul-17 01:00:00		0.00	0.00	0.00	5.09	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	08-Jul-17 00:00:00		**10.35**	**18.92**	**83.84**	**88.36**
08-Jul-17 01:00:00	08-Jul-17 02:00:00		0.00	0.00	0.00	5.14	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	08-Jul-17 01:00:00		**10.35**	**18.92**	**83.84**	**88.37**
08-Jul-17 02:00:00	08-Jul-17 03:00:00		2.83	0.00	0.00	57.43	2.1	329.7		0.93	0.00	0.00	18.94		10.35	18.92	83.84	86.68	08-Jul-17 02:00:00		**11.28**	**18.92**	**83.84**	**105.62**
08-Jul-17 03:00:00	08-Jul-17 04:00:00		26.85	0.00	0.00	5.11	2.1	329.7		8.85	0.00	0.00	1.68		10.35	18.92	83.84	86.68	08-Jul-17 03:00:00		**19.20**	**18.92**	**83.84**	**88.36**
08-Jul-17 04:00:00	08-Jul-17 05:00:00		22.41	0.00	0.00	5.16	2.1	329.7		7.39	0.00	0.00	1.70		10.35	18.92	83.84	86.68	08-Jul-17 04:00:00		**17.74**	**18.92**	**83.84**	**88.38**
08-Jul-17 05:00:00	08-Jul-17 06:00:00		43.06	0.00	0.00	5.21	2.1	329.7		14.20	0.00	0.00	1.72		10.35	18.92	83.84	86.68	08-Jul-17 05:00:00		**24.55**	**18.92**	**83.84**	**88.40**
08-Jul-17 06:00:00	08-Jul-17 07:00:00		29.29	0.00	0.00	5.22	2.1	329.7		9.66	0.00	0.00	1.72		10.35	18.92	83.84	86.68	08-Jul-17 06:00:00		**20.01**	**18.92**	**83.84**	**88.40**
08-Jul-17 07:00:00	08-Jul-17 08:00:00		21.86	0.00	0.00	5.11	2.1	329.7		7.21	0.00	0.00	1.68		10.35	18.92	83.84	86.68	08-Jul-17 07:00:00		**17.56**	**18.92**	**83.84**	**88.36**
08-Jul-17 08:00:00	08-Jul-17 09:00:00		15.11	0.00	0.00	5.00	2.1	329.7		4.98	0.00	0.00	1.65		10.35	18.92	83.84	86.68	08-Jul-17 08:00:00		**15.33**	**18.92**	**83.84**	**88.33**
08-Jul-17 09:00:00	08-Jul-17 10:00:00		8.00	0.00	0.00	4.89	2.1	329.7		2.64	0.00	0.00	1.61		10.35	18.92	83.84	86.68	08-Jul-17 09:00:00		**12.99**	**18.92**	**83.84**	**88.29**
08-Jul-17 10:00:00	08-Jul-17 11:00:00		14.03	0.00	0.00	4.76	2.1	329.7		4.63	0.00	0.00	1.57		10.35	18.92	83.84	86.68	08-Jul-17 10:00:00		**14.98**	**18.92**	**83.84**	**88.25**
08-Jul-17 11:00:00	08-Jul-17 12:00:00		11.53	0.00	0.00	4.60	2.1	329.7		3.80	0.00	0.00	1.52		10.35	18.92	83.84	86.68	08-Jul-17 11:00:00		**14.15**	**18.92**	**83.84**	**88.20**
08-Jul-17 12:00:00	08-Jul-17 13:00:00		0.94	0.00	0.00	4.47	2.1	329.7		0.31	0.00	0.00	1.47		10.35	18.92	83.84	86.68	08-Jul-17 12:00:00		**10.66**	**18.92**	**83.84**	**88.15**
08-Jul-17 13:00:00	08-Jul-17 14:00:00		0.16	0.00	0.00	4.34	2.1	329.7		0.05	0.00	0.00	1.43		10.35	18.92	83.84	86.68	08-Jul-17 13:00:00		**10.40**	**18.92**	**83.84**	**88.11**
08-Jul-17 14:00:00	08-Jul-17 15:00:00		0.11	0.00	0.00	4.11	2.1	329.7		0.04	0.00	0.00	1.36		10.35	18.92	83.84	86.68	08-Jul-17 14:00:00		**10.39**	**18.92**	**83.84**	**88.04**
08-Jul-17 15:00:00	08-Jul-17 16:00:00		0.06	0.00	0

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
10-Jul-17 17:00:00	10-Jul-17 18:00:00		0.00	0.00	0.00	4.21	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	10-Jul-17 17:00:00		10.35	18.92	83.84	88.07
10-Jul-17 18:00:00	10-Jul-17 19:00:00		0.00	0.00	0.00	4.25	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	10-Jul-17 18:00:00		10.35	18.92	83.84	88.08
10-Jul-17 19:00:00	10-Jul-17 20:00:00		0.00	0.00	0.00	4.29	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	10-Jul-17 19:00:00		10.35	18.92	83.84	88.09
10-Jul-17 20:00:00	10-Jul-17 21:00:00		0.00	0.00	0.00	4.47	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	10-Jul-17 20:00:00		10.35	18.92	83.84	88.16
10-Jul-17 21:00:00	10-Jul-17 22:00:00		0.00	0.00	0.00	4.63	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	10-Jul-17 21:00:00		10.35	18.92	83.84	88.21
10-Jul-17 22:00:00	10-Jul-17 23:00:00		0.71	0.00	0.00	4.78	2.1	329.7		0.23	0.00	0.00	1.58		10.35	18.92	83.84	86.68	10-Jul-17 22:00:00		10.58	18.92	83.84	88.26
10-Jul-17 23:00:00	11-Jul-17 00:00:00		6.64	0.00	0.00	4.93	2.1	329.7		2.19	0.00	0.00	1.63		10.35	18.92	83.84	86.68	10-Jul-17 23:00:00		12.54	18.92	83.84	88.31
11-Jul-17 00:00:00	11-Jul-17 01:00:00		24.31	0.00	0.00	4.95	2.1	329.7		8.01	0.00	0.00	1.63		10.35	18.92	83.84	86.68	11-Jul-17 00:00:00		18.36	18.92	83.84	88.31
11-Jul-17 01:00:00	11-Jul-17 02:00:00		8.08	0.00	0.00	5.01	2.1	329.7		2.67	0.00	0.00	1.65		10.35	18.92	83.84	86.68	11-Jul-17 01:00:00		13.02	18.92	83.84	88.33
11-Jul-17 02:00:00	11-Jul-17 03:00:00		2.83	0.00	0.00	5.07	2.1	329.7		0.93	0.00	0.00	1.67		10.35	18.92	83.84	86.68	11-Jul-17 02:00:00		11.28	18.92	83.84	88.35
11-Jul-17 03:00:00	11-Jul-17 04:00:00		4.16	0.00	0.00	5.13	2.1	329.7		1.37	0.00	0.00	1.69		10.35	18.92	83.84	86.68	11-Jul-17 03:00:00		11.72	18.92	83.84	88.37
11-Jul-17 04:00:00	11-Jul-17 05:00:00		16.03	0.00	0.00	5.18	2.1	329.7		5.29	0.00	0.00	1.71		10.35	18.92	83.84	86.68	11-Jul-17 04:00:00		15.64	18.92	83.84	88.39
11-Jul-17 05:00:00	11-Jul-17 06:00:00		0.57	0.00	0.00	5.15	2.1	329.7		0.19	0.00	0.00	1.70		10.35	18.92	83.84	86.68	11-Jul-17 05:00:00		10.54	18.92	83.84	88.38
11-Jul-17 06:00:00	11-Jul-17 07:00:00		1.66	0.00	0.00	5.13	2.1	329.7		0.55	0.00	0.00	1.69		10.35	18.92	83.84	86.68	11-Jul-17 06:00:00		10.90	18.92	83.84	88.37
11-Jul-17 07:00:00	11-Jul-17 08:00:00		0.00	0.00	0.00	5.11	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	11-Jul-17 07:00:00		10.35	18.92	83.84	88.36
11-Jul-17 08:00:00	11-Jul-17 09:00:00		0.00	0.00	0.00	5.09	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	11-Jul-17 08:00:00		10.35	18.92	83.84	88.36
11-Jul-17 09:00:00	11-Jul-17 10:00:00		0.00	0.00	0.00	4.84	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	11-Jul-17 09:00:00		10.35	18.92	83.84	88.28
11-Jul-17 10:00:00	11-Jul-17 11:00:00		0.78	0.00	0.00	4.59	2.1	329.7		0.26	0.00	0.00	1.51		10.35	18.92	83.84	86.68	11-Jul-17 10:00:00		10.61	18.92	83.84	88.19
11-Jul-17 11:00:00	11-Jul-17 12:00:00		2.06	0.00	0.00	4.33	2.1	329.7		0.68	0.00	0.00	1.43		10.35	18.92	83.84	86.68	11-Jul-17 11:00:00		11.03	18.92	83.84	88.11
11-Jul-17 12:00:00	11-Jul-17 13:00:00		1.60	0.00	0.00	4.14	2.1	329.7		0.53	0.00	0.00	1.36		10.35	18.92	83.84	86.68	11-Jul-17 12:00:00		10.88	18.92	83.84	88.04
11-Jul-17 13:00:00	11-Jul-17 14:00:00		1.02	0.00	0.00	4.03	2.1	329.7		0.34	0.00	0.00	1.33		10.35	18.92	83.84	86.68	11-Jul-17 13:00:00		10.69	18.92	83.84	88.01
11-Jul-17 14:00:00	11-Jul-17 15:00:00		0.44	0.00	0.00	3.93	2.1	329.7		0.14	0.00	0.00	1.30		10.35	18.92	83.84	86.68	11-Jul-17 14:00:00		10.49	18.92	83.84	87.98
11-Jul-17 15:00:00	11-Jul-17 16:00:00		0.02	0.00	0.00	3.83	2.1	329.7		0.01	0.00	0.00	1.26		10.35	18.92	83.84	86.68	11-Jul-17 15:00:00		10.36	18.92	83.84	87.94
11-Jul-17 16:00:00	11-Jul-17 17:00:00		0.00	0.00	0.00	3.87	2.1	329.7		0.00	0.00	0.00	1.28		10.35	18.92	83.84	86.68	11-Jul-17 16:00:00		10.35	18.92	83.84	87.96
11-Jul-17 17:00:00	11-Jul-17 18:00:00		0.00	0.00	0.00	3.91	2.1	329.7		0.00	0.00	0.00	1.29		10.35	18.92	83.84	86.68	11-Jul-17 17:00:00		10.35	18.92	83.84	87.97
11-Jul-17 18:00:00	11-Jul-17 19:00:00		0.00	0.00	0.00	3.95	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	11-Jul-17 18:00:00		10.35	18.92	83.84	87.98
11-Jul-17 19:00:00	11-Jul-17 20:00:00		0.00	0.00	0.00	3.99	2.1	329.7		0.00	0.00	0.00	1.31		10.35	18.92	83.84	86.68	11-Jul-17 19:00:00		10.35	18.92	83.84	87.99
11-Jul-17 20:00:00	11-Jul-17 21:00:00		0.00	0.00	0.00	4.06	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	11-Jul-17 20:00:00		10.35	18.92	83.84	88.02
11-Jul-17 21:00:00	11-Jul-17 22:00:00		0.00	0.00	0.00	4.24	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	11-Jul-17 21:00:00		10.35	18.92	83.84	88.08
11-Jul-17 22:00:00	11-Jul-17 23:00:00		0.06	0.00	0.00	4.43	2.1	329.7		0.02	0.00	0.00	1.46		10.35	18.92	83.84	86.68	11-Jul-17 22:00:00		10.37	18.92	83.84	88.14
11-Jul-17 23:00:00	12-Jul-17 00:00:00		0.00	0.00	0.00	4.62	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	11-Jul-17 23:00:00		10.35	18.92	83.84	88.20
12-Jul-17 00:00:00	12-Jul-17 01:00:00		0.00	0.00	0.00	4.67	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	12-Jul-17 00:00:00		10.35	18.92	83.84	88.22
12-Jul-17 01:00:00	12-Jul-17 02:00:00		0.00	0.00	0.00	4.71	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	12-Jul-17 01:00:00		10.35	18.92	83.84	88.23
12-Jul-17 02:00:00	12-Jul-17 03:00:00		4.22	0.00	0.00	4.76	2.1	329.7		1.39	0.00	0.00	1.57		10.35	18.92	83.84	86.68	12-Jul-17 02:00:00		11.74	18.92	83.84	88.25
12-Jul-17 03:00:00	12-Jul-17 04:00:00		16.34	0.00	0.00	4.81	2.1	329.7		5.39	0.00	0.00	1.59		10.35	18.92	83.84	86.68	12-Jul-17 03:00:00		15.74	18.92	83.84	88.27
12-Jul-17 04:00:00	12-Jul-17 05:00:00		39.98	0.00	0.00	4.99	2.1	329.7		13.18	0.00	0.00	1.64		10.35	18.92	83.84	86.68	12-Jul-17 04:00:00		23.53	18.92	83.84	88.32
12-Jul-17 05:00:00	12-Jul-17 06:00:00		6.70	0.00	0.00	5.04	2.1	329.7		2.21	0.00	0.00	1.66		10.35	18.92	83.84	86.68	12-Jul-17 05:00:00		12.56	18.92	83.84	88.34
12-Jul-17 06:00:00	12-Jul-17 07:00:00		39.13	0.00	0.00	5.08	2.1	329.7		12.90	0.00	0.00	1.67		10.35	18.92	83.84	86.68	12-Jul-17 06:00:00		23.25	18.92	83.84	88.35
12-Jul-17 07:00:00	12-Jul-17 08:00:00		34.81	0.00	0.00	5.12	2.1	329.7		11.48	0.00	0.00	1.69		10.35	18.92	83.84	86.68	12-Jul-17 07:00:00		21.83	18.92	83.84	88.37
12-Jul-17 08:00:00	12-Jul-17 09:00:00		34.91	0.00	0.00	5.12	2.1	329.7		11.51	0.00	0.00	1.69		10.35	18.92	83.84	86.68	12-Jul-17 08:00:00		21.86	18.92	83.84	88.37
12-Jul-17 09:00:00	12-Jul-17 10:00:00		34.53	0.00	0.00	4.93	2.1	329.7		11.39	0.00	0.00	1.63		10.35	18.92	83.84	86.68	12-Jul-17 09:00:00		21.74	18.92	83.84	88.31
12-Jul-17 10:00:00	12-Jul-17 11:00:00		28.40	0.00	0.00	4.74	2.1	329.7		9.36	0.00	0.00	1.56		10.35	18.92	83.84	86.68	12-Jul-17 10:00:00		19.71	18.92	83.84	88.24
12-Jul-17 11:00:00	12-Jul-17 12:00:00		8.52	0.00	0.00	4.55	2.1	329.7		2.81	0.00	0.00	1.50		10.35	18.92	83.84	86.68	12-Jul-17 11:00:00		13.16	18.92	83.84	88.18
12-Jul-17 12:00:00	12-Jul-17 13:00:00		0.00	0.00	0.00	4.21	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	12-Jul-17 12:00:00		10.35	18.92	83.84	88.07
12-Jul-17 13:00:00	12-Jul-17 14:00:00		0.12	0.00	0.00	4.14	2.1	329.7		0.04	0.00	0.00	1.37		10.35	18.92	83.84	86.68	12-Jul-17 13:00:00		10.39	18.92	83.84	88.05
12-Jul-17 14:00:00	12-Jul-17 15:00:00		0.00	0.00	0.00	4.09	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	12-Jul-17 14:00:00		10.35	18.92	83.84	88.03
12-Jul-17 15:00:00	12-Jul-17 16:00:00		0.00	0.00	0.00	4.04	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	12-Jul-17 15:00:00		10.35	18.92	83.84	88.01
12-Jul-17 16:00:00	12-Jul-17 17:00:00		0.00	0.00	0.00	4.01	2.1	329.7		0.00	0.00	0.00	1.32		10.35	18.92	83.84	86.68	12-Jul-17 16:00:00		10.35	18.92	83.84	88.00
12-Jul-17 17:00:00	12-Jul-17 18:00:00		0.00	0.00	0.00	3.90	2.1	329.7		0.00	0.00	0.00	1.29		10.35	18.92	83.84	86.68	12-Jul-17 17:00:00		10.35	18.92	83.84	87.97
12-Jul-17 18:00:00	12-Jul-17 19:00:00		0.00	0.00	0.00	3.78	2.1	329.7		0.00	0.00	0.00	1.25		10.35	18.92	83.84	86.68	12-Jul-17 18:00:00		10.35	18.92	83.84	87.93
12-Jul-17 19:00:00	12-Jul-17 20:00:00		0.00	0.00	0.00	3.67	2.1	329.7		0.00	0.00	0.00	1.21		10.35	18.92	83.84	86.68	12-Jul-17 19:00:00		10.35	18.92	83.84	87.89
12-Jul-17 20:00:00	12-Jul-17 21:00:00		0.00	0.00	0.00	3.91	2.1	329.7		0.00	0.00	0.00	1.29		10.35	18.92	83.84	86.68	12-Jul-17 20:00:00		10.35	18.92	83.84	87.97
12-Jul-17 21:00:00	12-Jul-17 22:00:00		0.01	0.00	0.00	4.12	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	12-Jul-17 21:00:00		10.35	18.92	83.84	88.04
12-Jul-17 22:00:00	12-Jul-17 23:00:00		0.14	0.00	0.00	4.29	2.1	329.7		0.04	0.00	0.00	1.42		10.35	18.92	83.84	86.68	12-Jul-17 22:00:00		10.39	18.92	83.84	88.10
12-Jul-17 23:00:00	13-Jul-17 00:00:00		0.31	0.00	0.00	4.47	2.1	329.7		0.10	0.00	0.00	1.48		10.35	18.92	83.84	86.68	12-Jul-17 23:00:00		10.45	18.92	83.84	88.16
13-Jul-17 00:00:00	13-Jul-17 01:00:00		0.76	0.00	0.00	4.50	2.1	329.7		0.25	0.00	0.00	1.49		10.35	18.92	83.84	86.68	13-Jul-17 00:00:00		10.60	18.92	83.84	88.17
13-Jul-17 01:00:00	13-Jul-17 02:00:00		0.09	0.00	0.00	4.56	2.1	329.7		0.03	0.00	0.00	1.50		10.35	18.92	83.84	86.68	13-Jul-17 01:00:00		10.38	18.92	83.84	88.18
13-Jul-17 02:00:00	13-Jul-17 03:00:00		0.34	0.00	0.00	4.64	2.1	329.7		0.11	0.00	0.00	1.53		10.35	18.92	83.84	86.68	13-Jul-17 02:00:00		10.46	18.92	83.84	88.21
13-Jul-17 03:00:00	13-Jul-17 04:00:00		1.03	0.00	0.00	4.71	2.1	329.7		0.34	0.00	0.00	1.55		10.35	18.92	83.84	86.68	13-Jul-17 03:00:00		10.69	18.92	83.84	88.23
13-Jul-17 04:00:00	13-Jul-17 05:00:00		1.71	0.00	0.00	4.94	2.1	329.7		0.57	0.00	0.00	1.63		10.35	18.92	83.84	86.68	13-Jul-17 04:00:00		10.92	18.92	83.84	88.31
13-Jul-17 05:00:00	13-Jul-17 06:00:00		3.52	0.00	0.00	4.99	2.1	329.7		1.16	0.00	0.00	1.65		10.35	18.92	83.84	86.68	13-Jul-17 05:00:00		11.51	18.92	83.84	88.33
13-Jul-17 06:00:00	13-Jul-17 07:00:00		17.80	0.00	0.00	5.02	2.1	329.7		5.87	0.00	0.00	1.66		10.35	18.92	83.84	86.68	13-Jul-17 06:00:00		16.22	18.92	83.84	88.34
13-Jul-17 07:00:00	13-Jul-17 08:00:00		14.51	0.00	0.00	5.05	2.1	329.7		4.79	0.00	0.00	1.67		10.35	18.92	83.84	86.68	13-Jul-17 07:00:00		15.14	18.92	83.84	88.35
13-Jul-17 08:00:00	13-Jul-17 09:00:00		12.70	0.00	0.00	4.87	2.1	329.7		4.19	0.00	0.00	1.60		10.35	18.92	83.84	86.68	13-Jul-17 08:00:00		14.54	18.92	83.84	88.28
13-Jul-17 09:00:00	13-Jul-17 10:00:00		12.02	0.00	0.00	4.68	2.1	329.7		3.96	0.00	0.00	1.54		10.35	18.92	83.84	86.68	13-Jul-17 09:00:00		14.31	18.92	83.84	88.22
13-Jul-17 10:00:00	13-Jul-17 11:00:00		10.77	0.00	0.00	4.52	2.1	329.7		3.55	0.00	0.00	1.49		10.35	18.92	83.84	86.68	13-Jul-17 10:00:00		13.90	18.92	83.84	88.17
13-Jul-17 11:00:00	13-Jul-17 12:00:00		9.10	0.00	0.00	4.35	2.1	329.7		3.00	0.00	0.00	1.44		10.35	18.92	83.84	86.68	13-Jul-17 11:00:00		13.35	18.92	83.84	88.12
13-Jul-17 12:00:00	13-Jul-17 13:00:00		0.92	0.00	0.00	4.08	2.1	329.7		0.30	0.00	0.00	1.34		10.35	18.92	83.84	86.68	13-Jul-17 12:00:00		10.65	18.92	83.84	88.02
13-Jul-17 13:00:00	13-Jul-17 14:00:00		0.26	0.00	0.00	3.95	2.1	329.7		0.09	0.00	0.00	1.30		10.35	18.92	83.84	86.68	13-Jul-17 13:00:00		10.44	18.92	83.84	87.98
13-Jul-17 14:00:00	13-Jul-17 15:00:00		0.00	0.00	0.00	3.84	2.1	329.7		0.00	0.00	0.00	1.27		10.35	18.92	83.84	86.68	13-Jul-17 14:00:00		10.35	18.92	83.84	87.95
13-Jul-17 15:00:00	13-Jul-17 16:00:00		0.00	0.00	0.00	3.73	2.1	329.7		0.00	0.00	0.00	1.23		10.35	18.92	83.84	86.68	13-Jul-17 15:00:00		10.35	18.92	83.84	87.91
13-Jul-17 16:00:00	13-Jul-17 17:00:00		0.00	0.00	0.00	3.91	2.1	329.7		0.00	0.00	0.00	1.29		10.35	18.92	83.84	86.68	13-Jul-17 16:00:00		10.35	18.92	83.84	87.97
13-Jul-17 17:00:00	13-Jul-17 18:00:00		0.00	0.00	0.00	4.13	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	13-Jul-17 17:00:00		10.35	18.92	83.84	88.04
13-Jul-17 18:00:00	13-Jul-17 19:00:00		0.00	0.00	0.00	4.32	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	13-Jul-17 18:00:00		10.35	18.92	83.84	88.11
13-Jul-17 19:00:00	13-Jul-17 20:00:00		0.00	0.00	0.00	4.51	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	13-Jul-17 19:00:00		10.35	18.92	83.84	88.17
13-Jul-17 20:00:00	13-Jul-17 21:00:00		0.00	0.00	0.00	4.64	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	13-Jul-17 20:00:00		10.35	18.92	83.84	88.21
13-Jul-17 21:00:00	13-Jul-17 22:00:00		0.00	0.00	0.00	4.64	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	13-Jul-17 21:00:00		10.35	18.92	83.84	88.21
13-Jul-17 22:00:00	13-Jul-17 23:00:00		0.00	0.00	0.00	4.65	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	13-Jul-17 22:00:00		10.35	18.92	83.84	88.21
13-Jul-17 23:00:00	14-Jul-17 00:00:00		0.00	0.00	0.00	4.65	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	13-Jul-17 23:00:00		10.35	18.92	83.84	88.21
14-Jul-17 00:00:00	14-Jul-17 01:00:00		1.66	0.00	0.00	4.76	2.1	329.7		0.55	0.00	0.00	1.57		10.35	18.92	83.84	86.68	14-Jul-17 00:00:00		10.90	18.92	83.84	88.25
14-Jul-17 01:00:00	14-Jul-17 02:00:00		0.83	0.00	0.00	4.85	2.1	329.7		0.27	0.00	0.00	1.60		10.35	18.92	83.84	86.68	14-Jul-17 01:00:00		10.62	18.92	83.84	88.28
14-Jul-17 02:00:00	14-Jul-17 03:00:00		1.01	0.00	0.00	4.93	2.1	329.7		0.33	0.00	0.00	1.63		10.35	18.92	83.84	86.68	14-Jul-17 02:00:00		10.68	18.92	83.84	88.31
14-Jul-17 03:00:00	14-Jul-17 04:00:00		1.46	0.00	0.00	5.01	2.1	329.7		0.48	0.00	0.00	1.65		10.35	18.92	83.84	86.68	14-Jul-17 03:00:00		10.83	18.92	83.84	88.33
14-Jul-17 04:00:00	14-Jul-17 05:00:00		25.52	0.00	0.00	5.07	2.1	329.7		8.42	0.00	0.00	1.67		10.35	18.92	83.84	86.68	14-Jul-17 04:00:00		18.77	18.92	83.84	88.35
14-Jul-17 05:00:00	14-Jul-17 06:00:00		27.04	0.00	0.00	5.10	2.1	329.7		8.91	0.00	0.00	1.68		10.35	18.92	83.84	86.68	14-Jul-17 05:00:00		19.26	18.92	83.84	88.36
14-Jul-17 06:00:00	14-Jul-17 07:00:00		26.85	0.00	0.00	5.14	2.1	329.7		8.85	0.00	0.00	1.69		10.35	18.92	83.84	86.68	14-Jul-17 06:00:00		19.20	18.92	83.84	88.37
14-Jul-17 07:00:00	14-Jul-17 08:00:00		24.44	0.00	0.00	5.43	2.1	329.7		8.06	0.00	0.00	1.79		10.35	18.92	83.84	86.68	14-Jul-17 07:00:00		18.41	18.92	83.84	88.47
14-Jul-17 08:00:00	14-Jul-17 09:00:00		14.20	0.00	0.00	4.93	2.1	329.7		4.68	0.00	0.00	1.63		10.35	18.92	83.84	86.68	14-Jul-17 08:00:00		15.03	18.92	83.84	88.31
14-Jul-17 09:00:00	14-Jul-17 10:00:00		2.53	0.00	0.00	4.81	2.1	329.7		0.84	0.00	0.00	1.59		10.35	18.92	83.84	86.68	14-Jul-17 09:00:00		11.19	18.92	83.84	88.27
14-Jul-17 10:00:00	14-Jul-17 11:00:00		3.64	0.00	0.00	4.69	2.1	329.7		1.20	0.00	0.00	1.55		10.35	18.92	83.84	86.68	14-Jul-17 10:00:00		11.55	18.92	83.84	88.23
14-Jul-17 11:00:00	14-Jul-17 12:00:00		2.82	0.00	0.00	4.60	2.1	329.7		0.93	0.00	0.00	1.52		10.35	18.92	83.84	86.68	14-Jul-17 11:00:00		11.28	18.92	83.84	88.20
14-Jul-17 12:00:00	14-Jul-17 13:00:00		0.00	0.00	0.00	4.42	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	14-Jul-17 12:00:00		10.35	18.92	83.84	88.14
14-Jul-17 13:00:00	14-Jul-17 14:00:00		0.00	0.00	0.00	16.67	2.1	329.7		0.00	0.00	0.00	5.50		10.35	18.92	83.84	86.68	14-Jul-17 13:00:00		10.35	18.92	83.84	92.18
14-Jul-17 14:00:00	14-Jul-17 15:00:00		0.00	0.00	0.00	4.09

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
16-Jul-17 16:00:00	16-Jul-17 17:00:00		1.22	0.00	0.00	15.87	2.1	329.7		0.40	0.00	0.00	5.23		10.35	18.92	83.84	86.68	16-Jul-17 16:00:00		**10.75**	**18.92**	**83.84**	**91.91**
16-Jul-17 17:00:00	16-Jul-17 18:00:00		0.00	0.00	0.00	4.26	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	16-Jul-17 17:00:00		**10.35**	**18.92**	**83.84**	**88.08**
16-Jul-17 18:00:00	16-Jul-17 19:00:00		0.00	0.00	0.00	4.40	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	16-Jul-17 18:00:00		**10.35**	**18.92**	**83.84**	**88.13**
16-Jul-17 19:00:00	16-Jul-17 20:00:00		0.00	0.00	0.00	9.65	2.1	329.7		0.00	0.00	0.00	3.18		10.35	18.92	83.84	86.68	16-Jul-17 19:00:00		**10.35**	**18.92**	**83.84**	**89.86**
16-Jul-17 20:00:00	16-Jul-17 21:00:00		0.00	0.00	0.00	4.73	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	16-Jul-17 20:00:00		**10.35**	**18.92**	**83.84**	**88.24**
16-Jul-17 21:00:00	16-Jul-17 22:00:00		0.34	0.00	0.00	4.87	2.1	329.7		0.11	0.00	0.00	1.60		10.35	18.92	83.84	86.68	16-Jul-17 21:00:00		**10.46**	**18.92**	**83.84**	**88.28**
16-Jul-17 22:00:00	16-Jul-17 23:00:00		5.02	0.00	0.00	5.01	2.1	329.7		1.65	0.00	0.00	1.65		10.35	18.92	83.84	86.68	16-Jul-17 22:00:00		**12.00**	**18.92**	**83.84**	**88.33**
16-Jul-17 23:00:00	17-Jul-17 00:00:00		6.58	0.00	0.00	19.38	2.1	329.7		2.17	0.00	0.00	6.39		10.35	18.92	83.84	86.68	16-Jul-17 23:00:00		**12.52**	**18.92**	**83.84**	**93.07**
17-Jul-17 00:00:00	17-Jul-17 01:00:00		1.80	0.00	0.00	5.16	2.1	329.7		0.59	0.00	0.00	1.70		10.35	18.92	83.84	86.68	17-Jul-17 00:00:00		**10.94**	**18.92**	**83.84**	**88.38**
17-Jul-17 01:00:00	17-Jul-17 02:00:00		1.81	0.00	0.00	5.15	2.1	329.7		0.60	0.00	0.00	1.70		10.35	18.92	83.84	86.68	17-Jul-17 01:00:00		**10.95**	**18.92**	**83.84**	**88.38**
17-Jul-17 02:00:00	17-Jul-17 03:00:00		4.57	0.00	0.00	5.13	2.1	329.7		1.51	0.00	0.00	1.69		10.35	18.92	83.84	86.68	17-Jul-17 02:00:00		**11.86**	**18.92**	**83.84**	**88.37**
17-Jul-17 03:00:00	17-Jul-17 04:00:00		0.00	0.00	0.00	5.15	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	17-Jul-17 03:00:00		**10.35**	**18.92**	**83.84**	**88.38**
17-Jul-17 04:00:00	17-Jul-17 05:00:00		0.14	0.00	0.00	5.27	2.1	329.7		0.05	0.00	0.00	1.74		10.35	18.92	83.84	86.68	17-Jul-17 04:00:00		**10.40**	**18.92**	**83.84**	**88.42**
17-Jul-17 05:00:00	17-Jul-17 06:00:00		3.55	0.00	0.00	5.37	2.1	329.7		1.17	0.00	0.00	1.77		10.35	18.92	83.84	86.68	17-Jul-17 05:00:00		**11.52**	**18.92**	**83.84**	**88.45**
17-Jul-17 06:00:00	17-Jul-17 07:00:00		3.07	0.00	0.00	5.48	2.1	329.7		1.01	0.00	0.00	1.81		10.35	18.92	83.84	86.68	17-Jul-17 06:00:00		**11.36**	**18.92**	**83.84**	**88.49**
17-Jul-17 07:00:00	17-Jul-17 08:00:00		0.00	0.00	0.00	5.41	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	17-Jul-17 07:00:00		**10.35**	**18.92**	**83.84**	**88.47**
17-Jul-17 08:00:00	17-Jul-17 09:00:00		0.00	0.00	0.00	5.16	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	17-Jul-17 08:00:00		**10.35**	**18.92**	**83.84**	**88.38**
17-Jul-17 09:00:00	17-Jul-17 10:00:00		0.00	0.00	0.00	4.97	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	17-Jul-17 09:00:00		**10.35**	**18.92**	**83.84**	**88.32**
17-Jul-17 10:00:00	17-Jul-17 11:00:00		0.00	0.00	0.00	4.78	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	17-Jul-17 10:00:00		**10.35**	**18.92**	**83.84**	**88.26**
17-Jul-17 11:00:00	17-Jul-17 12:00:00		1.25	0.00	0.00	4.56	2.1	329.7		0.41	0.00	0.00	1.50		10.35	18.92	83.84	86.68	17-Jul-17 11:00:00		**10.76**	**18.92**	**83.84**	**88.18**
17-Jul-17 12:00:00	17-Jul-17 13:00:00		1.27	0.00	0.00	4.46	2.1	329.7		0.42	0.00	0.00	1.47		10.35	18.92	83.84	86.68	17-Jul-17 12:00:00		**10.77**	**18.92**	**83.84**	**88.15**
17-Jul-17 13:00:00	17-Jul-17 14:00:00		1.16	0.00	0.00	4.42	2.1	329.7		0.38	0.00	0.00	1.46		10.35	18.92	83.84	86.68	17-Jul-17 13:00:00		**10.73**	**18.92**	**83.84**	**88.14**
17-Jul-17 14:00:00	17-Jul-17 15:00:00		3.52	0.00	0.00	4.38	2.1	329.7		1.16	0.00	0.00	1.44		10.35	18.92	83.84	86.68	17-Jul-17 14:00:00		**11.51**	**18.92**	**83.84**	**88.12**
17-Jul-17 15:00:00	17-Jul-17 16:00:00		6.90	0.00	0.00	4.27	2.1	329.7		2.28	0.00	0.00	1.41		10.35	18.92	83.84	86.68	17-Jul-17 15:00:00		**12.63**	**18.92**	**83.84**	**88.09**
17-Jul-17 16:00:00	17-Jul-17 17:00:00		1.54	0.00	0.00	4.18	2.1	329.7		0.51	0.00	0.00	1.38		10.35	18.92	83.84	86.68	17-Jul-17 16:00:00		**10.86**	**18.92**	**83.84**	**88.06**
17-Jul-17 17:00:00	17-Jul-17 18:00:00		1.02	0.00	0.00	4.14	2.1	329.7		0.33	0.00	0.00	1.36		10.35	18.92	83.84	86.68	17-Jul-17 17:00:00		**10.68**	**18.92**	**83.84**	**88.04**
17-Jul-17 18:00:00	17-Jul-17 19:00:00		0.50	0.00	0.00	4.10	2.1	329.7		0.16	0.00	0.00	1.35		10.35	18.92	83.84	86.68	17-Jul-17 18:00:00		**10.51**	**18.92**	**83.84**	**88.03**
17-Jul-17 19:00:00	17-Jul-17 20:00:00		0.05	0.00	0.00	4.04	2.1	329.7		0.02	0.00	0.00	1.33		10.35	18.92	83.84	86.68	17-Jul-17 19:00:00		**10.37**	**18.92**	**83.84**	**88.01**
17-Jul-17 20:00:00	17-Jul-17 21:00:00		0.00	0.00	0.00	4.16	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	17-Jul-17 20:00:00		**10.35**	**18.92**	**83.84**	**88.05**
17-Jul-17 21:00:00	17-Jul-17 22:00:00		0.00	0.00	0.00	4.34	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	17-Jul-17 21:00:00		**10.35**	**18.92**	**83.84**	**88.11**
17-Jul-17 22:00:00	17-Jul-17 23:00:00		0.00	0.00	0.00	4.52	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	17-Jul-17 22:00:00		**10.35**	**18.92**	**83.84**	**88.17**
17-Jul-17 23:00:00	18-Jul-17 00:00:00		0.34	0.00	0.00	4.66	2.1	329.7		0.11	0.00	0.00	1.54		10.35	18.92	83.84	86.68	17-Jul-17 23:00:00		**10.46**	**18.92**	**83.84**	**88.22**
18-Jul-17 00:00:00	18-Jul-17 01:00:00		3.76	0.00	0.00	4.72	2.1	329.7		1.24	0.00	0.00	1.56		10.35	18.92	83.84	86.68	18-Jul-17 00:00:00		**11.59**	**18.92**	**83.84**	**88.24**
18-Jul-17 01:00:00	18-Jul-17 02:00:00		11.88	0.00	0.00	4.79	2.1	329.7		3.92	0.00	0.00	1.58		10.35	18.92	83.84	86.68	18-Jul-17 01:00:00		**14.27**	**18.92**	**83.84**	**88.26**
18-Jul-17 02:00:00	18-Jul-17 03:00:00		0.14	0.00	0.00	4.85	2.1	329.7		0.05	0.00	0.00	1.60		10.35	18.92	83.84	86.68	18-Jul-17 02:00:00		**10.40**	**18.92**	**83.84**	**88.28**
18-Jul-17 03:00:00	18-Jul-17 04:00:00		0.12	0.00	0.00	4.83	2.1	329.7		0.04	0.00	0.00	1.59		10.35	18.92	83.84	86.68	18-Jul-17 03:00:00		**10.39**	**18.92**	**83.84**	**88.27**
18-Jul-17 04:00:00	18-Jul-17 05:00:00		0.00	0.00	0.00	4.85	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	18-Jul-17 04:00:00		**10.35**	**18.92**	**83.84**	**88.28**
18-Jul-17 05:00:00	18-Jul-17 06:00:00		0.00	0.00	0.00	4.96	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	18-Jul-17 05:00:00		**10.35**	**18.92**	**83.84**	**88.31**
18-Jul-17 06:00:00	18-Jul-17 07:00:00		0.00	0.00	0.00	5.07	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	18-Jul-17 06:00:00		**10.35**	**18.92**	**83.84**	**88.35**
18-Jul-17 07:00:00	18-Jul-17 08:00:00		0.00	0.00	0.00	5.10	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	18-Jul-17 07:00:00		**10.35**	**18.92**	**83.84**	**88.36**
18-Jul-17 08:00:00	18-Jul-17 09:00:00		0.00	0.00	0.00	5.00	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	18-Jul-17 08:00:00		**10.35**	**18.92**	**83.84**	**88.33**
18-Jul-17 09:00:00	18-Jul-17 10:00:00		0.00	0.00	0.00	4.95	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	18-Jul-17 09:00:00		**10.35**	**18.92**	**83.84**	**88.31**
18-Jul-17 10:00:00	18-Jul-17 11:00:00		0.00	0.00	0.00	4.89	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	18-Jul-17 10:00:00		**10.35**	**18.92**	**83.84**	**88.29**
18-Jul-17 11:00:00	18-Jul-17 12:00:00		0.00	0.00	0.00	4.76	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	18-Jul-17 11:00:00		**10.35**	**18.92**	**83.84**	**88.25**
18-Jul-17 12:00:00	18-Jul-17 13:00:00		0.00	0.00	0.00	4.55	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	18-Jul-17 12:00:00		**10.35**	**18.92**	**83.84**	**88.18**
18-Jul-17 13:00:00	18-Jul-17 14:00:00		3.16	0.00	0.00	4.39	2.1	329.7		1.04	0.00	0.00	1.45		10.35	18.92	83.84	86.68	18-Jul-17 13:00:00		**11.39**	**18.92**	**83.84**	**88.13**
18-Jul-17 14:00:00	18-Jul-17 15:00:00		1.58	0.00	0.00	4.22	2.1	329.7		0.52	0.00	0.00	1.39		10.35	18.92	83.84	86.68	18-Jul-17 14:00:00		**10.87**	**18.92**	**83.84**	**88.07**
18-Jul-17 15:00:00	18-Jul-17 16:00:00		0.00	0.00	0.00	4.07	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	18-Jul-17 15:00:00		**10.35**	**18.92**	**83.84**	**88.02**
18-Jul-17 16:00:00	18-Jul-17 17:00:00		0.00	0.00	0.00	23.27	2.1	329.7		0.00	0.00	0.00	7.67		10.35	18.92	83.84	86.68	18-Jul-17 16:00:00		**10.35**	**18.92**	**83.84**	**94.35**
18-Jul-17 17:00:00	18-Jul-17 18:00:00		0.00	0.00	0.00	4.23	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	18-Jul-17 17:00:00		**10.35**	**18.92**	**83.84**	**88.07**
18-Jul-17 18:00:00	18-Jul-17 19:00:00		0.00	0.00	0.00	4.37	2.1	329.7		0.00	0.00	0.00	1.44		10.35	18.92	83.84	86.68	18-Jul-17 18:00:00		**10.35**	**18.92**	**83.84**	**88.12**
18-Jul-17 19:00:00	18-Jul-17 20:00:00		0.00	0.00	0.00	4.52	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	18-Jul-17 19:00:00		**10.35**	**18.92**	**83.84**	**88.17**
18-Jul-17 20:00:00	18-Jul-17 21:00:00		0.00	0.00	0.00	4.70	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	18-Jul-17 20:00:00		**10.35**	**18.92**	**83.84**	**88.23**
18-Jul-17 21:00:00	18-Jul-17 22:00:00		0.00	0.00	0.00	4.90	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	18-Jul-17 21:00:00		**10.35**	**18.92**	**83.84**	**88.29**
18-Jul-17 22:00:00	18-Jul-17 23:00:00		6.20	0.00	0.00	5.10	2.1	329.7		2.05	0.00	0.00	1.68		10.35	18.92	83.84	86.68	18-Jul-17 22:00:00		**12.40**	**18.92**	**83.84**	**88.36**
18-Jul-17 23:00:00	19-Jul-17 00:00:00		580.78	0.00	0.00	5.30	2.1	329.7		191.48	0.00	0.00	1.75		10.35	18.92	83.84	86.68	18-Jul-17 23:00:00		**201.83**	**18.92**	**83.84**	**88.43**
19-Jul-17 00:00:00	19-Jul-17 01:00:00		1,013.96	0.00	0.00	5.50	2.1	329.7		334.30	0.00	0.00	1.81		10.35	18.92	83.84	86.68	19-Jul-17 00:00:00		**344.65**	**18.92**	**83.84**	**88.49**
19-Jul-17 01:00:00	19-Jul-17 02:00:00		776.95	0.00	0.00	5.48	2.1	329.7		256.16	0.00	0.00	1.81		10.35	18.92	83.84	86.68	19-Jul-17 01:00:00		**266.51**	**18.92**	**83.84**	**88.49**
19-Jul-17 02:00:00	19-Jul-17 03:00:00		712.98	0.00	0.00	5.44	2.1	329.7		235.07	0.00	0.00	1.79		10.35	18.92	83.84	86.68	19-Jul-17 02:00:00		**245.42**	**18.92**	**83.84**	**88.47**
19-Jul-17 03:00:00	19-Jul-17 04:00:00		28.28	0.00	0.00	5.40	2.1	329.7		9.33	0.00	0.00	1.78		10.35	18.92	83.84	86.68	19-Jul-17 03:00:00		**19.68**	**18.92**	**83.84**	**88.46**
19-Jul-17 04:00:00	19-Jul-17 05:00:00		1.16	0.00	0.00	5.36	2.1	329.7		0.38	0.00	0.00	1.77		10.35	18.92	83.84	86.68	19-Jul-17 04:00:00		**10.73**	**18.92**	**83.84**	**88.45**
19-Jul-17 05:00:00	19-Jul-17 06:00:00		0.01	0.00	0.00	5.47	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	19-Jul-17 05:00:00		**10.35**	**18.92**	**83.84**	**88.48**
19-Jul-17 06:00:00	19-Jul-17 07:00:00		0.00	0.00	0.00	5.26	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	19-Jul-17 06:00:00		**10.35**	**18.92**	**83.84**	**88.42**
19-Jul-17 07:00:00	19-Jul-17 08:00:00		0.00	0.00	0.00	5.24	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	19-Jul-17 07:00:00		**10.35**	**18.92**	**83.84**	**88.41**
19-Jul-17 08:00:00	19-Jul-17 09:00:00		0.00	0.00	0.00	5.21	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	19-Jul-17 08:00:00		**10.35**	**18.92**	**83.84**	**88.40**
19-Jul-17 09:00:00	19-Jul-17 10:00:00		0.00	0.00	0.00	4.95	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	19-Jul-17 09:00:00		**10.35**	**18.92**	**83.84**	**88.31**
19-Jul-17 10:00:00	19-Jul-17 11:00:00		0.16	0.00	0.00	4.65	2.1	329.7		0.05	0.00	0.00	1.53		10.35	18.92	83.84	86.68	19-Jul-17 10:00:00		**10.40**	**18.92**	**83.84**	**88.21**
19-Jul-17 11:00:00	19-Jul-17 12:00:00		0.79	0.00	0.00	4.53	2.1	329.7		0.26	0.00	0.00	1.49		10.35	18.92	83.84	86.68	19-Jul-17 11:00:00		**10.61**	**18.92**	**83.84**	**88.17**
19-Jul-17 12:00:00	19-Jul-17 13:00:00		1.18	0.00	0.00	4.27	2.1	329.7		0.39	0.00	0.00	1.41		10.35	18.92	83.84	86.68	19-Jul-17 12:00:00		**10.74**	**18.92**	**83.84**	**88.09**
19-Jul-17 13:00:00	19-Jul-17 14:00:00		5.98	0.00	0.00	103.15	2.1	329.7		1.97	0.00	0.00	34.01		10.35	18.92	83.84	86.68	19-Jul-17 13:00:00		**12.32**	**18.92**	**83.84**	**120.69**
19-Jul-17 14:00:00	19-Jul-17 15:00:00		0.88	0.00	0.00	4.09	2.1	329.7		0.29	0.00	0.00	1.35		10.35	18.92	83.84	86.68	19-Jul-17 14:00:00		**10.64**	**18.92**	**83.84**	**88.03**
19-Jul-17 15:00:00	19-Jul-17 16:00:00		0.00	0.00	0.00	4.02	2.1	329.7		0.00	0.00	0.00	1.32		10.35	18.92	83.84	86.68	19-Jul-17 15:00:00		**10.35**	**18.92**	**83.84**	**88.00**
19-Jul-17 16:00:00	19-Jul-17 17:00:00		0.00	0.00	0.00	3.94	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	19-Jul-17 16:00:00		**10.35**	**18.92**	**83.84**	**87.98**
19-Jul-17 17:00:00	19-Jul-17 18:00:00		0.00	0.00	0.00	3.91	2.1	329.7		0.00	0.00	0.00	1.29		10.35	18.92	83.84	86.68	19-Jul-17 17:00:00		**10.35**	**18.92**	**83.84**	**87.97**
19-Jul-17 18:00:00	19-Jul-17 19:00:00		0.00	0.00	0.00	4.06	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	19-Jul-17 18:00:00		**10.35**	**18.92**	**83.84**	**88.02**
19-Jul-17 19:00:00	19-Jul-17 20:00:00		0.00	0.00	0.00	80.13	2.1	329.7		0.00	0.00	0.00	26.42		10.35	18.92	83.84	86.68	19-Jul-17 19:00:00		**10.35**	**18.92**	**83.84**	**113.10**
19-Jul-17 20:00:00	19-Jul-17 21:00:00		3.80	0.00	0.00	6.77	2.1	329.7		1.25	0.00	0.00	2.23		10.35	18.92	83.84	86.68	19-Jul-17 20:00:00		**11.60**	**18.92**	**83.84**	**88.91**
19-Jul-17 21:00:00	19-Jul-17 22:00:00		3.00	0.00	0.00	6.28	2.1	329.7		0.99	0.00	0.00	2.07		10.35	18.92	83.84	86.68	19-Jul-17 21:00:00		**11.34**	**18.92**	**83.84**	**88.75**
19-Jul-17 22:00:00	19-Jul-17 23:00:00		0.86	0.00	0.00	5.78	2.1	329.7		0.28	0.00	0.00	1.91		10.35	18.92	83.84	86.68	19-Jul-17 22:00:00		**10.63**	**18.92**	**83.84**	**88.59**
19-Jul-17 23:00:00	20-Jul-17 00:00:00		0.01	0.00	0.00	5.31	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	19-Jul-17 23:00:00		**10.35**	**18.92**	**83.84**	**88.43**
20-Jul-17 00:00:00	20-Jul-17 01:00:00		0.01	0.00	0.00	5.14	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	20-Jul-17 00:00:00		**10.35**	**18.92**	**83.84**	**88.38**
20-Jul-17 01:00:00	20-Jul-17 02:00:00		0.02	0.00	0.00	5.06	2.1	329.7		0.01	0.00	0.00	1.67		10.35	18.92	83.84	86.68	20-Jul-17 01:00:00		**10.36**	**18.92**	**83.84**	**88.35**
20-Jul-17 02:00:00	20-Jul-17 03:00:00		0.24	0.00	0.00	5.39	2.1	329.7		0.08	0.00	0.00	1.78		10.35	18.92	83.84	86.68	20-Jul-17 02:00:00		**10.43**	**18.92**	**83.84**	**88.46**
20-Jul-17 03:00:00	20-Jul-17 04:00:00		0.55	0.00	0.00	5.12	2.1	329.7		0.18	0.00	0.00	1.69		10.35	18.92	83.84	86.68	20-Jul-17 03:00:00		**10.53**	**18.92**	**83.84**	**88.37**
20-Jul-17 04:00:00	20-Jul-17 05:00:00		0.68	0.00	0.00	5.09	2.1	329.7		0.22	0.00	0.00	1.68		10.35	18.92	83.84	86.68	20-Jul-17 04:00:00		**10.57**	**18.92**	**83.84**	**88.36**
20-Jul-17 05:00:00	20-Jul-17 06:00:00		0.97	0.00	0.00	5.06	2.1	329.7		0.33	0.00	0.00	1.67		10.35	18.92	83.84	86.68	20-Jul-17 05:00:00		**10.67**	**18.92**	**83.84**	**88.35**
20-Jul-17 06:00:00	20-Jul-17 07:00:00		1.26	0.00	0.00	5.09	2.1	329.7		0.41	0.00	0.00	1.68		10.35	18.92	83.84	86.68	20-Jul-17 06:00:00		**10.76**	**18.92**	**83.84**	**88.36**
20-Jul-17 07:00:00	20-Jul-17 08:00:00		1.28	0.00	0.00	4.98	2.1	329.7		0.42	0.00	0.00	1.64		10.35	18.92	83.84	86.68	20-Jul-17 07:00:00		**10.77**	**18.92**	**83.84**	**88.32**
20-Jul-17 08:00:00	20-Jul-17 09:00:00		0.92	0.00	0.00	4.81	2.1	329.7		0.30	0.00	0.00	1.58		10.35	18.92	83.84	86.68	20-Jul-17 08:00:00		**10.65**	**18.92**	**83.84**	**88.26**
20-Jul-17 09:00:00	20-Jul-17 10:00:00		0.56	0.00	0.00	4.64	2.1	329.7		0.19	0.00	0.00	1.53		10.35	18.92	83.84	86.68	20-Jul-17 09:00:00		**10.54**	**18.92**	**83.84**	**88.21**
20-Jul-17 10:00:00	20-Jul-17 11:00:00		0.20	0.00	0.00	4.44	2.1	329.7		0.07	0.00	0.00	1.46		10.35	18.92	83.84	86.68	20-Jul-17 10:00:00		**10.42**	**18.92**	**83.84**	**88.14**
20-Jul-17 11:00:00	20-Jul-17 12:00:00		0.93	0.00	0.00	4.93	2.1	329.7		0.31	0.00	0.00	1.63		10.35	18.92	83.84	86.68	20-Jul-17 11:00:00		**10.66**	**18.92**	**83.84**	**88.31**
20-Jul-17 12:00:00	20-Jul-17 13:00:00		1.91	585.96	0.00	10.32	2.1	329.7		0.63	193.19	0.00	3.40		10.35	18.92	83.84	86.68	20-Jul-17 12:00:00		**10.98**	**212.11**	**83.84**	**90.08**
20-Jul-17 13:00:00	20-Jul-17 14:00:00		0.19	674.90	0.00	3.88

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
22-Jul-17 15:00:00	22-Jul-17 16:00:00		0.00	0.00	0.00	3.73	2.1	329.7		0.00	0.00	0.00	1.23		10.35	18.92	83.84	86.68	22-Jul-17 15:00:00		**10.35**	**18.92**	**83.84**	**87.91**
22-Jul-17 16:00:00	22-Jul-17 17:00:00		0.00	0.00	0.00	13.42	2.1	329.7		0.00	0.00	0.00	4.42		10.35	18.92	83.84	86.68	22-Jul-17 16:00:00		**10.35**	**18.92**	**83.84**	**91.10**
22-Jul-17 17:00:00	22-Jul-17 18:00:00		0.00	0.00	0.00	3.93	2.1	329.7		0.00	0.00	0.00	1.29		10.35	18.92	83.84	86.68	22-Jul-17 17:00:00		**10.35**	**18.92**	**83.84**	**87.97**
22-Jul-17 18:00:00	22-Jul-17 19:00:00		0.00	0.00	0.00	3.55	2.1	329.7		0.00	0.00	0.00	1.17		10.35	18.92	83.84	86.68	22-Jul-17 18:00:00		**10.35**	**18.92**	**83.84**	**87.85**
22-Jul-17 19:00:00	22-Jul-17 20:00:00		0.00	0.00	0.00	3.60	2.1	329.7		0.00	0.00	0.00	1.19		10.35	18.92	83.84	86.68	22-Jul-17 19:00:00		**10.35**	**18.92**	**83.84**	**87.87**
22-Jul-17 20:00:00	22-Jul-17 21:00:00		0.00	0.00	0.00	4.84	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	22-Jul-17 20:00:00		**10.35**	**18.92**	**83.84**	**88.28**
22-Jul-17 21:00:00	22-Jul-17 22:00:00		0.00	0.00	0.00	3.86	2.1	329.7		0.00	0.00	0.00	1.27		10.35	18.92	83.84	86.68	22-Jul-17 21:00:00		**10.35**	**18.92**	**83.84**	**87.95**
22-Jul-17 22:00:00	22-Jul-17 23:00:00		0.00	0.00	0.00	4.10	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	22-Jul-17 22:00:00		**10.35**	**18.92**	**83.84**	**88.03**
22-Jul-17 23:00:00	23-Jul-17 00:00:00		0.10	0.00	0.00	36.05	2.1	329.7		0.03	0.00	0.00	11.88		10.35	18.92	83.84	86.68	22-Jul-17 23:00:00		**10.38**	**18.92**	**83.84**	**98.56**
23-Jul-17 00:00:00	23-Jul-17 01:00:00		0.47	0.00	0.00	4.53	2.1	329.7		0.16	0.00	0.00	1.49		10.35	18.92	83.84	86.68	23-Jul-17 00:00:00		**10.51**	**18.92**	**83.84**	**88.17**
23-Jul-17 01:00:00	23-Jul-17 02:00:00		2.16	0.00	0.00	4.59	2.1	329.7		0.71	0.00	0.00	1.51		10.35	18.92	83.84	86.68	23-Jul-17 01:00:00		**11.06**	**18.92**	**83.84**	**88.19**
23-Jul-17 02:00:00	23-Jul-17 03:00:00		2.30	0.00	0.00	5.10	2.1	329.7		0.76	0.00	0.00	1.68		10.35	18.92	83.84	86.68	23-Jul-17 02:00:00		**11.11**	**18.92**	**83.84**	**88.36**
23-Jul-17 03:00:00	23-Jul-17 04:00:00		3.08	0.00	0.00	4.66	2.1	329.7		1.02	0.00	0.00	1.54		10.35	18.92	83.84	86.68	23-Jul-17 03:00:00		**11.37**	**18.92**	**83.84**	**88.22**
23-Jul-17 04:00:00	23-Jul-17 05:00:00		10.05	0.00	0.00	4.70	2.1	329.7		3.31	0.00	0.00	1.55		10.35	18.92	83.84	86.68	23-Jul-17 04:00:00		**13.66**	**18.92**	**83.84**	**88.23**
23-Jul-17 05:00:00	23-Jul-17 06:00:00		6.98	0.00	0.00	38.80	2.1	329.7		2.30	0.00	0.00	12.79		10.35	18.92	83.84	86.68	23-Jul-17 05:00:00		**12.65**	**18.92**	**83.84**	**99.47**
23-Jul-17 06:00:00	23-Jul-17 07:00:00		0.17	0.00	0.00	4.99	2.1	329.7		0.06	0.00	0.00	1.65		10.35	18.92	83.84	86.68	23-Jul-17 06:00:00		**10.41**	**18.92**	**83.84**	**88.33**
23-Jul-17 07:00:00	23-Jul-17 08:00:00		0.00	0.00	0.00	15.73	2.1	329.7		0.00	0.00	0.00	5.18		10.35	18.92	83.84	86.68	23-Jul-17 07:00:00		**10.35**	**18.92**	**83.84**	**91.86**
23-Jul-17 08:00:00	23-Jul-17 09:00:00		0.00	0.00	0.00	4.94	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	23-Jul-17 08:00:00		**10.35**	**18.92**	**83.84**	**88.31**
23-Jul-17 09:00:00	23-Jul-17 10:00:00		0.14	0.00	0.00	4.72	2.1	329.7		0.05	0.00	0.00	1.56		10.35	18.92	83.84	86.68	23-Jul-17 09:00:00		**10.40**	**18.92**	**83.84**	**88.24**
23-Jul-17 10:00:00	23-Jul-17 11:00:00		0.00	0.00	0.00	4.50	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	23-Jul-17 10:00:00		**10.35**	**18.92**	**83.84**	**88.16**
23-Jul-17 11:00:00	23-Jul-17 12:00:00		1.01	0.00	0.00	6.91	2.1	329.7		0.33	0.00	0.00	2.28		10.35	18.92	83.84	86.68	23-Jul-17 11:00:00		**10.68**	**18.92**	**83.84**	**88.96**
23-Jul-17 12:00:00	23-Jul-17 13:00:00		0.00	0.00	0.00	4.08	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	23-Jul-17 12:00:00		**10.35**	**18.92**	**83.84**	**88.03**
23-Jul-17 13:00:00	23-Jul-17 14:00:00		0.00	0.00	0.00	3.94	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	23-Jul-17 13:00:00		**10.35**	**18.92**	**83.84**	**87.98**
23-Jul-17 14:00:00	23-Jul-17 15:00:00		0.00	0.00	0.00	3.81	2.1	329.7		0.00	0.00	0.00	1.25		10.35	18.92	83.84	86.68	23-Jul-17 14:00:00		**10.35**	**18.92**	**83.84**	**87.93**
23-Jul-17 15:00:00	23-Jul-17 16:00:00		0.00	0.00	0.00	3.84	2.1	329.7		0.00	0.00	0.00	1.27		10.35	18.92	83.84	86.68	23-Jul-17 15:00:00		**10.35**	**18.92**	**83.84**	**87.95**
23-Jul-17 16:00:00	23-Jul-17 17:00:00		0.00	0.00	0.00	4.51	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	23-Jul-17 16:00:00		**10.35**	**18.92**	**83.84**	**88.17**
23-Jul-17 17:00:00	23-Jul-17 18:00:00		0.25	0.00	0.00	8.93	2.1	329.7		0.08	0.00	0.00	2.95		10.35	18.92	83.84	86.68	23-Jul-17 17:00:00		**10.43**	**18.92**	**83.84**	**89.63**
23-Jul-17 18:00:00	23-Jul-17 19:00:00		6.12	0.00	0.00	5.27	2.1	329.7		2.02	0.00	0.00	1.74		10.35	18.92	83.84	86.68	23-Jul-17 18:00:00		**12.37**	**18.92**	**83.84**	**88.42**
23-Jul-17 19:00:00	23-Jul-17 20:00:00		0.30	0.00	0.00	5.33	2.1	329.7		0.10	0.00	0.00	1.76		10.35	18.92	83.84	86.68	23-Jul-17 19:00:00		**10.45**	**18.92**	**83.84**	**88.44**
23-Jul-17 20:00:00	23-Jul-17 21:00:00		0.06	0.00	0.00	5.40	2.1	329.7		0.02	0.00	0.00	1.78		10.35	18.92	83.84	86.68	23-Jul-17 20:00:00		**10.37**	**18.92**	**83.84**	**88.46**
23-Jul-17 21:00:00	23-Jul-17 22:00:00		5.57	0.00	0.00	6.87	2.1	329.7		1.84	0.00	0.00	2.26		10.35	18.92	83.84	86.68	23-Jul-17 21:00:00		**12.19**	**18.92**	**83.84**	**88.94**
23-Jul-17 22:00:00	23-Jul-17 23:00:00		0.00	0.00	0.00	5.64	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	23-Jul-17 22:00:00		**10.35**	**18.92**	**83.84**	**88.54**
23-Jul-17 23:00:00	24-Jul-17 00:00:00		0.30	0.00	0.00	5.69	2.1	329.7		0.10	0.00	0.00	1.88		10.35	18.92	83.84	86.68	23-Jul-17 23:00:00		**10.45**	**18.92**	**83.84**	**88.56**
24-Jul-17 00:00:00	24-Jul-17 01:00:00		0.00	0.00	0.00	36.20	2.1	329.7		0.00	0.00	0.00	11.93		10.35	18.92	83.84	86.68	24-Jul-17 00:00:00		**10.35**	**18.92**	**83.84**	**98.61**
24-Jul-17 01:00:00	24-Jul-17 02:00:00		0.00	0.00	0.00	13.80	2.1	329.7		0.00	0.00	0.00	4.55		10.35	18.92	83.84	86.68	24-Jul-17 01:00:00		**10.35**	**18.92**	**83.84**	**91.23**
24-Jul-17 02:00:00	24-Jul-17 03:00:00		3.33	0.00	0.00	5.41	2.1	329.7		1.10	0.00	0.00	1.78		10.35	18.92	83.84	86.68	24-Jul-17 02:00:00		**11.45**	**18.92**	**83.84**	**88.46**
24-Jul-17 03:00:00	24-Jul-17 04:00:00		34.59	0.00	0.00	5.18	2.1	329.7		11.41	0.00	0.00	1.71		10.35	18.92	83.84	86.68	24-Jul-17 03:00:00		**21.76**	**18.92**	**83.84**	**88.39**
24-Jul-17 04:00:00	24-Jul-17 05:00:00		19.26	0.00	0.00	13.25	2.1	329.7		6.35	0.00	0.00	4.37		10.35	18.92	83.84	86.68	24-Jul-17 04:00:00		**16.70**	**18.92**	**83.84**	**91.05**
24-Jul-17 05:00:00	24-Jul-17 06:00:00		20.94	0.00	0.00	5.23	2.1	329.7		6.90	0.00	0.00	1.73		10.35	18.92	83.84	86.68	24-Jul-17 05:00:00		**17.25**	**18.92**	**83.84**	**88.41**
24-Jul-17 06:00:00	24-Jul-17 07:00:00		17.32	0.00	0.00	5.22	2.1	329.7		5.71	0.00	0.00	1.72		10.35	18.92	83.84	86.68	24-Jul-17 06:00:00		**16.06**	**18.92**	**83.84**	**88.40**
24-Jul-17 07:00:00	24-Jul-17 08:00:00		14.81	0.00	0.00	90.06	2.1	329.7		4.88	0.00	0.00	29.69		10.35	18.92	83.84	86.68	24-Jul-17 07:00:00		**15.23**	**18.92**	**83.84**	**116.37**
24-Jul-17 08:00:00	24-Jul-17 09:00:00		13.16	0.00	0.00	5.33	2.1	329.7		4.34	0.00	0.00	1.76		10.35	18.92	83.84	86.68	24-Jul-17 08:00:00		**14.69**	**18.92**	**83.84**	**88.44**
24-Jul-17 09:00:00	24-Jul-17 10:00:00		11.22	0.00	0.00	5.27	2.1	329.7		3.70	0.00	0.00	1.74		10.35	18.92	83.84	86.68	24-Jul-17 09:00:00		**14.05**	**18.92**	**83.84**	**88.42**
24-Jul-17 10:00:00	24-Jul-17 11:00:00		2.63	0.00	0.00	9.53	2.1	329.7		0.87	0.00	0.00	3.14		10.35	18.92	83.84	86.68	24-Jul-17 10:00:00		**11.22**	**18.92**	**83.84**	**89.82**
24-Jul-17 11:00:00	24-Jul-17 12:00:00		8.57	0.00	0.00	4.96	2.1	329.7		2.83	0.00	0.00	1.64		10.35	18.92	83.84	86.68	24-Jul-17 11:00:00		**13.18**	**18.92**	**83.84**	**88.32**
24-Jul-17 12:00:00	24-Jul-17 13:00:00		18.82	0.00	0.00	4.72	2.1	329.7		6.20	0.00	0.00	1.56		10.35	18.92	83.84	86.68	24-Jul-17 12:00:00		**16.55**	**18.92**	**83.84**	**88.24**
24-Jul-17 13:00:00	24-Jul-17 14:00:00		3.68	0.00	0.00	7.69	2.1	329.7		1.21	0.00	0.00	2.53		10.35	18.92	83.84	86.68	24-Jul-17 13:00:00		**11.56**	**18.92**	**83.84**	**89.21**
24-Jul-17 14:00:00	24-Jul-17 15:00:00		0.00	0.00	0.00	4.23	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	24-Jul-17 14:00:00		**10.35**	**18.92**	**83.84**	**88.08**
24-Jul-17 15:00:00	24-Jul-17 16:00:00		1.03	0.00	0.00	4.19	2.1	329.7		0.34	0.00	0.00	1.38		10.35	18.92	83.84	86.68	24-Jul-17 15:00:00		**10.69**	**18.92**	**83.84**	**88.06**
24-Jul-17 16:00:00	24-Jul-17 17:00:00		0.00	0.00	0.00	4.14	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	24-Jul-17 16:00:00		**10.35**	**18.92**	**83.84**	**88.05**
24-Jul-17 17:00:00	24-Jul-17 18:00:00		6.98	0.00	0.00	4.10	2.1	329.7		2.30	0.00	0.00	1.35		10.35	18.92	83.84	86.68	24-Jul-17 17:00:00		**12.65**	**18.92**	**83.84**	**88.03**
24-Jul-17 18:00:00	24-Jul-17 19:00:00		1.35	0.00	0.00	4.08	2.1	329.7		0.44	0.00	0.00	1.35		10.35	18.92	83.84	86.68	24-Jul-17 18:00:00		**10.79**	**18.92**	**83.84**	**88.03**
24-Jul-17 19:00:00	24-Jul-17 20:00:00		0.00	0.00	0.00	5.40	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	24-Jul-17 19:00:00		**10.35**	**18.92**	**83.84**	**88.46**
24-Jul-17 20:00:00	24-Jul-17 21:00:00		0.00	0.00	0.00	27.79	2.1	329.7		0.00	0.00	0.00	9.16		10.35	18.92	83.84	86.68	24-Jul-17 20:00:00		**10.35**	**18.92**	**83.84**	**95.84**
24-Jul-17 21:00:00	24-Jul-17 22:00:00		0.00	0.00	0.00	4.31	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	24-Jul-17 21:00:00		**10.35**	**18.92**	**83.84**	**88.10**
24-Jul-17 22:00:00	24-Jul-17 23:00:00		0.12	0.00	0.00	5.74	2.1	329.7		0.04	0.00	0.00	1.89		10.35	18.92	83.84	86.68	24-Jul-17 22:00:00		**10.39**	**18.92**	**83.84**	**88.57**
24-Jul-17 23:00:00	25-Jul-17 00:00:00		1.62	0.00	0.00	4.64	2.1	329.7		0.53	0.00	0.00	1.53		10.35	18.92	83.84	86.68	24-Jul-17 23:00:00		**10.88**	**18.92**	**83.84**	**88.21**
25-Jul-17 00:00:00	25-Jul-17 01:00:00		2.05	0.00	0.00	4.76	2.1	329.7		0.67	0.00	0.00	1.57		10.35	18.92	83.84	86.68	25-Jul-17 00:00:00		**11.02**	**18.92**	**83.84**	**88.25**
25-Jul-17 01:00:00	25-Jul-17 02:00:00		4.06	0.00	0.00	4.88	2.1	329.7		1.34	0.00	0.00	1.61		10.35	18.92	83.84	86.68	25-Jul-17 01:00:00		**11.69**	**18.92**	**83.84**	**88.29**
25-Jul-17 02:00:00	25-Jul-17 03:00:00		0.00	0.00	0.00	29.36	2.1	329.7		0.00	0.00	0.00	9.68		10.35	18.92	83.84	86.68	25-Jul-17 02:00:00		**10.35**	**18.92**	**83.84**	**96.36**
25-Jul-17 03:00:00	25-Jul-17 04:00:00		0.00	0.00	0.00	5.07	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	25-Jul-17 03:00:00		**10.35**	**18.92**	**83.84**	**88.35**
25-Jul-17 04:00:00	25-Jul-17 05:00:00		0.00	0.00	0.00	5.05	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	25-Jul-17 04:00:00		**10.35**	**18.92**	**83.84**	**88.34**
25-Jul-17 05:00:00	25-Jul-17 06:00:00		4.39	0.00	0.00	22.55	2.1	329.7		1.45	0.00	0.00	7.43		10.35	18.92	83.84	86.68	25-Jul-17 05:00:00		**11.80**	**18.92**	**83.84**	**94.11**
25-Jul-17 06:00:00	25-Jul-17 07:00:00		23.06	0.00	0.00	5.06	2.1	329.7		7.60	0.00	0.00	1.67		10.35	18.92	83.84	86.68	25-Jul-17 06:00:00		**17.95**	**18.92**	**83.84**	**88.35**
25-Jul-17 07:00:00	25-Jul-17 08:00:00		31.56	0.00	0.00	5.11	2.1	329.7		10.41	0.00	0.00	1.68		10.35	18.92	83.84	86.68	25-Jul-17 07:00:00		**20.76**	**18.92**	**83.84**	**88.36**
25-Jul-17 08:00:00	25-Jul-17 09:00:00		36.60	0.00	0.00	9.71	2.1	329.7		12.07	0.00	0.00	3.20		10.35	18.92	83.84	86.68	25-Jul-17 08:00:00		**22.42**	**18.92**	**83.84**	**89.88**
25-Jul-17 09:00:00	25-Jul-17 10:00:00		35.61	0.00	0.00	5.02	2.1	329.7		11.74	0.00	0.00	1.65		10.35	18.92	83.84	86.68	25-Jul-17 09:00:00		**22.09**	**18.92**	**83.84**	**88.33**
25-Jul-17 10:00:00	25-Jul-17 11:00:00		18.33	0.00	0.00	4.72	2.1	329.7		6.04	0.00	0.00	1.56		10.35	18.92	83.84	86.68	25-Jul-17 10:00:00		**16.39**	**18.92**	**83.84**	**88.24**
25-Jul-17 11:00:00	25-Jul-17 12:00:00		2.20	0.00	0.00	4.43	2.1	329.7		0.73	0.00	0.00	1.46		10.35	18.92	83.84	86.68	25-Jul-17 11:00:00		**11.08**	**18.92**	**83.84**	**88.14**
25-Jul-17 12:00:00	25-Jul-17 13:00:00		1.57	0.00	0.00	9.71	2.1	329.7		0.52	0.00	0.00	3.20		10.35	18.92	83.84	86.68	25-Jul-17 12:00:00		**10.87**	**18.92**	**83.84**	**89.88**
25-Jul-17 13:00:00	25-Jul-17 14:00:00		1.50	0.00	0.00	4.13	2.1	329.7		0.49	0.00	0.00	1.36		10.35	18.92	83.84	86.68	25-Jul-17 13:00:00		**10.84**	**18.92**	**83.84**	**88.04**
25-Jul-17 14:00:00	25-Jul-17 15:00:00		2.36	0.00	0.00	4.11	2.1	329.7		0.78	0.00	0.00	1.35		10.35	18.92	83.84	86.68	25-Jul-17 14:00:00		**11.13**	**18.92**	**83.84**	**88.03**
25-Jul-17 15:00:00	25-Jul-17 16:00:00		0.00	0.00	0.00	4.09	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	25-Jul-17 15:00:00		**10.35**	**18.92**	**83.84**	**88.03**
25-Jul-17 16:00:00	25-Jul-17 17:00:00		0.00	0.00	0.00	4.05	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	25-Jul-17 16:00:00		**10.35**	**18.92**	**83.84**	**88.02**
25-Jul-17 17:00:00	25-Jul-17 18:00:00		0.00	0.00	0.00	3.99	2.1	329.7		0.00	0.00	0.00	1.32		10.35	18.92	83.84	86.68	25-Jul-17 17:00:00		**10.35**	**18.92**	**83.84**	**88.00**
25-Jul-17 18:00:00	25-Jul-17 19:00:00		0.00	0.00	0.00	4.49	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	25-Jul-17 18:00:00		**10.35**	**18.92**	**83.84**	**88.16**
25-Jul-17 19:00:00	25-Jul-17 20:00:00		0.00	0.00	0.00	4.10	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	25-Jul-17 19:00:00		**10.35**	**18.92**	**83.84**	**88.03**
25-Jul-17 20:00:00	25-Jul-17 21:00:00		0.00	0.00	0.00	4.29	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	25-Jul-17 20:00:00		**10.35**	**18.92**	**83.84**	**88.09**
25-Jul-17 21:00:00	25-Jul-17 22:00:00		0.00	0.00	0.00	4.99	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	25-Jul-17 21:00:00		**10.35**	**18.92**	**83.84**	**88.33**
25-Jul-17 22:00:00	25-Jul-17 23:00:00		0.86	0.00	0.00	4.51	2.1	329.7		0.28	0.00	0.00	1.49		10.35	18.92	83.84	86.68	25-Jul-17 22:00:00		**10.63**	**18.92**	**83.84**	**88.17**
25-Jul-17 23:00:00	26-Jul-17 00:00:00		1.56	0.00	0.00	4.61	2.1	329.7		0.52	0.00	0.00	1.52		10.35	18.92	83.84	86.68	25-Jul-17 23:00:00		**10.87**	**18.92**	**83.84**	**88.20**
26-Jul-17 00:00:00	26-Jul-17 01:00:00		1.64	0.00	0.00	23.01	2.1	329.7		0.54	0.00	0.00	7.59		10.35	18.92	83.84	86.68	26-Jul-17 00:00:00		**10.89**	**18.92**	**83.84**	**94.27**
26-Jul-17 01:00:00	26-Jul-17 02:00:00		2.57	0.00	0.00	4.85	2.1	329.7		0.85	0.00	0.00	1.60		10.35	18.92	83.84	86.68	26-Jul-17 01:00:00		**11.20**	**18.92**	**83.84**	**88.28**
26-Jul-17 02:00:00	26-Jul-17 03:00:00		1.29	0.00	0.00	4.81	2.1	329.7		0.43	0.00	0.00	1.59		10.35	18.92	83.84	86.68	26-Jul-17 02:00:00		**10.78**	**18.92**	**83.84**	**88.27**
26-Jul-17 03:00:00	26-Jul-17 04:00:00		0.07	0.00	0.00	30.01	2.1	329.7		0.02	0.00	0.00	9.89		10.35	18.92	83.84	86.68	26-Jul-17 03:00:00		**10.37**	**18.92**	**83.84**	**96.57**
26-Jul-17 04:00:00	26-Jul-17 05:00:00		0.25	0.00	0.00	4.78	2.1	329.7		0.08	0.00	0.00	1.57		10.35	18.92	83.84	86.68	26-Jul-17 04:00:00		**10.43**	**18.92**	**83.84**	**88.25**
26-Jul-17 05:00:00	26-Jul-17 06:00:00		1.94	0.00	0.00	4.94	2.1	329.7		0.64	0.00	0.00	1.63		10.35	18.92	83.84	86.68	26-Jul-17 05:00:00		**10.99**	**18.92**	**83.84**	**88.31**
26-Jul-17 06:00:00	26-Jul-17 07:00:00		6.44	0.00	0.00	5.11	2.1	329.7		2.12	0.00	0.00	1.68		10.35	18.92	83.84	86.68	26-Jul-17 06:00:00		**12.47**	**18.92**	**83.84**	**88.36**
26-Jul-17 07:00:00	26-Jul-17 08:00:00		2.89	0.00	0.00	6.20	2.1	329.7		0.95	0.00	0.00	2.04		10.35	18.92	83.84	86.68	26-Jul-17 07:00:00		**11.30**	**18.92**	**83.84**	**88.72**
26-Jul-17 08:00:00	26-Jul-17 09:00:00		8.51	0.00	0.00	5.17	2.1	329.7		2.80	0.00	0.00	1.71		10.35	18.92	83.84	86.68	26-Jul-17 08:00:00		**13.15**	**18.92**	**83.84**	**88.39**
26-Jul-17 09:00:00	26-Jul-17 10:00:00		0.00	0.00	0.00	5.15	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	26-Jul-17 09:00:00		**10.35**	**18.92**	**83.84**	**88.38**
26-Jul-17 10:00:00	26-Jul-17 11:00:00		0.00	0.00	0.00	5.12	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	26-Jul-17 10:00:00		**10.35**	**18.92**	**83.84**	**88.37**
26-Jul-17 11:00:00	26-Jul-17 12:00:00		0.00	0.00	0.00	5.06	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	26-Jul-17 11:00:00		**10.35**	**18.92**	**83.84**	**88.35**
26-Jul-17 12:00:00	26-Jul-17 13:00:00		0.00	0.00	0.00	4.

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
28-Jul-17 14:00:00	28-Jul-17 15:00:00		296.04	0.00	0.00	4.15	2.1	329.7		97.61	0.00	0.00	1.37		10.35	18.92	83.84	86.68	28-Jul-17 14:00:00		**107.96**	**18.92**	**83.84**	**88.05**
28-Jul-17 15:00:00	28-Jul-17 16:00:00		372.85	0.00	0.00	4.20	2.1	329.7		122.93	0.00	0.00	1.38		10.35	18.92	83.84	86.68	28-Jul-17 15:00:00		**133.28**	**18.92**	**83.84**	**88.06**
28-Jul-17 16:00:00	28-Jul-17 17:00:00		382.79	0.00	0.00	4.36	2.1	329.7		126.21	0.00	0.00	1.44		10.35	18.92	83.84	86.68	28-Jul-17 16:00:00		**136.56**	**18.92**	**83.84**	**88.12**
28-Jul-17 17:00:00	28-Jul-17 18:00:00		435.91	0.00	0.00	4.51	2.1	329.7		143.72	0.00	0.00	1.49		10.35	18.92	83.84	86.68	28-Jul-17 17:00:00		**154.07**	**18.92**	**83.84**	**88.17**
28-Jul-17 18:00:00	28-Jul-17 19:00:00		981.12	0.00	0.00	4.65	2.1	329.7		323.47	0.00	0.00	1.53		10.35	18.92	83.84	86.68	28-Jul-17 18:00:00		**333.82**	**18.92**	**83.84**	**88.21**
28-Jul-17 19:00:00	28-Jul-17 20:00:00		1,572.19	0.00	0.00	4.85	2.1	329.7		518.35	0.00	0.00	1.60		10.35	18.92	83.84	86.68	28-Jul-17 19:00:00		**528.70**	**18.92**	**83.84**	**88.28**
28-Jul-17 20:00:00	28-Jul-17 21:00:00		1,553.66	0.00	0.00	4.86	2.1	329.7		512.24	0.00	0.00	1.60		10.35	18.92	83.84	86.68	28-Jul-17 20:00:00		**522.59**	**18.92**	**83.84**	**88.28**
28-Jul-17 21:00:00	28-Jul-17 22:00:00		1,511.77	0.00	0.00	4.83	2.1	329.7		498.43	0.00	0.00	1.59		10.35	18.92	83.84	86.68	28-Jul-17 21:00:00		**508.78**	**18.92**	**83.84**	**88.27**
28-Jul-17 22:00:00	28-Jul-17 23:00:00		1,486.69	0.00	0.00	4.79	2.1	329.7		490.16	0.00	0.00	1.58		10.35	18.92	83.84	86.68	28-Jul-17 22:00:00		**500.51**	**18.92**	**83.84**	**88.26**
28-Jul-17 23:00:00	29-Jul-17 00:00:00		1,452.15	0.00	0.00	4.84	2.1	329.7		478.77	0.00	0.00	1.60		10.35	18.92	83.84	86.68	28-Jul-17 23:00:00		**489.12**	**18.92**	**83.84**	**88.28**
29-Jul-17 00:00:00	29-Jul-17 01:00:00		1,384.69	0.00	0.00	5.02	2.1	329.7		456.53	0.00	0.00	1.66		10.35	18.92	83.84	86.68	29-Jul-17 00:00:00		**466.88**	**18.92**	**83.84**	**88.34**
29-Jul-17 01:00:00	29-Jul-17 02:00:00		1,021.16	0.00	0.00	5.20	2.1	329.7		336.68	0.00	0.00	1.72		10.35	18.92	83.84	86.68	29-Jul-17 01:00:00		**347.03**	**18.92**	**83.84**	**88.40**
29-Jul-17 02:00:00	29-Jul-17 03:00:00		387.48	0.00	0.00	5.38	2.1	329.7		127.75	0.00	0.00	1.78		10.35	18.92	83.84	86.68	29-Jul-17 02:00:00		**138.10**	**18.92**	**83.84**	**88.46**
29-Jul-17 03:00:00	29-Jul-17 04:00:00		182.34	0.00	0.00	5.49	2.1	329.7		60.12	0.00	0.00	1.81		10.35	18.92	83.84	86.68	29-Jul-17 03:00:00		**70.47**	**18.92**	**83.84**	**88.49**
29-Jul-17 04:00:00	29-Jul-17 05:00:00		0.00	0.00	0.00	5.38	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	29-Jul-17 04:00:00		**10.35**	**18.92**	**83.84**	**88.45**
29-Jul-17 05:00:00	29-Jul-17 06:00:00		0.00	0.00	0.00	6.05	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	29-Jul-17 05:00:00		**10.35**	**18.92**	**83.84**	**88.68**
29-Jul-17 06:00:00	29-Jul-17 07:00:00		0.00	0.00	0.00	5.28	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	29-Jul-17 06:00:00		**10.35**	**18.92**	**83.84**	**88.42**
29-Jul-17 07:00:00	29-Jul-17 08:00:00		0.00	0.00	0.00	5.93	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	29-Jul-17 07:00:00		**10.35**	**18.92**	**83.84**	**88.64**
29-Jul-17 08:00:00	29-Jul-17 09:00:00		0.00	0.00	0.00	9.76	2.1	329.7		0.00	0.00	0.00	3.22		10.35	18.92	83.84	86.68	29-Jul-17 08:00:00		**10.35**	**18.92**	**83.84**	**89.90**
29-Jul-17 09:00:00	29-Jul-17 10:00:00		0.00	0.00	0.00	4.52	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	29-Jul-17 09:00:00		**10.35**	**18.92**	**83.84**	**88.17**
29-Jul-17 10:00:00	29-Jul-17 11:00:00		0.00	0.00	0.00	4.37	2.1	329.7		0.00	0.00	0.00	1.44		10.35	18.92	83.84	86.68	29-Jul-17 10:00:00		**10.35**	**18.92**	**83.84**	**88.12**
29-Jul-17 11:00:00	29-Jul-17 12:00:00		0.00	0.00	0.00	4.23	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	29-Jul-17 11:00:00		**10.35**	**18.92**	**83.84**	**88.07**
29-Jul-17 12:00:00	29-Jul-17 13:00:00		0.00	0.00	0.00	38.89	2.1	329.7		0.00	0.00	0.00	12.82		10.35	18.92	83.84	86.68	29-Jul-17 12:00:00		**10.35**	**18.92**	**83.84**	**99.50**
29-Jul-17 13:00:00	29-Jul-17 14:00:00		0.00	0.00	0.00	5.26	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	29-Jul-17 13:00:00		**10.35**	**18.92**	**83.84**	**88.42**
29-Jul-17 14:00:00	29-Jul-17 15:00:00		0.00	0.00	0.00	4.64	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	29-Jul-17 14:00:00		**10.35**	**18.92**	**83.84**	**88.21**
29-Jul-17 15:00:00	29-Jul-17 16:00:00		0.00	0.00	0.00	45.42	2.1	329.7		0.00	0.00	0.00	14.98		10.35	18.92	83.84	86.68	29-Jul-17 15:00:00		**10.35**	**18.92**	**83.84**	**101.66**
29-Jul-17 16:00:00	29-Jul-17 17:00:00		0.00	0.00	0.00	4.00	2.1	329.7		0.00	0.00	0.00	1.32		10.35	18.92	83.84	86.68	29-Jul-17 16:00:00		**10.35**	**18.92**	**83.84**	**88.00**
29-Jul-17 17:00:00	29-Jul-17 18:00:00		0.00	0.00	0.00	4.10	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	29-Jul-17 17:00:00		**10.35**	**18.92**	**83.84**	**88.03**
29-Jul-17 18:00:00	29-Jul-17 19:00:00		0.00	0.00	0.00	4.92	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	29-Jul-17 18:00:00		**10.35**	**18.92**	**83.84**	**88.30**
29-Jul-17 19:00:00	29-Jul-17 20:00:00		0.00	0.00	0.00	4.35	2.1	329.7		0.00	0.00	0.00	1.44		10.35	18.92	83.84	86.68	29-Jul-17 19:00:00		**10.35**	**18.92**	**83.84**	**88.12**
29-Jul-17 20:00:00	29-Jul-17 21:00:00		0.35	0.00	0.00	4.63	2.1	329.7		0.11	0.00	0.00	1.53		10.35	18.92	83.84	86.68	29-Jul-17 20:00:00		**10.46**	**18.92**	**83.84**	**88.21**
29-Jul-17 21:00:00	29-Jul-17 22:00:00		0.16	0.00	0.00	4.90	2.1	329.7		0.05	0.00	0.00	1.62		10.35	18.92	83.84	86.68	29-Jul-17 21:00:00		**10.40**	**18.92**	**83.84**	**88.30**
29-Jul-17 22:00:00	29-Jul-17 23:00:00		0.00	0.00	0.00	16.55	2.1	329.7		0.00	0.00	0.00	5.46		10.35	18.92	83.84	86.68	29-Jul-17 22:00:00		**10.35**	**18.92**	**83.84**	**92.14**
29-Jul-17 23:00:00	30-Jul-17 00:00:00		3.56	0.00	0.00	5.22	2.1	329.7		1.18	0.00	0.00	1.72		10.35	18.92	83.84	86.68	29-Jul-17 23:00:00		**11.53**	**18.92**	**83.84**	**88.40**
30-Jul-17 00:00:00	30-Jul-17 01:00:00		4.33	0.00	0.00	5.23	2.1	329.7		1.43	0.00	0.00	1.72		10.35	18.92	83.84	86.68	30-Jul-17 00:00:00		**11.78**	**18.92**	**83.84**	**88.40**
30-Jul-17 01:00:00	30-Jul-17 02:00:00		0.59	0.00	0.00	16.19	2.1	329.7		0.20	0.00	0.00	5.34		10.35	18.92	83.84	86.68	30-Jul-17 01:00:00		**10.55**	**18.92**	**83.84**	**92.02**
30-Jul-17 02:00:00	30-Jul-17 03:00:00		3.35	0.00	0.00	5.48	2.1	329.7		1.10	0.00	0.00	1.81		10.35	18.92	83.84	86.68	30-Jul-17 02:00:00		**11.45**	**18.92**	**83.84**	**88.49**
30-Jul-17 03:00:00	30-Jul-17 04:00:00		33.87	0.00	0.00	5.60	2.1	329.7		11.17	0.00	0.00	1.85		10.35	18.92	83.84	86.68	30-Jul-17 03:00:00		**21.52**	**18.92**	**83.84**	**88.53**
30-Jul-17 04:00:00	30-Jul-17 05:00:00		11.50	0.00	0.00	27.84	2.1	329.7		3.79	0.00	0.00	9.18		10.35	18.92	83.84	86.68	30-Jul-17 04:00:00		**14.14**	**18.92**	**83.84**	**95.86**
30-Jul-17 05:00:00	30-Jul-17 06:00:00		8.69	0.00	0.00	7.00	2.1	329.7		2.86	0.00	0.00	2.31		10.35	18.92	83.84	86.68	30-Jul-17 05:00:00		**13.21**	**18.92**	**83.84**	**88.99**
30-Jul-17 06:00:00	30-Jul-17 07:00:00		19.58	0.00	0.00	5.74	2.1	329.7		6.46	0.00	0.00	1.89		10.35	18.92	83.84	86.68	30-Jul-17 06:00:00		**16.81**	**18.92**	**83.84**	**88.57**
30-Jul-17 07:00:00	30-Jul-17 08:00:00		22.66	0.00	0.00	5.76	2.1	329.7		7.47	0.00	0.00	1.90		10.35	18.92	83.84	86.68	30-Jul-17 07:00:00		**17.82**	**18.92**	**83.84**	**88.58**
30-Jul-17 08:00:00	30-Jul-17 09:00:00		6.73	0.00	0.00	7.36	2.1	329.7		2.22	0.00	0.00	2.43		10.35	18.92	83.84	86.68	30-Jul-17 08:00:00		**12.57**	**18.92**	**83.84**	**89.11**
30-Jul-17 09:00:00	30-Jul-17 10:00:00		10.43	0.00	0.00	5.40	2.1	329.7		3.44	0.00	0.00	1.78		10.35	18.92	83.84	86.68	30-Jul-17 09:00:00		**13.79**	**18.92**	**83.84**	**88.46**
30-Jul-17 10:00:00	30-Jul-17 11:00:00		4.62	0.00	0.00	5.11	2.1	329.7		1.52	0.00	0.00	1.68		10.35	18.92	83.84	86.68	30-Jul-17 10:00:00		**11.87**	**18.92**	**83.84**	**88.36**
30-Jul-17 11:00:00	30-Jul-17 12:00:00		7.64	0.00	0.00	18.10	2.1	329.7		2.52	0.00	0.00	5.97		10.35	18.92	83.84	86.68	30-Jul-17 11:00:00		**12.87**	**18.92**	**83.84**	**92.65**
30-Jul-17 12:00:00	30-Jul-17 13:00:00		11.15	0.00	0.00	4.57	2.1	329.7		3.68	0.00	0.00	1.51		10.35	18.92	83.84	86.68	30-Jul-17 12:00:00		**14.03**	**18.92**	**83.84**	**88.19**
30-Jul-17 13:00:00	30-Jul-17 14:00:00		11.31	0.00	0.00	4.41	2.1	329.7		3.73	0.00	0.00	1.46		10.35	18.92	83.84	86.68	30-Jul-17 13:00:00		**14.08**	**18.92**	**83.84**	**88.14**
30-Jul-17 14:00:00	30-Jul-17 15:00:00		0.00	0.00	0.00	5.13	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	30-Jul-17 14:00:00		**10.35**	**18.92**	**83.84**	**88.37**
30-Jul-17 15:00:00	30-Jul-17 16:00:00		0.06	0.00	0.00	4.15	2.1	329.7		0.02	0.00	0.00	1.37		10.35	18.92	83.84	86.68	30-Jul-17 15:00:00		**10.37**	**18.92**	**83.84**	**88.05**
30-Jul-17 16:00:00	30-Jul-17 17:00:00		0.00	0.00	0.00	4.19	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	30-Jul-17 16:00:00		**10.35**	**18.92**	**83.84**	**88.06**
30-Jul-17 17:00:00	30-Jul-17 18:00:00		0.00	0.00	0.00	4.26	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	30-Jul-17 17:00:00		**10.35**	**18.92**	**83.84**	**88.08**
30-Jul-17 18:00:00	30-Jul-17 19:00:00		0.00	0.00	0.00	18.08	2.1	329.7		0.00	0.00	0.00	5.96		10.35	18.92	83.84	86.68	30-Jul-17 18:00:00		**10.35**	**18.92**	**83.84**	**92.64**
30-Jul-17 19:00:00	30-Jul-17 20:00:00		0.00	0.00	0.00	4.49	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	30-Jul-17 19:00:00		**10.35**	**18.92**	**83.84**	**88.16**
30-Jul-17 20:00:00	30-Jul-17 21:00:00		0.00	0.00	0.00	4.60	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	30-Jul-17 20:00:00		**10.35**	**18.92**	**83.84**	**88.20**
30-Jul-17 21:00:00	30-Jul-17 22:00:00		0.00	0.00	0.00	7.21	2.1	329.7		0.00	0.00	0.00	2.38		10.35	18.92	83.84	86.68	30-Jul-17 21:00:00		**10.35**	**18.92**	**83.84**	**89.06**
30-Jul-17 22:00:00	30-Jul-17 23:00:00		3.16	0.00	0.00	4.86	2.1	329.7		1.04	0.00	0.00	1.60		10.35	18.92	83.84	86.68	30-Jul-17 22:00:00		**11.39**	**18.92**	**83.84**	**88.28**
30-Jul-17 23:00:00	31-Jul-17 00:00:00		3.52	0.00	0.00	4.99	2.1	329.7		1.16	0.00	0.00	1.64		10.35	18.92	83.84	86.68	30-Jul-17 23:00:00		**11.51**	**18.92**	**83.84**	**88.32**
31-Jul-17 00:00:00	31-Jul-17 01:00:00		2.32	0.00	0.00	11.25	2.1	329.7		0.77	0.00	0.00	3.71		10.35	18.92	83.84	86.68	31-Jul-17 00:00:00		**11.12**	**18.92**	**83.84**	**90.39**
31-Jul-17 01:00:00	31-Jul-17 02:00:00		5.52	0.00	0.00	12.61	2.1	329.7		1.82	0.00	0.00	4.16		10.35	18.92	83.84	86.68	31-Jul-17 01:00:00		**12.17**	**18.92**	**83.84**	**90.84**
31-Jul-17 02:00:00	31-Jul-17 03:00:00		2.02	0.00	0.00	5.37	2.1	329.7		0.67	0.00	0.00	1.77		10.35	18.92	83.84	86.68	31-Jul-17 02:00:00		**11.02**	**18.92**	**83.84**	**88.45**
31-Jul-17 03:00:00	31-Jul-17 04:00:00		1.74	0.00	0.00	5.48	2.1	329.7		0.57	0.00	0.00	1.81		10.35	18.92	83.84	86.68	31-Jul-17 03:00:00		**10.92**	**18.92**	**83.84**	**88.49**
31-Jul-17 04:00:00	31-Jul-17 05:00:00		1.39	0.00	0.00	5.58	2.1	329.7		0.46	0.00	0.00	1.84		10.35	18.92	83.84	86.68	31-Jul-17 04:00:00		**10.81**	**18.92**	**83.84**	**88.52**
31-Jul-17 05:00:00	31-Jul-17 06:00:00		0.86	0.00	0.00	5.65	2.1	329.7		0.29	0.00	0.00	1.86		10.35	18.92	83.84	86.68	31-Jul-17 05:00:00		**10.64**	**18.92**	**83.84**	**88.54**
31-Jul-17 06:00:00	31-Jul-17 07:00:00		0.34	0.00	0.00	5.56	2.1	329.7		0.11	0.00	0.00	1.83		10.35	18.92	83.84	86.68	31-Jul-17 06:00:00		**10.46**	**18.92**	**83.84**	**88.51**
31-Jul-17 07:00:00	31-Jul-17 08:00:00		0.00	0.00	0.00	5.46	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	31-Jul-17 07:00:00		**10.35**	**18.92**	**83.84**	**88.48**
31-Jul-17 08:00:00	31-Jul-17 09:00:00		0.00	0.00	0.00	5.36	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	31-Jul-17 08:00:00		**10.35**	**18.92**	**83.84**	**88.45**
31-Jul-17 09:00:00	31-Jul-17 10:00:00		0.00	0.00	0.00	5.24	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	31-Jul-17 09:00:00		**10.35**	**18.92**	**83.84**	**88.41**
31-Jul-17 10:00:00	31-Jul-17 11:00:00		0.00	0.00	0.00	4.92	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	31-Jul-17 10:00:00		**10.35**	**18.92**	**83.84**	**88.30**
31-Jul-17 11:00:00	31-Jul-17 12:00:00		1.29	0.00	0.00	12.59	2.1	329.7		0.42	0.00	0.00	4.15		10.35	18.92	83.84	86.68	31-Jul-17 11:00:00		**10.77**	**18.92**	**83.84**	**90.83**
31-Jul-17 12:00:00	31-Jul-17 13:00:00		13.67	0.00	0.00	4.45	2.1	329.7		4.51	0.00	0.00	1.47		10.35	18.92	83.84	86.68	31-Jul-17 12:00:00		**14.86**	**18.92**	**83.84**	**88.15**
31-Jul-17 13:00:00	31-Jul-17 14:00:00		1.95	0.00	0.00	4.35	2.1	329.7		0.64	0.00	0.00	1.43		10.35	18.92	83.84	86.68	31-Jul-17 13:00:00		**10.99**	**18.92**	**83.84**	**88.11**
31-Jul-17 14:00:00	31-Jul-17 15:00:00		3.74	0.00	0.00	4.24	2.1	329.7		1.23	0.00	0.00	1.40		10.35	18.92	83.84	86.68	31-Jul-17 14:00:00		**11.58**	**18.92**	**83.84**	**88.08**
31-Jul-17 15:00:00	31-Jul-17 16:00:00		0.13	0.00	0.00	4.15	2.1	329.7		0.04	0.00	0.00	1.37		10.35	18.92	83.84	86.68	31-Jul-17 15:00:00		**10.39**	**18.92**	**83.84**	**88.05**
31-Jul-17 16:00:00	31-Jul-17 17:00:00		0.00	0.00	0.00	4.13	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	31-Jul-17 16:00:00		**10.35**	**18.92**	**83.84**	**88.04**
31-Jul-17 17:00:00	31-Jul-17 18:00:00		0.00	0.00	0.00	6.43	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	31-Jul-17 17:00:00		**10.35**	**18.92**	**83.84**	**88.80**
31-Jul-17 18:00:00	31-Jul-17 19:00:00		0.00	0.00	0.00	4.17	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	31-Jul-17 18:00:00		**10.35**	**18.92**	**83.84**	**88.05**
31-Jul-17 19:00:00	31-Jul-17 20:00:00		0.11	0.00	0.00	4.31	2.1	329.7		0.04	0.00	0.00	1.42		10.35	18.92	83.84	86.68	31-Jul-17 19:00:00		**10.39**	**18.92**	**83.84**	**88.10**
31-Jul-17 20:00:00	31-Jul-17 21:00:00		0.46	0.00	0.00	4.45	2.1	329.7		0.15	0.00	0.00	1.47		10.35	18.92	83.84	86.68	31-Jul-17 20:00:00		**10.50**	**18.92**	**83.84**	**88.15**
31-Jul-17 21:00:00	31-Jul-17 22:00:00		2.52	0.00	0.00	40.00	2.1	329.7		0.83	0.00	0.00	13.19		10.35	18.92	83.84	86.68	31-Jul-17 21:00:00		**11.18**	**18.92**	**83.84**	**99.87**
31-Jul-17 22:00:00	31-Jul-17 23:00:00		2.74	0.00	0.00	4.89	2.1	329.7		0.90	0.00	0.00	1.61		10.35	18.92	83.84	86.68	31-Jul-17 22:00:00		**11.25**	**18.92**	**83.84**	**88.29**
31-Jul-17 23:00:00	01-Aug-17 00:00:00		2.65	0.00	0.00	5.05	2.1	329.7		0.87	0.00	0.00	1.67		10.35	18.92	83.84	86.68	31-Jul-17 23:00:00		**11.22**	**18.92**	**83.84**	**88.35**
01-Aug-17 00:00:00	01-Aug-17 01:00:00		1.54	0.00	0.00	16.87	2.1	329.7		0.51	0.00	0.00	5.56		10.35	18.92	83.84	86.68	01-Aug-17 00:00:00		**10.86**	**18.92**	**83.84**	**92.24**
01-Aug-17 01:00:00	01-Aug-17 02:00:00		1.08	0.00	0.00	5.33	2.1	329.7		0.36	0.00	0.00	1.76		10.35	18.92	83.84	86.68	01-Aug-17 01:00:00		**10.71**	**18.92**	**83.84**	**88.44**
01-Aug-17 02:00:00	01-Aug-17 03:00:00		0.59	0.00	0.00	5.42	2.1	329.7		0.20	0.00	0.00	1.79		10.35	18.92	83.84	86.68	01-Aug-17 02:00:00		**10.55**	**18.92**	**83.84**	**88.47**
01-Aug-17 03:00:00	01-Aug-17 04:00:00		0.42	0.00	0.00	23.09	2.1	329.7		0.14	0.00	0.00	7.61		10.35	18.92	83.84	86.68	01-Aug-17 03:00:00		**10.49**	**18.92**	**83.84**	**94.29**
01-Aug-17 04:00:00	01-Aug-17 05:00:00		0.25	0.00	0.00	5.52	2.1	329.7		0.08	0.00	0.00	1.82		10.35	18.92	83.84	86.68	01-Aug-17 04:00:00		**10.43**	**18.92**	**83.84**	**88.50**
01-Aug-17 05:00:00	01-Aug-17 06:00:00		0.07	0.00	0.00	5.42	2.1	329.7		0.02	0.00	0.00	1.79		10.35	18.92	83.84	86.68	01-Aug-17 05:00:00		**10.37**	**18.92**	**83.84**	**88.47**
01-Aug-17 06:00:00	01-Aug-17 07:00:00		0.00	0.00	0.00	5.88	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	01-Aug-17 06:00:00		**10.35**	**18.92**	**83.84**	**88.62**
01-Aug-17 07:00:00	01-Aug-17 08:00:00		0.00	0.00	0.00	5.28	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	01-Aug-17 07:00:00		**10.35**	**18.92**	**83.84**	**88.42**
01-Aug-17 08:00:00	01-Aug-17 09:00:00		0.00	0.00	0.00	5.10	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	01-Aug-17 08:00:00		**10.35**	**18.92**	**83.84**	**88.36**
01-Aug-17 09:00:00	01-Aug-17 10:00:00		0.00	0.00	0.00	4.91	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	01-Aug-17 09:00:00		**10.35**	**18.92**	**83.84**	**88.30**
01-Aug-17 10:00:00	01-Aug-17 11:00:00		0.00	0.00	0.00	4.71	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	01-Aug-17 10:00:00		**10.35**	**18.92**	**83.84**	**88.23**
01-Aug-17 11:00:00	01-Aug-17 12:00:00		1.17	0.00

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
03-Aug-17 13:00:00	03-Aug-17 14:00:00		5.87	0.00	0.00	3.89	2.1	329.7		1.93	0.00	0.00	1.28		10.35	18.92	83.84	86.68	03-Aug-17 13:00:00		12.28	18.92	83.84	87.96
03-Aug-17 14:00:00	03-Aug-17 15:00:00		3.83	0.00	0.00	3.81	2.1	329.7		1.26	0.00	0.00	1.26		10.35	18.92	83.84	86.68	03-Aug-17 14:00:00		11.61	18.92	83.84	87.94
03-Aug-17 15:00:00	03-Aug-17 16:00:00		5.31	0.00	0.00	3.74	2.1	329.7		1.75	0.00	0.00	1.23		10.35	18.92	83.84	86.68	03-Aug-17 15:00:00		12.10	18.92	83.84	87.91
03-Aug-17 16:00:00	03-Aug-17 17:00:00		3.44	0.00	0.00	3.66	2.1	329.7		1.13	0.00	0.00	1.21		10.35	18.92	83.84	86.68	03-Aug-17 16:00:00		11.48	18.92	83.84	87.89
03-Aug-17 17:00:00	03-Aug-17 18:00:00		1.92	0.00	0.00	3.64	2.1	329.7		0.63	0.00	0.00	1.20		10.35	18.92	83.84	86.68	03-Aug-17 17:00:00		10.98	18.92	83.84	87.88
03-Aug-17 18:00:00	03-Aug-17 19:00:00		1.23	0.00	0.00	3.77	2.1	329.7		0.41	0.00	0.00	1.24		10.35	18.92	83.84	86.68	03-Aug-17 18:00:00		10.76	18.92	83.84	87.92
03-Aug-17 19:00:00	03-Aug-17 20:00:00		0.54	0.00	0.00	3.90	2.1	329.7		0.18	0.00	0.00	1.29		10.35	18.92	83.84	86.68	03-Aug-17 19:00:00		10.53	18.92	83.84	87.97
03-Aug-17 20:00:00	03-Aug-17 21:00:00		0.22	0.00	0.00	4.05	2.1	329.7		0.07	0.00	0.00	1.34		10.35	18.92	83.84	86.68	03-Aug-17 20:00:00		10.42	18.92	83.84	88.02
03-Aug-17 21:00:00	03-Aug-17 22:00:00		0.93	0.00	0.00	4.38	2.1	329.7		0.31	0.00	0.00	1.44		10.35	18.92	83.84	86.68	03-Aug-17 21:00:00		10.66	18.92	83.84	88.12
03-Aug-17 22:00:00	03-Aug-17 23:00:00		3.63	0.00	0.00	4.51	2.1	329.7		1.20	0.00	0.00	1.49		10.35	18.92	83.84	86.68	03-Aug-17 22:00:00		11.55	18.92	83.84	88.17
03-Aug-17 23:00:00	04-Aug-17 00:00:00		3.36	0.00	0.00	4.63	2.1	329.7		1.11	0.00	0.00	1.53		10.35	18.92	83.84	86.68	03-Aug-17 23:00:00		11.46	18.92	83.84	88.21
04-Aug-17 00:00:00	04-Aug-17 01:00:00		14.04	0.00	0.00	4.75	2.1	329.7		4.63	0.00	0.00	1.57		10.35	18.92	83.84	86.68	04-Aug-17 00:00:00		14.98	18.92	83.84	88.25
04-Aug-17 01:00:00	04-Aug-17 02:00:00		6.85	0.00	0.00	4.86	2.1	329.7		2.26	0.00	0.00	1.60		10.35	18.92	83.84	86.68	04-Aug-17 01:00:00		12.61	18.92	83.84	88.28
04-Aug-17 02:00:00	04-Aug-17 03:00:00		5.17	0.00	0.00	4.94	2.1	329.7		1.70	0.00	0.00	1.63		10.35	18.92	83.84	86.68	04-Aug-17 02:00:00		12.05	18.92	83.84	88.31
04-Aug-17 03:00:00	04-Aug-17 04:00:00		0.00	0.00	0.00	5.02	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	04-Aug-17 03:00:00		10.35	18.92	83.84	88.33
04-Aug-17 04:00:00	04-Aug-17 05:00:00		0.00	0.00	0.00	5.10	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	04-Aug-17 04:00:00		10.35	18.92	83.84	88.36
04-Aug-17 05:00:00	04-Aug-17 06:00:00		0.00	0.00	0.00	5.22	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	04-Aug-17 05:00:00		10.35	18.92	83.84	88.40
04-Aug-17 06:00:00	04-Aug-17 07:00:00		0.11	0.00	0.00	5.35	2.1	329.7		0.04	0.00	0.00	1.76		10.35	18.92	83.84	86.68	04-Aug-17 06:00:00		10.39	18.92	83.84	88.44
04-Aug-17 07:00:00	04-Aug-17 08:00:00		0.00	0.00	0.00	5.48	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	04-Aug-17 07:00:00		10.35	18.92	83.84	88.49
04-Aug-17 08:00:00	04-Aug-17 09:00:00		0.00	0.00	0.00	5.61	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	04-Aug-17 08:00:00		10.35	18.92	83.84	88.53
04-Aug-17 09:00:00	04-Aug-17 10:00:00		0.00	0.00	0.00	5.47	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	04-Aug-17 09:00:00		10.35	18.92	83.84	88.48
04-Aug-17 10:00:00	04-Aug-17 11:00:00		0.00	0.00	0.00	5.23	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	04-Aug-17 10:00:00		10.35	18.92	83.84	88.40
04-Aug-17 11:00:00	04-Aug-17 12:00:00		0.12	0.00	0.00	4.99	2.1	329.7		0.04	0.00	0.00	1.65		10.35	18.92	83.84	86.68	04-Aug-17 11:00:00		10.39	18.92	83.84	88.33
04-Aug-17 12:00:00	04-Aug-17 13:00:00		2.78	0.00	0.00	4.75	2.1	329.7		0.92	0.00	0.00	1.57		10.35	18.92	83.84	86.68	04-Aug-17 12:00:00		11.27	18.92	83.84	88.25
04-Aug-17 13:00:00	04-Aug-17 14:00:00		6.45	0.00	0.00	4.59	2.1	329.7		2.13	0.00	0.00	1.51		10.35	18.92	83.84	86.68	04-Aug-17 13:00:00		12.48	18.92	83.84	88.19
04-Aug-17 14:00:00	04-Aug-17 15:00:00		2.64	0.00	0.00	4.44	2.1	329.7		0.87	0.00	0.00	1.46		10.35	18.92	83.84	86.68	04-Aug-17 14:00:00		11.22	18.92	83.84	88.14
04-Aug-17 15:00:00	04-Aug-17 16:00:00		2.96	0.00	0.00	4.29	2.1	329.7		0.98	0.00	0.00	1.41		10.35	18.92	83.84	86.68	04-Aug-17 15:00:00		11.33	18.92	83.84	88.09
04-Aug-17 16:00:00	04-Aug-17 17:00:00		2.69	0.00	0.00	4.14	2.1	329.7		0.89	0.00	0.00	1.36		10.35	18.92	83.84	86.68	04-Aug-17 16:00:00		11.24	18.92	83.84	88.04
04-Aug-17 17:00:00	04-Aug-17 18:00:00		2.45	0.00	0.00	4.07	2.1	329.7		0.81	0.00	0.00	1.34		10.35	18.92	83.84	86.68	04-Aug-17 17:00:00		11.16	18.92	83.84	88.02
04-Aug-17 18:00:00	04-Aug-17 19:00:00		1.70	0.00	0.00	4.07	2.1	329.7		0.56	0.00	0.00	1.34		10.35	18.92	83.84	86.68	04-Aug-17 18:00:00		10.91	18.92	83.84	88.02
04-Aug-17 19:00:00	04-Aug-17 20:00:00		0.95	0.00	0.00	4.07	2.1	329.7		0.31	0.00	0.00	1.34		10.35	18.92	83.84	86.68	04-Aug-17 19:00:00		10.66	18.92	83.84	88.02
04-Aug-17 20:00:00	04-Aug-17 21:00:00		0.22	0.00	0.00	4.07	2.1	329.7		0.07	0.00	0.00	1.34		10.35	18.92	83.84	86.68	04-Aug-17 20:00:00		10.42	18.92	83.84	88.02
04-Aug-17 21:00:00	04-Aug-17 22:00:00		0.00	0.00	0.00	4.18	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	04-Aug-17 21:00:00		10.35	18.92	83.84	88.06
04-Aug-17 22:00:00	04-Aug-17 23:00:00		0.00	0.00	0.00	4.37	2.1	329.7		0.00	0.00	0.00	1.44		10.35	18.92	83.84	86.68	04-Aug-17 22:00:00		10.35	18.92	83.84	88.12
04-Aug-17 23:00:00	05-Aug-17 00:00:00		0.00	0.00	0.00	38.47	2.1	329.7		0.00	0.00	0.00	12.68		10.35	18.92	83.84	86.68	04-Aug-17 23:00:00		10.35	18.92	83.84	99.36
05-Aug-17 00:00:00	05-Aug-17 01:00:00		0.00	0.00	0.00	4.73	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	05-Aug-17 00:00:00		10.35	18.92	83.84	88.24
05-Aug-17 01:00:00	05-Aug-17 02:00:00		1.39	0.00	0.00	4.85	2.1	329.7		0.46	0.00	0.00	1.60		10.35	18.92	83.84	86.68	05-Aug-17 01:00:00		10.81	18.92	83.84	88.28
05-Aug-17 02:00:00	05-Aug-17 03:00:00		6.31	0.00	0.00	4.96	2.1	329.7		2.08	0.00	0.00	1.64		10.35	18.92	83.84	86.68	05-Aug-17 02:00:00		12.43	18.92	83.84	88.32
05-Aug-17 03:00:00	05-Aug-17 04:00:00		3.23	0.00	0.00	5.02	2.1	329.7		1.07	0.00	0.00	1.65		10.35	18.92	83.84	86.68	05-Aug-17 03:00:00		11.42	18.92	83.84	88.33
05-Aug-17 04:00:00	05-Aug-17 05:00:00		8.64	0.00	0.00	4.97	2.1	329.7		2.85	0.00	0.00	1.64		10.35	18.92	83.84	86.68	05-Aug-17 04:00:00		13.20	18.92	83.84	88.32
05-Aug-17 05:00:00	05-Aug-17 06:00:00		8.26	0.00	0.00	5.04	2.1	329.7		2.72	0.00	0.00	1.66		10.35	18.92	83.84	86.68	05-Aug-17 05:00:00		13.07	18.92	83.84	88.34
05-Aug-17 06:00:00	05-Aug-17 07:00:00		18.06	0.00	0.00	5.12	2.1	329.7		5.95	0.00	0.00	1.69		10.35	18.92	83.84	86.68	05-Aug-17 06:00:00		16.30	18.92	83.84	88.37
05-Aug-17 07:00:00	05-Aug-17 08:00:00		8.12	0.00	0.00	5.18	2.1	329.7		2.68	0.00	0.00	1.71		10.35	18.92	83.84	86.68	05-Aug-17 07:00:00		13.03	18.92	83.84	88.39
05-Aug-17 08:00:00	05-Aug-17 09:00:00		8.17	0.00	0.00	5.00	2.1	329.7		2.69	0.00	0.00	1.65		10.35	18.92	83.84	86.68	05-Aug-17 08:00:00		13.04	18.92	83.84	88.33
05-Aug-17 09:00:00	05-Aug-17 10:00:00		8.92	0.00	0.00	4.73	2.1	329.7		2.94	0.00	0.00	1.56		10.35	18.92	83.84	86.68	05-Aug-17 09:00:00		13.29	18.92	83.84	88.24
05-Aug-17 10:00:00	05-Aug-17 11:00:00		13.63	0.00	0.00	4.47	2.1	329.7		4.49	0.00	0.00	1.47		10.35	18.92	83.84	86.68	05-Aug-17 10:00:00		14.84	18.92	83.84	88.15
05-Aug-17 11:00:00	05-Aug-17 12:00:00		17.21	0.00	0.00	4.22	2.1	329.7		5.67	0.00	0.00	1.39		10.35	18.92	83.84	86.68	05-Aug-17 11:00:00		16.02	18.92	83.84	88.07
05-Aug-17 12:00:00	05-Aug-17 13:00:00		0.80	0.00	0.00	4.38	2.1	329.7		0.26	0.00	0.00	1.44		10.35	18.92	83.84	86.68	05-Aug-17 12:00:00		10.61	18.92	83.84	88.12
05-Aug-17 13:00:00	05-Aug-17 14:00:00		3.20	0.00	0.00	3.90	2.1	329.7		1.06	0.00	0.00	1.29		10.35	18.92	83.84	86.68	05-Aug-17 13:00:00		11.41	18.92	83.84	87.97
05-Aug-17 14:00:00	05-Aug-17 15:00:00		5.27	0.00	0.00	3.81	2.1	329.7		1.74	0.00	0.00	1.25		10.35	18.92	83.84	86.68	05-Aug-17 14:00:00		12.09	18.92	83.84	87.93
05-Aug-17 15:00:00	05-Aug-17 16:00:00		1.42	0.00	0.00	3.71	2.1	329.7		0.47	0.00	0.00	1.22		10.35	18.92	83.84	86.68	05-Aug-17 15:00:00		10.82	18.92	83.84	87.90
05-Aug-17 16:00:00	05-Aug-17 17:00:00		0.99	0.00	0.00	3.65	2.1	329.7		0.33	0.00	0.00	1.20		10.35	18.92	83.84	86.68	05-Aug-17 16:00:00		10.68	18.92	83.84	87.88
05-Aug-17 17:00:00	05-Aug-17 18:00:00		0.56	0.00	0.00	3.75	2.1	329.7		0.19	0.00	0.00	1.24		10.35	18.92	83.84	86.68	05-Aug-17 17:00:00		10.54	18.92	83.84	87.92
05-Aug-17 18:00:00	05-Aug-17 19:00:00		0.14	0.00	0.00	3.86	2.1	329.7		0.05	0.00	0.00	1.27		10.35	18.92	83.84	86.68	05-Aug-17 18:00:00		10.40	18.92	83.84	87.95
05-Aug-17 19:00:00	05-Aug-17 20:00:00		0.00	0.00	0.00	3.97	2.1	329.7		0.00	0.00	0.00	1.31		10.35	18.92	83.84	86.68	05-Aug-17 19:00:00		10.35	18.92	83.84	87.99
05-Aug-17 20:00:00	05-Aug-17 21:00:00		0.00	0.00	0.00	4.11	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	05-Aug-17 20:00:00		10.35	18.92	83.84	88.04
05-Aug-17 21:00:00	05-Aug-17 22:00:00		0.00	0.00	0.00	4.26	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	05-Aug-17 21:00:00		10.35	18.92	83.84	88.08
05-Aug-17 22:00:00	05-Aug-17 23:00:00		0.03	0.00	0.00	4.40	2.1	329.7		0.01	0.00	0.00	1.45		10.35	18.92	83.84	86.68	05-Aug-17 22:00:00		10.36	18.92	83.84	88.13
05-Aug-17 23:00:00	06-Aug-17 00:00:00		1.32	0.00	0.00	4.55	2.1	329.7		0.43	0.00	0.00	1.50		10.35	18.92	83.84	86.68	05-Aug-17 23:00:00		10.78	18.92	83.84	88.18
06-Aug-17 00:00:00	06-Aug-17 01:00:00		0.77	0.00	0.00	4.65	2.1	329.7		0.25	0.00	0.00	1.53		10.35	18.92	83.84	86.68	06-Aug-17 00:00:00		10.60	18.92	83.84	88.21
06-Aug-17 01:00:00	06-Aug-17 02:00:00		0.05	0.00	0.00	4.75	2.1	329.7		0.02	0.00	0.00	1.56		10.35	18.92	83.84	86.68	06-Aug-17 01:00:00		10.37	18.92	83.84	88.24
06-Aug-17 02:00:00	06-Aug-17 03:00:00		0.11	0.00	0.00	4.84	2.1	329.7		0.04	0.00	0.00	1.60		10.35	18.92	83.84	86.68	06-Aug-17 02:00:00		10.39	18.92	83.84	88.28
06-Aug-17 03:00:00	06-Aug-17 04:00:00		0.17	0.00	0.00	4.93	2.1	329.7		0.06	0.00	0.00	1.63		10.35	18.92	83.84	86.68	06-Aug-17 03:00:00		10.41	18.92	83.84	88.31
06-Aug-17 04:00:00	06-Aug-17 05:00:00		9.42	0.00	0.00	5.00	2.1	329.7		3.11	0.00	0.00	1.65		10.35	18.92	83.84	86.68	06-Aug-17 04:00:00		13.46	18.92	83.84	88.33
06-Aug-17 05:00:00	06-Aug-17 06:00:00		8.11	0.00	0.00	5.09	2.1	329.7		2.68	0.00	0.00	1.68		10.35	18.92	83.84	86.68	06-Aug-17 05:00:00		13.03	18.92	83.84	88.36
06-Aug-17 06:00:00	06-Aug-17 07:00:00		16.22	0.00	0.00	5.18	2.1	329.7		5.35	0.00	0.00	1.71		10.35	18.92	83.84	86.68	06-Aug-17 06:00:00		15.70	18.92	83.84	88.39
06-Aug-17 07:00:00	06-Aug-17 08:00:00		10.62	0.00	0.00	5.28	2.1	329.7		3.50	0.00	0.00	1.74		10.35	18.92	83.84	86.68	06-Aug-17 07:00:00		13.85	18.92	83.84	88.42
06-Aug-17 08:00:00	06-Aug-17 09:00:00		8.14	0.00	0.00	5.31	2.1	329.7		2.68	0.00	0.00	1.75		10.35	18.92	83.84	86.68	06-Aug-17 08:00:00		13.03	18.92	83.84	88.43
06-Aug-17 09:00:00	06-Aug-17 10:00:00		5.62	0.00	0.00	4.99	2.1	329.7		1.85	0.00	0.00	1.65		10.35	18.92	83.84	86.68	06-Aug-17 09:00:00		12.20	18.92	83.84	88.33
06-Aug-17 10:00:00	06-Aug-17 11:00:00		4.66	0.00	0.00	4.65	2.1	329.7		1.54	0.00	0.00	1.53		10.35	18.92	83.84	86.68	06-Aug-17 10:00:00		11.89	18.92	83.84	88.21
06-Aug-17 11:00:00	06-Aug-17 12:00:00		11.34	0.00	0.00	4.31	2.1	329.7		3.74	0.00	0.00	1.42		10.35	18.92	83.84	86.68	06-Aug-17 11:00:00		14.09	18.92	83.84	88.10
06-Aug-17 12:00:00	06-Aug-17 13:00:00		4.34	0.00	0.00	4.08	2.1	329.7		1.43	0.00	0.00	1.35		10.35	18.92	83.84	86.68	06-Aug-17 12:00:00		11.78	18.92	83.84	88.03
06-Aug-17 13:00:00	06-Aug-17 14:00:00		3.03	0.00	0.00	4.00	2.1	329.7		1.00	0.00	0.00	1.32		10.35	18.92	83.84	86.68	06-Aug-17 13:00:00		11.35	18.92	83.84	88.00
06-Aug-17 14:00:00	06-Aug-17 15:00:00		0.00	0.00	0.00	3.92	2.1	329.7		0.00	0.00	0.00	1.29		10.35	18.92	83.84	86.68	06-Aug-17 14:00:00		10.35	18.92	83.84	87.97
06-Aug-17 15:00:00	06-Aug-17 16:00:00		0.12	0.00	0.00	3.84	2.1	329.7		0.04	0.00	0.00	1.27		10.35	18.92	83.84	86.68	06-Aug-17 15:00:00		10.39	18.92	83.84	87.95
06-Aug-17 16:00:00	06-Aug-17 17:00:00		0.00	0.00	0.00	3.95	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	06-Aug-17 16:00:00		10.35	18.92	83.84	87.98
06-Aug-17 17:00:00	06-Aug-17 18:00:00		0.00	0.00	0.00	4.29	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	06-Aug-17 17:00:00		10.35	18.92	83.84	88.09
06-Aug-17 18:00:00	06-Aug-17 19:00:00		0.00	0.00	0.00	4.63	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	06-Aug-17 18:00:00		10.35	18.92	83.84	88.21
06-Aug-17 19:00:00	06-Aug-17 20:00:00		0.00	0.00	0.00	4.97	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	06-Aug-17 19:00:00		10.35	18.92	83.84	88.32
06-Aug-17 20:00:00	06-Aug-17 21:00:00		4.06	0.00	0.00	5.07	2.1	329.7		1.34	0.00	0.00	1.67		10.35	18.92	83.84	86.68	06-Aug-17 20:00:00		11.69	18.92	83.84	88.35
06-Aug-17 21:00:00	06-Aug-17 22:00:00		11.09	0.00	0.00	4.95	2.1	329.7		3.66	0.00	0.00	1.63		10.35	18.92	83.84	86.68	06-Aug-17 21:00:00		14.01	18.92	83.84	88.31
06-Aug-17 22:00:00	06-Aug-17 23:00:00		16.07	0.00	0.00	4.85	2.1	329.7		5.30	0.00	0.00	1.60		10.35	18.92	83.84	86.68	06-Aug-17 22:00:00		15.65	18.92	83.84	88.28
06-Aug-17 23:00:00	07-Aug-17 00:00:00		12.53	0.00	0.00	4.75	2.1	329.7		4.13	0.00	0.00	1.57		10.35	18.92	83.84	86.68	06-Aug-17 23:00:00		14.48	18.92	83.84	88.25
07-Aug-17 00:00:00	07-Aug-17 01:00:00		29.51	0.00	0.00	4.68	2.1	329.7		9.73	0.00	0.00	1.54		10.35	18.92	83.84	86.68	07-Aug-17 00:00:00		20.08	18.92	83.84	88.22
07-Aug-17 01:00:00	07-Aug-17 02:00:00		37.05	0.00	0.00	4.68	2.1	329.7		12.21	0.00	0.00	1.54		10.35	18.92	83.84	86.68	07-Aug-17 01:00:00		22.56	18.92	83.84	88.22
07-Aug-17 02:00:00	07-Aug-17 03:00:00		42.24	0.00	0.00	4.69	2.1	329.7		13.93	0.00	0.00	1.55		10.35	18.92	83.84	86.68	07-Aug-17 02:00:00		24.28	18.92	83.84	88.23
07-Aug-17 03:00:00	07-Aug-17 04:00:00		43.04	0.00	0.00	12.79	2.1	329.7		14.19	0.00	0.00	4.22		10.35	18.92	83.84	86.68	07-Aug-17 03:00:00		24.54	18.92	83.84	90.90
07-Aug-17 04:00:00	07-Aug-17 05:00:00		44.24	0.00	0.00	4.80	2.1	329.7		14.59	0.00	0.00	1.58		10.35	18.92	83.84	86.68	07-Aug-17 04:00:00		24.94	18.92	83.84	88.26
07-Aug-17 05:00:00	07-Aug-17 06:00:00		42.54	0.00	0.00	4.79	2.1	329.7		14.02	0.00	0.00	1.58		10.35	18.92	83.84	86.68	07-Aug-17 05:00:00		24.37	18.92	83.84	88.26
07-Aug-17 06:00:00	07-Aug-17 07:00:00		33.86	0.00	0.00	4.78	2.1	329.7		11.16	0.00	0.00	1.57		10.35	18.92	83.84	86.68	07-Aug-17 06:00:00		21.51	18.92	83.84	88.25
07-Aug-17 07:00:00	07-Aug-17 08:00:00		19.53	0.00	0.00	4.74	2.1	329.7		6.44	0.00	0.00	1.56		10.35	18.92	83.84	86.68	07-Aug-17 07:00:00		16.79	18.92	83.84	88.24
07-Aug-17 08:00:00	07-Aug-17 09:00:00		16.99	0.00	0.00	4.72	2.1	329.7		5.60	0.00	0.00	1.56		10.35	18.92	83.84	86.68	07-Aug-17 08:00:00		15.95	18.92	83.84	88.24
07-Aug-17 09:00:00	07-Aug-17 10:00:00		15.61	0.00	0.00	4.71	2.1	329.7		5.15	0.00	0.00	1.55		10.35	18.92	83.84	86.68	07-Aug-17 09:00:00		15.50	18.92	83.84	88.23
07-Aug-17 10:00:00	07-Aug-17 11:00:00		8.30	0.00	0.00	4.69

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
09-Aug-17 12:00:00	09-Aug-17 13:00:00		16.38	0.00	0.00	4.59	2.1	329.7		5.40	0.00	0.00	1.51		10.35	18.92	83.84	86.68	09-Aug-17 12:00:00		**15.75**	**18.92**	**83.84**	**88.19**
09-Aug-17 13:00:00	09-Aug-17 14:00:00		7.92	0.00	0.00	4.44	2.1	329.7		2.61	0.00	0.00	1.46		10.35	18.92	83.84	86.68	09-Aug-17 13:00:00		**12.96**	**18.92**	**83.84**	**88.14**
09-Aug-17 14:00:00	09-Aug-17 15:00:00		18.86	0.00	0.00	4.25	2.1	329.7		6.22	0.00	0.00	1.40		10.35	18.92	83.84	86.68	09-Aug-17 14:00:00		**16.57**	**18.92**	**83.84**	**88.08**
09-Aug-17 15:00:00	09-Aug-17 16:00:00		12.48	0.00	0.00	4.27	2.1	329.7		4.12	0.00	0.00	1.41		10.35	18.92	83.84	86.68	09-Aug-17 15:00:00		**14.47**	**18.92**	**83.84**	**88.09**
09-Aug-17 16:00:00	09-Aug-17 17:00:00		29.22	0.00	0.00	4.28	2.1	329.7		9.63	0.00	0.00	1.41		10.35	18.92	83.84	86.68	09-Aug-17 16:00:00		**19.98**	**18.92**	**83.84**	**88.09**
09-Aug-17 17:00:00	09-Aug-17 18:00:00		29.21	0.00	0.00	4.30	2.1	329.7		9.63	0.00	0.00	1.42		10.35	18.92	83.84	86.68	09-Aug-17 17:00:00		**19.98**	**18.92**	**83.84**	**88.10**
09-Aug-17 18:00:00	09-Aug-17 19:00:00		0.85	0.00	0.00	4.33	2.1	329.7		0.28	0.00	0.00	1.43		10.35	18.92	83.84	86.68	09-Aug-17 18:00:00		**10.63**	**18.92**	**83.84**	**88.11**
09-Aug-17 19:00:00	09-Aug-17 20:00:00		0.42	0.00	0.00	4.95	2.1	329.7		0.14	0.00	0.00	1.63		10.35	18.92	83.84	86.68	09-Aug-17 19:00:00		**10.49**	**18.92**	**83.84**	**88.31**
09-Aug-17 20:00:00	09-Aug-17 21:00:00		0.25	0.00	0.00	4.60	2.1	329.7		0.08	0.00	0.00	1.52		10.35	18.92	83.84	86.68	09-Aug-17 20:00:00		**10.43**	**18.92**	**83.84**	**88.20**
09-Aug-17 21:00:00	09-Aug-17 22:00:00		0.09	0.00	0.00	4.67	2.1	329.7		0.03	0.00	0.00	1.54		10.35	18.92	83.84	86.68	09-Aug-17 21:00:00		**10.38**	**18.92**	**83.84**	**88.22**
09-Aug-17 22:00:00	09-Aug-17 23:00:00		0.00	0.00	0.00	5.22	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	09-Aug-17 22:00:00		**10.35**	**18.92**	**83.84**	**88.40**
09-Aug-17 23:00:00	10-Aug-17 00:00:00		14.19	0.00	0.00	4.76	2.1	329.7		4.68	0.00	0.00	1.57		10.35	18.92	83.84	86.68	09-Aug-17 23:00:00		**15.03**	**18.92**	**83.84**	**88.25**
10-Aug-17 00:00:00	10-Aug-17 01:00:00		4.32	0.00	0.00	4.84	2.1	329.7		1.42	0.00	0.00	1.59		10.35	18.92	83.84	86.68	10-Aug-17 00:00:00		**11.77**	**18.92**	**83.84**	**88.27**
10-Aug-17 01:00:00	10-Aug-17 02:00:00		0.80	0.00	0.00	4.91	2.1	329.7		0.26	0.00	0.00	1.62		10.35	18.92	83.84	86.68	10-Aug-17 01:00:00		**10.61**	**18.92**	**83.84**	**88.30**
10-Aug-17 02:00:00	10-Aug-17 03:00:00		0.00	0.00	0.00	5.02	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	10-Aug-17 02:00:00		**10.35**	**18.92**	**83.84**	**88.33**
10-Aug-17 03:00:00	10-Aug-17 04:00:00		0.00	0.00	0.00	5.12	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	10-Aug-17 03:00:00		**10.35**	**18.92**	**83.84**	**88.37**
10-Aug-17 04:00:00	10-Aug-17 05:00:00		0.00	0.00	0.00	5.19	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	10-Aug-17 04:00:00		**10.35**	**18.92**	**83.84**	**88.39**
10-Aug-17 05:00:00	10-Aug-17 06:00:00		2.18	0.00	0.00	5.26	2.1	329.7		0.72	0.00	0.00	1.74		10.35	18.92	83.84	86.68	10-Aug-17 05:00:00		**11.07**	**18.92**	**83.84**	**88.42**
10-Aug-17 06:00:00	10-Aug-17 07:00:00		6.40	0.00	0.00	5.30	2.1	329.7		2.11	0.00	0.00	1.75		10.35	18.92	83.84	86.68	10-Aug-17 06:00:00		**12.46**	**18.92**	**83.84**	**88.43**
10-Aug-17 07:00:00	10-Aug-17 08:00:00		0.99	0.00	0.00	5.46	2.1	329.7		0.33	0.00	0.00	1.80		10.35	18.92	83.84	86.68	10-Aug-17 07:00:00		**10.68**	**18.92**	**83.84**	**88.48**
10-Aug-17 08:00:00	10-Aug-17 09:00:00		3.06	0.00	0.00	5.09	2.1	329.7		1.01	0.00	0.00	1.68		10.35	18.92	83.84	86.68	10-Aug-17 08:00:00		**11.36**	**18.92**	**83.84**	**88.36**
10-Aug-17 09:00:00	10-Aug-17 10:00:00		5.82	0.00	0.00	5.00	2.1	329.7		1.92	0.00	0.00	1.65		10.35	18.92	83.84	86.68	10-Aug-17 09:00:00		**12.27**	**18.92**	**83.84**	**88.33**
10-Aug-17 10:00:00	10-Aug-17 11:00:00		1.61	0.00	0.00	4.91	2.1	329.7		0.53	0.00	0.00	1.62		10.35	18.92	83.84	86.68	10-Aug-17 10:00:00		**10.88**	**18.92**	**83.84**	**88.30**
10-Aug-17 11:00:00	10-Aug-17 12:00:00		5.86	0.00	0.00	4.78	2.1	329.7		1.93	0.00	0.00	1.58		10.35	18.92	83.84	86.68	10-Aug-17 11:00:00		**12.28**	**18.92**	**83.84**	**88.26**
10-Aug-17 12:00:00	10-Aug-17 13:00:00		33.50	0.00	0.00	4.59	2.1	329.7		11.04	0.00	0.00	1.51		10.35	18.92	83.84	86.68	10-Aug-17 12:00:00		**21.39**	**18.92**	**83.84**	**88.19**
10-Aug-17 13:00:00	10-Aug-17 14:00:00		27.63	0.00	0.00	4.40	2.1	329.7		9.11	0.00	0.00	1.45		10.35	18.92	83.84	86.68	10-Aug-17 13:00:00		**19.46**	**18.92**	**83.84**	**88.13**
10-Aug-17 14:00:00	10-Aug-17 15:00:00		0.51	0.00	0.00	4.21	2.1	329.7		0.17	0.00	0.00	1.39		10.35	18.92	83.84	86.68	10-Aug-17 14:00:00		**10.52**	**18.92**	**83.84**	**88.07**
10-Aug-17 15:00:00	10-Aug-17 16:00:00		1.73	0.00	0.00	4.09	2.1	329.7		0.57	0.00	0.00	1.35		10.35	18.92	83.84	86.68	10-Aug-17 15:00:00		**10.92**	**18.92**	**83.84**	**88.03**
10-Aug-17 16:00:00	10-Aug-17 17:00:00		2.83	0.00	0.00	4.13	2.1	329.7		0.93	0.00	0.00	1.36		10.35	18.92	83.84	86.68	10-Aug-17 16:00:00		**11.28**	**18.92**	**83.84**	**88.04**
10-Aug-17 17:00:00	10-Aug-17 18:00:00		0.24	0.00	0.00	4.17	2.1	329.7		0.08	0.00	0.00	1.38		10.35	18.92	83.84	86.68	10-Aug-17 17:00:00		**10.43**	**18.92**	**83.84**	**88.06**
10-Aug-17 18:00:00	10-Aug-17 19:00:00		0.00	0.00	0.00	4.21	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	10-Aug-17 18:00:00		**10.35**	**18.92**	**83.84**	**88.07**
10-Aug-17 19:00:00	10-Aug-17 20:00:00		0.00	0.00	0.00	4.27	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	10-Aug-17 19:00:00		**10.35**	**18.92**	**83.84**	**88.09**
10-Aug-17 20:00:00	10-Aug-17 21:00:00		0.00	0.00	0.00	4.40	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	10-Aug-17 20:00:00		**10.35**	**18.92**	**83.84**	**88.13**
10-Aug-17 21:00:00	10-Aug-17 22:00:00		0.00	0.00	0.00	4.54	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	10-Aug-17 21:00:00		**10.35**	**18.92**	**83.84**	**88.18**
10-Aug-17 22:00:00	10-Aug-17 23:00:00		0.68	0.00	0.00	4.68	2.1	329.7		0.22	0.00	0.00	1.54		10.35	18.92	83.84	86.68	10-Aug-17 22:00:00		**10.57**	**18.92**	**83.84**	**88.22**
10-Aug-17 23:00:00	11-Aug-17 00:00:00		4.30	0.00	0.00	4.75	2.1	329.7		1.42	0.00	0.00	1.57		10.35	18.92	83.84	86.68	10-Aug-17 23:00:00		**11.77**	**18.92**	**83.84**	**88.25**
11-Aug-17 00:00:00	11-Aug-17 01:00:00		1.49	0.00	0.00	100.77	2.1	329.7		0.49	0.00	0.00	33.22		10.35	18.92	83.84	86.68	11-Aug-17 00:00:00		**10.84**	**18.92**	**83.84**	**119.90**
11-Aug-17 01:00:00	11-Aug-17 02:00:00		4.92	0.00	0.00	4.85	2.1	329.7		1.62	0.00	0.00	1.60		10.35	18.92	83.84	86.68	11-Aug-17 01:00:00		**11.97**	**18.92**	**83.84**	**88.28**
11-Aug-17 02:00:00	11-Aug-17 03:00:00		35.59	0.00	0.00	4.97	2.1	329.7		11.73	0.00	0.00	1.64		10.35	18.92	83.84	86.68	11-Aug-17 02:00:00		**22.08**	**18.92**	**83.84**	**88.32**
11-Aug-17 03:00:00	11-Aug-17 04:00:00		40.39	0.00	0.00	5.10	2.1	329.7		13.32	0.00	0.00	1.68		10.35	18.92	83.84	86.68	11-Aug-17 03:00:00		**23.67**	**18.92**	**83.84**	**88.36**
11-Aug-17 04:00:00	11-Aug-17 05:00:00		14.34	0.00	0.00	5.21	2.1	329.7		4.73	0.00	0.00	1.72		10.35	18.92	83.84	86.68	11-Aug-17 04:00:00		**15.08**	**18.92**	**83.84**	**88.40**
11-Aug-17 05:00:00	11-Aug-17 06:00:00		11.02	0.00	0.00	5.20	2.1	329.7		3.63	0.00	0.00	1.71		10.35	18.92	83.84	86.68	11-Aug-17 05:00:00		**13.98**	**18.92**	**83.84**	**88.39**
11-Aug-17 06:00:00	11-Aug-17 07:00:00		8.49	0.00	0.00	5.17	2.1	329.7		2.80	0.00	0.00	1.71		10.35	18.92	83.84	86.68	11-Aug-17 06:00:00		**13.15**	**18.92**	**83.84**	**88.39**
11-Aug-17 07:00:00	11-Aug-17 08:00:00		9.86	0.00	0.00	5.15	2.1	329.7		3.25	0.00	0.00	1.70		10.35	18.92	83.84	86.68	11-Aug-17 07:00:00		**13.60**	**18.92**	**83.84**	**88.38**
11-Aug-17 08:00:00	11-Aug-17 09:00:00		9.73	0.00	0.00	4.99	2.1	329.7		3.21	0.00	0.00	1.64		10.35	18.92	83.84	86.68	11-Aug-17 08:00:00		**13.56**	**18.92**	**83.84**	**88.32**
11-Aug-17 09:00:00	11-Aug-17 10:00:00		9.60	0.00	0.00	4.70	2.1	329.7		3.17	0.00	0.00	1.55		10.35	18.92	83.84	86.68	11-Aug-17 09:00:00		**13.52**	**18.92**	**83.84**	**88.23**
11-Aug-17 10:00:00	11-Aug-17 11:00:00		10.37	0.00	0.00	4.46	2.1	329.7		3.42	0.00	0.00	1.47		10.35	18.92	83.84	86.68	11-Aug-17 10:00:00		**13.77**	**18.92**	**83.84**	**88.15**
11-Aug-17 11:00:00	11-Aug-17 12:00:00		23.89	0.00	0.00	4.22	2.1	329.7		7.88	0.00	0.00	1.39		10.35	18.92	83.84	86.68	11-Aug-17 11:00:00		**18.23**	**18.92**	**83.84**	**88.07**
11-Aug-17 12:00:00	11-Aug-17 13:00:00		378.96	0.00	0.00	4.14	2.1	329.7		124.94	0.00	0.00	1.36		10.35	18.92	83.84	86.68	11-Aug-17 12:00:00		**135.29**	**18.92**	**83.84**	**88.04**
11-Aug-17 13:00:00	11-Aug-17 14:00:00		812.29	0.00	0.00	4.19	2.1	329.7		267.81	0.00	0.00	1.38		10.35	18.92	83.84	86.68	11-Aug-17 13:00:00		**278.16**	**18.92**	**83.84**	**88.06**
11-Aug-17 14:00:00	11-Aug-17 15:00:00		747.15	0.00	0.00	4.17	2.1	329.7		246.33	0.00	0.00	1.37		10.35	18.92	83.84	86.68	11-Aug-17 14:00:00		**256.68**	**18.92**	**83.84**	**88.05**
11-Aug-17 15:00:00	11-Aug-17 16:00:00		753.34	0.00	0.00	4.15	2.1	329.7		248.38	0.00	0.00	1.37		10.35	18.92	83.84	86.68	11-Aug-17 15:00:00		**258.73**	**18.92**	**83.84**	**88.05**
11-Aug-17 16:00:00	11-Aug-17 17:00:00		804.34	0.00	0.00	4.25	2.1	329.7		265.19	0.00	0.00	1.40		10.35	18.92	83.84	86.68	11-Aug-17 16:00:00		**275.54**	**18.92**	**83.84**	**88.08**
11-Aug-17 17:00:00	11-Aug-17 18:00:00		808.55	0.00	0.00	4.30	2.1	329.7		266.58	0.00	0.00	1.42		10.35	18.92	83.84	86.68	11-Aug-17 17:00:00		**276.93**	**18.92**	**83.84**	**88.10**
11-Aug-17 18:00:00	11-Aug-17 19:00:00		851.46	0.00	0.00	4.27	2.1	329.7		280.72	0.00	0.00	1.41		10.35	18.92	83.84	86.68	11-Aug-17 18:00:00		**291.07**	**18.92**	**83.84**	**88.09**
11-Aug-17 19:00:00	11-Aug-17 20:00:00		690.99	0.00	0.00	4.24	2.1	329.7		227.82	0.00	0.00	1.40		10.35	18.92	83.84	86.68	11-Aug-17 19:00:00		**238.17**	**18.92**	**83.84**	**88.08**
11-Aug-17 20:00:00	11-Aug-17 21:00:00		259.60	0.00	0.00	4.27	2.1	329.7		85.59	0.00	0.00	1.41		10.35	18.92	83.84	86.68	11-Aug-17 20:00:00		**95.94**	**18.92**	**83.84**	**88.09**
11-Aug-17 21:00:00	11-Aug-17 22:00:00		15.57	0.00	0.00	4.56	2.1	329.7		5.13	0.00	0.00	1.50		10.35	18.92	83.84	86.68	11-Aug-17 21:00:00		**15.48**	**18.92**	**83.84**	**88.18**
11-Aug-17 22:00:00	11-Aug-17 23:00:00		16.14	0.00	0.00	4.87	2.1	329.7		5.32	0.00	0.00	1.61		10.35	18.92	83.84	86.68	11-Aug-17 22:00:00		**15.67**	**18.92**	**83.84**	**88.29**
11-Aug-17 23:00:00	12-Aug-17 00:00:00		1.63	0.00	0.00	5.19	2.1	329.7		0.54	0.00	0.00	1.71		10.35	18.92	83.84	86.68	11-Aug-17 23:00:00		**10.89**	**18.92**	**83.84**	**88.39**
12-Aug-17 00:00:00	12-Aug-17 01:00:00		12.36	0.00	0.00	5.48	2.1	329.7		4.07	0.00	0.00	1.81		10.35	18.92	83.84	86.68	12-Aug-17 00:00:00		**14.42**	**18.92**	**83.84**	**88.49**
12-Aug-17 01:00:00	12-Aug-17 02:00:00		16.47	0.00	0.00	5.40	2.1	329.7		5.43	0.00	0.00	1.78		10.35	18.92	83.84	86.68	12-Aug-17 01:00:00		**15.78**	**18.92**	**83.84**	**88.46**
12-Aug-17 02:00:00	12-Aug-17 03:00:00		0.00	0.00	0.00	5.24	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	12-Aug-17 02:00:00		**10.35**	**18.92**	**83.84**	**88.41**
12-Aug-17 03:00:00	12-Aug-17 04:00:00		0.00	0.00	0.00	5.09	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	12-Aug-17 03:00:00		**10.35**	**18.92**	**83.84**	**88.36**
12-Aug-17 04:00:00	12-Aug-17 05:00:00		0.00	0.00	0.00	5.08	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	12-Aug-17 04:00:00		**10.35**	**18.92**	**83.84**	**88.35**
12-Aug-17 05:00:00	12-Aug-17 06:00:00		0.00	0.00	0.00	4.98	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	12-Aug-17 05:00:00		**10.35**	**18.92**	**83.84**	**88.32**
12-Aug-17 06:00:00	12-Aug-17 07:00:00		0.00	0.00	0.00	4.77	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	12-Aug-17 06:00:00		**10.35**	**18.92**	**83.84**	**88.25**
12-Aug-17 07:00:00	12-Aug-17 08:00:00		0.00	0.00	0.00	4.56	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	12-Aug-17 07:00:00		**10.35**	**18.92**	**83.84**	**88.18**
12-Aug-17 08:00:00	12-Aug-17 09:00:00		5.57	0.00	0.00	4.42	2.1	329.7		1.84	0.00	0.00	1.46		10.35	18.92	83.84	86.68	12-Aug-17 08:00:00		**12.19**	**18.92**	**83.84**	**88.14**
12-Aug-17 09:00:00	12-Aug-17 10:00:00		0.58	0.00	0.00	4.35	2.1	329.7		0.19	0.00	0.00	1.44		10.35	18.92	83.84	86.68	12-Aug-17 09:00:00		**10.54**	**18.92**	**83.84**	**88.12**
12-Aug-17 10:00:00	12-Aug-17 11:00:00		1.14	0.00	0.00	4.26	2.1	329.7		0.38	0.00	0.00	1.40		10.35	18.92	83.84	86.68	12-Aug-17 10:00:00		**10.73**	**18.92**	**83.84**	**88.08**
12-Aug-17 11:00:00	12-Aug-17 12:00:00		1.71	0.00	0.00	4.17	2.1	329.7		0.56	0.00	0.00	1.37		10.35	18.92	83.84	86.68	12-Aug-17 11:00:00		**10.91**	**18.92**	**83.84**	**88.05**
12-Aug-17 12:00:00	12-Aug-17 13:00:00		4.90	0.00	0.00	4.08	2.1	329.7		1.61	0.00	0.00	1.34		10.35	18.92	83.84	86.68	12-Aug-17 12:00:00		**11.96**	**18.92**	**83.84**	**88.02**
12-Aug-17 13:00:00	12-Aug-17 14:00:00		2.14	0.00	0.00	4.00	2.1	329.7		0.70	0.00	0.00	1.32		10.35	18.92	83.84	86.68	12-Aug-17 13:00:00		**11.05**	**18.92**	**83.84**	**88.00**
12-Aug-17 14:00:00	12-Aug-17 15:00:00		0.68	0.00	0.00	3.93	2.1	329.7		0.22	0.00	0.00	1.30		10.35	18.92	83.84	86.68	12-Aug-17 14:00:00		**10.57**	**18.92**	**83.84**	**87.98**
12-Aug-17 15:00:00	12-Aug-17 16:00:00		0.00	0.00	0.00	467.84	2.1	329.7		0.00	0.00	0.00	154.25		10.35	18.92	83.84	86.68	12-Aug-17 15:00:00		**10.35**	**18.92**	**83.84**	**240.93**
12-Aug-17 16:00:00	12-Aug-17 17:00:00		109.63	0.00	0.00	445.65	2.1	329.7		36.15	0.00	0.00	146.93		10.35	18.92	83.84	86.68	12-Aug-17 16:00:00		**46.50**	**18.92**	**83.84**	**233.61**
12-Aug-17 17:00:00	12-Aug-17 18:00:00		378.84	0.00	0.00	371.27	2.1	329.7		124.90	0.00	0.00	122.41		10.35	18.92	83.84	86.68	12-Aug-17 17:00:00		**135.25**	**18.92**	**83.84**	**209.09**
12-Aug-17 18:00:00	12-Aug-17 19:00:00		238.88	0.00	0.00	571.05	2.1	329.7		78.76	0.00	0.00	188.27		10.35	18.92	83.84	86.68	12-Aug-17 18:00:00		**89.11**	**18.92**	**83.84**	**274.95**
12-Aug-17 19:00:00	12-Aug-17 20:00:00		0.00	0.00	0.00	839.73	2.1	329.7		0.00	0.00	0.00	276.86		10.35	18.92	83.84	86.68	12-Aug-17 19:00:00		**10.35**	**18.92**	**83.84**	**363.54**
12-Aug-17 20:00:00	12-Aug-17 21:00:00		0.00	0.00	0.00	836.87	2.1	329.7		0.00	0.00	0.00	275.92		10.35	18.92	83.84	86.68	12-Aug-17 20:00:00		**10.35**	**18.92**	**83.84**	**362.60**
12-Aug-17 21:00:00	12-Aug-17 22:00:00		0.00	0.00	0.00	833.70	2.1	329.7		0.00	0.00	0.00	274.87		10.35	18.92	83.84	86.68	12-Aug-17 21:00:00		**10.35**	**18.92**	**83.84**	**361.55**
12-Aug-17 22:00:00	12-Aug-17 23:00:00		0.00	0.00	0.00	835.09	2.1	329.7		0.00	0.00	0.00	275.33		10.35	18.92	83.84	86.68	12-Aug-17 22:00:00		**10.35**	**18.92**	**83.84**	**362.01**
12-Aug-17 23:00:00	13-Aug-17 00:00:00		0.00	0.00	0.00	829.49	2.1	329.7		0.00	0.00	0.00	273.48		10.35	18.92	83.84	86.68	12-Aug-17 23:00:00		**10.35**	**18.92**	**83.84**	**360.16**
13-Aug-17 00:00:00	13-Aug-17 01:00:00		0.00	0.00	0.00	826.85	2.1	329.7		0.00	0.00	0.00	272.61		10.35	18.92	83.84	86.68	13-Aug-17 00:00:00		**10.35**	**18.92**	**83.84**	**359.29**
13-Aug-17 01:00:00	13-Aug-17 02:00:00		0.00	0.00	0.00	824.49	2.1	329.7		0.00	0.00	0.00	271.83		10.35	18.92	83.84	86.68	13-Aug-17 01:00:00		**10.35**	**18.92**	**83.84**	**358.51**
13-Aug-17 02:00:00	13-Aug-17 03:00:00		0.18	0.00	0.00	826.21	2.1	329.7		0.06	0.00	0.00	272.40		10.35	18.92	83.84	86.68	13-Aug-17 02:00:00		**10.41**	**18.92**	**83.84**	**359.08**
13-Aug-17 03:00:00	13-Aug-17 04:00:00		4.45	0.00	0.00	829.81	2.1	329.7		1.47	0.00	0.00	273.59		10.35	18.92	83.84	86.68	13-Aug-17 03:00:00		**11.82**	**18.92**	**83.84**	**360.27**
13-Aug-17 04:00:00	13-Aug-17 05:00:00		0.00	0.00	0.00	827.87	2.1	329.7		0.00	0.00	0.00	272.95		10.35	18.92	83.84	86.68	13-Aug-17 04:00:00		**10.35**	**18.92**	**83.84**	**359.63**
13-Aug-17 05:00:00	13-Aug-17 06:00:00		0.00	0.00	0.00	826.59	2.1	329.7		0.00	0.00	0.00	272.53		10.35	18.92	83.84	86.68	13-Aug-17 05:00:00		**10.35**	**18.92**	**83.84**	**359.21**
13-Aug-17 06:00:00	13-Aug-17 07:00:00		0.43	0.00	0.00	827.01	2.1	329.7		0.14	0.00	0.00	272.66		10.35	18.92	83.84	86.68	13-Aug-17 06:00:00		**10.49**	**18.92**	**83.84**	**359.34**
13-Aug-17 07:00:00	13-Aug-17 08:00:00		0.00	0.00	0.00	827.66	2.1	329.7		0.00	0.00	0.00	272.88		10.35	18.92	83.84	86.68	13-Aug-17 07:00:00		**10.35**	**18.92**	**83.84**	**359.56**
13-Aug-17 08:00:00	13-Aug-17 09:00:00		0.00	0.00	0.00	828.03	2.1	329.7		0.00	0.00	0.00	273.00		10.35	18.92	83.84	86.68	13-Aug-17 08:00:00		**10.35**	**18.92**	**83.84**	**359.68**
13-Aug-17 09:00:00	13-Aug-17 10:00:00		0.00	0.00	0.00	829.29

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
15-Aug-17 11:00:00	15-Aug-17 12:00:00		0.07	0.00	0.00	4.87	2.1	329.7		0.02	0.00	0.00	1.60		10.35	18.92	83.84	86.68	15-Aug-17 11:00:00		**10.37**	**18.92**	**83.84**	**88.28**
15-Aug-17 12:00:00	15-Aug-17 13:00:00		1.79	0.00	0.00	4.72	2.1	329.7		0.59	0.00	0.00	1.56		10.35	18.92	83.84	86.68	15-Aug-17 12:00:00		**10.94**	**18.92**	**83.84**	**88.24**
15-Aug-17 13:00:00	15-Aug-17 14:00:00		0.00	0.00	0.00	4.54	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	15-Aug-17 13:00:00		**10.35**	**18.92**	**83.84**	**88.18**
15-Aug-17 14:00:00	15-Aug-17 15:00:00		0.00	0.00	0.00	4.33	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	15-Aug-17 14:00:00		**10.35**	**18.92**	**83.84**	**88.11**
15-Aug-17 15:00:00	15-Aug-17 16:00:00		0.00	0.00	0.00	12.50	2.1	329.7		0.00	0.00	0.00	4.12		10.35	18.92	83.84	86.68	15-Aug-17 15:00:00		**10.35**	**18.92**	**83.84**	**90.80**
15-Aug-17 16:00:00	15-Aug-17 17:00:00		0.07	0.00	0.00	4.11	2.1	329.7		0.02	0.00	0.00	1.36		10.35	18.92	83.84	86.68	15-Aug-17 16:00:00		**10.37**	**18.92**	**83.84**	**88.04**
15-Aug-17 17:00:00	15-Aug-17 18:00:00		0.00	0.00	0.00	4.12	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	15-Aug-17 17:00:00		**10.35**	**18.92**	**83.84**	**88.04**
15-Aug-17 18:00:00	15-Aug-17 19:00:00		0.00	0.00	0.00	33.20	2.1	329.7		0.00	0.00	0.00	10.95		10.35	18.92	83.84	86.68	15-Aug-17 18:00:00		**10.35**	**18.92**	**83.84**	**97.63**
15-Aug-17 19:00:00	15-Aug-17 20:00:00		0.00	0.00	0.00	4.24	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	15-Aug-17 19:00:00		**10.35**	**18.92**	**83.84**	**88.08**
15-Aug-17 20:00:00	15-Aug-17 21:00:00		0.07	0.00	0.00	4.37	2.1	329.7		0.02	0.00	0.00	1.44		10.35	18.92	83.84	86.68	15-Aug-17 20:00:00		**10.37**	**18.92**	**83.84**	**88.12**
15-Aug-17 21:00:00	15-Aug-17 22:00:00		0.39	0.00	0.00	4.50	2.1	329.7		0.13	0.00	0.00	1.48		10.35	18.92	83.84	86.68	15-Aug-17 21:00:00		**10.48**	**18.92**	**83.84**	**88.16**
15-Aug-17 22:00:00	15-Aug-17 23:00:00		0.73	0.00	0.00	4.64	2.1	329.7		0.24	0.00	0.00	1.53		10.35	18.92	83.84	86.68	15-Aug-17 22:00:00		**10.59**	**18.92**	**83.84**	**88.21**
15-Aug-17 23:00:00	16-Aug-17 00:00:00		1.66	0.00	0.00	4.71	2.1	329.7		0.55	0.00	0.00	1.55		10.35	18.92	83.84	86.68	15-Aug-17 23:00:00		**10.90**	**18.92**	**83.84**	**88.23**
16-Aug-17 00:00:00	16-Aug-17 01:00:00		4.61	0.00	0.00	4.76	2.1	329.7		1.52	0.00	0.00	1.57		10.35	18.92	83.84	86.68	16-Aug-17 00:00:00		**11.87**	**18.92**	**83.84**	**88.25**
16-Aug-17 01:00:00	16-Aug-17 02:00:00		13.87	0.00	0.00	4.82	2.1	329.7		4.57	0.00	0.00	1.59		10.35	18.92	83.84	86.68	16-Aug-17 01:00:00		**14.92**	**18.92**	**83.84**	**88.27**
16-Aug-17 02:00:00	16-Aug-17 03:00:00		10.52	0.00	0.00	4.78	2.1	329.7		3.47	0.00	0.00	1.58		10.35	18.92	83.84	86.68	16-Aug-17 02:00:00		**13.82**	**18.92**	**83.84**	**88.26**
16-Aug-17 03:00:00	16-Aug-17 04:00:00		11.36	0.00	0.00	4.76	2.1	329.7		3.74	0.00	0.00	1.57		10.35	18.92	83.84	86.68	16-Aug-17 03:00:00		**14.09**	**18.92**	**83.84**	**88.25**
16-Aug-17 04:00:00	16-Aug-17 05:00:00		12.45	0.00	0.00	4.78	2.1	329.7		4.10	0.00	0.00	1.58		10.35	18.92	83.84	86.68	16-Aug-17 04:00:00		**14.45**	**18.92**	**83.84**	**88.26**
16-Aug-17 05:00:00	16-Aug-17 06:00:00		12.08	0.00	0.00	4.80	2.1	329.7		3.98	0.00	0.00	1.58		10.35	18.92	83.84	86.68	16-Aug-17 05:00:00		**14.33**	**18.92**	**83.84**	**88.26**
16-Aug-17 06:00:00	16-Aug-17 07:00:00		0.00	0.00	0.00	4.89	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	16-Aug-17 06:00:00		**10.35**	**18.92**	**83.84**	**88.29**
16-Aug-17 07:00:00	16-Aug-17 08:00:00		0.00	0.00	0.00	4.81	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	16-Aug-17 07:00:00		**10.35**	**18.92**	**83.84**	**88.27**
16-Aug-17 08:00:00	16-Aug-17 09:00:00		0.00	0.00	0.00	4.67	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	16-Aug-17 08:00:00		**10.35**	**18.92**	**83.84**	**88.22**
16-Aug-17 09:00:00	16-Aug-17 10:00:00		0.00	0.00	0.00	4.53	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	16-Aug-17 09:00:00		**10.35**	**18.92**	**83.84**	**88.17**
16-Aug-17 10:00:00	16-Aug-17 11:00:00		338.39	0.00	0.00	4.36	2.1	329.7		111.57	0.00	0.00	1.44		10.35	18.92	83.84	86.68	16-Aug-17 10:00:00		**121.92**	**18.92**	**83.84**	**88.12**
16-Aug-17 11:00:00	16-Aug-17 12:00:00		642.92	0.00	0.00	4.16	2.1	329.7		211.97	0.00	0.00	1.37		10.35	18.92	83.84	86.68	16-Aug-17 11:00:00		**222.32**	**18.92**	**83.84**	**88.05**
16-Aug-17 12:00:00	16-Aug-17 13:00:00		3.66	0.00	0.00	3.98	2.1	329.7		1.21	0.00	0.00	1.31		10.35	18.92	83.84	86.68	16-Aug-17 12:00:00		**11.56**	**18.92**	**83.84**	**87.99**
16-Aug-17 13:00:00	16-Aug-17 14:00:00		0.00	0.00	0.00	3.80	2.1	329.7		0.00	0.00	0.00	1.25		10.35	18.92	83.84	86.68	16-Aug-17 13:00:00		**10.35**	**18.92**	**83.84**	**87.93**
16-Aug-17 14:00:00	16-Aug-17 15:00:00		0.00	0.00	0.00	3.68	2.1	329.7		0.00	0.00	0.00	1.21		10.35	18.92	83.84	86.68	16-Aug-17 14:00:00		**10.35**	**18.92**	**83.84**	**87.89**
16-Aug-17 15:00:00	16-Aug-17 16:00:00		0.00	0.00	0.00	3.65	2.1	329.7		0.00	0.00	0.00	1.20		10.35	18.92	83.84	86.68	16-Aug-17 15:00:00		**10.35**	**18.92**	**83.84**	**87.88**
16-Aug-17 16:00:00	16-Aug-17 17:00:00		0.00	0.00	0.00	3.62	2.1	329.7		0.00	0.00	0.00	1.19		10.35	18.92	83.84	86.68	16-Aug-17 16:00:00		**10.35**	**18.92**	**83.84**	**87.87**
16-Aug-17 17:00:00	16-Aug-17 18:00:00		0.00	0.00	0.00	3.58	2.1	329.7		0.00	0.00	0.00	1.18		10.35	18.92	83.84	86.68	16-Aug-17 17:00:00		**10.35**	**18.92**	**83.84**	**87.86**
16-Aug-17 18:00:00	16-Aug-17 19:00:00		0.00	0.00	0.00	3.56	2.1	329.7		0.00	0.00	0.00	1.17		10.35	18.92	83.84	86.68	16-Aug-17 18:00:00		**10.35**	**18.92**	**83.84**	**87.85**
16-Aug-17 19:00:00	16-Aug-17 20:00:00		0.00	0.00	0.00	3.70	2.1	329.7		0.00	0.00	0.00	1.22		10.35	18.92	83.84	86.68	16-Aug-17 19:00:00		**10.35**	**18.92**	**83.84**	**87.90**
16-Aug-17 20:00:00	16-Aug-17 21:00:00		0.00	0.00	0.00	3.86	2.1	329.7		0.00	0.00	0.00	1.27		10.35	18.92	83.84	86.68	16-Aug-17 20:00:00		**10.35**	**18.92**	**83.84**	**87.95**
16-Aug-17 21:00:00	16-Aug-17 22:00:00		0.00	0.00	0.00	4.03	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	16-Aug-17 21:00:00		**10.35**	**18.92**	**83.84**	**88.01**
16-Aug-17 22:00:00	16-Aug-17 23:00:00		0.00	0.00	0.00	4.28	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	16-Aug-17 22:00:00		**10.35**	**18.92**	**83.84**	**88.09**
16-Aug-17 23:00:00	17-Aug-17 00:00:00		0.00	0.00	0.00	4.48	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	16-Aug-17 23:00:00		**10.35**	**18.92**	**83.84**	**88.16**
17-Aug-17 00:00:00	17-Aug-17 01:00:00		0.00	0.00	0.00	4.64	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	17-Aug-17 00:00:00		**10.35**	**18.92**	**83.84**	**88.21**
17-Aug-17 01:00:00	17-Aug-17 02:00:00		0.00	0.00	0.00	4.79	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	17-Aug-17 01:00:00		**10.35**	**18.92**	**83.84**	**88.26**
17-Aug-17 02:00:00	17-Aug-17 03:00:00		0.00	0.00	0.00	4.84	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	17-Aug-17 02:00:00		**10.35**	**18.92**	**83.84**	**88.28**
17-Aug-17 03:00:00	17-Aug-17 04:00:00		0.00	0.00	0.00	4.90	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	17-Aug-17 03:00:00		**10.35**	**18.92**	**83.84**	**88.29**
17-Aug-17 04:00:00	17-Aug-17 05:00:00		0.00	0.00	0.00	5.01	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	17-Aug-17 04:00:00		**10.35**	**18.92**	**83.84**	**88.33**
17-Aug-17 05:00:00	17-Aug-17 06:00:00		0.00	0.00	0.00	5.12	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	17-Aug-17 05:00:00		**10.35**	**18.92**	**83.84**	**88.37**
17-Aug-17 06:00:00	17-Aug-17 07:00:00		23.08	0.00	0.00	5.17	2.1	329.7		7.61	0.00	0.00	1.71		10.35	18.92	83.84	86.68	17-Aug-17 06:00:00		**17.96**	**18.92**	**83.84**	**88.39**
17-Aug-17 07:00:00	17-Aug-17 08:00:00		3.31	0.00	0.00	5.01	2.1	329.7		1.09	0.00	0.00	1.65		10.35	18.92	83.84	86.68	17-Aug-17 07:00:00		**11.44**	**18.92**	**83.84**	**88.33**
17-Aug-17 08:00:00	17-Aug-17 09:00:00		1.95	0.00	0.00	4.83	2.1	329.7		0.64	0.00	0.00	1.59		10.35	18.92	83.84	86.68	17-Aug-17 08:00:00		**10.99**	**18.92**	**83.84**	**88.27**
17-Aug-17 09:00:00	17-Aug-17 10:00:00		1.29	0.00	0.00	4.65	2.1	329.7		0.43	0.00	0.00	1.53		10.35	18.92	83.84	86.68	17-Aug-17 09:00:00		**10.78**	**18.92**	**83.84**	**88.21**
17-Aug-17 10:00:00	17-Aug-17 11:00:00		0.67	0.00	0.00	4.44	2.1	329.7		0.22	0.00	0.00	1.46		10.35	18.92	83.84	86.68	17-Aug-17 10:00:00		**10.57**	**18.92**	**83.84**	**88.14**
17-Aug-17 11:00:00	17-Aug-17 12:00:00		0.00	0.00	0.00	4.33	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	17-Aug-17 11:00:00		**10.35**	**18.92**	**83.84**	**88.11**
17-Aug-17 12:00:00	17-Aug-17 13:00:00		0.00	0.00	0.00	4.26	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	17-Aug-17 12:00:00		**10.35**	**18.92**	**83.84**	**88.09**
17-Aug-17 13:00:00	17-Aug-17 14:00:00		0.00	0.00	0.00	4.20	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	17-Aug-17 13:00:00		**10.35**	**18.92**	**83.84**	**88.06**
17-Aug-17 14:00:00	17-Aug-17 15:00:00		0.00	0.00	0.00	4.11	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	17-Aug-17 14:00:00		**10.35**	**18.92**	**83.84**	**88.04**
17-Aug-17 15:00:00	17-Aug-17 16:00:00		0.00	0.00	0.00	3.95	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	17-Aug-17 15:00:00		**10.35**	**18.92**	**83.84**	**87.98**
17-Aug-17 16:00:00	17-Aug-17 17:00:00		0.00	0.00	0.00	3.79	2.1	329.7		0.00	0.00	0.00	1.25		10.35	18.92	83.84	86.68	17-Aug-17 16:00:00		**10.35**	**18.92**	**83.84**	**87.93**
17-Aug-17 17:00:00	17-Aug-17 18:00:00		0.00	0.00	0.00	22.26	2.1	329.7		0.00	0.00	0.00	7.34		10.35	18.92	83.84	86.68	17-Aug-17 17:00:00		**10.35**	**18.92**	**83.84**	**94.02**
17-Aug-17 18:00:00	17-Aug-17 19:00:00		0.00	0.00	0.00	3.81	2.1	329.7		0.00	0.00	0.00	1.25		10.35	18.92	83.84	86.68	17-Aug-17 18:00:00		**10.35**	**18.92**	**83.84**	**87.93**
17-Aug-17 19:00:00	17-Aug-17 20:00:00		0.00	0.00	0.00	3.99	2.1	329.7		0.00	0.00	0.00	1.32		10.35	18.92	83.84	86.68	17-Aug-17 19:00:00		**10.35**	**18.92**	**83.84**	**88.00**
17-Aug-17 20:00:00	17-Aug-17 21:00:00		0.00	0.00	0.00	4.18	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	17-Aug-17 20:00:00		**10.35**	**18.92**	**83.84**	**88.06**
17-Aug-17 21:00:00	17-Aug-17 22:00:00		0.00	0.00	0.00	4.33	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	17-Aug-17 21:00:00		**10.35**	**18.92**	**83.84**	**88.11**
17-Aug-17 22:00:00	17-Aug-17 23:00:00		0.00	0.00	0.00	4.40	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	17-Aug-17 22:00:00		**10.35**	**18.92**	**83.84**	**88.13**
17-Aug-17 23:00:00	18-Aug-17 00:00:00		0.00	0.00	0.00	4.51	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	17-Aug-17 23:00:00		**10.35**	**18.92**	**83.84**	**88.17**
18-Aug-17 00:00:00	18-Aug-17 01:00:00		0.00	0.00	0.00	4.62	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	18-Aug-17 00:00:00		**10.35**	**18.92**	**83.84**	**88.20**
18-Aug-17 01:00:00	18-Aug-17 02:00:00		0.00	0.00	0.00	4.72	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	18-Aug-17 01:00:00		**10.35**	**18.92**	**83.84**	**88.24**
18-Aug-17 02:00:00	18-Aug-17 03:00:00		0.31	0.00	0.00	4.83	2.1	329.7		0.10	0.00	0.00	1.59		10.35	18.92	83.84	86.68	18-Aug-17 02:00:00		**10.45**	**18.92**	**83.84**	**88.27**
18-Aug-17 03:00:00	18-Aug-17 04:00:00		1.41	0.00	0.00	4.95	2.1	329.7		0.46	0.00	0.00	1.63		10.35	18.92	83.84	86.68	18-Aug-17 03:00:00		**10.81**	**18.92**	**83.84**	**88.31**
18-Aug-17 04:00:00	18-Aug-17 05:00:00		7.66	0.00	0.00	5.07	2.1	329.7		2.53	0.00	0.00	1.67		10.35	18.92	83.84	86.68	18-Aug-17 04:00:00		**12.88**	**18.92**	**83.84**	**88.35**
18-Aug-17 05:00:00	18-Aug-17 06:00:00		9.10	0.00	0.00	5.15	2.1	329.7		3.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	18-Aug-17 05:00:00		**13.35**	**18.92**	**83.84**	**88.38**
18-Aug-17 06:00:00	18-Aug-17 07:00:00		7.49	0.00	0.00	5.14	2.1	329.7		2.47	0.00	0.00	1.69		10.35	18.92	83.84	86.68	18-Aug-17 06:00:00		**12.82**	**18.92**	**83.84**	**88.37**
18-Aug-17 07:00:00	18-Aug-17 08:00:00		0.00	0.00	0.00	5.18	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	18-Aug-17 07:00:00		**10.35**	**18.92**	**83.84**	**88.39**
18-Aug-17 08:00:00	18-Aug-17 09:00:00		0.00	0.00	0.00	5.21	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	18-Aug-17 08:00:00		**10.35**	**18.92**	**83.84**	**88.40**
18-Aug-17 09:00:00	18-Aug-17 10:00:00		0.00	0.00	0.00	5.23	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	18-Aug-17 09:00:00		**10.35**	**18.92**	**83.84**	**88.40**
18-Aug-17 10:00:00	18-Aug-17 11:00:00		7.20	0.00	0.00	5.06	2.1	329.7		2.37	0.00	0.00	1.67		10.35	18.92	83.84	86.68	18-Aug-17 10:00:00		**12.72**	**18.92**	**83.84**	**88.35**
18-Aug-17 11:00:00	18-Aug-17 12:00:00		0.17	0.00	0.00	4.85	2.1	329.7		0.06	0.00	0.00	1.60		10.35	18.92	83.84	86.68	18-Aug-17 11:00:00		**10.41**	**18.92**	**83.84**	**88.28**
18-Aug-17 12:00:00	18-Aug-17 13:00:00		0.00	0.00	0.00	14.34	2.1	329.7		0.00	0.00	0.00	4.73		10.35	18.92	83.84	86.68	18-Aug-17 12:00:00		**10.35**	**18.92**	**83.84**	**91.41**
18-Aug-17 13:00:00	18-Aug-17 14:00:00		0.00	0.00	0.00	4.46	2.1	329.7		0.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	18-Aug-17 13:00:00		**10.35**	**18.92**	**83.84**	**88.15**
18-Aug-17 14:00:00	18-Aug-17 15:00:00		0.00	0.00	0.00	4.30	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	18-Aug-17 14:00:00		**10.35**	**18.92**	**83.84**	**88.10**
18-Aug-17 15:00:00	18-Aug-17 16:00:00		0.00	0.00	0.00	4.14	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	18-Aug-17 15:00:00		**10.35**	**18.92**	**83.84**	**88.04**
18-Aug-17 16:00:00	18-Aug-17 17:00:00		0.00	0.00	0.00	4.41	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	18-Aug-17 16:00:00		**10.35**	**18.92**	**83.84**	**88.13**
18-Aug-17 17:00:00	18-Aug-17 18:00:00		0.00	0.00	0.00	4.08	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	18-Aug-17 17:00:00		**10.35**	**18.92**	**83.84**	**88.02**
18-Aug-17 18:00:00	18-Aug-17 19:00:00		0.29	0.00	0.00	4.57	2.1	329.7		0.10	0.00	0.00	1.51		10.35	18.92	83.84	86.68	18-Aug-17 18:00:00		**10.45**	**18.92**	**83.84**	**88.19**
18-Aug-17 19:00:00	18-Aug-17 20:00:00		0.00	0.00	0.00	5.06	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	18-Aug-17 19:00:00		**10.35**	**18.92**	**83.84**	**88.35**
18-Aug-17 20:00:00	18-Aug-17 21:00:00		0.15	0.00	0.00	29.67	2.1	329.7		0.05	0.00	0.00	9.78		10.35	18.92	83.84	86.68	18-Aug-17 20:00:00		**10.40**	**18.92**	**83.84**	**96.46**
18-Aug-17 21:00:00	18-Aug-17 22:00:00		6.31	0.00	0.00	5.10	2.1	329.7		2.08	0.00	0.00	1.68		10.35	18.92	83.84	86.68	18-Aug-17 21:00:00		**12.43**	**18.92**	**83.84**	**88.36**
18-Aug-17 22:00:00	18-Aug-17 23:00:00		11.23	0.00	0.00	4.85	2.1	329.7		3.70	0.00	0.00	1.60		10.35	18.92	83.84	86.68	18-Aug-17 22:00:00		**14.05**	**18.92**	**83.84**	**88.28**
18-Aug-17 23:00:00	19-Aug-17 00:00:00		8.27	0.00	0.00	24.35	2.1	329.7		2.73	0.00	0.00	8.03		10.35	18.92	83.84	86.68	18-Aug-17 23:00:00		**13.08**	**18.92**	**83.84**	**94.71**
19-Aug-17 00:00:00	19-Aug-17 01:00:00		3.39	0.00	0.00	4.69	2.1	329.7		1.12	0.00	0.00	1.55		10.35	18.92	83.84	86.68	19-Aug-17 00:00:00		**11.47**	**18.92**	**83.84**	**88.23**
19-Aug-17 01:00:00	19-Aug-17 02:00:00		0.16	0.00	0.00	4.77	2.1	329.7		0.05	0.00	0.00	1.57		10.35	18.92	83.84	86.68	19-Aug-17 01:00:00		**10.40**	**18.92**	**83.84**	**88.25**
19-Aug-17 02:00:00	19-Aug-17 03:00:00		20.50	0.00	0.00	33.14	2.1	329.7		6.76	0.00	0.00	10.92		10.35	18.92	83.84	86.68	19-Aug-17 02:00:00		**17.11**	**18.92**	**83.84**	**97.60**
19-Aug-17 03:00:00	19-Aug-17 04:00:00		27.15	0.00	0.00	17.02	2.1	329.7		8.95	0.00	0.00	5.61		10.35	18.92	83.84	86.68	19-Aug-17 03:00:00		**19.30**	**18.92**	**83.84**	**92.29**
19-Aug-17 04:00:00	19-Aug-17 05:00:00		14.06	0.00	0.00	5.06	2.1	329.7		4.64	0.00	0.00	1.67		10.35	18.92	83.84	86.68	19-Aug-17 04:00:00		**14.99**	**18.92**	**83.84**	**88.35**
19-Aug-17 05:00:00	19-Aug-17 06:00:00		0.15	0.00	0.00	46.72	2.1	329.7		0.05	0.00	0.00	15.40		10.35	18.92	83.84	86.68	19-Aug-17 05:00:00		**10.40**	**18.92**	**83.84**	**102.08**
19-Aug-17 06:00:00	19-Aug-17 07:00:00		34.60	0.00	0.00	26.80	2.1	329.7		11.41	0.00	0.00	8.83		10.35	18.92	83.84	86.68	19-Aug-17 06:00:00		**21.76**	**18.92**	**83.84**	**95.51**
19-Aug-17 07:00:00	19-Aug-17 08:00:00		13.34	0.00	0.00	5.12	2.1	329.7		4.40	0.00	0.00	1.69		10.35	18.92	83.84	86.68	19-Aug-17 07:00:00		**14.75**	**18.92**	**83.84**	**88.37**
19-Aug-17 08:00:00	19-Aug-17 09:00:00		13.42	0.00	0.00	4.93

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
21-Aug-17 10:00:00	21-Aug-17 11:00:00		1,861.90	0.00	0.00	4.64	2.1	329.7		613.87	0.00	0.00	1.53		10.35	18.92	83.84	86.68	21-Aug-17 10:00:00		624.22	18.92	83.84	88.21
21-Aug-17 11:00:00	21-Aug-17 12:00:00		1,865.08	0.00	0.00	4.45	2.1	329.7		614.92	0.00	0.00	1.47		10.35	18.92	83.84	86.68	21-Aug-17 11:00:00		625.27	18.92	83.84	88.15
21-Aug-17 12:00:00	21-Aug-17 13:00:00		1,849.48	0.00	0.00	4.47	2.1	329.7		609.77	0.00	0.00	1.47		10.35	18.92	83.84	86.68	21-Aug-17 12:00:00		620.12	18.92	83.84	88.15
21-Aug-17 13:00:00	21-Aug-17 14:00:00		1,515.12	0.00	0.00	4.49	2.1	329.7		499.54	0.00	0.00	1.48		10.35	18.92	83.84	86.68	21-Aug-17 13:00:00		509.89	18.92	83.84	88.16
21-Aug-17 14:00:00	21-Aug-17 15:00:00		35.05	0.00	0.00	4.52	2.1	329.7		11.56	0.00	0.00	1.49		10.35	18.92	83.84	86.68	21-Aug-17 14:00:00		21.91	18.92	83.84	88.17
21-Aug-17 15:00:00	21-Aug-17 16:00:00		0.00	0.00	0.00	4.52	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	21-Aug-17 15:00:00		10.35	18.92	83.84	88.17
21-Aug-17 16:00:00	21-Aug-17 17:00:00		0.00	0.00	0.00	4.53	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	21-Aug-17 16:00:00		10.35	18.92	83.84	88.17
21-Aug-17 17:00:00	21-Aug-17 18:00:00		0.00	0.00	0.00	4.54	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	21-Aug-17 17:00:00		10.35	18.92	83.84	88.18
21-Aug-17 18:00:00	21-Aug-17 19:00:00		0.32	0.00	0.00	4.55	2.1	329.7		0.11	0.00	0.00	1.50		10.35	18.92	83.84	86.68	21-Aug-17 18:00:00		10.46	18.92	83.84	88.18
21-Aug-17 19:00:00	21-Aug-17 20:00:00		1.06	0.00	0.00	4.52	2.1	329.7		0.35	0.00	0.00	1.49		10.35	18.92	83.84	86.68	21-Aug-17 19:00:00		10.70	18.92	83.84	88.17
21-Aug-17 20:00:00	21-Aug-17 21:00:00		2.86	0.00	0.00	4.56	2.1	329.7		0.94	0.00	0.00	1.50		10.35	18.92	83.84	86.68	21-Aug-17 20:00:00		11.29	18.92	83.84	88.18
21-Aug-17 21:00:00	21-Aug-17 22:00:00		3.64	0.00	0.00	4.60	2.1	329.7		1.20	0.00	0.00	1.52		10.35	18.92	83.84	86.68	21-Aug-17 21:00:00		11.55	18.92	83.84	88.20
21-Aug-17 22:00:00	21-Aug-17 23:00:00		3.08	0.00	0.00	4.63	2.1	329.7		1.02	0.00	0.00	1.53		10.35	18.92	83.84	86.68	21-Aug-17 22:00:00		11.37	18.92	83.84	88.21
21-Aug-17 23:00:00	22-Aug-17 00:00:00		24.00	0.00	0.00	4.66	2.1	329.7		7.91	0.00	0.00	1.54		10.35	18.92	83.84	86.68	21-Aug-17 23:00:00		18.26	18.92	83.84	88.22
22-Aug-17 00:00:00	22-Aug-17 01:00:00		37.48	0.00	0.00	4.72	2.1	329.7		12.36	0.00	0.00	1.56		10.35	18.92	83.84	86.68	22-Aug-17 00:00:00		22.71	18.92	83.84	88.24
22-Aug-17 01:00:00	22-Aug-17 02:00:00		17.68	0.00	0.00	4.79	2.1	329.7		5.83	0.00	0.00	1.58		10.35	18.92	83.84	86.68	22-Aug-17 01:00:00		16.18	18.92	83.84	88.26
22-Aug-17 02:00:00	22-Aug-17 03:00:00		15.23	0.00	0.00	4.85	2.1	329.7		5.02	0.00	0.00	1.60		10.35	18.92	83.84	86.68	22-Aug-17 02:00:00		15.37	18.92	83.84	88.28
22-Aug-17 03:00:00	22-Aug-17 04:00:00		8.05	0.00	0.00	4.83	2.1	329.7		2.65	0.00	0.00	1.59		10.35	18.92	83.84	86.68	22-Aug-17 03:00:00		13.00	18.92	83.84	88.27
22-Aug-17 04:00:00	22-Aug-17 05:00:00		3.88	0.00	0.00	4.94	2.1	329.7		1.28	0.00	0.00	1.63		10.35	18.92	83.84	86.68	22-Aug-17 04:00:00		11.63	18.92	83.84	88.31
22-Aug-17 05:00:00	22-Aug-17 06:00:00		0.09	0.00	0.00	5.05	2.1	329.7		0.03	0.00	0.00	1.67		10.35	18.92	83.84	86.68	22-Aug-17 05:00:00		10.38	18.92	83.84	88.35
22-Aug-17 06:00:00	22-Aug-17 07:00:00		4.17	0.00	0.00	5.17	2.1	329.7		1.37	0.00	0.00	1.70		10.35	18.92	83.84	86.68	22-Aug-17 06:00:00		11.72	18.92	83.84	88.38
22-Aug-17 07:00:00	22-Aug-17 08:00:00		1.41	0.00	0.00	5.11	2.1	329.7		0.46	0.00	0.00	1.69		10.35	18.92	83.84	86.68	22-Aug-17 07:00:00		10.81	18.92	83.84	88.37
22-Aug-17 08:00:00	22-Aug-17 09:00:00		0.27	0.00	0.00	4.96	2.1	329.7		0.09	0.00	0.00	1.64		10.35	18.92	83.84	86.68	22-Aug-17 08:00:00		10.44	18.92	83.84	88.32
22-Aug-17 09:00:00	22-Aug-17 10:00:00		0.15	0.00	0.00	4.82	2.1	329.7		0.05	0.00	0.00	1.59		10.35	18.92	83.84	86.68	22-Aug-17 09:00:00		10.40	18.92	83.84	88.27
22-Aug-17 10:00:00	22-Aug-17 11:00:00		0.39	0.00	0.00	4.67	2.1	329.7		0.13	0.00	0.00	1.54		10.35	18.92	83.84	86.68	22-Aug-17 10:00:00		10.48	18.92	83.84	88.22
22-Aug-17 11:00:00	22-Aug-17 12:00:00		5.69	0.00	0.00	4.62	2.1	329.7		1.88	0.00	0.00	1.52		10.35	18.92	83.84	86.68	22-Aug-17 11:00:00		12.23	18.92	83.84	88.20
22-Aug-17 12:00:00	22-Aug-17 13:00:00		13.34	0.00	0.00	4.61	2.1	329.7		4.40	0.00	0.00	1.52		10.35	18.92	83.84	86.68	22-Aug-17 12:00:00		14.75	18.92	83.84	88.20
22-Aug-17 13:00:00	22-Aug-17 14:00:00		14.28	0.00	0.00	4.60	2.1	329.7		4.71	0.00	0.00	1.52		10.35	18.92	83.84	86.68	22-Aug-17 13:00:00		15.06	18.92	83.84	88.20
22-Aug-17 14:00:00	22-Aug-17 15:00:00		5.41	0.00	0.00	4.60	2.1	329.7		1.78	0.00	0.00	1.52		10.35	18.92	83.84	86.68	22-Aug-17 14:00:00		12.13	18.92	83.84	88.20
22-Aug-17 15:00:00	22-Aug-17 16:00:00		0.24	0.00	0.00	4.54	2.1	329.7		0.08	0.00	0.00	1.50		10.35	18.92	83.84	86.68	22-Aug-17 15:00:00		10.43	18.92	83.84	88.18
22-Aug-17 16:00:00	22-Aug-17 17:00:00		0.54	0.00	0.00	4.43	2.1	329.7		0.18	0.00	0.00	1.46		10.35	18.92	83.84	86.68	22-Aug-17 16:00:00		10.53	18.92	83.84	88.14
22-Aug-17 17:00:00	22-Aug-17 18:00:00		0.00	0.00	0.00	4.31	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	22-Aug-17 17:00:00		10.35	18.92	83.84	88.10
22-Aug-17 18:00:00	22-Aug-17 19:00:00		0.00	0.00	0.00	4.19	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	22-Aug-17 18:00:00		10.35	18.92	83.84	88.06
22-Aug-17 19:00:00	22-Aug-17 20:00:00		0.00	0.00	0.00	4.15	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	22-Aug-17 19:00:00		10.35	18.92	83.84	88.05
22-Aug-17 20:00:00	22-Aug-17 21:00:00		0.00	0.00	0.00	4.29	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	22-Aug-17 20:00:00		10.35	18.92	83.84	88.09
22-Aug-17 21:00:00	22-Aug-17 22:00:00		0.28	0.00	0.00	4.43	2.1	329.7		0.09	0.00	0.00	1.46		10.35	18.92	83.84	86.68	22-Aug-17 21:00:00		10.44	18.92	83.84	88.14
22-Aug-17 22:00:00	22-Aug-17 23:00:00		0.78	0.00	0.00	4.57	2.1	329.7		0.26	0.00	0.00	1.51		10.35	18.92	83.84	86.68	22-Aug-17 22:00:00		10.61	18.92	83.84	88.19
22-Aug-17 23:00:00	23-Aug-17 00:00:00		1.27	0.00	0.00	4.80	2.1	329.7		0.42	0.00	0.00	1.58		10.35	18.92	83.84	86.68	22-Aug-17 23:00:00		10.77	18.92	83.84	88.26
23-Aug-17 00:00:00	23-Aug-17 01:00:00		1.70	0.00	0.00	4.94	2.1	329.7		0.56	0.00	0.00	1.63		10.35	18.92	83.84	86.68	23-Aug-17 00:00:00		10.91	18.92	83.84	88.31
23-Aug-17 01:00:00	23-Aug-17 02:00:00		1.61	0.00	0.00	5.08	2.1	329.7		0.53	0.00	0.00	1.68		10.35	18.92	83.84	86.68	23-Aug-17 01:00:00		10.88	18.92	83.84	88.36
23-Aug-17 02:00:00	23-Aug-17 03:00:00		2.90	0.00	0.00	5.22	2.1	329.7		0.96	0.00	0.00	1.72		10.35	18.92	83.84	86.68	23-Aug-17 02:00:00		11.31	18.92	83.84	88.40
23-Aug-17 03:00:00	23-Aug-17 04:00:00		2.83	0.00	0.00	5.14	2.1	329.7		0.93	0.00	0.00	1.70		10.35	18.92	83.84	86.68	23-Aug-17 03:00:00		11.28	18.92	83.84	88.38
23-Aug-17 04:00:00	23-Aug-17 05:00:00		7.99	0.00	0.00	5.16	2.1	329.7		2.63	0.00	0.00	1.70		10.35	18.92	83.84	86.68	23-Aug-17 04:00:00		12.98	18.92	83.84	88.38
23-Aug-17 05:00:00	23-Aug-17 06:00:00		12.80	0.00	0.00	5.18	2.1	329.7		4.22	0.00	0.00	1.71		10.35	18.92	83.84	86.68	23-Aug-17 05:00:00		14.57	18.92	83.84	88.39
23-Aug-17 06:00:00	23-Aug-17 07:00:00		10.86	0.00	0.00	5.20	2.1	329.7		3.58	0.00	0.00	1.71		10.35	18.92	83.84	86.68	23-Aug-17 06:00:00		13.93	18.92	83.84	88.39
23-Aug-17 07:00:00	23-Aug-17 08:00:00		13.79	0.00	0.00	5.18	2.1	329.7		4.55	0.00	0.00	1.71		10.35	18.92	83.84	86.68	23-Aug-17 07:00:00		14.90	18.92	83.84	88.39
23-Aug-17 08:00:00	23-Aug-17 09:00:00		2.29	0.00	0.00	5.16	2.1	329.7		0.76	0.00	0.00	1.70		10.35	18.92	83.84	86.68	23-Aug-17 08:00:00		11.11	18.92	83.84	88.38
23-Aug-17 09:00:00	23-Aug-17 10:00:00		1.24	0.00	0.00	5.14	2.1	329.7		0.41	0.00	0.00	1.69		10.35	18.92	83.84	86.68	23-Aug-17 09:00:00		10.76	18.92	83.84	88.37
23-Aug-17 10:00:00	23-Aug-17 11:00:00		2.28	0.00	0.00	5.11	2.1	329.7		0.75	0.00	0.00	1.69		10.35	18.92	83.84	86.68	23-Aug-17 10:00:00		11.10	18.92	83.84	88.37
23-Aug-17 11:00:00	23-Aug-17 12:00:00		15.34	0.00	0.00	4.96	2.1	329.7		5.06	0.00	0.00	1.63		10.35	18.92	83.84	86.68	23-Aug-17 11:00:00		15.41	18.92	83.84	88.31
23-Aug-17 12:00:00	23-Aug-17 13:00:00		6.37	0.00	0.00	4.70	2.1	329.7		2.10	0.00	0.00	1.55		10.35	18.92	83.84	86.68	23-Aug-17 12:00:00		12.45	18.92	83.84	88.23
23-Aug-17 13:00:00	23-Aug-17 14:00:00		5.04	0.00	0.00	4.45	2.1	329.7		1.66	0.00	0.00	1.47		10.35	18.92	83.84	86.68	23-Aug-17 13:00:00		12.01	18.92	83.84	88.15
23-Aug-17 14:00:00	23-Aug-17 15:00:00		0.39	0.00	0.00	4.19	2.1	329.7		0.13	0.00	0.00	1.38		10.35	18.92	83.84	86.68	23-Aug-17 14:00:00		10.48	18.92	83.84	88.06
23-Aug-17 15:00:00	23-Aug-17 16:00:00		0.00	0.00	0.00	4.22	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	23-Aug-17 15:00:00		10.35	18.92	83.84	88.07
23-Aug-17 16:00:00	23-Aug-17 17:00:00		0.00	0.00	0.00	4.50	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	23-Aug-17 16:00:00		10.35	18.92	83.84	88.16
23-Aug-17 17:00:00	23-Aug-17 18:00:00		0.07	0.00	0.00	4.78	2.1	329.7		0.02	0.00	0.00	1.58		10.35	18.92	83.84	86.68	23-Aug-17 17:00:00		10.37	18.92	83.84	88.26
23-Aug-17 18:00:00	23-Aug-17 19:00:00		3.01	0.00	0.00	5.07	2.1	329.7		0.99	0.00	0.00	1.67		10.35	18.92	83.84	86.68	23-Aug-17 18:00:00		11.34	18.92	83.84	88.35
23-Aug-17 19:00:00	23-Aug-17 20:00:00		83.75	0.00	0.00	5.27	2.1	329.7		27.61	0.00	0.00	1.74		10.35	18.92	83.84	86.68	23-Aug-17 19:00:00		37.96	18.92	83.84	88.42
23-Aug-17 20:00:00	23-Aug-17 21:00:00		367.15	0.00	0.00	5.23	2.1	329.7		121.05	0.00	0.00	1.72		10.35	18.92	83.84	86.68	23-Aug-17 20:00:00		131.40	18.92	83.84	88.40
23-Aug-17 21:00:00	23-Aug-17 22:00:00		363.17	0.00	0.00	5.19	2.1	329.7		119.74	0.00	0.00	1.71		10.35	18.92	83.84	86.68	23-Aug-17 21:00:00		130.09	18.92	83.84	88.39
23-Aug-17 22:00:00	23-Aug-17 23:00:00		348.23	0.00	0.00	5.14	2.1	329.7		114.81	0.00	0.00	1.69		10.35	18.92	83.84	86.68	23-Aug-17 22:00:00		125.16	18.92	83.84	88.37
23-Aug-17 23:00:00	24-Aug-17 00:00:00		649.44	0.00	0.00	5.22	2.1	329.7		214.12	0.00	0.00	1.72		10.35	18.92	83.84	86.68	23-Aug-17 23:00:00		224.47	18.92	83.84	88.40
24-Aug-17 00:00:00	24-Aug-17 01:00:00		1,572.44	0.00	0.00	5.54	2.1	329.7		518.43	0.00	0.00	1.83		10.35	18.92	83.84	86.68	24-Aug-17 00:00:00		528.78	18.92	83.84	88.51
24-Aug-17 01:00:00	24-Aug-17 02:00:00		1,527.29	0.00	0.00	5.87	2.1	329.7		503.55	0.00	0.00	1.93		10.35	18.92	83.84	86.68	24-Aug-17 01:00:00		513.90	18.92	83.84	88.61
24-Aug-17 02:00:00	24-Aug-17 03:00:00		1,183.94	0.00	0.00	6.19	2.1	329.7		390.34	0.00	0.00	2.04		10.35	18.92	83.84	86.68	24-Aug-17 02:00:00		400.69	18.92	83.84	88.72
24-Aug-17 03:00:00	24-Aug-17 04:00:00		286.41	0.00	0.00	6.17	2.1	329.7		94.43	0.00	0.00	2.04		10.35	18.92	83.84	86.68	24-Aug-17 03:00:00		104.78	18.92	83.84	88.72
24-Aug-17 04:00:00	24-Aug-17 05:00:00		0.00	0.00	0.00	6.57	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	24-Aug-17 04:00:00		10.35	18.92	83.84	88.85
24-Aug-17 05:00:00	24-Aug-17 06:00:00		0.00	0.00	0.00	5.77	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	24-Aug-17 05:00:00		10.35	18.92	83.84	88.58
24-Aug-17 06:00:00	24-Aug-17 07:00:00		0.00	0.00	0.00	5.77	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	24-Aug-17 06:00:00		10.35	18.92	83.84	88.58
24-Aug-17 07:00:00	24-Aug-17 08:00:00		6.23	0.00	0.00	5.77	2.1	329.7		2.05	0.00	0.00	1.90		10.35	18.92	83.84	86.68	24-Aug-17 07:00:00		12.40	18.92	83.84	88.58
24-Aug-17 08:00:00	24-Aug-17 09:00:00		492.17	0.00	0.00	5.71	2.1	329.7		162.27	0.00	0.00	1.88		10.35	18.92	83.84	86.68	24-Aug-17 08:00:00		172.62	18.92	83.84	88.56
24-Aug-17 09:00:00	24-Aug-17 10:00:00		926.82	0.00	0.00	5.57	2.1	329.7		305.57	0.00	0.00	1.84		10.35	18.92	83.84	86.68	24-Aug-17 09:00:00		315.92	18.92	83.84	88.52
24-Aug-17 10:00:00	24-Aug-17 11:00:00		1,007.50	0.00	0.00	5.44	2.1	329.7		332.17	0.00	0.00	1.79		10.35	18.92	83.84	86.68	24-Aug-17 10:00:00		342.52	18.92	83.84	88.47
24-Aug-17 11:00:00	24-Aug-17 12:00:00		1,006.86	0.00	0.00	5.32	2.1	329.7		331.96	0.00	0.00	1.75		10.35	18.92	83.84	86.68	24-Aug-17 11:00:00		342.31	18.92	83.84	88.43
24-Aug-17 12:00:00	24-Aug-17 13:00:00		1,006.44	0.00	0.00	5.32	2.1	329.7		331.82	0.00	0.00	1.76		10.35	18.92	83.84	86.68	24-Aug-17 12:00:00		342.17	18.92	83.84	88.44
24-Aug-17 13:00:00	24-Aug-17 14:00:00		1,005.65	0.00	0.00	5.22	2.1	329.7		331.56	0.00	0.00	1.72		10.35	18.92	83.84	86.68	24-Aug-17 13:00:00		341.91	18.92	83.84	88.40
24-Aug-17 14:00:00	24-Aug-17 15:00:00		998.23	0.00	0.00	5.05	2.1	329.7		329.12	0.00	0.00	1.67		10.35	18.92	83.84	86.68	24-Aug-17 14:00:00		339.47	18.92	83.84	88.35
24-Aug-17 15:00:00	24-Aug-17 16:00:00		1,015.20	0.00	0.00	4.89	2.1	329.7		334.71	0.00	0.00	1.61		10.35	18.92	83.84	86.68	24-Aug-17 15:00:00		345.06	18.92	83.84	88.29
24-Aug-17 16:00:00	24-Aug-17 17:00:00		1,036.32	0.00	0.00	5.47	2.1	329.7		341.67	0.00	0.00	1.80		10.35	18.92	83.84	86.68	24-Aug-17 16:00:00		352.02	18.92	83.84	88.48
24-Aug-17 17:00:00	24-Aug-17 18:00:00		1,023.37	0.00	0.00	4.70	2.1	329.7		337.40	0.00	0.00	1.55		10.35	18.92	83.84	86.68	24-Aug-17 17:00:00		347.75	18.92	83.84	88.23
24-Aug-17 18:00:00	24-Aug-17 19:00:00		1,400.22	0.00	0.00	4.86	2.1	329.7		461.65	0.00	0.00	1.60		10.35	18.92	83.84	86.68	24-Aug-17 18:00:00		472.00	18.92	83.84	88.28
24-Aug-17 19:00:00	24-Aug-17 20:00:00		1,382.26	0.00	0.00	5.01	2.1	329.7		455.73	0.00	0.00	1.65		10.35	18.92	83.84	86.68	24-Aug-17 19:00:00		466.08	18.92	83.84	88.33
24-Aug-17 20:00:00	24-Aug-17 21:00:00		11.64	0.00	0.00	5.17	2.1	329.7		3.84	0.00	0.00	1.70		10.35	18.92	83.84	86.68	24-Aug-17 20:00:00		14.19	18.92	83.84	88.38
24-Aug-17 21:00:00	24-Aug-17 22:00:00		6.21	0.00	0.00	5.34	2.1	329.7		2.05	0.00	0.00	1.76		10.35	18.92	83.84	86.68	24-Aug-17 21:00:00		12.40	18.92	83.84	88.44
24-Aug-17 22:00:00	24-Aug-17 23:00:00		15.68	0.00	0.00	5.44	2.1	329.7		5.17	0.00	0.00	1.79		10.35	18.92	83.84	86.68	24-Aug-17 22:00:00		15.52	18.92	83.84	88.47
24-Aug-17 23:00:00	25-Aug-17 00:00:00		12.28	0.00	0.00	5.54	2.1	329.7		4.05	0.00	0.00	1.83		10.35	18.92	83.84	86.68	24-Aug-17 23:00:00		14.40	18.92	83.84	88.51
25-Aug-17 00:00:00	25-Aug-17 01:00:00		9.73	0.00	0.00	5.64	2.1	329.7		3.21	0.00	0.00	1.86		10.35	18.92	83.84	86.68	25-Aug-17 00:00:00		13.56	18.92	83.84	88.54
25-Aug-17 01:00:00	25-Aug-17 02:00:00		2.61	0.00	0.00	5.58	2.1	329.7		0.86	0.00	0.00	1.84		10.35	18.92	83.84	86.68	25-Aug-17 01:00:00		11.21	18.92	83.84	88.52
25-Aug-17 02:00:00	25-Aug-17 03:00:00		2.99	0.00	0.00	5.55	2.1	329.7		0.98	0.00	0.00	1.83		10.35	18.92	83.84	86.68	25-Aug-17 02:00:00		11.33	18.92	83.84	88.51
25-Aug-17 03:00:00	25-Aug-17 04:00:00		12.88	0.00	0.00	5.53	2.1	329.7		4.25	0.00	0.00	1.82		10.35	18.92	83.84	86.68	25-Aug-17 03:00:00		14.60	18.92	83.84	88.50
25-Aug-17 04:00:00	25-Aug-17 05:00:00		2.45	0.00	0.00	5.50	2.1	329.7		0.81	0.00	0.00	1.81		10.35	18.92	83.84	86.68	25-Aug-17 04:00:00		11.16	18.92	83.84	88.49
25-Aug-17 05:00:00	25-Aug-17 06:00:00		1.16	0.00	0.00	5.41	2.1	329.7		0.38	0.00	0.00	1.78		10.35	18.92	83.84	86.68	25-Aug-17 05:00:00		10.73	18.92	83.84	88.46
25-Aug-17 06:00:00	25-Aug-17 07:00:00		3.29	0.00	0.00	5.46	2.1	329.7		1.09	0.00	0.00	1.80		10.35	18.92	83.84	86.68	25-Aug-17 06:00:00		11.44	18.92	83.84	88.48
25-Aug-17 07:00:00	25-Aug-17

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
27-Aug-17 09:00:00	27-Aug-17 10:00:00		16.99	0.00	0.00	5.73	2.1	329.7		5.60	0.00	0.00	1.89		10.35	18.92	83.84	86.68	27-Aug-17 09:00:00		15.95	18.92	83.84	88.57
27-Aug-17 10:00:00	27-Aug-17 11:00:00		13.74	0.00	0.00	5.55	2.1	329.7		4.53	0.00	0.00	1.83		10.35	18.92	83.84	86.68	27-Aug-17 10:00:00		14.88	18.92	83.84	88.51
27-Aug-17 11:00:00	27-Aug-17 12:00:00		12.79	0.00	0.00	5.36	2.1	329.7		4.22	0.00	0.00	1.77		10.35	18.92	83.84	86.68	27-Aug-17 11:00:00		14.57	18.92	83.84	88.45
27-Aug-17 12:00:00	27-Aug-17 13:00:00		30.49	0.00	0.00	5.17	2.1	329.7		10.05	0.00	0.00	1.70		10.35	18.92	83.84	86.68	27-Aug-17 12:00:00		20.40	18.92	83.84	88.38
27-Aug-17 13:00:00	27-Aug-17 14:00:00		49.34	0.00	0.00	5.01	2.1	329.7		16.27	0.00	0.00	1.65		10.35	18.92	83.84	86.68	27-Aug-17 13:00:00		26.62	18.92	83.84	88.33
27-Aug-17 14:00:00	27-Aug-17 15:00:00		4.08	0.00	0.00	4.89	2.1	329.7		1.35	0.00	0.00	1.61		10.35	18.92	83.84	86.68	27-Aug-17 14:00:00		11.70	18.92	83.84	88.29
27-Aug-17 15:00:00	27-Aug-17 16:00:00		16.26	0.00	0.00	4.77	2.1	329.7		5.36	0.00	0.00	1.57		10.35	18.92	83.84	86.68	27-Aug-17 15:00:00		15.71	18.92	83.84	88.25
27-Aug-17 16:00:00	27-Aug-17 17:00:00		1.13	0.00	0.00	4.67	2.1	329.7		0.37	0.00	0.00	1.54		10.35	18.92	83.84	86.68	27-Aug-17 16:00:00		10.72	18.92	83.84	88.22
27-Aug-17 17:00:00	27-Aug-17 18:00:00		0.80	0.00	0.00	12.19	2.1	329.7		0.26	0.00	0.00	4.02		10.35	18.92	83.84	86.68	27-Aug-17 17:00:00		10.61	18.92	83.84	90.70
27-Aug-17 18:00:00	27-Aug-17 19:00:00		0.46	0.00	0.00	5.04	2.1	329.7		0.15	0.00	0.00	1.66		10.35	18.92	83.84	86.68	27-Aug-17 18:00:00		10.50	18.92	83.84	88.34
27-Aug-17 19:00:00	27-Aug-17 20:00:00		0.12	0.00	0.00	4.86	2.1	329.7		0.04	0.00	0.00	1.60		10.35	18.92	83.84	86.68	27-Aug-17 19:00:00		10.39	18.92	83.84	88.28
27-Aug-17 20:00:00	27-Aug-17 21:00:00		0.00	0.00	0.00	5.00	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	27-Aug-17 20:00:00		10.35	18.92	83.84	88.33
27-Aug-17 21:00:00	27-Aug-17 22:00:00		0.00	0.00	0.00	5.14	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	27-Aug-17 21:00:00		10.35	18.92	83.84	88.38
27-Aug-17 22:00:00	27-Aug-17 23:00:00		11.05	0.00	0.00	5.28	2.1	329.7		3.64	0.00	0.00	1.74		10.35	18.92	83.84	86.68	27-Aug-17 22:00:00		13.99	18.92	83.84	88.42
27-Aug-17 23:00:00	28-Aug-17 00:00:00		59.81	0.00	0.00	5.42	2.1	329.7		19.72	0.00	0.00	1.79		10.35	18.92	83.84	86.68	27-Aug-17 23:00:00		30.07	18.92	83.84	88.47
28-Aug-17 00:00:00	28-Aug-17 01:00:00		57.31	0.00	0.00	5.55	2.1	329.7		18.90	0.00	0.00	1.83		10.35	18.92	83.84	86.68	28-Aug-17 00:00:00		29.25	18.92	83.84	88.51
28-Aug-17 01:00:00	28-Aug-17 02:00:00		51.05	0.00	0.00	5.68	2.1	329.7		16.83	0.00	0.00	1.87		10.35	18.92	83.84	86.68	28-Aug-17 01:00:00		27.18	18.92	83.84	88.55
28-Aug-17 02:00:00	28-Aug-17 03:00:00		22.92	0.00	0.00	5.69	2.1	329.7		7.56	0.00	0.00	1.88		10.35	18.92	83.84	86.68	28-Aug-17 02:00:00		17.91	18.92	83.84	88.56
28-Aug-17 03:00:00	28-Aug-17 04:00:00		12.55	0.00	0.00	5.81	2.1	329.7		4.14	0.00	0.00	1.91		10.35	18.92	83.84	86.68	28-Aug-17 03:00:00		14.49	18.92	83.84	88.59
28-Aug-17 04:00:00	28-Aug-17 05:00:00		20.61	0.00	0.00	5.93	2.1	329.7		6.79	0.00	0.00	1.95		10.35	18.92	83.84	86.68	28-Aug-17 04:00:00		17.14	18.92	83.84	88.63
28-Aug-17 05:00:00	28-Aug-17 06:00:00		11.46	0.00	0.00	6.04	2.1	329.7		3.78	0.00	0.00	1.99		10.35	18.92	83.84	86.68	28-Aug-17 05:00:00		14.13	18.92	83.84	88.67
28-Aug-17 06:00:00	28-Aug-17 07:00:00		3.65	0.00	0.00	15.24	2.1	329.7		1.20	0.00	0.00	5.02		10.35	18.92	83.84	86.68	28-Aug-17 06:00:00		11.55	18.92	83.84	91.70
28-Aug-17 07:00:00	28-Aug-17 08:00:00		1.96	0.00	0.00	6.02	2.1	329.7		0.64	0.00	0.00	1.99		10.35	18.92	83.84	86.68	28-Aug-17 07:00:00		10.99	18.92	83.84	88.67
28-Aug-17 08:00:00	28-Aug-17 09:00:00		1.11	0.00	0.00	5.92	2.1	329.7		0.37	0.00	0.00	1.95		10.35	18.92	83.84	86.68	28-Aug-17 08:00:00		10.72	18.92	83.84	88.63
28-Aug-17 09:00:00	28-Aug-17 10:00:00		1.35	0.00	0.00	5.81	2.1	329.7		0.44	0.00	0.00	1.92		10.35	18.92	83.84	86.68	28-Aug-17 09:00:00		10.79	18.92	83.84	88.60
28-Aug-17 10:00:00	28-Aug-17 11:00:00		0.65	0.00	0.00	5.68	2.1	329.7		0.21	0.00	0.00	1.87		10.35	18.92	83.84	86.68	28-Aug-17 10:00:00		10.56	18.92	83.84	88.55
28-Aug-17 11:00:00	28-Aug-17 12:00:00		7.99	0.00	0.00	5.43	2.1	329.7		2.64	0.00	0.00	1.79		10.35	18.92	83.84	86.68	28-Aug-17 11:00:00		12.99	18.92	83.84	88.47
28-Aug-17 12:00:00	28-Aug-17 13:00:00		16.06	0.00	0.00	5.16	2.1	329.7		5.29	0.00	0.00	1.70		10.35	18.92	83.84	86.68	28-Aug-17 12:00:00		15.64	18.92	83.84	88.38
28-Aug-17 13:00:00	28-Aug-17 14:00:00		17.39	0.00	0.00	4.90	2.1	329.7		5.73	0.00	0.00	1.61		10.35	18.92	83.84	86.68	28-Aug-17 13:00:00		16.08	18.92	83.84	88.29
28-Aug-17 14:00:00	28-Aug-17 15:00:00		33.43	0.00	0.00	4.71	2.1	329.7		11.02	0.00	0.00	1.55		10.35	18.92	83.84	86.68	28-Aug-17 14:00:00		21.37	18.92	83.84	88.23
28-Aug-17 15:00:00	28-Aug-17 16:00:00		50.68	0.00	0.00	4.77	2.1	329.7		16.71	0.00	0.00	1.57		10.35	18.92	83.84	86.68	28-Aug-17 15:00:00		27.06	18.92	83.84	88.25
28-Aug-17 16:00:00	28-Aug-17 17:00:00		37.91	0.00	0.00	4.85	2.1	329.7		12.50	0.00	0.00	1.60		10.35	18.92	83.84	86.68	28-Aug-17 16:00:00		22.85	18.92	83.84	88.28
28-Aug-17 17:00:00	28-Aug-17 18:00:00		37.55	0.00	0.00	4.93	2.1	329.7		12.38	0.00	0.00	1.62		10.35	18.92	83.84	86.68	28-Aug-17 17:00:00		22.73	18.92	83.84	88.30
28-Aug-17 18:00:00	28-Aug-17 19:00:00		24.57	0.00	0.00	5.05	2.1	329.7		8.10	0.00	0.00	1.67		10.35	18.92	83.84	86.68	28-Aug-17 18:00:00		18.45	18.92	83.84	88.35
28-Aug-17 19:00:00	28-Aug-17 20:00:00		20.39	0.00	0.00	5.14	2.1	329.7		6.72	0.00	0.00	1.70		10.35	18.92	83.84	86.68	28-Aug-17 19:00:00		17.07	18.92	83.84	88.38
28-Aug-17 20:00:00	28-Aug-17 21:00:00		23.09	0.00	0.00	5.18	2.1	329.7		7.61	0.00	0.00	1.71		10.35	18.92	83.84	86.68	28-Aug-17 20:00:00		17.96	18.92	83.84	88.39
28-Aug-17 21:00:00	28-Aug-17 22:00:00		24.86	0.00	0.00	5.22	2.1	329.7		8.20	0.00	0.00	1.72		10.35	18.92	83.84	86.68	28-Aug-17 21:00:00		18.55	18.92	83.84	88.40
28-Aug-17 22:00:00	28-Aug-17 23:00:00		46.26	0.00	0.00	5.38	2.1	329.7		15.25	0.00	0.00	1.77		10.35	18.92	83.84	86.68	28-Aug-17 22:00:00		25.60	18.92	83.84	88.45
28-Aug-17 23:00:00	29-Aug-17 00:00:00		44.76	0.00	0.00	5.53	2.1	329.7		14.76	0.00	0.00	1.82		10.35	18.92	83.84	86.68	28-Aug-17 23:00:00		25.11	18.92	83.84	88.50
29-Aug-17 00:00:00	29-Aug-17 01:00:00		31.13	0.00	0.00	5.59	2.1	329.7		10.26	0.00	0.00	1.84		10.35	18.92	83.84	86.68	29-Aug-17 00:00:00		20.61	18.92	83.84	88.52
29-Aug-17 01:00:00	29-Aug-17 02:00:00		32.34	0.00	0.00	5.65	2.1	329.7		10.66	0.00	0.00	1.86		10.35	18.92	83.84	86.68	29-Aug-17 01:00:00		21.01	18.92	83.84	88.54
29-Aug-17 02:00:00	29-Aug-17 03:00:00		33.45	0.00	0.00	5.71	2.1	329.7		11.03	0.00	0.00	1.88		10.35	18.92	83.84	86.68	29-Aug-17 02:00:00		21.38	18.92	83.84	88.56
29-Aug-17 03:00:00	29-Aug-17 04:00:00		11.15	0.00	0.00	5.77	2.1	329.7		3.68	0.00	0.00	1.90		10.35	18.92	83.84	86.68	29-Aug-17 03:00:00		14.03	18.92	83.84	88.58
29-Aug-17 04:00:00	29-Aug-17 05:00:00		7.19	0.00	0.00	5.82	2.1	329.7		2.37	0.00	0.00	1.92		10.35	18.92	83.84	86.68	29-Aug-17 04:00:00		12.72	18.92	83.84	88.60
29-Aug-17 05:00:00	29-Aug-17 06:00:00		8.68	0.00	0.00	5.87	2.1	329.7		2.86	0.00	0.00	1.93		10.35	18.92	83.84	86.68	29-Aug-17 05:00:00		13.21	18.92	83.84	88.61
29-Aug-17 06:00:00	29-Aug-17 07:00:00		0.00	0.00	0.00	5.81	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	29-Aug-17 06:00:00		10.35	18.92	83.84	88.59
29-Aug-17 07:00:00	29-Aug-17 08:00:00		0.00	0.00	0.00	5.70	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	29-Aug-17 07:00:00		10.35	18.92	83.84	88.56
29-Aug-17 08:00:00	29-Aug-17 09:00:00		0.00	0.00	0.00	5.69	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	29-Aug-17 08:00:00		10.35	18.92	83.84	88.56
29-Aug-17 09:00:00	29-Aug-17 10:00:00		0.69	0.00	0.00	5.67	2.1	329.7		0.23	0.00	0.00	1.87		10.35	18.92	83.84	86.68	29-Aug-17 09:00:00		10.58	18.92	83.84	88.55
29-Aug-17 10:00:00	29-Aug-17 11:00:00		6.13	0.00	0.00	5.63	2.1	329.7		2.02	0.00	0.00	1.86		10.35	18.92	83.84	86.68	29-Aug-17 10:00:00		12.37	18.92	83.84	88.54
29-Aug-17 11:00:00	29-Aug-17 12:00:00		2.66	0.00	0.00	5.47	2.1	329.7		0.88	0.00	0.00	1.80		10.35	18.92	83.84	86.68	29-Aug-17 11:00:00		11.23	18.92	83.84	88.48
29-Aug-17 12:00:00	29-Aug-17 13:00:00		3.00	0.00	0.00	5.29	2.1	329.7		0.99	0.00	0.00	1.75		10.35	18.92	83.84	86.68	29-Aug-17 12:00:00		11.34	18.92	83.84	88.43
29-Aug-17 13:00:00	29-Aug-17 14:00:00		1.30	0.00	0.00	5.12	2.1	329.7		0.43	0.00	0.00	1.69		10.35	18.92	83.84	86.68	29-Aug-17 13:00:00		10.78	18.92	83.84	88.37
29-Aug-17 14:00:00	29-Aug-17 15:00:00		0.60	0.00	0.00	4.92	2.1	329.7		0.20	0.00	0.00	1.62		10.35	18.92	83.84	86.68	29-Aug-17 14:00:00		10.55	18.92	83.84	88.30
29-Aug-17 15:00:00	29-Aug-17 16:00:00		0.40	0.00	0.00	4.91	2.1	329.7		0.13	0.00	0.00	1.62		10.35	18.92	83.84	86.68	29-Aug-17 15:00:00		10.48	18.92	83.84	88.30
29-Aug-17 16:00:00	29-Aug-17 17:00:00		0.20	0.00	0.00	4.98	2.1	329.7		0.07	0.00	0.00	1.64		10.35	18.92	83.84	86.68	29-Aug-17 16:00:00		10.42	18.92	83.84	88.32
29-Aug-17 17:00:00	29-Aug-17 18:00:00		0.03	0.00	0.00	5.05	2.1	329.7		0.01	0.00	0.00	1.66		10.35	18.92	83.84	86.68	29-Aug-17 17:00:00		10.36	18.92	83.84	88.34
29-Aug-17 18:00:00	29-Aug-17 19:00:00		0.00	0.00	0.00	5.09	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	29-Aug-17 18:00:00		10.35	18.92	83.84	88.36
29-Aug-17 19:00:00	29-Aug-17 20:00:00		0.00	0.00	0.00	5.11	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	29-Aug-17 19:00:00		10.35	18.92	83.84	88.36
29-Aug-17 20:00:00	29-Aug-17 21:00:00		0.00	0.00	0.00	5.14	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	29-Aug-17 20:00:00		10.35	18.92	83.84	88.38
29-Aug-17 21:00:00	29-Aug-17 22:00:00		0.00	0.00	0.00	5.18	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	29-Aug-17 21:00:00		10.35	18.92	83.84	88.39
29-Aug-17 22:00:00	29-Aug-17 23:00:00		0.00	0.00	0.00	5.25	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	29-Aug-17 22:00:00		10.35	18.92	83.84	88.41
29-Aug-17 23:00:00	30-Aug-17 00:00:00		0.00	0.00	0.00	5.31	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	29-Aug-17 23:00:00		10.35	18.92	83.84	88.43
30-Aug-17 00:00:00	30-Aug-17 01:00:00		0.00	0.00	0.00	5.34	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	30-Aug-17 00:00:00		10.35	18.92	83.84	88.44
30-Aug-17 01:00:00	30-Aug-17 02:00:00		7.02	0.00	0.00	5.36	2.1	329.7		2.31	0.00	0.00	1.77		10.35	18.92	83.84	86.68	30-Aug-17 01:00:00		12.66	18.92	83.84	88.45
30-Aug-17 02:00:00	30-Aug-17 03:00:00		25.44	0.00	0.00	5.32	2.1	329.7		8.39	0.00	0.00	1.75		10.35	18.92	83.84	86.68	30-Aug-17 02:00:00		18.74	18.92	83.84	88.43
30-Aug-17 03:00:00	30-Aug-17 04:00:00		2.23	0.00	0.00	5.32	2.1	329.7		0.73	0.00	0.00	1.75		10.35	18.92	83.84	86.68	30-Aug-17 03:00:00		11.08	18.92	83.84	88.43
30-Aug-17 04:00:00	30-Aug-17 05:00:00		0.00	0.00	0.00	5.40	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	30-Aug-17 04:00:00		10.35	18.92	83.84	88.46
30-Aug-17 05:00:00	30-Aug-17 06:00:00		0.00	0.00	0.00	5.48	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	30-Aug-17 05:00:00		10.35	18.92	83.84	88.49
30-Aug-17 06:00:00	30-Aug-17 07:00:00		0.00	0.00	0.00	5.64	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	30-Aug-17 06:00:00		10.35	18.92	83.84	88.54
30-Aug-17 07:00:00	30-Aug-17 08:00:00		0.00	0.00	0.00	5.66	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	30-Aug-17 07:00:00		10.35	18.92	83.84	88.55
30-Aug-17 08:00:00	30-Aug-17 09:00:00		0.00	0.00	0.00	5.55	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	30-Aug-17 08:00:00		10.35	18.92	83.84	88.51
30-Aug-17 09:00:00	30-Aug-17 10:00:00		0.00	0.00	0.00	5.44	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	30-Aug-17 09:00:00		10.35	18.92	83.84	88.47
30-Aug-17 10:00:00	30-Aug-17 11:00:00		0.00	0.00	0.00	5.35	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	30-Aug-17 10:00:00		10.35	18.92	83.84	88.44
30-Aug-17 11:00:00	30-Aug-17 12:00:00		9.28	0.00	0.00	5.15	2.1	329.7		3.06	0.00	0.00	1.70		10.35	18.92	83.84	86.68	30-Aug-17 11:00:00		13.41	18.92	83.84	88.38
30-Aug-17 12:00:00	30-Aug-17 13:00:00		26.53	0.00	0.00	4.87	2.1	329.7		8.75	0.00	0.00	1.61		10.35	18.92	83.84	86.68	30-Aug-17 12:00:00		19.10	18.92	83.84	88.29
30-Aug-17 13:00:00	30-Aug-17 14:00:00		37.97	0.00	0.00	4.60	2.1	329.7		12.52	0.00	0.00	1.52		10.35	18.92	83.84	86.68	30-Aug-17 13:00:00		22.87	18.92	83.84	88.20
30-Aug-17 14:00:00	30-Aug-17 15:00:00		59.43	0.00	0.00	4.33	2.1	329.7		19.59	0.00	0.00	1.43		10.35	18.92	83.84	86.68	30-Aug-17 14:00:00		29.94	18.92	83.84	88.11
30-Aug-17 15:00:00	30-Aug-17 16:00:00		56.19	0.00	0.00	4.24	2.1	329.7		18.52	0.00	0.00	1.40		10.35	18.92	83.84	86.68	30-Aug-17 15:00:00		28.87	18.92	83.84	88.08
30-Aug-17 16:00:00	30-Aug-17 17:00:00		34.45	0.00	0.00	4.19	2.1	329.7		11.36	0.00	0.00	1.38		10.35	18.92	83.84	86.68	30-Aug-17 16:00:00		21.71	18.92	83.84	88.06
30-Aug-17 17:00:00	30-Aug-17 18:00:00		4.07	0.00	0.00	4.14	2.1	329.7		1.34	0.00	0.00	1.37		10.35	18.92	83.84	86.68	30-Aug-17 17:00:00		11.69	18.92	83.84	88.05
30-Aug-17 18:00:00	30-Aug-17 19:00:00		0.08	0.00	0.00	4.13	2.1	329.7		0.03	0.00	0.00	1.36		10.35	18.92	83.84	86.68	30-Aug-17 18:00:00		10.38	18.92	83.84	88.04
30-Aug-17 19:00:00	30-Aug-17 20:00:00		0.05	0.00	0.00	4.38	2.1	329.7		0.02	0.00	0.00	1.45		10.35	18.92	83.84	86.68	30-Aug-17 19:00:00		10.37	18.92	83.84	88.13
30-Aug-17 20:00:00	30-Aug-17 21:00:00		0.02	0.00	0.00	4.69	2.1	329.7		0.01	0.00	0.00	1.55		10.35	18.92	83.84	86.68	30-Aug-17 20:00:00		10.36	18.92	83.84	88.23
30-Aug-17 21:00:00	30-Aug-17 22:00:00		0.24	0.00	0.00	4.99	2.1	329.7		0.08	0.00	0.00	1.64		10.35	18.92	83.84	86.68	30-Aug-17 21:00:00		10.43	18.92	83.84	88.32
30-Aug-17 22:00:00	30-Aug-17 23:00:00		1.31	0.00	0.00	5.23	2.1	329.7		0.43	0.00	0.00	1.72		10.35	18.92	83.84	86.68	30-Aug-17 22:00:00		10.78	18.92	83.84	88.40
30-Aug-17 23:00:00	31-Aug-17 00:00:00		2.45	0.00	0.00	5.20	2.1	329.7		0.81	0.00	0.00	1.72		10.35	18.92	83.84	86.68	30-Aug-17 23:00:00		11.16	18.92	83.84	88.40
31-Aug-17 00:00:00	31-Aug-17 01:00:00		13.64	0.00	0.00	5.17	2.1	329.7		4.50	0.00	0.00	1.70		10.35	18.92	83.84	86.68	31-Aug-17 00:00:00		14.85	18.92	83.84	88.38
31-Aug-17 01:00:00	31-Aug-17 02:00:00		7.51	0.00	0.00	5.14	2.1	329.7		2.48	0.00	0.00	1.69		10.35	18.92	83.84	86.68	31-Aug-17 01:00:00		12.83	18.92	83.84	88.37
31-Aug-17 02:00:00	31-Aug-17 03:00:00		8.28	0.00	0.00	5.14	2.1	329.7		2.73	0.00	0.00	1.69		10.35	18.92	83.84	86.68	31-Aug-17 02:00:00		13.08	18.92	83.84	88.37
31-Aug-17 03:00:00	31-Aug-17 04:00:00		7.67	0.00	0.00	5.19	2.1	329.7		2.53	0.00	0.00	1.71		10.35	18.92	83.84	86.68	31-Aug-17 03:00:00		12.88	18.92	83.84	88.39
31-Aug-17 04:00:00	31-Aug-17 05:00:00		4.93	0.00	0.00	5.19	2.1	329.7		1.63	0.00	0.00	1.71		10.35	18.92	83.84	86.68	31-Aug-17 04:00:00		11.98	18.92	83.84	88.39
31-Aug-17 05:00:00	31-Aug-17 06:00:00		0.14	0.00	0.00	5.20	2.1	329.7		0.05	0.00	0.00	1.71		10.35	18.92	83.84	86.68	31-Aug-17 05:00:00		10.40	18.92	83.84	88.39
31-Aug-17 06:00:00	31-Aug-17 07:00:00		0.35	0.00	0.00	5.43

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
02-Sep-17 08:00:00	02-Sep-17 09:00:00		1.47	0.00	0.00	7.15	2.1	329.7		0.49	0.00	0.00	2.36		10.35	18.92	83.84	86.68	02-Sep-17 08:00:00		10.84	18.92	83.84	89.04
02-Sep-17 09:00:00	02-Sep-17 10:00:00		1.63	0.00	0.00	6.71	2.1	329.7		0.54	0.00	0.00	2.21		10.35	18.92	83.84	86.68	02-Sep-17 09:00:00		10.89	18.92	83.84	88.89
02-Sep-17 10:00:00	02-Sep-17 11:00:00		2.02	0.00	0.00	5.17	2.1	329.7		0.67	0.00	0.00	1.70		10.35	18.92	83.84	86.68	02-Sep-17 10:00:00		11.02	18.92	83.84	88.38
02-Sep-17 11:00:00	02-Sep-17 12:00:00		11.10	0.00	0.00	25.82	2.1	329.7		3.66	0.00	0.00	8.51		10.35	18.92	83.84	86.68	02-Sep-17 11:00:00		14.01	18.92	83.84	95.19
02-Sep-17 12:00:00	02-Sep-17 13:00:00		25.51	0.00	0.00	11.79	2.1	329.7		8.41	0.00	0.00	3.89		10.35	18.92	83.84	86.68	02-Sep-17 12:00:00		18.76	18.92	83.84	90.57
02-Sep-17 13:00:00	02-Sep-17 14:00:00		3.57	0.00	0.00	4.73	2.1	329.7		1.18	0.00	0.00	1.56		10.35	18.92	83.84	86.68	02-Sep-17 13:00:00		11.53	18.92	83.84	88.24
02-Sep-17 14:00:00	02-Sep-17 15:00:00		2.53	0.00	0.00	4.72	2.1	329.7		0.83	0.00	0.00	1.56		10.35	18.92	83.84	86.68	02-Sep-17 14:00:00		11.18	18.92	83.84	88.24
02-Sep-17 15:00:00	02-Sep-17 16:00:00		1.82	0.00	0.00	4.72	2.1	329.7		0.60	0.00	0.00	1.56		10.35	18.92	83.84	86.68	02-Sep-17 15:00:00		10.95	18.92	83.84	88.24
02-Sep-17 16:00:00	02-Sep-17 17:00:00		0.29	0.00	0.00	4.71	2.1	329.7		0.10	0.00	0.00	1.55		10.35	18.92	83.84	86.68	02-Sep-17 16:00:00		10.45	18.92	83.84	88.23
02-Sep-17 17:00:00	02-Sep-17 18:00:00		30.55	0.00	0.00	520.80	2.1	329.7		10.07	0.00	0.00	171.71		10.35	18.92	83.84	86.68	02-Sep-17 17:00:00		20.42	18.92	83.84	258.39
02-Sep-17 18:00:00	02-Sep-17 19:00:00		38.16	0.00	0.00	106.17	2.1	329.7		12.58	0.00	0.00	35.01		10.35	18.92	83.84	86.68	02-Sep-17 18:00:00		22.93	18.92	83.84	121.69
02-Sep-17 19:00:00	02-Sep-17 20:00:00		40.98	0.00	0.00	4.92	2.1	329.7		13.51	0.00	0.00	1.62		10.35	18.92	83.84	86.68	02-Sep-17 19:00:00		23.86	18.92	83.84	88.30
02-Sep-17 20:00:00	02-Sep-17 21:00:00		44.12	0.00	0.00	5.18	2.1	329.7		14.55	0.00	0.00	1.71		10.35	18.92	83.84	86.68	02-Sep-17 20:00:00		24.90	18.92	83.84	88.39
02-Sep-17 21:00:00	02-Sep-17 22:00:00		28.09	0.00	0.00	5.44	2.1	329.7		9.26	0.00	0.00	1.79		10.35	18.92	83.84	86.68	02-Sep-17 21:00:00		19.61	18.92	83.84	88.47
02-Sep-17 22:00:00	02-Sep-17 23:00:00		0.03	0.00	0.00	5.99	2.1	329.7		0.01	0.00	0.00	1.97		10.35	18.92	83.84	86.68	02-Sep-17 22:00:00		10.36	18.92	83.84	88.65
02-Sep-17 23:00:00	03-Sep-17 00:00:00		3.85	0.00	0.00	5.75	2.1	329.7		1.27	0.00	0.00	1.90		10.35	18.92	83.84	86.68	02-Sep-17 23:00:00		11.62	18.92	83.84	88.58
03-Sep-17 00:00:00	03-Sep-17 01:00:00		6.56	0.00	0.00	5.85	2.1	329.7		2.16	0.00	0.00	1.93		10.35	18.92	83.84	86.68	03-Sep-17 00:00:00		12.51	18.92	83.84	88.61
03-Sep-17 01:00:00	03-Sep-17 02:00:00		10.26	0.00	0.00	5.95	2.1	329.7		3.38	0.00	0.00	1.96		10.35	18.92	83.84	86.68	03-Sep-17 01:00:00		13.73	18.92	83.84	88.64
03-Sep-17 02:00:00	03-Sep-17 03:00:00		21.22	0.00	0.00	6.15	2.1	329.7		7.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	03-Sep-17 02:00:00		17.35	18.92	83.84	88.71
03-Sep-17 03:00:00	03-Sep-17 04:00:00		5.00	0.00	0.00	5.99	2.1	329.7		1.65	0.00	0.00	1.98		10.35	18.92	83.84	86.68	03-Sep-17 03:00:00		12.00	18.92	83.84	88.66
03-Sep-17 04:00:00	03-Sep-17 05:00:00		2.18	0.00	0.00	5.82	2.1	329.7		0.72	0.00	0.00	1.92		10.35	18.92	83.84	86.68	03-Sep-17 04:00:00		11.07	18.92	83.84	88.60
03-Sep-17 05:00:00	03-Sep-17 06:00:00		1.53	0.00	0.00	5.65	2.1	329.7		0.50	0.00	0.00	1.86		10.35	18.92	83.84	86.68	03-Sep-17 05:00:00		10.85	18.92	83.84	88.54
03-Sep-17 06:00:00	03-Sep-17 07:00:00		0.88	0.00	0.00	5.71	2.1	329.7		0.29	0.00	0.00	1.88		10.35	18.92	83.84	86.68	03-Sep-17 06:00:00		10.64	18.92	83.84	88.56
03-Sep-17 07:00:00	03-Sep-17 08:00:00		0.24	0.00	0.00	5.73	2.1	329.7		0.08	0.00	0.00	1.89		10.35	18.92	83.84	86.68	03-Sep-17 07:00:00		10.43	18.92	83.84	88.57
03-Sep-17 08:00:00	03-Sep-17 09:00:00		0.00	0.00	0.00	5.74	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	03-Sep-17 08:00:00		10.35	18.92	83.84	88.57
03-Sep-17 09:00:00	03-Sep-17 10:00:00		0.00	0.00	0.00	5.74	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	03-Sep-17 09:00:00		10.35	18.92	83.84	88.57
03-Sep-17 10:00:00	03-Sep-17 11:00:00		0.00	0.00	0.00	6.46	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	03-Sep-17 10:00:00		10.35	18.92	83.84	88.81
03-Sep-17 11:00:00	03-Sep-17 12:00:00		4.18	0.00	0.00	5.32	2.1	329.7		1.38	0.00	0.00	1.76		10.35	18.92	83.84	86.68	03-Sep-17 11:00:00		11.73	18.92	83.84	88.44
03-Sep-17 12:00:00	03-Sep-17 13:00:00		14.45	0.00	0.00	5.14	2.1	329.7		4.76	0.00	0.00	1.69		10.35	18.92	83.84	86.68	03-Sep-17 12:00:00		15.11	18.92	83.84	88.37
03-Sep-17 13:00:00	03-Sep-17 14:00:00		38.70	0.00	0.00	4.95	2.1	329.7		12.76	0.00	0.00	1.63		10.35	18.92	83.84	86.68	03-Sep-17 13:00:00		23.11	18.92	83.84	88.31
03-Sep-17 14:00:00	03-Sep-17 15:00:00		7.03	0.00	0.00	4.68	2.1	329.7		2.32	0.00	0.00	1.54		10.35	18.92	83.84	86.68	03-Sep-17 14:00:00		12.67	18.92	83.84	88.22
03-Sep-17 15:00:00	03-Sep-17 16:00:00		2.09	0.00	0.00	4.60	2.1	329.7		0.69	0.00	0.00	1.52		10.35	18.92	83.84	86.68	03-Sep-17 15:00:00		11.04	18.92	83.84	88.20
03-Sep-17 16:00:00	03-Sep-17 17:00:00		1.70	0.00	0.00	4.56	2.1	329.7		0.56	0.00	0.00	1.50		10.35	18.92	83.84	86.68	03-Sep-17 16:00:00		10.91	18.92	83.84	88.18
03-Sep-17 17:00:00	03-Sep-17 18:00:00		3.33	0.00	0.00	4.51	2.1	329.7		1.10	0.00	0.00	1.49		10.35	18.92	83.84	86.68	03-Sep-17 17:00:00		11.45	18.92	83.84	88.17
03-Sep-17 18:00:00	03-Sep-17 19:00:00		7.39	0.00	0.00	4.40	2.1	329.7		2.44	0.00	0.00	1.45		10.35	18.92	83.84	86.68	03-Sep-17 18:00:00		12.79	18.92	83.84	88.13
03-Sep-17 19:00:00	03-Sep-17 20:00:00		64.04	0.00	0.00	4.54	2.1	329.7		21.11	0.00	0.00	1.50		10.35	18.92	83.84	86.68	03-Sep-17 19:00:00		31.46	18.92	83.84	88.18
03-Sep-17 20:00:00	03-Sep-17 21:00:00		33.56	0.00	0.00	4.73	2.1	329.7		11.06	0.00	0.00	1.56		10.35	18.92	83.84	86.68	03-Sep-17 20:00:00		21.41	18.92	83.84	88.24
03-Sep-17 21:00:00	03-Sep-17 22:00:00		9.86	0.00	0.00	4.92	2.1	329.7		3.25	0.00	0.00	1.62		10.35	18.92	83.84	86.68	03-Sep-17 21:00:00		13.60	18.92	83.84	88.30
03-Sep-17 22:00:00	03-Sep-17 23:00:00		31.39	0.00	0.00	5.18	2.1	329.7		10.35	0.00	0.00	1.71		10.35	18.92	83.84	86.68	03-Sep-17 22:00:00		20.70	18.92	83.84	88.39
03-Sep-17 23:00:00	04-Sep-17 00:00:00		11.08	0.00	0.00	5.33	2.1	329.7		3.65	0.00	0.00	1.76		10.35	18.92	83.84	86.68	03-Sep-17 23:00:00		14.00	18.92	83.84	88.44
04-Sep-17 00:00:00	04-Sep-17 01:00:00		1.31	0.00	0.00	5.44	2.1	329.7		0.43	0.00	0.00	1.79		10.35	18.92	83.84	86.68	04-Sep-17 00:00:00		10.78	18.92	83.84	88.47
04-Sep-17 01:00:00	04-Sep-17 02:00:00		2.63	0.00	0.00	5.56	2.1	329.7		0.87	0.00	0.00	1.83		10.35	18.92	83.84	86.68	04-Sep-17 01:00:00		11.22	18.92	83.84	88.51
04-Sep-17 02:00:00	04-Sep-17 03:00:00		0.00	0.00	0.00	5.71	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	04-Sep-17 02:00:00		10.35	18.92	83.84	88.56
04-Sep-17 03:00:00	04-Sep-17 04:00:00		0.00	0.00	0.00	5.75	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	04-Sep-17 03:00:00		10.35	18.92	83.84	88.58
04-Sep-17 04:00:00	04-Sep-17 05:00:00		0.00	0.00	0.00	5.76	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	04-Sep-17 04:00:00		10.35	18.92	83.84	88.58
04-Sep-17 05:00:00	04-Sep-17 06:00:00		0.00	0.00	0.00	5.77	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	04-Sep-17 05:00:00		10.35	18.92	83.84	88.58
04-Sep-17 06:00:00	04-Sep-17 07:00:00		0.00	0.00	0.00	5.76	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	04-Sep-17 06:00:00		10.35	18.92	83.84	88.58
04-Sep-17 07:00:00	04-Sep-17 08:00:00		0.00	0.00	0.00	5.63	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	04-Sep-17 07:00:00		10.35	18.92	83.84	88.54
04-Sep-17 08:00:00	04-Sep-17 09:00:00		0.00	0.00	0.00	5.48	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	04-Sep-17 08:00:00		10.35	18.92	83.84	88.49
04-Sep-17 09:00:00	04-Sep-17 10:00:00		0.00	0.00	0.00	5.32	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	04-Sep-17 09:00:00		10.35	18.92	83.84	88.44
04-Sep-17 10:00:00	04-Sep-17 11:00:00		4.65	0.00	0.00	5.13	2.1	329.7		1.53	0.00	0.00	1.69		10.35	18.92	83.84	86.68	04-Sep-17 10:00:00		11.88	18.92	83.84	88.37
04-Sep-17 11:00:00	04-Sep-17 12:00:00		15.74	0.00	0.00	4.85	2.1	329.7		5.19	0.00	0.00	1.60		10.35	18.92	83.84	86.68	04-Sep-17 11:00:00		15.54	18.92	83.84	88.28
04-Sep-17 12:00:00	04-Sep-17 13:00:00		62.85	0.00	0.00	6.52	2.1	329.7		20.72	0.00	0.00	2.15		10.35	18.92	83.84	86.68	04-Sep-17 12:00:00		31.07	18.92	83.84	88.83
04-Sep-17 13:00:00	04-Sep-17 14:00:00		28.42	0.00	0.00	14.06	2.1	329.7		9.37	0.00	0.00	4.64		10.35	18.92	83.84	86.68	04-Sep-17 13:00:00		19.72	18.92	83.84	91.32
04-Sep-17 14:00:00	04-Sep-17 15:00:00		4.03	0.00	0.00	8.88	2.1	329.7		1.33	0.00	0.00	2.93		10.35	18.92	83.84	86.68	04-Sep-17 14:00:00		11.68	18.92	83.84	89.61
04-Sep-17 15:00:00	04-Sep-17 16:00:00		10.62	0.00	0.00	9.65	2.1	329.7		3.50	0.00	0.00	3.18		10.35	18.92	83.84	86.68	04-Sep-17 15:00:00		13.85	18.92	83.84	89.86
04-Sep-17 16:00:00	04-Sep-17 17:00:00		1.34	0.00	0.00	4.34	2.1	329.7		0.44	0.00	0.00	1.43		10.35	18.92	83.84	86.68	04-Sep-17 16:00:00		10.79	18.92	83.84	88.11
04-Sep-17 17:00:00	04-Sep-17 18:00:00		8.40	0.00	0.00	4.30	2.1	329.7		2.77	0.00	0.00	1.42		10.35	18.92	83.84	86.68	04-Sep-17 17:00:00		13.12	18.92	83.84	88.10
04-Sep-17 18:00:00	04-Sep-17 19:00:00		11.37	0.00	0.00	4.64	2.1	329.7		3.75	0.00	0.00	1.53		10.35	18.92	83.84	86.68	04-Sep-17 18:00:00		14.10	18.92	83.84	88.21
04-Sep-17 19:00:00	04-Sep-17 20:00:00		12.88	0.00	0.00	4.46	2.1	329.7		4.25	0.00	0.00	1.47		10.35	18.92	83.84	86.68	04-Sep-17 19:00:00		14.60	18.92	83.84	88.15
04-Sep-17 20:00:00	04-Sep-17 21:00:00		8.33	0.00	0.00	4.70	2.1	329.7		2.75	0.00	0.00	1.55		10.35	18.92	83.84	86.68	04-Sep-17 20:00:00		13.10	18.92	83.84	88.23
04-Sep-17 21:00:00	04-Sep-17 22:00:00		28.03	0.00	0.00	4.94	2.1	329.7		9.24	0.00	0.00	1.63		10.35	18.92	83.84	86.68	04-Sep-17 21:00:00		19.59	18.92	83.84	88.31
04-Sep-17 22:00:00	04-Sep-17 23:00:00		43.55	0.00	0.00	5.16	2.1	329.7		14.36	0.00	0.00	1.70		10.35	18.92	83.84	86.68	04-Sep-17 22:00:00		24.71	18.92	83.84	88.38
04-Sep-17 23:00:00	05-Sep-17 00:00:00		24.89	0.00	0.00	5.28	2.1	329.7		8.21	0.00	0.00	1.74		10.35	18.92	83.84	86.68	04-Sep-17 23:00:00		18.56	18.92	83.84	88.42
05-Sep-17 00:00:00	05-Sep-17 01:00:00		6.31	0.00	0.00	5.38	2.1	329.7		2.08	0.00	0.00	1.77		10.35	18.92	83.84	86.68	05-Sep-17 00:00:00		12.43	18.92	83.84	88.45
05-Sep-17 01:00:00	05-Sep-17 02:00:00		0.19	0.00	0.00	5.48	2.1	329.7		0.06	0.00	0.00	1.81		10.35	18.92	83.84	86.68	05-Sep-17 01:00:00		10.41	18.92	83.84	88.49
05-Sep-17 02:00:00	05-Sep-17 03:00:00		6.18	0.00	0.00	5.49	2.1	329.7		2.04	0.00	0.00	1.81		10.35	18.92	83.84	86.68	05-Sep-17 02:00:00		12.39	18.92	83.84	88.49
05-Sep-17 03:00:00	05-Sep-17 04:00:00		0.23	0.00	0.00	5.46	2.1	329.7		0.08	0.00	0.00	1.80		10.35	18.92	83.84	86.68	05-Sep-17 03:00:00		10.43	18.92	83.84	88.48
05-Sep-17 04:00:00	05-Sep-17 05:00:00		0.14	0.00	0.00	5.52	2.1	329.7		0.05	0.00	0.00	1.82		10.35	18.92	83.84	86.68	05-Sep-17 04:00:00		10.40	18.92	83.84	88.50
05-Sep-17 05:00:00	05-Sep-17 06:00:00		0.05	0.00	0.00	5.58	2.1	329.7		0.02	0.00	0.00	1.84		10.35	18.92	83.84	86.68	05-Sep-17 05:00:00		10.37	18.92	83.84	88.52
05-Sep-17 06:00:00	05-Sep-17 07:00:00		0.60	0.00	0.00	5.58	2.1	329.7		0.20	0.00	0.00	1.84		10.35	18.92	83.84	86.68	05-Sep-17 06:00:00		10.55	18.92	83.84	88.52
05-Sep-17 07:00:00	05-Sep-17 08:00:00		0.00	0.00	0.00	5.42	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	05-Sep-17 07:00:00		10.35	18.92	83.84	88.47
05-Sep-17 08:00:00	05-Sep-17 09:00:00		0.00	0.00	0.00	5.29	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	05-Sep-17 08:00:00		10.35	18.92	83.84	88.42
05-Sep-17 09:00:00	05-Sep-17 10:00:00		0.00	0.00	0.00	5.16	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	05-Sep-17 09:00:00		10.35	18.92	83.84	88.38
05-Sep-17 10:00:00	05-Sep-17 11:00:00		3.10	0.00	0.00	5.08	2.1	329.7		1.02	0.00	0.00	1.67		10.35	18.92	83.84	86.68	05-Sep-17 10:00:00		11.37	18.92	83.84	88.35
05-Sep-17 11:00:00	05-Sep-17 12:00:00		37.74	0.00	0.00	5.00	2.1	329.7		12.44	0.00	0.00	1.65		10.35	18.92	83.84	86.68	05-Sep-17 11:00:00		22.79	18.92	83.84	88.33
05-Sep-17 12:00:00	05-Sep-17 13:00:00		31.25	0.00	0.00	4.86	2.1	329.7		10.30	0.00	0.00	1.60		10.35	18.92	83.84	86.68	05-Sep-17 12:00:00		20.65	18.92	83.84	88.28
05-Sep-17 13:00:00	05-Sep-17 14:00:00		6.26	0.00	0.00	4.72	2.1	329.7		2.06	0.00	0.00	1.56		10.35	18.92	83.84	86.68	05-Sep-17 13:00:00		12.41	18.92	83.84	88.24
05-Sep-17 14:00:00	05-Sep-17 15:00:00		6.91	0.00	0.00	4.59	2.1	329.7		2.28	0.00	0.00	1.51		10.35	18.92	83.84	86.68	05-Sep-17 14:00:00		12.63	18.92	83.84	88.19
05-Sep-17 15:00:00	05-Sep-17 16:00:00		5.82	0.00	0.00	4.49	2.1	329.7		1.92	0.00	0.00	1.48		10.35	18.92	83.84	86.68	05-Sep-17 15:00:00		12.27	18.92	83.84	88.16
05-Sep-17 16:00:00	05-Sep-17 17:00:00		1.69	0.00	0.00	4.40	2.1	329.7		0.56	0.00	0.00	1.45		10.35	18.92	83.84	86.68	05-Sep-17 16:00:00		10.91	18.92	83.84	88.13
05-Sep-17 17:00:00	05-Sep-17 18:00:00		1.13	0.00	0.00	4.62	2.1	329.7		0.37	0.00	0.00	1.52		10.35	18.92	83.84	86.68	05-Sep-17 17:00:00		10.72	18.92	83.84	88.20
05-Sep-17 18:00:00	05-Sep-17 19:00:00		0.57	0.00	0.00	4.21	2.1	329.7		0.19	0.00	0.00	1.39		10.35	18.92	83.84	86.68	05-Sep-17 18:00:00		10.54	18.92	83.84	88.07
05-Sep-17 19:00:00	05-Sep-17 20:00:00		0.07	0.00	0.00	4.14	2.1	329.7		0.02	0.00	0.00	1.37		10.35	18.92	83.84	86.68	05-Sep-17 19:00:00		10.37	18.92	83.84	88.05
05-Sep-17 20:00:00	05-Sep-17 21:00:00		0.00	0.00	0.00	4.38	2.1	329.7		0.00	0.00	0.00	1.44		10.35	18.92	83.84	86.68	05-Sep-17 20:00:00		10.35	18.92	83.84	88.12
05-Sep-17 21:00:00	05-Sep-17 22:00:00		0.00	0.00	0.00	4.94	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	05-Sep-17 21:00:00		10.35	18.92	83.84	88.31
05-Sep-17 22:00:00	05-Sep-17 23:00:00		6.41	0.00	0.00	4.85	2.1	329.7		2.11	0.00	0.00	1.60		10.35	18.92	83.84	86.68	05-Sep-17 22:00:00		12.46	18.92	83.84	88.28
05-Sep-17 23:00:00	06-Sep-17 00:00:00		53.64	0.00	0.00	5.15	2.1	329.7		17.68	0.00	0.00	1.70		10.35	18.92	83.84	86.68	05-Sep-17 23:00:00		28.03	18.92	83.84	88.38
06-Sep-17 00:00:00	06-Sep-17 01:00:00		61.96	0.00	0.00	5.45	2.1	329.7		20.43	0.00	0.00	1.80		10.35	18.92	83.84	86.68	06-Sep-17 00:00:00		30.78	18.92	83.84	88.48
06-Sep-17 01:00:00	06-Sep-17 02:00:00		32.33	0.00	0.00	5.72	2.1	329.7		10.66	0.00	0.00	1.89		10.35	18.92	83.84	86.68	06-Sep-17 01:00:00		21.01	18.92	83.84	88.57
06-Sep-17 02:00:00	06-Sep-17 03:00:00		4.29	0.00	0.00	5.78	2.1	329.7		1.42	0.00	0.00	1.91		10.35	18.92	83.84	86.68	06-Sep-17 02:00:00		11.77	18.92	83.84	88.59
06-Sep-17 03:00:00	06-Sep-17 04:00:00		0.26	0.00	0.00	5.78	2.1	329.7		0.08	0.00	0.00	1.91		10.35	18.92	83.84	86.68	06-Sep-17 03:00:00		10.43	18.92	83.84	88.59
06-Sep-17 04:00:00	06-Sep-17 05:00:00		0.17	0.00	0.00	5.78	2.1	329.7		0.06	0.00	0.00	1.91		10.35	18.92	83.84	86.68	06-Sep-17 04:00:00		10.41	18.92	83.84	88.59
06-Sep-17 05:00:00	06-Sep-17 06:00:00		0.08	0.00	0.00	52.

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
08-Sep-17 07:00:00	08-Sep-17 08:00:00		0.00	0.00	0.00	6.05	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	08-Sep-17 07:00:00		10.35	18.92	83.84	88.67
08-Sep-17 08:00:00	08-Sep-17 09:00:00		0.00	0.00	0.00	5.91	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	08-Sep-17 08:00:00		10.35	18.92	83.84	88.63
08-Sep-17 09:00:00	08-Sep-17 10:00:00		0.00	0.00	0.00	5.74	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	08-Sep-17 09:00:00		10.35	18.92	83.84	88.57
08-Sep-17 10:00:00	08-Sep-17 11:00:00		0.00	0.00	0.00	23.39	2.1	329.7		0.00	0.00	0.00	7.71		10.35	18.92	83.84	86.68	08-Sep-17 10:00:00		10.35	18.92	83.84	94.39
08-Sep-17 11:00:00	08-Sep-17 12:00:00		0.00	0.00	0.00	5.31	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	08-Sep-17 11:00:00		10.35	18.92	83.84	88.43
08-Sep-17 12:00:00	08-Sep-17 13:00:00		0.00	0.00	0.00	5.11	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	08-Sep-17 12:00:00		10.35	18.92	83.84	88.37
08-Sep-17 13:00:00	08-Sep-17 14:00:00		0.00	0.00	0.00	4.92	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	08-Sep-17 13:00:00		10.35	18.92	83.84	88.30
08-Sep-17 14:00:00	08-Sep-17 15:00:00		5.89	0.00	0.00	4.75	2.1	329.7		1.94	0.00	0.00	1.57		10.35	18.92	83.84	86.68	08-Sep-17 14:00:00		12.29	18.92	83.84	88.25
08-Sep-17 15:00:00	08-Sep-17 16:00:00		17.89	0.00	0.00	4.72	2.1	329.7		5.90	0.00	0.00	1.56		10.35	18.92	83.84	86.68	08-Sep-17 15:00:00		16.25	18.92	83.84	88.24
08-Sep-17 16:00:00	08-Sep-17 17:00:00		7.83	0.00	0.00	13.58	2.1	329.7		2.58	0.00	0.00	4.48		10.35	18.92	83.84	86.68	08-Sep-17 16:00:00		12.93	18.92	83.84	91.16
08-Sep-17 17:00:00	08-Sep-17 18:00:00		13.02	0.00	0.00	4.66	2.1	329.7		4.29	0.00	0.00	1.54		10.35	18.92	83.84	86.68	08-Sep-17 17:00:00		14.64	18.92	83.84	88.22
08-Sep-17 18:00:00	08-Sep-17 19:00:00		17.51	0.00	0.00	4.67	2.1	329.7		5.77	0.00	0.00	1.54		10.35	18.92	83.84	86.68	08-Sep-17 18:00:00		16.12	18.92	83.84	88.22
08-Sep-17 19:00:00	08-Sep-17 20:00:00		16.71	0.00	0.00	4.67	2.1	329.7		5.51	0.00	0.00	1.54		10.35	18.92	83.84	86.68	08-Sep-17 19:00:00		15.86	18.92	83.84	88.22
08-Sep-17 20:00:00	08-Sep-17 21:00:00		16.58	0.00	0.00	4.80	2.1	329.7		5.47	0.00	0.00	1.58		10.35	18.92	83.84	86.68	08-Sep-17 20:00:00		15.82	18.92	83.84	88.26
08-Sep-17 21:00:00	08-Sep-17 22:00:00		17.04	0.00	0.00	5.00	2.1	329.7		5.62	0.00	0.00	1.65		10.35	18.92	83.84	86.68	08-Sep-17 21:00:00		15.97	18.92	83.84	88.33
08-Sep-17 22:00:00	08-Sep-17 23:00:00		7.35	0.00	0.00	5.20	2.1	329.7		2.42	0.00	0.00	1.72		10.35	18.92	83.84	86.68	08-Sep-17 22:00:00		12.77	18.92	83.84	88.40
08-Sep-17 23:00:00	09-Sep-17 00:00:00		3.96	0.00	0.00	5.40	2.1	329.7		1.30	0.00	0.00	1.78		10.35	18.92	83.84	86.68	08-Sep-17 23:00:00		11.65	18.92	83.84	88.46
09-Sep-17 00:00:00	09-Sep-17 01:00:00		0.00	0.00	0.00	5.58	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	09-Sep-17 00:00:00		10.35	18.92	83.84	88.52
09-Sep-17 01:00:00	09-Sep-17 02:00:00		0.00	0.00	0.00	5.75	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	09-Sep-17 01:00:00		10.35	18.92	83.84	88.58
09-Sep-17 02:00:00	09-Sep-17 03:00:00		0.00	0.00	0.00	5.91	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	09-Sep-17 02:00:00		10.35	18.92	83.84	88.63
09-Sep-17 03:00:00	09-Sep-17 04:00:00		0.00	0.00	0.00	6.08	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	09-Sep-17 03:00:00		10.35	18.92	83.84	88.69
09-Sep-17 04:00:00	09-Sep-17 05:00:00		0.00	0.00	0.00	24.98	2.1	329.7		0.00	0.00	0.00	8.24		10.35	18.92	83.84	86.68	09-Sep-17 04:00:00		10.35	18.92	83.84	94.92
09-Sep-17 05:00:00	09-Sep-17 06:00:00		0.00	0.00	0.00	6.06	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	09-Sep-17 05:00:00		10.35	18.92	83.84	88.68
09-Sep-17 06:00:00	09-Sep-17 07:00:00		0.00	0.00	0.00	6.07	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	09-Sep-17 06:00:00		10.35	18.92	83.84	88.68
09-Sep-17 07:00:00	09-Sep-17 08:00:00		0.00	0.00	0.00	7.10	2.1	329.7		0.00	0.00	0.00	2.34		10.35	18.92	83.84	86.68	09-Sep-17 07:00:00		10.35	18.92	83.84	89.02
09-Sep-17 08:00:00	09-Sep-17 09:00:00		0.00	0.00	0.00	110.06	2.1	329.7		0.00	0.00	0.00	36.29		10.35	18.92	83.84	86.68	09-Sep-17 08:00:00		10.35	18.92	83.84	122.97
09-Sep-17 09:00:00	09-Sep-17 10:00:00		0.00	0.00	0.00	5.76	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	09-Sep-17 09:00:00		10.35	18.92	83.84	88.58
09-Sep-17 10:00:00	09-Sep-17 11:00:00		0.00	0.00	0.00	5.42	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	09-Sep-17 10:00:00		10.35	18.92	83.84	88.47
09-Sep-17 11:00:00	09-Sep-17 12:00:00		0.00	0.00	0.00	5.08	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	09-Sep-17 11:00:00		10.35	18.92	83.84	88.35
09-Sep-17 12:00:00	09-Sep-17 13:00:00		1.02	0.00	0.00	4.79	2.1	329.7		0.34	0.00	0.00	1.58		10.35	18.92	83.84	86.68	09-Sep-17 12:00:00		10.69	18.92	83.84	88.26
09-Sep-17 13:00:00	09-Sep-17 14:00:00		9.91	0.00	0.00	4.73	2.1	329.7		3.27	0.00	0.00	1.56		10.35	18.92	83.84	86.68	09-Sep-17 13:00:00		13.62	18.92	83.84	88.24
09-Sep-17 14:00:00	09-Sep-17 15:00:00		7.47	0.00	0.00	4.71	2.1	329.7		2.46	0.00	0.00	1.55		10.35	18.92	83.84	86.68	09-Sep-17 14:00:00		12.81	18.92	83.84	88.23
09-Sep-17 15:00:00	09-Sep-17 16:00:00		26.69	0.00	0.00	4.68	2.1	329.7		8.80	0.00	0.00	1.54		10.35	18.92	83.84	86.68	09-Sep-17 15:00:00		19.15	18.92	83.84	88.22
09-Sep-17 16:00:00	09-Sep-17 17:00:00		36.86	0.00	0.00	10.90	2.1	329.7		12.15	0.00	0.00	3.59		10.35	18.92	83.84	86.68	09-Sep-17 16:00:00		22.50	18.92	83.84	90.27
09-Sep-17 17:00:00	09-Sep-17 18:00:00		39.20	0.00	0.00	4.78	2.1	329.7		12.93	0.00	0.00	1.58		10.35	18.92	83.84	86.68	09-Sep-17 17:00:00		23.28	18.92	83.84	88.26
09-Sep-17 18:00:00	09-Sep-17 19:00:00		39.88	0.00	0.00	4.96	2.1	329.7		13.15	0.00	0.00	1.64		10.35	18.92	83.84	86.68	09-Sep-17 18:00:00		23.50	18.92	83.84	88.32
09-Sep-17 19:00:00	09-Sep-17 20:00:00		36.88	0.00	0.00	5.14	2.1	329.7		12.16	0.00	0.00	1.69		10.35	18.92	83.84	86.68	09-Sep-17 19:00:00		22.51	18.92	83.84	88.37
09-Sep-17 20:00:00	09-Sep-17 21:00:00		29.68	0.00	0.00	5.24	2.1	329.7		9.78	0.00	0.00	1.73		10.35	18.92	83.84	86.68	09-Sep-17 20:00:00		20.13	18.92	83.84	88.41
09-Sep-17 21:00:00	09-Sep-17 22:00:00		12.79	0.00	0.00	5.38	2.1	329.7		4.22	0.00	0.00	1.77		10.35	18.92	83.84	86.68	09-Sep-17 21:00:00		14.57	18.92	83.84	88.45
09-Sep-17 22:00:00	09-Sep-17 23:00:00		12.38	0.00	0.00	5.55	2.1	329.7		4.08	0.00	0.00	1.83		10.35	18.92	83.84	86.68	09-Sep-17 22:00:00		14.43	18.92	83.84	88.51
09-Sep-17 23:00:00	10-Sep-17 00:00:00		1.02	0.00	0.00	5.72	2.1	329.7		0.34	0.00	0.00	1.89		10.35	18.92	83.84	86.68	09-Sep-17 23:00:00		10.69	18.92	83.84	88.57
10-Sep-17 00:00:00	10-Sep-17 01:00:00		0.73	0.00	0.00	5.81	2.1	329.7		0.24	0.00	0.00	1.92		10.35	18.92	83.84	86.68	10-Sep-17 00:00:00		10.59	18.92	83.84	88.60
10-Sep-17 01:00:00	10-Sep-17 02:00:00		0.43	0.00	0.00	5.87	2.1	329.7		0.14	0.00	0.00	1.93		10.35	18.92	83.84	86.68	10-Sep-17 01:00:00		10.49	18.92	83.84	88.61
10-Sep-17 02:00:00	10-Sep-17 03:00:00		0.14	0.00	0.00	5.94	2.1	329.7		0.05	0.00	0.00	1.96		10.35	18.92	83.84	86.68	10-Sep-17 02:00:00		10.40	18.92	83.84	88.64
10-Sep-17 03:00:00	10-Sep-17 04:00:00		0.00	0.00	0.00	6.02	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	10-Sep-17 03:00:00		10.35	18.92	83.84	88.67
10-Sep-17 04:00:00	10-Sep-17 05:00:00		0.00	0.00	0.00	6.22	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	10-Sep-17 04:00:00		10.35	18.92	83.84	88.73
10-Sep-17 05:00:00	10-Sep-17 06:00:00		0.00	0.00	0.00	6.31	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	10-Sep-17 05:00:00		10.35	18.92	83.84	88.76
10-Sep-17 06:00:00	10-Sep-17 07:00:00		0.00	0.00	0.00	6.34	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	10-Sep-17 06:00:00		10.35	18.92	83.84	88.77
10-Sep-17 07:00:00	10-Sep-17 08:00:00		0.00	0.00	0.00	6.36	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	10-Sep-17 07:00:00		10.35	18.92	83.84	88.78
10-Sep-17 08:00:00	10-Sep-17 09:00:00		0.00	0.00	0.00	6.43	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	10-Sep-17 08:00:00		10.35	18.92	83.84	88.80
10-Sep-17 09:00:00	10-Sep-17 10:00:00		0.00	0.00	0.00	6.35	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	10-Sep-17 09:00:00		10.35	18.92	83.84	88.77
10-Sep-17 10:00:00	10-Sep-17 11:00:00		0.00	0.00	0.00	6.21	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	10-Sep-17 10:00:00		10.35	18.92	83.84	88.73
10-Sep-17 11:00:00	10-Sep-17 12:00:00		0.00	0.00	0.00	6.08	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	10-Sep-17 11:00:00		10.35	18.92	83.84	88.68
10-Sep-17 12:00:00	10-Sep-17 13:00:00		0.00	0.00	0.00	5.87	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	10-Sep-17 12:00:00		10.35	18.92	83.84	88.62
10-Sep-17 13:00:00	10-Sep-17 14:00:00		0.00	0.00	0.00	5.68	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	10-Sep-17 13:00:00		10.35	18.92	83.84	88.55
10-Sep-17 14:00:00	10-Sep-17 15:00:00		0.00	0.00	0.00	5.51	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	10-Sep-17 14:00:00		10.35	18.92	83.84	88.50
10-Sep-17 15:00:00	10-Sep-17 16:00:00		0.00	0.00	0.00	5.35	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	10-Sep-17 15:00:00		10.35	18.92	83.84	88.44
10-Sep-17 16:00:00	10-Sep-17 17:00:00		0.00	0.00	0.00	5.25	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	10-Sep-17 16:00:00		10.35	18.92	83.84	88.41
10-Sep-17 17:00:00	10-Sep-17 18:00:00		0.00	0.00	0.00	5.34	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	10-Sep-17 17:00:00		10.35	18.92	83.84	88.44
10-Sep-17 18:00:00	10-Sep-17 19:00:00		0.00	0.00	0.00	5.43	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	10-Sep-17 18:00:00		10.35	18.92	83.84	88.47
10-Sep-17 19:00:00	10-Sep-17 20:00:00		0.00	0.00	0.00	5.53	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	10-Sep-17 19:00:00		10.35	18.92	83.84	88.50
10-Sep-17 20:00:00	10-Sep-17 21:00:00		0.00	0.00	0.00	5.55	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	10-Sep-17 20:00:00		10.35	18.92	83.84	88.51
10-Sep-17 21:00:00	10-Sep-17 22:00:00		0.00	0.00	0.00	5.58	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	10-Sep-17 21:00:00		10.35	18.92	83.84	88.52
10-Sep-17 22:00:00	10-Sep-17 23:00:00		0.00	0.00	0.00	5.65	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	10-Sep-17 22:00:00		10.35	18.92	83.84	88.54
10-Sep-17 23:00:00	11-Sep-17 00:00:00		0.00	0.00	0.00	5.71	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	10-Sep-17 23:00:00		10.35	18.92	83.84	88.56
11-Sep-17 00:00:00	11-Sep-17 01:00:00		0.00	0.00	0.00	5.73	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	11-Sep-17 00:00:00		10.35	18.92	83.84	88.57
11-Sep-17 01:00:00	11-Sep-17 02:00:00		0.00	0.00	0.00	5.73	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	11-Sep-17 01:00:00		10.35	18.92	83.84	88.57
11-Sep-17 02:00:00	11-Sep-17 03:00:00		0.00	0.00	0.00	5.74	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	11-Sep-17 02:00:00		10.35	18.92	83.84	88.57
11-Sep-17 03:00:00	11-Sep-17 04:00:00		0.00	0.00	0.00	5.76	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	11-Sep-17 03:00:00		10.35	18.92	83.84	88.58
11-Sep-17 04:00:00	11-Sep-17 05:00:00		0.00	0.00	0.00	5.83	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	11-Sep-17 04:00:00		10.35	18.92	83.84	88.60
11-Sep-17 05:00:00	11-Sep-17 06:00:00		0.00	0.00	0.00	5.84	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	11-Sep-17 05:00:00		10.35	18.92	83.84	88.61
11-Sep-17 06:00:00	11-Sep-17 07:00:00		0.00	0.00	0.00	5.82	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	11-Sep-17 06:00:00		10.35	18.92	83.84	88.60
11-Sep-17 07:00:00	11-Sep-17 08:00:00		0.00	0.00	0.00	5.80	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	11-Sep-17 07:00:00		10.35	18.92	83.84	88.59
11-Sep-17 08:00:00	11-Sep-17 09:00:00		0.00	0.00	0.00	5.85	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	11-Sep-17 08:00:00		10.35	18.92	83.84	88.61
11-Sep-17 09:00:00	11-Sep-17 10:00:00		0.00	0.00	0.00	5.89	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	11-Sep-17 09:00:00		10.35	18.92	83.84	88.62
11-Sep-17 10:00:00	11-Sep-17 11:00:00		0.00	0.00	0.00	5.89	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	11-Sep-17 10:00:00		10.35	18.92	83.84	88.62
11-Sep-17 11:00:00	11-Sep-17 12:00:00		0.00	0.00	0.00	5.90	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	11-Sep-17 11:00:00		10.35	18.92	83.84	88.62
11-Sep-17 12:00:00	11-Sep-17 13:00:00		0.00	0.00	0.00	5.97	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	11-Sep-17 12:00:00		10.35	18.92	83.84	88.65
11-Sep-17 13:00:00	11-Sep-17 14:00:00		0.00	0.00	0.00	6.07	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	11-Sep-17 13:00:00		10.35	18.92	83.84	88.68
11-Sep-17 14:00:00	11-Sep-17 15:00:00		0.00	0.00	0.00	6.13	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	11-Sep-17 14:00:00		10.35	18.92	83.84	88.70
11-Sep-17 15:00:00	11-Sep-17 16:00:00		0.00	0.00	0.00	6.19	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	11-Sep-17 15:00:00		10.35	18.92	83.84	88.72
11-Sep-17 16:00:00	11-Sep-17 17:00:00		0.00	0.00	0.00	6.25	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	11-Sep-17 16:00:00		10.35	18.92	83.84	88.74
11-Sep-17 17:00:00	11-Sep-17 18:00:00		0.00	0.00	0.00	6.23	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	11-Sep-17 17:00:00		10.35	18.92	83.84	88.73
11-Sep-17 18:00:00	11-Sep-17 19:00:00		0.00	0.00	0.00	6.19	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	11-Sep-17 18:00:00		10.35	18.92	83.84	88.72
11-Sep-17 19:00:00	11-Sep-17 20:00:00		0.00	0.00	0.00	6.15	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	11-Sep-17 19:00:00		10.35	18.92	83.84	88.71
11-Sep-17 20:00:00	11-Sep-17 21:00:00		0.00	0.00	0.00	6.06	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	11-Sep-17 20:00:00		10.35	18.92	83.84	88.68
11-Sep-17 21:00:00	11-Sep-17 22:00:00		0.00	0.00	0.00	6.01	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	11-Sep-17 21:00:00		10.35	18.92	83.84	88.66
11-Sep-17 22:00:00	11-Sep-17 23:00:00		0.00	0.00	35.79	6.01	2.1	329.7		0.00	0.00	11.80	1.98		10.35	18.92	83.84	86.68	11-Sep-17 22:00:00		10.35	18.92	95.64	88.66
11-Sep-17 23:00:00	12-Sep-17 00:00:00		0.00	0.00	16.36	6.01	2.1	329.7		0.00	0.00	5.39	1.98		10.35	18.92	83.84	86.68	11-Sep-17 23:00:00		10.35	18.92	89.23	88.66
12-Sep-17 00:00:00	12-Sep-17 01:00:00		0.00	0.00	0.00	6.24	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	12-Sep-17 00:00:00		10.35	18.92	83.84	88.74
12-Sep-17 01:00:00	12-Sep-17 02:00:00		0.00	0.00	0.00	5.72	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	12-Sep-17 01:00:00		10.35	18.92	83.84	88.57
12-Sep-17 02:00:00	12-Sep-17 03:00:00		0.00	0.00	115.92	5.75	2.1	329.7		0.00	0.00	38.22	1.90		10.35	18.92	83.84	86.68	12-Sep-17 02:00:00		10.35	18.92	122.06	88.58
12-Sep-17 03:00:00	12-Sep-17 04:00:00		0.00	0.78	374.03	5.78	2.1	329.7		0.00	0.26	123.32	1.90		10.35	18.92	83.84	86.68	12-Sep-17 03:00:00		10.35	19.18	207.16	88.58
12-Sep-17 04:00:00	12-Sep-17 05:00:00		0.00	0.00	344.90	21.49

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
14-Sep-17 06:00:00	14-Sep-17 07:00:00		5.79	0.00	0.00	5.04	2.1	329.7		1.91	0.00	0.00	1.66		10.35	18.92	83.84	86.68	14-Sep-17 06:00:00		**12.26**	**18.92**	**83.84**	**88.34**
14-Sep-17 07:00:00	14-Sep-17 08:00:00		0.00	0.00	0.00	5.08	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	14-Sep-17 07:00:00		**10.35**	**18.92**	**83.84**	**88.35**
14-Sep-17 08:00:00	14-Sep-17 09:00:00		0.00	0.00	0.00	20.46	2.1	329.7		0.00	0.00	0.00	6.75		10.35	18.92	83.84	86.68	14-Sep-17 08:00:00		**10.35**	**18.92**	**83.84**	**93.43**
14-Sep-17 09:00:00	14-Sep-17 10:00:00		0.00	7.20	0.00	5.07	2.1	329.7		0.00	2.38	0.00	1.67		10.35	18.92	83.84	86.68	14-Sep-17 09:00:00		**10.35**	**21.30**	**83.84**	**88.35**
14-Sep-17 10:00:00	14-Sep-17 11:00:00		0.00	0.00	0.00	4.90	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	14-Sep-17 10:00:00		**10.35**	**18.92**	**83.84**	**88.29**
14-Sep-17 11:00:00	14-Sep-17 12:00:00		0.00	0.00	0.00	4.73	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	14-Sep-17 11:00:00		**10.35**	**18.92**	**83.84**	**88.24**
14-Sep-17 12:00:00	14-Sep-17 13:00:00		19.27	0.00	0.00	4.57	2.1	329.7		6.35	0.00	0.00	1.51		10.35	18.92	83.84	86.68	14-Sep-17 12:00:00		**16.70**	**18.92**	**83.84**	**88.19**
14-Sep-17 13:00:00	14-Sep-17 14:00:00		28.09	0.00	0.00	4.56	2.1	329.7		9.26	0.00	0.00	1.50		10.35	18.92	83.84	86.68	14-Sep-17 13:00:00		**19.61**	**18.92**	**83.84**	**88.18**
14-Sep-17 14:00:00	14-Sep-17 15:00:00		41.50	0.00	0.00	4.98	2.1	329.7		13.68	0.00	0.00	1.64		10.35	18.92	83.84	86.68	14-Sep-17 14:00:00		**24.03**	**18.92**	**83.84**	**88.32**
14-Sep-17 15:00:00	14-Sep-17 16:00:00		35.34	0.00	0.00	4.67	2.1	329.7		11.65	0.00	0.00	1.54		10.35	18.92	83.84	86.68	14-Sep-17 15:00:00		**22.00**	**18.92**	**83.84**	**88.22**
14-Sep-17 16:00:00	14-Sep-17 17:00:00		39.56	0.00	0.00	4.59	2.1	329.7		13.04	0.00	0.00	1.51		10.35	18.92	83.84	86.68	14-Sep-17 16:00:00		**23.39**	**18.92**	**83.84**	**88.19**
14-Sep-17 17:00:00	14-Sep-17 18:00:00		64.22	0.00	0.00	4.52	2.1	329.7		21.17	0.00	0.00	1.49		10.35	18.92	83.84	86.68	14-Sep-17 17:00:00		**31.52**	**18.92**	**83.84**	**88.17**
14-Sep-17 18:00:00	14-Sep-17 19:00:00		80.50	0.00	0.00	4.45	2.1	329.7		26.54	0.00	0.00	1.47		10.35	18.92	83.84	86.68	14-Sep-17 18:00:00		**36.89**	**18.92**	**83.84**	**88.15**
14-Sep-17 19:00:00	14-Sep-17 20:00:00		77.03	0.00	0.00	4.47	2.1	329.7		25.40	0.00	0.00	1.47		10.35	18.92	83.84	86.68	14-Sep-17 19:00:00		**35.75**	**18.92**	**83.84**	**88.15**
14-Sep-17 20:00:00	14-Sep-17 21:00:00		47.12	0.00	0.00	4.60	2.1	329.7		15.54	0.00	0.00	1.52		10.35	18.92	83.84	86.68	14-Sep-17 20:00:00		**25.89**	**18.92**	**83.84**	**88.20**
14-Sep-17 21:00:00	14-Sep-17 22:00:00		25.33	0.00	0.00	4.73	2.1	329.7		8.35	0.00	0.00	1.56		10.35	18.92	83.84	86.68	14-Sep-17 21:00:00		**18.70**	**18.92**	**83.84**	**88.24**
14-Sep-17 22:00:00	14-Sep-17 23:00:00		69.31	0.00	0.00	16.88	2.1	329.7		22.85	0.00	0.00	5.57		10.35	18.92	83.84	86.68	14-Sep-17 22:00:00		**33.20**	**18.92**	**83.84**	**92.25**
14-Sep-17 23:00:00	15-Sep-17 00:00:00		21.71	0.00	0.00	4.89	2.1	329.7		7.16	0.00	0.00	1.61		10.35	18.92	83.84	86.68	14-Sep-17 23:00:00		**17.51**	**18.92**	**83.84**	**88.29**
15-Sep-17 00:00:00	15-Sep-17 01:00:00		28.25	0.00	0.00	5.03	2.1	329.7		9.31	0.00	0.00	1.66		10.35	18.92	83.84	86.68	15-Sep-17 00:00:00		**19.66**	**18.92**	**83.84**	**88.34**
15-Sep-17 01:00:00	15-Sep-17 02:00:00		11.99	0.00	0.00	5.16	2.1	329.7		3.95	0.00	0.00	1.70		10.35	18.92	83.84	86.68	15-Sep-17 01:00:00		**14.30**	**18.92**	**83.84**	**88.38**
15-Sep-17 02:00:00	15-Sep-17 03:00:00		19.82	0.00	0.00	5.19	2.1	329.7		6.53	0.00	0.00	1.71		10.35	18.92	83.84	86.68	15-Sep-17 02:00:00		**16.88**	**18.92**	**83.84**	**88.39**
15-Sep-17 03:00:00	15-Sep-17 04:00:00		8.36	0.00	0.00	5.23	2.1	329.7		2.76	0.00	0.00	1.73		10.35	18.92	83.84	86.68	15-Sep-17 03:00:00		**13.11**	**18.92**	**83.84**	**88.41**
15-Sep-17 04:00:00	15-Sep-17 05:00:00		0.82	0.00	0.00	5.29	2.1	329.7		0.27	0.00	0.00	1.74		10.35	18.92	83.84	86.68	15-Sep-17 04:00:00		**10.62**	**18.92**	**83.84**	**88.42**
15-Sep-17 05:00:00	15-Sep-17 06:00:00		0.00	0.00	0.00	5.34	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	15-Sep-17 05:00:00		**10.35**	**18.92**	**83.84**	**88.44**
15-Sep-17 06:00:00	15-Sep-17 07:00:00		0.00	0.00	0.00	5.46	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	15-Sep-17 06:00:00		**10.35**	**18.92**	**83.84**	**88.48**
15-Sep-17 07:00:00	15-Sep-17 08:00:00		0.00	0.00	0.00	14.09	2.1	329.7		0.00	0.00	0.00	4.64		10.35	18.92	83.84	86.68	15-Sep-17 07:00:00		**10.35**	**18.92**	**83.84**	**91.32**
15-Sep-17 08:00:00	15-Sep-17 09:00:00		0.00	0.00	0.00	9.26	2.1	329.7		0.00	0.00	0.00	3.05		10.35	18.92	83.84	86.68	15-Sep-17 08:00:00		**10.35**	**18.92**	**83.84**	**89.73**
15-Sep-17 09:00:00	15-Sep-17 10:00:00		0.00	0.00	0.00	5.04	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	15-Sep-17 09:00:00		**10.35**	**18.92**	**83.84**	**88.34**
15-Sep-17 10:00:00	15-Sep-17 11:00:00		5.23	0.00	0.00	12.97	2.1	329.7		1.72	0.00	0.00	4.27		10.35	18.92	83.84	86.68	15-Sep-17 10:00:00		**12.07**	**18.92**	**83.84**	**90.95**
15-Sep-17 11:00:00	15-Sep-17 12:00:00		10.52	0.00	0.00	4.59	2.1	329.7		3.47	0.00	0.00	1.51		10.35	18.92	83.84	86.68	15-Sep-17 11:00:00		**13.82**	**18.92**	**83.84**	**88.19**
15-Sep-17 12:00:00	15-Sep-17 13:00:00		55.45	0.00	0.00	4.52	2.1	329.7		18.28	0.00	0.00	1.49		10.35	18.92	83.84	86.68	15-Sep-17 12:00:00		**28.63**	**18.92**	**83.84**	**88.17**
15-Sep-17 13:00:00	15-Sep-17 14:00:00		76.31	0.00	0.00	4.45	2.1	329.7		25.16	0.00	0.00	1.47		10.35	18.92	83.84	86.68	15-Sep-17 13:00:00		**35.51**	**18.92**	**83.84**	**88.15**
15-Sep-17 14:00:00	15-Sep-17 15:00:00		59.61	0.00	0.00	4.38	2.1	329.7		19.65	0.00	0.00	1.44		10.35	18.92	83.84	86.68	15-Sep-17 14:00:00		**30.00**	**18.92**	**83.84**	**88.12**
15-Sep-17 15:00:00	15-Sep-17 16:00:00		6.04	0.00	0.00	4.29	2.1	329.7		1.99	0.00	0.00	1.41		10.35	18.92	83.84	86.68	15-Sep-17 15:00:00		**12.34**	**18.92**	**83.84**	**88.09**
15-Sep-17 16:00:00	15-Sep-17 17:00:00		1.18	0.00	0.00	4.18	2.1	329.7		0.39	0.00	0.00	1.38		10.35	18.92	83.84	86.68	15-Sep-17 16:00:00		**10.74**	**18.92**	**83.84**	**88.06**
15-Sep-17 17:00:00	15-Sep-17 18:00:00		6.18	0.00	0.00	15.70	2.1	329.7		2.04	0.00	0.00	5.18		10.35	18.92	83.84	86.68	15-Sep-17 17:00:00		**12.39**	**18.92**	**83.84**	**91.86**
15-Sep-17 18:00:00	15-Sep-17 19:00:00		4.75	0.00	0.00	4.19	2.1	329.7		1.57	0.00	0.00	1.38		10.35	18.92	83.84	86.68	15-Sep-17 18:00:00		**11.92**	**18.92**	**83.84**	**88.06**
15-Sep-17 19:00:00	15-Sep-17 20:00:00		1.59	0.00	0.00	4.36	2.1	329.7		0.52	0.00	0.00	1.44		10.35	18.92	83.84	86.68	15-Sep-17 19:00:00		**10.87**	**18.92**	**83.84**	**88.12**
15-Sep-17 20:00:00	15-Sep-17 21:00:00		0.59	0.00	0.00	4.52	2.1	329.7		0.19	0.00	0.00	1.49		10.35	18.92	83.84	86.68	15-Sep-17 20:00:00		**10.54**	**18.92**	**83.84**	**88.17**
15-Sep-17 21:00:00	15-Sep-17 22:00:00		10.19	0.00	0.00	4.67	2.1	329.7		3.36	0.00	0.00	1.54		10.35	18.92	83.84	86.68	15-Sep-17 21:00:00		**13.71**	**18.92**	**83.84**	**88.22**
15-Sep-17 22:00:00	15-Sep-17 23:00:00		33.85	0.00	0.00	4.78	2.1	329.7		11.16	0.00	0.00	1.58		10.35	18.92	83.84	86.68	15-Sep-17 22:00:00		**21.51**	**18.92**	**83.84**	**88.26**
15-Sep-17 23:00:00	16-Sep-17 00:00:00		69.46	0.00	0.00	4.89	2.1	329.7		22.90	0.00	0.00	1.61		10.35	18.92	83.84	86.68	15-Sep-17 23:00:00		**33.25**	**18.92**	**83.84**	**88.29**
16-Sep-17 00:00:00	16-Sep-17 01:00:00		73.22	0.00	0.00	5.01	2.1	329.7		24.14	0.00	0.00	1.65		10.35	18.92	83.84	86.68	16-Sep-17 00:00:00		**34.49**	**18.92**	**83.84**	**88.33**
16-Sep-17 01:00:00	16-Sep-17 02:00:00		39.98	0.00	0.00	5.13	2.1	329.7		13.18	0.00	0.00	1.69		10.35	18.92	83.84	86.68	16-Sep-17 01:00:00		**23.53**	**18.92**	**83.84**	**88.37**
16-Sep-17 02:00:00	16-Sep-17 03:00:00		14.10	0.00	0.00	5.21	2.1	329.7		4.65	0.00	0.00	1.72		10.35	18.92	83.84	86.68	16-Sep-17 02:00:00		**15.00**	**18.92**	**83.84**	**88.40**
16-Sep-17 03:00:00	16-Sep-17 04:00:00		16.31	0.00	0.00	5.24	2.1	329.7		5.38	0.00	0.00	1.73		10.35	18.92	83.84	86.68	16-Sep-17 03:00:00		**15.73**	**18.92**	**83.84**	**88.41**
16-Sep-17 04:00:00	16-Sep-17 05:00:00		23.15	0.00	0.00	5.26	2.1	329.7		7.63	0.00	0.00	1.74		10.35	18.92	83.84	86.68	16-Sep-17 04:00:00		**17.98**	**18.92**	**83.84**	**88.42**
16-Sep-17 05:00:00	16-Sep-17 06:00:00		15.34	0.00	0.00	5.31	2.1	329.7		5.06	0.00	0.00	1.75		10.35	18.92	83.84	86.68	16-Sep-17 05:00:00		**15.41**	**18.92**	**83.84**	**88.43**
16-Sep-17 06:00:00	16-Sep-17 07:00:00		11.84	0.00	0.00	5.33	2.1	329.7		3.91	0.00	0.00	1.76		10.35	18.92	83.84	86.68	16-Sep-17 06:00:00		**14.26**	**18.92**	**83.84**	**88.44**
16-Sep-17 07:00:00	16-Sep-17 08:00:00		10.52	0.00	0.00	5.31	2.1	329.7		3.47	0.00	0.00	1.75		10.35	18.92	83.84	86.68	16-Sep-17 07:00:00		**13.82**	**18.92**	**83.84**	**88.43**
16-Sep-17 08:00:00	16-Sep-17 09:00:00		8.06	0.00	0.00	5.29	2.1	329.7		2.66	0.00	0.00	1.74		10.35	18.92	83.84	86.68	16-Sep-17 08:00:00		**13.01**	**18.92**	**83.84**	**88.42**
16-Sep-17 09:00:00	16-Sep-17 10:00:00		8.22	0.00	0.00	5.25	2.1	329.7		2.71	0.00	0.00	1.73		10.35	18.92	83.84	86.68	16-Sep-17 09:00:00		**13.06**	**18.92**	**83.84**	**88.41**
16-Sep-17 10:00:00	16-Sep-17 11:00:00		4.46	0.00	0.00	9.50	2.1	329.7		1.47	0.00	0.00	3.13		10.35	18.92	83.84	86.68	16-Sep-17 10:00:00		**11.82**	**18.92**	**83.84**	**89.81**
16-Sep-17 11:00:00	16-Sep-17 12:00:00		19.31	0.00	0.00	4.97	2.1	329.7		6.37	0.00	0.00	1.64		10.35	18.92	83.84	86.68	16-Sep-17 11:00:00		**16.72**	**18.92**	**83.84**	**88.32**
16-Sep-17 12:00:00	16-Sep-17 13:00:00		64.32	0.00	0.00	4.82	2.1	329.7		21.21	0.00	0.00	1.59		10.35	18.92	83.84	86.68	16-Sep-17 12:00:00		**31.56**	**18.92**	**83.84**	**88.27**
16-Sep-17 13:00:00	16-Sep-17 14:00:00		11.53	0.00	0.00	14.57	2.1	329.7		3.80	0.00	0.00	4.80		10.35	18.92	83.84	86.68	16-Sep-17 13:00:00		**14.15**	**18.92**	**83.84**	**91.48**
16-Sep-17 14:00:00	16-Sep-17 15:00:00		6.15	0.00	0.00	4.65	2.1	329.7		2.03	0.00	0.00	1.53		10.35	18.92	83.84	86.68	16-Sep-17 14:00:00		**12.38**	**18.92**	**83.84**	**88.21**
16-Sep-17 15:00:00	16-Sep-17 16:00:00		7.57	0.00	0.00	4.67	2.1	329.7		2.50	0.00	0.00	1.54		10.35	18.92	83.84	86.68	16-Sep-17 15:00:00		**12.85**	**18.92**	**83.84**	**88.22**
16-Sep-17 16:00:00	16-Sep-17 17:00:00		0.80	0.00	0.00	5.97	2.1	329.7		0.26	0.00	0.00	1.97		10.35	18.92	83.84	86.68	16-Sep-17 16:00:00		**10.61**	**18.92**	**83.84**	**88.65**
16-Sep-17 17:00:00	16-Sep-17 18:00:00		0.00	0.00	0.00	4.69	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	16-Sep-17 17:00:00		**10.35**	**18.92**	**83.84**	**88.23**
16-Sep-17 18:00:00	16-Sep-17 19:00:00		0.00	0.00	0.00	4.85	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	16-Sep-17 18:00:00		**10.35**	**18.92**	**83.84**	**88.28**
16-Sep-17 19:00:00	16-Sep-17 20:00:00		0.00	0.00	0.00	5.01	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	16-Sep-17 19:00:00		**10.35**	**18.92**	**83.84**	**88.33**
16-Sep-17 20:00:00	16-Sep-17 21:00:00		0.00	0.00	0.00	5.16	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	16-Sep-17 20:00:00		**10.35**	**18.92**	**83.84**	**88.38**
16-Sep-17 21:00:00	16-Sep-17 22:00:00		4.85	0.00	0.00	5.30	2.1	329.7		1.60	0.00	0.00	1.75		10.35	18.92	83.84	86.68	16-Sep-17 21:00:00		**11.95**	**18.92**	**83.84**	**88.43**
16-Sep-17 22:00:00	16-Sep-17 23:00:00		13.32	0.00	0.00	5.47	2.1	329.7		4.39	0.00	0.00	1.80		10.35	18.92	83.84	86.68	16-Sep-17 22:00:00		**14.74**	**18.92**	**83.84**	**88.48**
16-Sep-17 23:00:00	17-Sep-17 00:00:00		63.30	0.00	0.00	5.64	2.1	329.7		20.87	0.00	0.00	1.86		10.35	18.92	83.84	86.68	16-Sep-17 23:00:00		**31.22**	**18.92**	**83.84**	**88.54**
17-Sep-17 00:00:00	17-Sep-17 01:00:00		66.80	0.00	0.00	5.81	2.1	329.7		22.03	0.00	0.00	1.92		10.35	18.92	83.84	86.68	17-Sep-17 00:00:00		**32.38**	**18.92**	**83.84**	**88.60**
17-Sep-17 01:00:00	17-Sep-17 02:00:00		57.90	0.00	0.00	5.91	2.1	329.7		19.09	0.00	0.00	1.95		10.35	18.92	83.84	86.68	17-Sep-17 01:00:00		**29.44**	**18.92**	**83.84**	**88.63**
17-Sep-17 02:00:00	17-Sep-17 03:00:00		52.85	0.00	0.00	5.95	2.1	329.7		17.43	0.00	0.00	1.96		10.35	18.92	83.84	86.68	17-Sep-17 02:00:00		**27.78**	**18.92**	**83.84**	**88.64**
17-Sep-17 03:00:00	17-Sep-17 04:00:00		44.84	0.00	0.00	5.98	2.1	329.7		14.78	0.00	0.00	1.97		10.35	18.92	83.84	86.68	17-Sep-17 03:00:00		**25.13**	**18.92**	**83.84**	**88.65**
17-Sep-17 04:00:00	17-Sep-17 05:00:00		34.88	0.00	0.00	6.02	2.1	329.7		11.50	0.00	0.00	1.99		10.35	18.92	83.84	86.68	17-Sep-17 04:00:00		**21.85**	**18.92**	**83.84**	**88.67**
17-Sep-17 05:00:00	17-Sep-17 06:00:00		22.54	0.00	0.00	6.02	2.1	329.7		7.43	0.00	0.00	1.98		10.35	18.92	83.84	86.68	17-Sep-17 05:00:00		**17.78**	**18.92**	**83.84**	**88.66**
17-Sep-17 06:00:00	17-Sep-17 07:00:00		11.70	0.00	0.00	5.98	2.1	329.7		3.86	0.00	0.00	1.97		10.35	18.92	83.84	86.68	17-Sep-17 06:00:00		**14.21**	**18.92**	**83.84**	**88.65**
17-Sep-17 07:00:00	17-Sep-17 08:00:00		0.00	0.00	0.00	5.94	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	17-Sep-17 07:00:00		**10.35**	**18.92**	**83.84**	**88.64**
17-Sep-17 08:00:00	17-Sep-17 09:00:00		0.00	0.00	0.00	5.88	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	17-Sep-17 08:00:00		**10.35**	**18.92**	**83.84**	**88.62**
17-Sep-17 09:00:00	17-Sep-17 10:00:00		0.00	0.00	0.00	5.64	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	17-Sep-17 09:00:00		**10.35**	**18.92**	**83.84**	**88.54**
17-Sep-17 10:00:00	17-Sep-17 11:00:00		3.74	0.00	0.00	5.35	2.1	329.7		1.23	0.00	0.00	1.76		10.35	18.92	83.84	86.68	17-Sep-17 10:00:00		**11.58**	**18.92**	**83.84**	**88.44**
17-Sep-17 11:00:00	17-Sep-17 12:00:00		26.63	0.00	0.00	5.06	2.1	329.7		8.78	0.00	0.00	1.67		10.35	18.92	83.84	86.68	17-Sep-17 11:00:00		**19.13**	**18.92**	**83.84**	**88.35**
17-Sep-17 12:00:00	17-Sep-17 13:00:00		70.27	0.00	0.00	13.73	2.1	329.7		23.17	0.00	0.00	4.53		10.35	18.92	83.84	86.68	17-Sep-17 12:00:00		**33.52**	**18.92**	**83.84**	**91.21**
17-Sep-17 13:00:00	17-Sep-17 14:00:00		11.09	0.00	0.00	4.84	2.1	329.7		3.66	0.00	0.00	1.60		10.35	18.92	83.84	86.68	17-Sep-17 13:00:00		**14.01**	**18.92**	**83.84**	**88.28**
17-Sep-17 14:00:00	17-Sep-17 15:00:00		8.29	0.00	0.00	4.73	2.1	329.7		2.73	0.00	0.00	1.56		10.35	18.92	83.84	86.68	17-Sep-17 14:00:00		**13.08**	**18.92**	**83.84**	**88.24**
17-Sep-17 15:00:00	17-Sep-17 16:00:00		0.21	0.00	0.00	5.40	2.1	329.7		0.07	0.00	0.00	1.78		10.35	18.92	83.84	86.68	17-Sep-17 15:00:00		**10.42**	**18.92**	**83.84**	**88.46**
17-Sep-17 16:00:00	17-Sep-17 17:00:00		0.00	0.00	0.00	4.63	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	17-Sep-17 16:00:00		**10.35**	**18.92**	**83.84**	**88.21**
17-Sep-17 17:00:00	17-Sep-17 18:00:00		0.00	0.00	0.00	4.64	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	17-Sep-17 17:00:00		**10.35**	**18.92**	**83.84**	**88.21**
17-Sep-17 18:00:00	17-Sep-17 19:00:00		0.18	0.00	0.00	4.66	2.1	329.7		0.06	0.00	0.00	1.54		10.35	18.92	83.84	86.68	17-Sep-17 18:00:00		**10.41**	**18.92**	**83.84**	**88.22**
17-Sep-17 19:00:00	17-Sep-17 20:00:00		0.00	0.00	0.00	4.75	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	17-Sep-17 19:00:00		**10.35**	**18.92**	**83.84**	**88.25**
17-Sep-17 20:00:00	17-Sep-17 21:00:00		2.69	0.00	0.00	4.98	2.1	329.7		0.89	0.00	0.00	1.64		10.35	18.92	83.84	86.68	17-Sep-17 20:00:00		**11.24**	**18.92**	**83.84**	**88.32**
17-Sep-17 21:00:00	17-Sep-17 22:00:00		15.41	0.00	0.00	16.91	2.1	329.7		5.08	0.00	0.00	5.58		10.35	18.92	83.84	86.68	17-Sep-17 21:00:00		**15.43**	**18.92**	**83.84**	**92.26**
17-Sep-17 22:00:00	17-Sep-17 23:00:00		51.51	0.00	0.00	5.50	2.1	329.7		16.98	0.00	0.00	1.81		10.35	18.92	83.84	86.68	17-Sep-17 22:00:00		**27.33**	**18.92**	**83.84**	**88.49**
17-Sep-17 23:00:00	18-Sep-17 00:00:00		55.26	0.00	0.00	5.66	2.1	329.7		18.22	0.00	0.00	1.87		10.35	18.92	83.84	86.68	17-Sep-17 23:00:00		**28.57**	**18.92**	**83.84**	**88.55**
18-Sep-17 00:00:00	18-Sep-17 01:00:00		53.00	0.00	0.00	14.49	2.1	329.7		17.47	0.00	0.00	4.78		10.35	18.92	83.84	86.68	18-Sep-17 00:00:00		**27.82**	**18.92**	**83.84**	**91.46**
18-Sep-17 01:00:00	18-Sep-17 02:00:00		73.91	0.00	0.00	5.86	2.1	329.7		24.37	0.00	0.00	1.93		10.35	18.92	83.84	86.68	18-Sep-17 01:00:00		**34.72**	**18.92**	**83.84**	**88.61**
18-Sep-17 02:00:00	18-Sep-17 03:00:00		48.98	0.00	0.00	5.86	2.1	329.7		16.15	0.00	0.00	1.93		10.35	18.92	83.84	86.68	18-Sep-17 02:00:00		**26.50**	**18.92**	**83.84**	**88.61**
18-Sep-17 03:00:00	18-Sep-17 04:00:00		55.10	0.00	0.00	5.86

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
20-Sep-17 05:00:00	20-Sep-17 06:00:00		26.29	0.00	0.00	5.92	2.1	329.7		8.67	0.00	0.00	1.95		10.35	18.92	83.84	86.68	20-Sep-17 05:00:00		**19.02**	**18.92**	**83.84**	**88.63**
20-Sep-17 06:00:00	20-Sep-17 07:00:00		0.16	0.00	0.00	5.93	2.1	329.7		0.05	0.00	0.00	1.95		10.35	18.92	83.84	86.68	20-Sep-17 06:00:00		**10.40**	**18.92**	**83.84**	**88.63**
20-Sep-17 07:00:00	20-Sep-17 08:00:00		8.53	0.00	0.00	5.94	2.1	329.7		2.81	0.00	0.00	1.96		10.35	18.92	83.84	86.68	20-Sep-17 07:00:00		**13.16**	**18.92**	**83.84**	**88.64**
20-Sep-17 08:00:00	20-Sep-17 09:00:00		9.94	0.00	0.00	5.91	2.1	329.7		3.28	0.00	0.00	1.95		10.35	18.92	83.84	86.68	20-Sep-17 08:00:00		**13.63**	**18.92**	**83.84**	**88.63**
20-Sep-17 09:00:00	20-Sep-17 10:00:00		9.00	0.00	0.00	5.65	2.1	329.7		2.97	0.00	0.00	1.86		10.35	18.92	83.84	86.68	20-Sep-17 09:00:00		**13.32**	**18.92**	**83.84**	**88.54**
20-Sep-17 10:00:00	20-Sep-17 11:00:00		16.72	0.00	0.00	5.38	2.1	329.7		5.51	0.00	0.00	1.77		10.35	18.92	83.84	86.68	20-Sep-17 10:00:00		**15.86**	**18.92**	**83.84**	**88.45**
20-Sep-17 11:00:00	20-Sep-17 12:00:00		55.73	0.00	0.00	5.10	2.1	329.7		18.37	0.00	0.00	1.68		10.35	18.92	83.84	86.68	20-Sep-17 11:00:00		**28.72**	**18.92**	**83.84**	**88.36**
20-Sep-17 12:00:00	20-Sep-17 13:00:00		15.26	0.00	0.00	4.83	2.1	329.7		5.03	0.00	0.00	1.59		10.35	18.92	83.84	86.68	20-Sep-17 12:00:00		**15.38**	**18.92**	**83.84**	**88.27**
20-Sep-17 13:00:00	20-Sep-17 14:00:00		3.92	0.00	0.00	4.72	2.1	329.7		1.29	0.00	0.00	1.56		10.35	18.92	83.84	86.68	20-Sep-17 13:00:00		**11.64**	**18.92**	**83.84**	**88.24**
20-Sep-17 14:00:00	20-Sep-17 15:00:00		13.15	0.00	0.00	4.70	2.1	329.7		4.34	0.00	0.00	1.55		10.35	18.92	83.84	86.68	20-Sep-17 14:00:00		**14.69**	**18.92**	**83.84**	**88.23**
20-Sep-17 15:00:00	20-Sep-17 16:00:00		9.98	0.00	0.00	4.67	2.1	329.7		3.29	0.00	0.00	1.54		10.35	18.92	83.84	86.68	20-Sep-17 15:00:00		**13.64**	**18.92**	**83.84**	**88.22**
20-Sep-17 16:00:00	20-Sep-17 17:00:00		0.18	0.00	0.00	4.63	2.1	329.7		0.06	0.00	0.00	1.53		10.35	18.92	83.84	86.68	20-Sep-17 16:00:00		**10.41**	**18.92**	**83.84**	**88.21**
20-Sep-17 17:00:00	20-Sep-17 18:00:00		4.87	0.00	0.00	4.64	2.1	329.7		1.61	0.00	0.00	1.53		10.35	18.92	83.84	86.68	20-Sep-17 17:00:00		**11.96**	**18.92**	**83.84**	**88.21**
20-Sep-17 18:00:00	20-Sep-17 19:00:00		12.81	0.00	0.00	4.77	2.1	329.7		4.22	0.00	0.00	1.57		10.35	18.92	83.84	86.68	20-Sep-17 18:00:00		**14.57**	**18.92**	**83.84**	**88.25**
20-Sep-17 19:00:00	20-Sep-17 20:00:00		13.35	0.00	0.00	4.90	2.1	329.7		4.40	0.00	0.00	1.62		10.35	18.92	83.84	86.68	20-Sep-17 19:00:00		**14.75**	**18.92**	**83.84**	**88.30**
20-Sep-17 20:00:00	20-Sep-17 21:00:00		7.44	0.00	0.00	5.04	2.1	329.7		2.45	0.00	0.00	1.66		10.35	18.92	83.84	86.68	20-Sep-17 20:00:00		**12.80**	**18.92**	**83.84**	**88.34**
20-Sep-17 21:00:00	20-Sep-17 22:00:00		3.75	0.00	0.00	5.11	2.1	329.7		1.24	0.00	0.00	1.69		10.35	18.92	83.84	86.68	20-Sep-17 21:00:00		**11.59**	**18.92**	**83.84**	**88.37**
20-Sep-17 22:00:00	20-Sep-17 23:00:00		12.80	0.00	0.00	5.14	2.1	329.7		4.22	0.00	0.00	1.70		10.35	18.92	83.84	86.68	20-Sep-17 22:00:00		**14.57**	**18.92**	**83.84**	**88.38**
20-Sep-17 23:00:00	21-Sep-17 00:00:00		22.96	0.00	0.00	5.17	2.1	329.7		7.57	0.00	0.00	1.70		10.35	18.92	83.84	86.68	20-Sep-17 23:00:00		**17.92**	**18.92**	**83.84**	**88.38**
21-Sep-17 00:00:00	21-Sep-17 01:00:00		16.22	0.00	0.00	5.20	2.1	329.7		5.35	0.00	0.00	1.71		10.35	18.92	83.84	86.68	21-Sep-17 00:00:00		**15.70**	**18.92**	**83.84**	**88.39**
21-Sep-17 01:00:00	21-Sep-17 02:00:00		22.35	0.00	0.00	5.17	2.1	329.7		7.37	0.00	0.00	1.70		10.35	18.92	83.84	86.68	21-Sep-17 01:00:00		**17.72**	**18.92**	**83.84**	**88.38**
21-Sep-17 02:00:00	21-Sep-17 03:00:00		53.97	0.00	0.00	5.09	2.1	329.7		17.79	0.00	0.00	1.68		10.35	18.92	83.84	86.68	21-Sep-17 02:00:00		**28.14**	**18.92**	**83.84**	**88.36**
21-Sep-17 03:00:00	21-Sep-17 04:00:00		43.45	0.00	0.00	5.01	2.1	329.7		14.32	0.00	0.00	1.65		10.35	18.92	83.84	86.68	21-Sep-17 03:00:00		**24.67**	**18.92**	**83.84**	**88.33**
21-Sep-17 04:00:00	21-Sep-17 05:00:00		37.45	0.00	0.00	4.94	2.1	329.7		12.35	0.00	0.00	1.63		10.35	18.92	83.84	86.68	21-Sep-17 04:00:00		**22.70**	**18.92**	**83.84**	**88.31**
21-Sep-17 05:00:00	21-Sep-17 06:00:00		35.39	0.00	0.00	4.95	2.1	329.7		11.67	0.00	0.00	1.63		10.35	18.92	83.84	86.68	21-Sep-17 05:00:00		**22.02**	**18.92**	**83.84**	**88.31**
21-Sep-17 06:00:00	21-Sep-17 07:00:00		43.96	0.00	0.00	4.98	2.1	329.7		14.49	0.00	0.00	1.64		10.35	18.92	83.84	86.68	21-Sep-17 06:00:00		**24.84**	**18.92**	**83.84**	**88.32**
21-Sep-17 07:00:00	21-Sep-17 08:00:00		41.86	0.00	0.00	5.00	2.1	329.7		13.80	0.00	0.00	1.65		10.35	18.92	83.84	86.68	21-Sep-17 07:00:00		**24.15**	**18.92**	**83.84**	**88.33**
21-Sep-17 08:00:00	21-Sep-17 09:00:00		41.13	0.00	0.00	5.02	2.1	329.7		13.56	0.00	0.00	1.65		10.35	18.92	83.84	86.68	21-Sep-17 08:00:00		**23.91**	**18.92**	**83.84**	**88.33**
21-Sep-17 09:00:00	21-Sep-17 10:00:00		48.91	0.00	0.00	4.87	2.1	329.7		16.12	0.00	0.00	1.61		10.35	18.92	83.84	86.68	21-Sep-17 09:00:00		**26.47**	**18.92**	**83.84**	**88.29**
21-Sep-17 10:00:00	21-Sep-17 11:00:00		38.16	0.00	0.00	4.62	2.1	329.7		12.58	0.00	0.00	1.52		10.35	18.92	83.84	86.68	21-Sep-17 10:00:00		**22.93**	**18.92**	**83.84**	**88.20**
21-Sep-17 11:00:00	21-Sep-17 12:00:00		13.83	0.00	0.00	4.36	2.1	329.7		4.56	0.00	0.00	1.44		10.35	18.92	83.84	86.68	21-Sep-17 11:00:00		**14.91**	**18.92**	**83.84**	**88.12**
21-Sep-17 12:00:00	21-Sep-17 13:00:00		18.13	0.00	0.00	4.09	2.1	329.7		5.98	0.00	0.00	1.35		10.35	18.92	83.84	86.68	21-Sep-17 12:00:00		**16.33**	**18.92**	**83.84**	**88.03**
21-Sep-17 13:00:00	21-Sep-17 14:00:00		1.73	0.00	0.00	3.90	2.1	329.7		0.57	0.00	0.00	1.29		10.35	18.92	83.84	86.68	21-Sep-17 13:00:00		**10.92**	**18.92**	**83.84**	**87.97**
21-Sep-17 14:00:00	21-Sep-17 15:00:00		17.25	0.00	0.00	3.83	2.1	329.7		5.69	0.00	0.00	1.26		10.35	18.92	83.84	86.68	21-Sep-17 14:00:00		**16.04**	**18.92**	**83.84**	**87.94**
21-Sep-17 15:00:00	21-Sep-17 16:00:00		0.75	0.00	0.00	3.76	2.1	329.7		0.25	0.00	0.00	1.24		10.35	18.92	83.84	86.68	21-Sep-17 15:00:00		**10.60**	**18.92**	**83.84**	**87.92**
21-Sep-17 16:00:00	21-Sep-17 17:00:00		0.21	0.00	0.00	3.72	2.1	329.7		0.07	0.00	0.00	1.23		10.35	18.92	83.84	86.68	21-Sep-17 16:00:00		**10.42**	**18.92**	**83.84**	**87.91**
21-Sep-17 17:00:00	21-Sep-17 18:00:00		0.00	0.00	0.00	3.95	2.1	329.7		0.00	0.00	0.00	1.30		10.35	18.92	83.84	86.68	21-Sep-17 17:00:00		**10.35**	**18.92**	**83.84**	**87.98**
21-Sep-17 18:00:00	21-Sep-17 19:00:00		0.00	0.00	0.00	4.18	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	21-Sep-17 18:00:00		**10.35**	**18.92**	**83.84**	**88.06**
21-Sep-17 19:00:00	21-Sep-17 20:00:00		0.00	0.00	0.00	4.40	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	21-Sep-17 19:00:00		**10.35**	**18.92**	**83.84**	**88.13**
21-Sep-17 20:00:00	21-Sep-17 21:00:00		0.65	0.00	0.00	4.59	2.1	329.7		0.21	0.00	0.00	1.51		10.35	18.92	83.84	86.68	21-Sep-17 20:00:00		**10.56**	**18.92**	**83.84**	**88.19**
21-Sep-17 21:00:00	21-Sep-17 22:00:00		1.89	0.00	0.00	4.67	2.1	329.7		0.62	0.00	0.00	1.54		10.35	18.92	83.84	86.68	21-Sep-17 21:00:00		**10.97**	**18.92**	**83.84**	**88.22**
21-Sep-17 22:00:00	21-Sep-17 23:00:00		5.24	0.00	0.00	4.93	2.1	329.7		1.73	0.00	0.00	1.62		10.35	18.92	83.84	86.68	21-Sep-17 22:00:00		**12.08**	**18.92**	**83.84**	**88.30**
21-Sep-17 23:00:00	22-Sep-17 00:00:00		13.61	0.00	0.00	5.18	2.1	329.7		4.49	0.00	0.00	1.71		10.35	18.92	83.84	86.68	21-Sep-17 23:00:00		**14.84**	**18.92**	**83.84**	**88.39**
22-Sep-17 00:00:00	22-Sep-17 01:00:00		7.29	0.00	0.00	5.44	2.1	329.7		2.40	0.00	0.00	1.79		10.35	18.92	83.84	86.68	22-Sep-17 00:00:00		**12.75**	**18.92**	**83.84**	**88.47**
22-Sep-17 01:00:00	22-Sep-17 02:00:00		59.69	0.00	0.00	5.54	2.1	329.7		19.68	0.00	0.00	1.83		10.35	18.92	83.84	86.68	22-Sep-17 01:00:00		**30.03**	**18.92**	**83.84**	**88.51**
22-Sep-17 02:00:00	22-Sep-17 03:00:00		48.66	0.00	0.00	5.50	2.1	329.7		16.04	0.00	0.00	1.81		10.35	18.92	83.84	86.68	22-Sep-17 02:00:00		**26.39**	**18.92**	**83.84**	**88.49**
22-Sep-17 03:00:00	22-Sep-17 04:00:00		59.77	0.00	0.00	5.47	2.1	329.7		19.71	0.00	0.00	1.80		10.35	18.92	83.84	86.68	22-Sep-17 03:00:00		**30.06**	**18.92**	**83.84**	**88.48**
22-Sep-17 04:00:00	22-Sep-17 05:00:00		52.53	0.00	0.00	5.44	2.1	329.7		17.32	0.00	0.00	1.79		10.35	18.92	83.84	86.68	22-Sep-17 04:00:00		**27.67**	**18.92**	**83.84**	**88.47**
22-Sep-17 05:00:00	22-Sep-17 06:00:00		55.63	0.00	0.00	5.40	2.1	329.7		18.34	0.00	0.00	1.78		10.35	18.92	83.84	86.68	22-Sep-17 05:00:00		**28.69**	**18.92**	**83.84**	**88.46**
22-Sep-17 06:00:00	22-Sep-17 07:00:00		48.63	0.00	0.00	5.77	2.1	329.7		16.03	0.00	0.00	1.90		10.35	18.92	83.84	86.68	22-Sep-17 06:00:00		**26.38**	**18.92**	**83.84**	**88.58**
22-Sep-17 07:00:00	22-Sep-17 08:00:00		52.59	0.00	0.00	5.37	2.1	329.7		17.34	0.00	0.00	1.77		10.35	18.92	83.84	86.68	22-Sep-17 07:00:00		**27.69**	**18.92**	**83.84**	**88.45**
22-Sep-17 08:00:00	22-Sep-17 09:00:00		28.01	0.00	0.00	5.10	2.1	329.7		9.24	0.00	0.00	1.68		10.35	18.92	83.84	86.68	22-Sep-17 08:00:00		**19.59**	**18.92**	**83.84**	**88.36**
22-Sep-17 09:00:00	22-Sep-17 10:00:00		18.98	0.00	0.00	4.84	2.1	329.7		6.26	0.00	0.00	1.59		10.35	18.92	83.84	86.68	22-Sep-17 09:00:00		**16.61**	**18.92**	**83.84**	**88.27**
22-Sep-17 10:00:00	22-Sep-17 11:00:00		22.32	0.00	0.00	4.57	2.1	329.7		7.36	0.00	0.00	1.51		10.35	18.92	83.84	86.68	22-Sep-17 10:00:00		**17.71**	**18.92**	**83.84**	**88.19**
22-Sep-17 11:00:00	22-Sep-17 12:00:00		40.65	0.00	0.00	4.29	2.1	329.7		13.40	0.00	0.00	1.42		10.35	18.92	83.84	86.68	22-Sep-17 11:00:00		**23.75**	**18.92**	**83.84**	**88.10**
22-Sep-17 12:00:00	22-Sep-17 13:00:00		26.83	0.00	0.00	4.23	2.1	329.7		8.84	0.00	0.00	1.40		10.35	18.92	83.84	86.68	22-Sep-17 12:00:00		**19.19**	**18.92**	**83.84**	**88.08**
22-Sep-17 13:00:00	22-Sep-17 14:00:00		11.32	0.00	0.00	4.17	2.1	329.7		3.73	0.00	0.00	1.37		10.35	18.92	83.84	86.68	22-Sep-17 13:00:00		**14.08**	**18.92**	**83.84**	**88.05**
22-Sep-17 14:00:00	22-Sep-17 15:00:00		15.67	0.00	0.00	4.11	2.1	329.7		5.17	0.00	0.00	1.35		10.35	18.92	83.84	86.68	22-Sep-17 14:00:00		**15.52**	**18.92**	**83.84**	**88.03**
22-Sep-17 15:00:00	22-Sep-17 16:00:00		11.35	0.00	0.00	4.04	2.1	329.7		3.74	0.00	0.00	1.33		10.35	18.92	83.84	86.68	22-Sep-17 15:00:00		**14.09**	**18.92**	**83.84**	**88.01**
22-Sep-17 16:00:00	22-Sep-17 17:00:00		2.78	0.00	0.00	4.06	2.1	329.7		0.92	0.00	0.00	1.34		10.35	18.92	83.84	86.68	22-Sep-17 16:00:00		**11.27**	**18.92**	**83.84**	**88.02**
22-Sep-17 17:00:00	22-Sep-17 18:00:00		0.00	0.00	0.00	4.07	2.1	329.7		0.00	0.00	0.00	1.34		10.35	18.92	83.84	86.68	22-Sep-17 17:00:00		**10.35**	**18.92**	**83.84**	**88.02**
22-Sep-17 18:00:00	22-Sep-17 19:00:00		0.00	0.00	0.00	4.09	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	22-Sep-17 18:00:00		**10.35**	**18.92**	**83.84**	**88.03**
22-Sep-17 19:00:00	22-Sep-17 20:00:00		0.11	0.00	0.00	4.30	2.1	329.7		0.04	0.00	0.00	1.42		10.35	18.92	83.84	86.68	22-Sep-17 19:00:00		**10.39**	**18.92**	**83.84**	**88.10**
22-Sep-17 20:00:00	22-Sep-17 21:00:00		1.64	0.00	0.00	4.55	2.1	329.7		0.54	0.00	0.00	1.50		10.35	18.92	83.84	86.68	22-Sep-17 20:00:00		**10.89**	**18.92**	**83.84**	**88.18**
22-Sep-17 21:00:00	22-Sep-17 22:00:00		12.47	0.00	0.00	4.80	2.1	329.7		4.11	0.00	0.00	1.58		10.35	18.92	83.84	86.68	22-Sep-17 21:00:00		**14.46**	**18.92**	**83.84**	**88.26**
22-Sep-17 22:00:00	22-Sep-17 23:00:00		15.82	0.00	0.00	5.05	2.1	329.7		5.22	0.00	0.00	1.66		10.35	18.92	83.84	86.68	22-Sep-17 22:00:00		**15.57**	**18.92**	**83.84**	**88.34**
22-Sep-17 23:00:00	23-Sep-17 00:00:00		24.70	0.00	0.00	5.16	2.1	329.7		8.14	0.00	0.00	1.70		10.35	18.92	83.84	86.68	22-Sep-17 23:00:00		**18.49**	**18.92**	**83.84**	**88.38**
23-Sep-17 00:00:00	23-Sep-17 01:00:00		66.59	0.00	0.00	5.18	2.1	329.7		21.95	0.00	0.00	1.71		10.35	18.92	83.84	86.68	23-Sep-17 00:00:00		**32.30**	**18.92**	**83.84**	**88.39**
23-Sep-17 01:00:00	23-Sep-17 02:00:00		79.26	0.00	0.00	5.20	2.1	329.7		26.13	0.00	0.00	1.72		10.35	18.92	83.84	86.68	23-Sep-17 01:00:00		**36.48**	**18.92**	**83.84**	**88.40**
23-Sep-17 02:00:00	23-Sep-17 03:00:00		53.34	0.00	0.00	5.23	2.1	329.7		17.58	0.00	0.00	1.72		10.35	18.92	83.84	86.68	23-Sep-17 02:00:00		**27.93**	**18.92**	**83.84**	**88.40**
23-Sep-17 03:00:00	23-Sep-17 04:00:00		44.76	0.00	0.00	5.40	2.1	329.7		14.76	0.00	0.00	1.78		10.35	18.92	83.84	86.68	23-Sep-17 03:00:00		**25.11**	**18.92**	**83.84**	**88.46**
23-Sep-17 04:00:00	23-Sep-17 05:00:00		31.66	0.00	0.00	5.42	2.1	329.7		10.44	0.00	0.00	1.79		10.35	18.92	83.84	86.68	23-Sep-17 04:00:00		**20.79**	**18.92**	**83.84**	**88.47**
23-Sep-17 05:00:00	23-Sep-17 06:00:00		14.41	0.00	0.00	5.44	2.1	329.7		4.75	0.00	0.00	1.79		10.35	18.92	83.84	86.68	23-Sep-17 05:00:00		**15.10**	**18.92**	**83.84**	**88.47**
23-Sep-17 06:00:00	23-Sep-17 07:00:00		25.00	0.00	0.00	5.45	2.1	329.7		8.24	0.00	0.00	1.80		10.35	18.92	83.84	86.68	23-Sep-17 06:00:00		**18.59**	**18.92**	**83.84**	**88.48**
23-Sep-17 07:00:00	23-Sep-17 08:00:00		26.86	0.00	0.00	5.46	2.1	329.7		8.86	0.00	0.00	1.80		10.35	18.92	83.84	86.68	23-Sep-17 07:00:00		**19.21**	**18.92**	**83.84**	**88.48**
23-Sep-17 08:00:00	23-Sep-17 09:00:00		27.95	0.00	0.00	5.08	2.1	329.7		9.22	0.00	0.00	1.68		10.35	18.92	83.84	86.68	23-Sep-17 08:00:00		**19.57**	**18.92**	**83.84**	**88.36**
23-Sep-17 09:00:00	23-Sep-17 10:00:00		27.98	0.00	0.00	4.70	2.1	329.7		9.23	0.00	0.00	1.55		10.35	18.92	83.84	86.68	23-Sep-17 09:00:00		**19.58**	**18.92**	**83.84**	**88.23**
23-Sep-17 10:00:00	23-Sep-17 11:00:00		11.90	0.00	0.00	4.31	2.1	329.7		3.92	0.00	0.00	1.42		10.35	18.92	83.84	86.68	23-Sep-17 10:00:00		**14.27**	**18.92**	**83.84**	**88.10**
23-Sep-17 11:00:00	23-Sep-17 12:00:00		47.40	0.00	0.00	4.20	2.1	329.7		15.63	0.00	0.00	1.38		10.35	18.92	83.84	86.68	23-Sep-17 11:00:00		**25.98**	**18.92**	**83.84**	**88.06**
23-Sep-17 12:00:00	23-Sep-17 13:00:00		21.44	0.00	0.00	4.19	2.1	329.7		7.07	0.00	0.00	1.38		10.35	18.92	83.84	86.68	23-Sep-17 12:00:00		**17.42**	**18.92**	**83.84**	**88.06**
23-Sep-17 13:00:00	23-Sep-17 14:00:00		0.55	0.00	0.00	4.18	2.1	329.7		0.18	0.00	0.00	1.38		10.35	18.92	83.84	86.68	23-Sep-17 13:00:00		**10.53**	**18.92**	**83.84**	**88.06**
23-Sep-17 14:00:00	23-Sep-17 15:00:00		17.07	0.00	0.00	4.17	2.1	329.7		5.63	0.00	0.00	1.37		10.35	18.92	83.84	86.68	23-Sep-17 14:00:00		**15.98**	**18.92**	**83.84**	**88.05**
23-Sep-17 15:00:00	23-Sep-17 16:00:00		8.50	0.00	0.00	4.15	2.1	329.7		2.80	0.00	0.00	1.37		10.35	18.92	83.84	86.68	23-Sep-17 15:00:00		**13.15**	**18.92**	**83.84**	**88.05**
23-Sep-17 16:00:00	23-Sep-17 17:00:00		7.01	0.00	0.00	4.12	2.1	329.7		2.31	0.00	0.00	1.36		10.35	18.92	83.84	86.68	23-Sep-17 16:00:00		**12.66**	**18.92**	**83.84**	**88.04**
23-Sep-17 17:00:00	23-Sep-17 18:00:00		0.00	0.00	0.00	4.60	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	23-Sep-17 17:00:00		**10.35**	**18.92**	**83.84**	**88.20**
23-Sep-17 18:00:00	23-Sep-17 19:00:00		0.00	0.00	0.00	4.30	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	23-Sep-17 18:00:00		**10.35**	**18.92**	**83.84**	**88.10**
23-Sep-17 19:00:00	23-Sep-17 20:00:00		0.00	0.00	0.00	4.53	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	23-Sep-17 19:00:00		**10.35**	**18.92**	**83.84**	**88.17**
23-Sep-17 20:00:00	23-Sep-17 21:00:00		0.00	0.00	0.00	4.76	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	23-Sep-17 20:00:00		**10.35**	**18.92**	**83.84**	**88.25**
23-Sep-17 21:00:00	23-Sep-17 22:00:00		5.31	0.00	0.00	4.97	2.1	329.7		1.75	0.00	0.00	1.64		10.35	18.92	83.84	86.68	23-Sep-17 21:00:00		**12.10**	**18.92**	**83.84**	**88.32**
23-Sep-17 22:00:00	23-Sep-17 23:00:00		29.64	0.00	0.00	5.09	2.1	329.7		9.77	0.00	0.00	1.68		10.35	18.92	83.84	86.68	23-Sep-17 22:00:00		**20.12**	**18.92**	**83.84**	**88.36**
23-Sep-17 23:00:00	24-Sep-17 00:00:00		12.56	0.00	0.00	5.20	2.1	329.7		4.14	0.00	0.00	1.71		10.35	18.92	83.84	86.68	23-Sep-17 23:00:00		**14.49**	**18.92**	**83.84**	**88.39**
24-Sep-17 00:00:00	24-Sep-17 01:00:00		12.58	0.00	0.00	5.30	2.1	329.7		4.15	0.00	0.00	1.75		10.35	18.92	83.84	86.68	24-Sep-17 00:00:00		**14.50**	**18.92**	**83.84**	**88.43**
24-Sep-17 01:00:00	24-Sep-17 02:00:00		41.84	0.00	0.00	5.35	2.1	329.7		13.79	0.00	0.00	1.76		10.35	18.92	83.84	86.68	24-Sep-17 01:00:00		**24.14**	**18.92**	**83.84**	**88.44**
24-Sep-17 02:00:00	24-Sep-17 03:00:00		63.08	0.00	0.00	5.36

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
26-Sep-17 04:00:00	26-Sep-17 05:00:00		1.86	0.00	0.00	4.96	2.1	329.7		0.61	0.00	0.00	1.64		10.35	18.92	83.84	86.68	26-Sep-17 04:00:00		10.96	18.92	83.84	88.32
26-Sep-17 05:00:00	26-Sep-17 06:00:00		1.89	0.00	0.00	4.87	2.1	329.7		0.62	0.00	0.00	1.61		10.35	18.92	83.84	86.68	26-Sep-17 05:00:00		10.97	18.92	83.84	88.29
26-Sep-17 06:00:00	26-Sep-17 07:00:00		1.91	0.00	0.00	4.97	2.1	329.7		0.63	0.00	0.00	1.64		10.35	18.92	83.84	86.68	26-Sep-17 06:00:00		10.98	18.92	83.84	88.32
26-Sep-17 07:00:00	26-Sep-17 08:00:00		8.07	0.00	0.00	5.10	2.1	329.7		2.66	0.00	0.00	1.68		10.35	18.92	83.84	86.68	26-Sep-17 07:00:00		13.01	18.92	83.84	88.36
26-Sep-17 08:00:00	26-Sep-17 09:00:00		29.49	0.00	0.00	5.22	2.1	329.7		9.72	0.00	0.00	1.72		10.35	18.92	83.84	86.68	26-Sep-17 08:00:00		20.07	18.92	83.84	88.40
26-Sep-17 09:00:00	26-Sep-17 10:00:00		0.39	0.00	0.00	5.35	2.1	329.7		0.13	0.00	0.00	1.76		10.35	18.92	83.84	86.68	26-Sep-17 09:00:00		10.48	18.92	83.84	88.44
26-Sep-17 10:00:00	26-Sep-17 11:00:00		6.53	0.00	0.00	5.21	2.1	329.7		2.15	0.00	0.00	1.72		10.35	18.92	83.84	86.68	26-Sep-17 10:00:00		12.50	18.92	83.84	88.40
26-Sep-17 11:00:00	26-Sep-17 12:00:00		41.91	0.00	0.00	4.88	2.1	329.7		13.82	0.00	0.00	1.61		10.35	18.92	83.84	86.68	26-Sep-17 11:00:00		24.17	18.92	83.84	88.29
26-Sep-17 12:00:00	26-Sep-17 13:00:00		51.47	0.00	0.00	4.54	2.1	329.7		16.97	0.00	0.00	1.50		10.35	18.92	83.84	86.68	26-Sep-17 12:00:00		27.32	18.92	83.84	88.18
26-Sep-17 13:00:00	26-Sep-17 14:00:00		17.08	0.00	0.00	4.21	2.1	329.7		5.63	0.00	0.00	1.39		10.35	18.92	83.84	86.68	26-Sep-17 13:00:00		15.98	18.92	83.84	88.07
26-Sep-17 14:00:00	26-Sep-17 15:00:00		18.70	0.00	0.00	4.08	2.1	329.7		6.16	0.00	0.00	1.34		10.35	18.92	83.84	86.68	26-Sep-17 14:00:00		16.51	18.92	83.84	88.02
26-Sep-17 15:00:00	26-Sep-17 16:00:00		14.33	0.00	0.00	4.08	2.1	329.7		4.72	0.00	0.00	1.35		10.35	18.92	83.84	86.68	26-Sep-17 15:00:00		15.07	18.92	83.84	88.03
26-Sep-17 16:00:00	26-Sep-17 17:00:00		5.32	0.00	0.00	4.08	2.1	329.7		1.75	0.00	0.00	1.35		10.35	18.92	83.84	86.68	26-Sep-17 16:00:00		12.10	18.92	83.84	88.03
26-Sep-17 17:00:00	26-Sep-17 18:00:00		1.22	0.00	0.00	4.09	2.1	329.7		0.40	0.00	0.00	1.35		10.35	18.92	83.84	86.68	26-Sep-17 17:00:00		10.75	18.92	83.84	88.03
26-Sep-17 18:00:00	26-Sep-17 19:00:00		13.57	0.00	0.00	4.20	2.1	329.7		4.47	0.00	0.00	1.38		10.35	18.92	83.84	86.68	26-Sep-17 18:00:00		14.82	18.92	83.84	88.06
26-Sep-17 19:00:00	26-Sep-17 20:00:00		22.41	0.00	0.00	4.34	2.1	329.7		7.39	0.00	0.00	1.43		10.35	18.92	83.84	86.68	26-Sep-17 19:00:00		17.74	18.92	83.84	88.11
26-Sep-17 20:00:00	26-Sep-17 21:00:00		4.36	0.00	0.00	4.49	2.1	329.7		1.44	0.00	0.00	1.48		10.35	18.92	83.84	86.68	26-Sep-17 20:00:00		11.79	18.92	83.84	88.16
26-Sep-17 21:00:00	26-Sep-17 22:00:00		12.26	0.00	0.00	4.65	2.1	329.7		4.04	0.00	0.00	1.53		10.35	18.92	83.84	86.68	26-Sep-17 21:00:00		14.39	18.92	83.84	88.21
26-Sep-17 22:00:00	26-Sep-17 23:00:00		5.50	0.00	0.00	4.83	2.1	329.7		1.81	0.00	0.00	1.59		10.35	18.92	83.84	86.68	26-Sep-17 22:00:00		12.16	18.92	83.84	88.27
26-Sep-17 23:00:00	27-Sep-17 00:00:00		17.47	0.00	0.00	4.93	2.1	329.7		5.76	0.00	0.00	1.63		10.35	18.92	83.84	86.68	26-Sep-17 23:00:00		16.11	18.92	83.84	88.31
27-Sep-17 00:00:00	27-Sep-17 01:00:00		51.11	0.00	0.00	5.04	2.1	329.7		16.85	0.00	0.00	1.66		10.35	18.92	83.84	86.68	27-Sep-17 00:00:00		27.20	18.92	83.84	88.34
27-Sep-17 01:00:00	27-Sep-17 02:00:00		67.60	0.00	0.00	5.14	2.1	329.7		22.29	0.00	0.00	1.70		10.35	18.92	83.84	86.68	27-Sep-17 01:00:00		32.64	18.92	83.84	88.38
27-Sep-17 02:00:00	27-Sep-17 03:00:00		49.03	0.00	0.00	5.16	2.1	329.7		16.16	0.00	0.00	1.70		10.35	18.92	83.84	86.68	27-Sep-17 02:00:00		26.51	18.92	83.84	88.38
27-Sep-17 03:00:00	27-Sep-17 04:00:00		29.63	0.00	0.00	5.17	2.1	329.7		9.77	0.00	0.00	1.71		10.35	18.92	83.84	86.68	27-Sep-17 03:00:00		20.12	18.92	83.84	88.39
27-Sep-17 04:00:00	27-Sep-17 05:00:00		0.00	0.00	0.00	5.18	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	27-Sep-17 04:00:00		10.35	18.92	83.84	88.39
27-Sep-17 05:00:00	27-Sep-17 06:00:00		0.00	0.00	0.00	5.19	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	27-Sep-17 05:00:00		10.35	18.92	83.84	88.39
27-Sep-17 06:00:00	27-Sep-17 07:00:00		0.00	0.00	0.00	5.11	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	27-Sep-17 06:00:00		10.35	18.92	83.84	88.37
27-Sep-17 07:00:00	27-Sep-17 08:00:00		2.19	0.00	0.00	4.97	2.1	329.7		0.72	0.00	0.00	1.64		10.35	18.92	83.84	86.68	27-Sep-17 07:00:00		11.07	18.92	83.84	88.32
27-Sep-17 08:00:00	27-Sep-17 09:00:00		4.55	0.00	0.00	4.83	2.1	329.7		1.50	0.00	0.00	1.59		10.35	18.92	83.84	86.68	27-Sep-17 08:00:00		11.85	18.92	83.84	88.27
27-Sep-17 09:00:00	27-Sep-17 10:00:00		0.88	0.00	0.00	4.70	2.1	329.7		0.29	0.00	0.00	1.55		10.35	18.92	83.84	86.68	27-Sep-17 09:00:00		10.64	18.92	83.84	88.23
27-Sep-17 10:00:00	27-Sep-17 11:00:00		0.66	0.00	0.00	4.98	2.1	329.7		0.22	0.00	0.00	1.64		10.35	18.92	83.84	86.68	27-Sep-17 10:00:00		10.57	18.92	83.84	88.32
27-Sep-17 11:00:00	27-Sep-17 12:00:00		28.85	0.00	0.00	4.52	2.1	329.7		9.51	0.00	0.00	1.49		10.35	18.92	83.84	86.68	27-Sep-17 11:00:00		19.86	18.92	83.84	88.17
27-Sep-17 12:00:00	27-Sep-17 13:00:00		12.38	0.00	0.00	4.36	2.1	329.7		4.08	0.00	0.00	1.44		10.35	18.92	83.84	86.68	27-Sep-17 12:00:00		14.43	18.92	83.84	88.12
27-Sep-17 13:00:00	27-Sep-17 14:00:00		18.10	0.00	0.00	4.21	2.1	329.7		5.97	0.00	0.00	1.39		10.35	18.92	83.84	86.68	27-Sep-17 13:00:00		16.32	18.92	83.84	88.07
27-Sep-17 14:00:00	27-Sep-17 15:00:00		2.56	0.00	0.00	4.03	2.1	329.7		0.85	0.00	0.00	1.33		10.35	18.92	83.84	86.68	27-Sep-17 14:00:00		11.20	18.92	83.84	88.01
27-Sep-17 15:00:00	27-Sep-17 16:00:00		2.03	0.00	0.00	3.95	2.1	329.7		0.67	0.00	0.00	1.30		10.35	18.92	83.84	86.68	27-Sep-17 15:00:00		11.02	18.92	83.84	87.98
27-Sep-17 16:00:00	27-Sep-17 17:00:00		9.71	0.00	0.00	3.92	2.1	329.7		3.20	0.00	0.00	1.29		10.35	18.92	83.84	86.68	27-Sep-17 16:00:00		13.55	18.92	83.84	87.97
27-Sep-17 17:00:00	27-Sep-17 18:00:00		12.09	0.00	0.00	3.88	2.1	329.7		3.99	0.00	0.00	1.28		10.35	18.92	83.84	86.68	27-Sep-17 17:00:00		14.34	18.92	83.84	87.96
27-Sep-17 18:00:00	27-Sep-17 19:00:00		11.94	0.00	0.00	3.93	2.1	329.7		3.94	0.00	0.00	1.30		10.35	18.92	83.84	86.68	27-Sep-17 18:00:00		14.29	18.92	83.84	87.98
27-Sep-17 19:00:00	27-Sep-17 20:00:00		6.84	0.00	0.00	4.23	2.1	329.7		2.25	0.00	0.00	1.40		10.35	18.92	83.84	86.68	27-Sep-17 19:00:00		12.60	18.92	83.84	88.08
27-Sep-17 20:00:00	27-Sep-17 21:00:00		2.18	0.00	0.00	4.56	2.1	329.7		0.72	0.00	0.00	1.50		10.35	18.92	83.84	86.68	27-Sep-17 20:00:00		11.07	18.92	83.84	88.18
27-Sep-17 21:00:00	27-Sep-17 22:00:00		18.00	0.00	0.00	4.88	2.1	329.7		5.93	0.00	0.00	1.61		10.35	18.92	83.84	86.68	27-Sep-17 21:00:00		16.28	18.92	83.84	88.29
27-Sep-17 22:00:00	27-Sep-17 23:00:00		21.00	0.00	0.00	5.15	2.1	329.7		6.92	0.00	0.00	1.70		10.35	18.92	83.84	86.68	27-Sep-17 22:00:00		17.27	18.92	83.84	88.38
27-Sep-17 23:00:00	28-Sep-17 00:00:00		38.30	0.00	0.00	5.19	2.1	329.7		12.63	0.00	0.00	1.71		10.35	18.92	83.84	86.68	27-Sep-17 23:00:00		22.98	18.92	83.84	88.39
28-Sep-17 00:00:00	28-Sep-17 01:00:00		34.84	0.00	0.00	5.19	2.1	329.7		11.49	0.00	0.00	1.71		10.35	18.92	83.84	86.68	28-Sep-17 00:00:00		21.84	18.92	83.84	88.39
28-Sep-17 01:00:00	28-Sep-17 02:00:00		34.48	0.00	0.00	5.20	2.1	329.7		11.37	0.00	0.00	1.71		10.35	18.92	83.84	86.68	28-Sep-17 01:00:00		21.72	18.92	83.84	88.39
28-Sep-17 02:00:00	28-Sep-17 03:00:00		32.03	0.00	0.00	5.15	2.1	329.7		10.56	0.00	0.00	1.70		10.35	18.92	83.84	86.68	28-Sep-17 02:00:00		20.91	18.92	83.84	88.38
28-Sep-17 03:00:00	28-Sep-17 04:00:00		31.02	0.00	0.00	23.41	2.1	329.7		10.23	0.00	0.00	7.72		10.35	18.92	83.84	86.68	28-Sep-17 03:00:00		20.58	18.92	83.84	94.40
28-Sep-17 04:00:00	28-Sep-17 05:00:00		33.10	0.00	0.00	4.85	2.1	329.7		10.91	0.00	0.00	1.60		10.35	18.92	83.84	86.68	28-Sep-17 04:00:00		21.26	18.92	83.84	88.28
28-Sep-17 05:00:00	28-Sep-17 06:00:00		18.63	0.00	0.00	4.97	2.1	329.7		6.14	0.00	0.00	1.64		10.35	18.92	83.84	86.68	28-Sep-17 05:00:00		16.49	18.92	83.84	88.32
28-Sep-17 06:00:00	28-Sep-17 07:00:00		8.43	0.00	0.00	5.09	2.1	329.7		2.78	0.00	0.00	1.68		10.35	18.92	83.84	86.68	28-Sep-17 06:00:00		13.13	18.92	83.84	88.36
28-Sep-17 07:00:00	28-Sep-17 08:00:00		13.62	0.00	0.00	5.18	2.1	329.7		4.49	0.00	0.00	1.71		10.35	18.92	83.84	86.68	28-Sep-17 07:00:00		14.84	18.92	83.84	88.39
28-Sep-17 08:00:00	28-Sep-17 09:00:00		12.63	0.00	0.00	5.07	2.1	329.7		4.16	0.00	0.00	1.67		10.35	18.92	83.84	86.68	28-Sep-17 08:00:00		14.51	18.92	83.84	88.35
28-Sep-17 09:00:00	28-Sep-17 10:00:00		15.55	0.00	0.00	8.90	2.1	329.7		5.13	0.00	0.00	2.93		10.35	18.92	83.84	86.68	28-Sep-17 09:00:00		15.48	18.92	83.84	89.61
28-Sep-17 10:00:00	28-Sep-17 11:00:00		18.91	0.00	0.00	4.49	2.1	329.7		6.24	0.00	0.00	1.48		10.35	18.92	83.84	86.68	28-Sep-17 10:00:00		16.59	18.92	83.84	88.16
28-Sep-17 11:00:00	28-Sep-17 12:00:00		7.19	0.00	0.00	4.31	2.1	329.7		2.37	0.00	0.00	1.42		10.35	18.92	83.84	86.68	28-Sep-17 11:00:00		12.72	18.92	83.84	88.10
28-Sep-17 12:00:00	28-Sep-17 13:00:00		32.90	0.00	0.00	4.14	2.1	329.7		10.85	0.00	0.00	1.36		10.35	18.92	83.84	86.68	28-Sep-17 12:00:00		21.20	18.92	83.84	88.04
28-Sep-17 13:00:00	28-Sep-17 14:00:00		18.67	0.00	0.00	4.00	2.1	329.7		6.16	0.00	0.00	1.32		10.35	18.92	83.84	86.68	28-Sep-17 13:00:00		16.51	18.92	83.84	88.00
28-Sep-17 14:00:00	28-Sep-17 15:00:00		13.77	0.00	0.00	4.09	2.1	329.7		4.54	0.00	0.00	1.35		10.35	18.92	83.84	86.68	28-Sep-17 14:00:00		14.89	18.92	83.84	88.03
28-Sep-17 15:00:00	28-Sep-17 16:00:00		7.44	0.00	0.00	20.50	2.1	329.7		2.45	0.00	0.00	6.76		10.35	18.92	83.84	86.68	28-Sep-17 15:00:00		12.80	18.92	83.84	93.44
28-Sep-17 16:00:00	28-Sep-17 17:00:00		0.00	0.00	0.00	4.27	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	28-Sep-17 16:00:00		10.35	18.92	83.84	88.09
28-Sep-17 17:00:00	28-Sep-17 18:00:00		0.00	0.00	0.00	4.35	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	28-Sep-17 17:00:00		10.35	18.92	83.84	88.11
28-Sep-17 18:00:00	28-Sep-17 19:00:00		0.00	0.00	0.00	4.43	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	28-Sep-17 18:00:00		10.35	18.92	83.84	88.14
28-Sep-17 19:00:00	28-Sep-17 20:00:00		0.95	0.00	0.00	4.48	2.1	329.7		0.31	0.00	0.00	1.48		10.35	18.92	83.84	86.68	28-Sep-17 19:00:00		10.66	18.92	83.84	88.16
28-Sep-17 20:00:00	28-Sep-17 21:00:00		7.36	0.00	0.00	5.35	2.1	329.7		2.43	0.00	0.00	1.76		10.35	18.92	83.84	86.68	28-Sep-17 20:00:00		12.78	18.92	83.84	88.44
28-Sep-17 21:00:00	28-Sep-17 22:00:00		23.91	0.00	0.00	4.68	2.1	329.7		7.88	0.00	0.00	1.54		10.35	18.92	83.84	86.68	28-Sep-17 21:00:00		18.23	18.92	83.84	88.22
28-Sep-17 22:00:00	28-Sep-17 23:00:00		47.99	0.00	0.00	4.85	2.1	329.7		15.82	0.00	0.00	1.60		10.35	18.92	83.84	86.68	28-Sep-17 22:00:00		26.17	18.92	83.84	88.28
28-Sep-17 23:00:00	29-Sep-17 00:00:00		50.42	0.00	0.00	5.01	2.1	329.7		16.62	0.00	0.00	1.65		10.35	18.92	83.84	86.68	28-Sep-17 23:00:00		26.97	18.92	83.84	88.33
29-Sep-17 00:00:00	29-Sep-17 01:00:00		36.74	0.00	0.00	5.17	2.1	329.7		12.11	0.00	0.00	1.71		10.35	18.92	83.84	86.68	29-Sep-17 00:00:00		22.46	18.92	83.84	88.39
29-Sep-17 01:00:00	29-Sep-17 02:00:00		36.20	0.00	0.00	5.30	2.1	329.7		11.93	0.00	0.00	1.75		10.35	18.92	83.84	86.68	29-Sep-17 01:00:00		22.28	18.92	83.84	88.43
29-Sep-17 02:00:00	29-Sep-17 03:00:00		30.95	0.00	0.00	5.43	2.1	329.7		10.20	0.00	0.00	1.79		10.35	18.92	83.84	86.68	29-Sep-17 02:00:00		20.55	18.92	83.84	88.47
29-Sep-17 03:00:00	29-Sep-17 04:00:00		44.15	0.00	0.00	5.57	2.1	329.7		14.56	0.00	0.00	1.84		10.35	18.92	83.84	86.68	29-Sep-17 03:00:00		24.91	18.92	83.84	88.52
29-Sep-17 04:00:00	29-Sep-17 05:00:00		69.07	0.00	0.00	5.71	2.1	329.7		22.77	0.00	0.00	1.88		10.35	18.92	83.84	86.68	29-Sep-17 04:00:00		33.12	18.92	83.84	88.56
29-Sep-17 05:00:00	29-Sep-17 06:00:00		67.81	0.00	0.00	5.86	2.1	329.7		22.36	0.00	0.00	1.93		10.35	18.92	83.84	86.68	29-Sep-17 05:00:00		32.71	18.92	83.84	88.61
29-Sep-17 06:00:00	29-Sep-17 07:00:00		75.53	0.00	0.00	6.00	2.1	329.7		24.90	0.00	0.00	1.98		10.35	18.92	83.84	86.68	29-Sep-17 06:00:00		35.25	18.92	83.84	88.66
29-Sep-17 07:00:00	29-Sep-17 08:00:00		43.45	0.00	0.00	6.14	2.1	329.7		14.33	0.00	0.00	2.02		10.35	18.92	83.84	86.68	29-Sep-17 07:00:00		24.68	18.92	83.84	88.70
29-Sep-17 08:00:00	29-Sep-17 09:00:00		39.19	0.00	0.00	6.26	2.1	329.7		12.92	0.00	0.00	2.06		10.35	18.92	83.84	86.68	29-Sep-17 08:00:00		23.27	18.92	83.84	88.74
29-Sep-17 09:00:00	29-Sep-17 10:00:00		40.03	0.00	0.00	6.02	2.1	329.7		13.20	0.00	0.00	1.99		10.35	18.92	83.84	86.68	29-Sep-17 09:00:00		23.55	18.92	83.84	88.67
29-Sep-17 10:00:00	29-Sep-17 11:00:00		41.22	0.00	0.00	5.63	2.1	329.7		13.59	0.00	0.00	1.86		10.35	18.92	83.84	86.68	29-Sep-17 10:00:00		23.94	18.92	83.84	88.54
29-Sep-17 11:00:00	29-Sep-17 12:00:00		35.81	0.00	0.00	5.25	2.1	329.7		11.81	0.00	0.00	1.73		10.35	18.92	83.84	86.68	29-Sep-17 11:00:00		22.16	18.92	83.84	88.41
29-Sep-17 12:00:00	29-Sep-17 13:00:00		35.06	0.00	0.00	4.85	2.1	329.7		11.56	0.00	0.00	1.60		10.35	18.92	83.84	86.68	29-Sep-17 12:00:00		21.91	18.92	83.84	88.28
29-Sep-17 13:00:00	29-Sep-17 14:00:00		46.01	0.00	0.00	4.63	2.1	329.7		15.17	0.00	0.00	1.53		10.35	18.92	83.84	86.68	29-Sep-17 13:00:00		25.52	18.92	83.84	88.21
29-Sep-17 14:00:00	29-Sep-17 15:00:00		45.87	0.00	0.00	4.62	2.1	329.7		15.12	0.00	0.00	1.52		10.35	18.92	83.84	86.68	29-Sep-17 14:00:00		25.47	18.92	83.84	88.20
29-Sep-17 15:00:00	29-Sep-17 16:00:00		34.06	0.00	0.00	4.61	2.1	329.7		11.23	0.00	0.00	1.52		10.35	18.92	83.84	86.68	29-Sep-17 15:00:00		21.58	18.92	83.84	88.20
29-Sep-17 16:00:00	29-Sep-17 17:00:00		57.87	0.00	0.00	4.60	2.1	329.7		19.08	0.00	0.00	1.52		10.35	18.92	83.84	86.68	29-Sep-17 16:00:00		29.43	18.92	83.84	88.20
29-Sep-17 17:00:00	29-Sep-17 18:00:00		71.57	0.00	0.00	4.72	2.1	329.7		23.60	0.00	0.00	1.56		10.35	18.92	83.84	86.68	29-Sep-17 17:00:00		33.95	18.92	83.84	88.24
29-Sep-17 18:00:00	29-Sep-17 19:00:00		60.41	0.00	0.00	4.90	2.1	329.7		19.92	0.00	0.00	1.62		10.35	18.92	83.84	86.68	29-Sep-17 18:00:00		30.27	18.92	83.84	88.30
29-Sep-17 19:00:00	29-Sep-17 20:00:00		60.22	0.00	0.00	5.08	2.1	329.7		19.86	0.00	0.00	1.68		10.35	18.92	83.84	86.68	29-Sep-17 19:00:00		30.21	18.92	83.84	88.36
29-Sep-17 20:00:00	29-Sep-17 21:00:00		57.76	0.00	0.00	5.25	2.1	329.7		19.04	0.00	0.00	1.73		10.35	18.92	83.84	86.68	29-Sep-17 20:00:00		29.39	18.92	83.84	88.41
29-Sep-17 21:00:00	29-Sep-17 22:00:00		54.82	0.00	0.00	5.29	2.1	329.7		18.07	0.00	0.00	1.74		10.35	18.92	83.84	86.68	29-Sep-17 21:00:00		28.42	18.92	83.84	88.42
29-Sep-17 22:00:00	29-Sep-17 23:00:00		54.07	0.00	0.00	5.41	2.1	329.7		17.83	0.00	0.00	1.78		10.35	18.92	83.84	86.68	29-Sep-17 22:00:00		28.18	18.92	83.84	88.46
29-Sep-17 23:00:00	30-Sep-17 00:00:00		45.39	0.00	0.00	5.52	2.1	329.7		14.96	0.00	0.00	1.82		10.35	18.92	83.84	86.68	29-Sep-17 23:00:00		25.31	18.92	83.84	88.50
30-Sep-17 00:00:00	30-Sep-17 01:00:00		35.35	0.00	0.00	5.64	2.1	329.7		11.66	0.00	0.00	1.86		10.35	18.92	83.84	86.68	30-Sep-17 00:00:00		22.01	18.92	83.84	88.54
30-Sep-17 01:00:00	30-Sep-17 02:00:00		31.46	0.00	0.00	5.77

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
02-Oct-17 03:00:00	02-Oct-17 04:00:00		0.00	0.00	0.00	6.27	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	02-Oct-17 03:00:00		10.35	18.92	83.84	88.75
02-Oct-17 04:00:00	02-Oct-17 05:00:00		0.00	0.00	0.00	6.39	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	02-Oct-17 04:00:00		10.35	18.92	83.84	88.79
02-Oct-17 05:00:00	02-Oct-17 06:00:00		0.00	0.00	0.00	6.28	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	02-Oct-17 05:00:00		10.35	18.92	83.84	88.75
02-Oct-17 06:00:00	02-Oct-17 07:00:00		0.00	0.00	0.00	6.14	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	02-Oct-17 06:00:00		10.35	18.92	83.84	88.70
02-Oct-17 07:00:00	02-Oct-17 08:00:00		0.47	0.00	0.00	6.00	2.1	329.7		0.16	0.00	0.00	1.98		10.35	18.92	83.84	86.68	02-Oct-17 07:00:00		10.51	18.92	83.84	88.66
02-Oct-17 08:00:00	02-Oct-17 09:00:00		0.01	0.00	0.00	5.86	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	02-Oct-17 08:00:00		10.35	18.92	83.84	88.61
02-Oct-17 09:00:00	02-Oct-17 10:00:00		0.00	0.00	0.00	5.67	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	02-Oct-17 09:00:00		10.35	18.92	83.84	88.55
02-Oct-17 10:00:00	02-Oct-17 11:00:00		0.00	0.00	0.00	5.37	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	02-Oct-17 10:00:00		10.35	18.92	83.84	88.45
02-Oct-17 11:00:00	02-Oct-17 12:00:00		0.00	0.00	0.00	5.07	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	02-Oct-17 11:00:00		10.35	18.92	83.84	88.35
02-Oct-17 12:00:00	02-Oct-17 13:00:00		1.02	0.00	0.00	4.77	2.1	329.7		0.34	0.00	0.00	1.57		10.35	18.92	83.84	86.68	02-Oct-17 12:00:00		10.69	18.92	83.84	88.25
02-Oct-17 13:00:00	02-Oct-17 14:00:00		5.72	0.00	0.00	4.54	2.1	329.7		1.88	0.00	0.00	1.50		10.35	18.92	83.84	86.68	02-Oct-17 13:00:00		12.23	18.92	83.84	88.18
02-Oct-17 14:00:00	02-Oct-17 15:00:00		5.97	0.00	0.00	4.49	2.1	329.7		1.97	0.00	0.00	1.48		10.35	18.92	83.84	86.68	02-Oct-17 14:00:00		12.32	18.92	83.84	88.16
02-Oct-17 15:00:00	02-Oct-17 16:00:00		5.56	0.00	0.00	4.45	2.1	329.7		1.83	0.00	0.00	1.47		10.35	18.92	83.84	86.68	02-Oct-17 15:00:00		12.18	18.92	83.84	88.15
02-Oct-17 16:00:00	02-Oct-17 17:00:00		1.68	0.00	0.00	4.41	2.1	329.7		0.55	0.00	0.00	1.46		10.35	18.92	83.84	86.68	02-Oct-17 16:00:00		10.90	18.92	83.84	88.14
02-Oct-17 17:00:00	02-Oct-17 18:00:00		41.98	0.00	0.00	4.48	2.1	329.7		13.84	0.00	0.00	1.48		10.35	18.92	83.84	86.68	02-Oct-17 17:00:00		24.19	18.92	83.84	88.16
02-Oct-17 18:00:00	02-Oct-17 19:00:00		23.88	0.00	0.00	4.55	2.1	329.7		7.87	0.00	0.00	1.50		10.35	18.92	83.84	86.68	02-Oct-17 18:00:00		18.22	18.92	83.84	88.18
02-Oct-17 19:00:00	02-Oct-17 20:00:00		50.05	0.00	0.00	4.61	2.1	329.7		16.50	0.00	0.00	1.52		10.35	18.92	83.84	86.68	02-Oct-17 19:00:00		26.85	18.92	83.84	88.20
02-Oct-17 20:00:00	02-Oct-17 21:00:00		49.38	0.00	0.00	4.68	2.1	329.7		16.28	0.00	0.00	1.54		10.35	18.92	83.84	86.68	02-Oct-17 20:00:00		26.63	18.92	83.84	88.22
02-Oct-17 21:00:00	02-Oct-17 22:00:00		41.10	0.00	0.00	4.73	2.1	329.7		13.55	0.00	0.00	1.56		10.35	18.92	83.84	86.68	02-Oct-17 21:00:00		23.90	18.92	83.84	88.24
02-Oct-17 22:00:00	02-Oct-17 23:00:00		13.91	0.00	0.00	4.91	2.1	329.7		4.59	0.00	0.00	1.62		10.35	18.92	83.84	86.68	02-Oct-17 22:00:00		14.94	18.92	83.84	88.30
02-Oct-17 23:00:00	03-Oct-17 00:00:00		14.10	0.00	0.00	5.09	2.1	329.7		4.65	0.00	0.00	1.68		10.35	18.92	83.84	86.68	02-Oct-17 23:00:00		15.00	18.92	83.84	88.36
03-Oct-17 00:00:00	03-Oct-17 01:00:00		7.72	0.00	0.00	5.28	2.1	329.7		2.55	0.00	0.00	1.74		10.35	18.92	83.84	86.68	03-Oct-17 00:00:00		12.90	18.92	83.84	88.42
03-Oct-17 01:00:00	03-Oct-17 02:00:00		0.24	0.00	0.00	5.61	2.1	329.7		0.08	0.00	0.00	1.85		10.35	18.92	83.84	86.68	03-Oct-17 01:00:00		10.43	18.92	83.84	88.53
03-Oct-17 02:00:00	03-Oct-17 03:00:00		0.46	0.00	0.00	5.70	2.1	329.7		0.15	0.00	0.00	1.88		10.35	18.92	83.84	86.68	03-Oct-17 02:00:00		10.50	18.92	83.84	88.56
03-Oct-17 03:00:00	03-Oct-17 04:00:00		2.67	0.00	0.00	5.77	2.1	329.7		0.88	0.00	0.00	1.90		10.35	18.92	83.84	86.68	03-Oct-17 03:00:00		11.23	18.92	83.84	88.58
03-Oct-17 04:00:00	03-Oct-17 05:00:00		2.86	0.00	0.00	5.85	2.1	329.7		0.94	0.00	0.00	1.93		10.35	18.92	83.84	86.68	03-Oct-17 04:00:00		11.29	18.92	83.84	88.61
03-Oct-17 05:00:00	03-Oct-17 06:00:00		0.56	0.00	0.00	5.86	2.1	329.7		0.19	0.00	0.00	1.93		10.35	18.92	83.84	86.68	03-Oct-17 05:00:00		10.54	18.92	83.84	88.61
03-Oct-17 06:00:00	03-Oct-17 07:00:00		0.87	0.00	0.00	5.84	2.1	329.7		0.29	0.00	0.00	1.93		10.35	18.92	83.84	86.68	03-Oct-17 06:00:00		10.64	18.92	83.84	88.61
03-Oct-17 07:00:00	03-Oct-17 08:00:00		0.00	0.00	0.00	5.83	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	03-Oct-17 07:00:00		10.35	18.92	83.84	88.60
03-Oct-17 08:00:00	03-Oct-17 09:00:00		0.00	0.00	0.00	5.82	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	03-Oct-17 08:00:00		10.35	18.92	83.84	88.60
03-Oct-17 09:00:00	03-Oct-17 10:00:00		0.00	0.00	0.00	5.69	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	03-Oct-17 09:00:00		10.35	18.92	83.84	88.56
03-Oct-17 10:00:00	03-Oct-17 11:00:00		0.00	0.00	0.00	5.39	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	03-Oct-17 10:00:00		10.35	18.92	83.84	88.46
03-Oct-17 11:00:00	03-Oct-17 12:00:00		0.38	0.00	0.00	5.08	2.1	329.7		0.12	0.00	0.00	1.67		10.35	18.92	83.84	86.68	03-Oct-17 11:00:00		10.47	18.92	83.84	88.35
03-Oct-17 12:00:00	03-Oct-17 13:00:00		0.07	0.00	0.00	4.77	2.1	329.7		0.02	0.00	0.00	1.57		10.35	18.92	83.84	86.68	03-Oct-17 12:00:00		10.37	18.92	83.84	88.25
03-Oct-17 13:00:00	03-Oct-17 14:00:00		5.50	0.00	0.00	4.59	2.1	329.7		1.81	0.00	0.00	1.51		10.35	18.92	83.84	86.68	03-Oct-17 13:00:00		12.16	18.92	83.84	88.19
03-Oct-17 14:00:00	03-Oct-17 15:00:00		3.37	0.00	0.00	4.55	2.1	329.7		1.11	0.00	0.00	1.50		10.35	18.92	83.84	86.68	03-Oct-17 14:00:00		11.46	18.92	83.84	88.18
03-Oct-17 15:00:00	03-Oct-17 16:00:00		32.63	0.00	0.00	4.51	2.1	329.7		10.76	0.00	0.00	1.49		10.35	18.92	83.84	86.68	03-Oct-17 15:00:00		21.11	18.92	83.84	88.17
03-Oct-17 16:00:00	03-Oct-17 17:00:00		42.63	0.00	0.00	4.46	2.1	329.7		14.05	0.00	0.00	1.47		10.35	18.92	83.84	86.68	03-Oct-17 16:00:00		24.40	18.92	83.84	88.15
03-Oct-17 17:00:00	03-Oct-17 18:00:00		42.17	0.00	0.00	4.43	2.1	329.7		13.90	0.00	0.00	1.46		10.35	18.92	83.84	86.68	03-Oct-17 17:00:00		24.25	18.92	83.84	88.14
03-Oct-17 18:00:00	03-Oct-17 19:00:00		34.48	0.00	0.00	4.56	2.1	329.7		11.37	0.00	0.00	1.50		10.35	18.92	83.84	86.68	03-Oct-17 18:00:00		21.72	18.92	83.84	88.18
03-Oct-17 19:00:00	03-Oct-17 20:00:00		34.59	0.00	0.00	4.71	2.1	329.7		11.40	0.00	0.00	1.55		10.35	18.92	83.84	86.68	03-Oct-17 19:00:00		21.75	18.92	83.84	88.23
03-Oct-17 20:00:00	03-Oct-17 21:00:00		35.24	0.00	0.00	4.85	2.1	329.7		11.62	0.00	0.00	1.60		10.35	18.92	83.84	86.68	03-Oct-17 20:00:00		21.97	18.92	83.84	88.28
03-Oct-17 21:00:00	03-Oct-17 22:00:00		37.06	0.00	0.00	4.89	2.1	329.7		12.22	0.00	0.00	1.61		10.35	18.92	83.84	86.68	03-Oct-17 21:00:00		22.57	18.92	83.84	88.29
03-Oct-17 22:00:00	03-Oct-17 23:00:00		21.69	0.00	0.00	5.01	2.1	329.7		7.15	0.00	0.00	1.65		10.35	18.92	83.84	86.68	03-Oct-17 22:00:00		17.50	18.92	83.84	88.33
03-Oct-17 23:00:00	04-Oct-17 00:00:00		11.86	0.00	0.00	5.15	2.1	329.7		3.91	0.00	0.00	1.70		10.35	18.92	83.84	86.68	03-Oct-17 23:00:00		14.26	18.92	83.84	88.38
04-Oct-17 00:00:00	04-Oct-17 01:00:00		15.99	0.00	0.00	5.28	2.1	329.7		5.27	0.00	0.00	1.74		10.35	18.92	83.84	86.68	04-Oct-17 00:00:00		15.62	18.92	83.84	88.42
04-Oct-17 01:00:00	04-Oct-17 02:00:00		12.53	0.00	0.00	5.43	2.1	329.7		4.13	0.00	0.00	1.79		10.35	18.92	83.84	86.68	04-Oct-17 01:00:00		14.48	18.92	83.84	88.47
04-Oct-17 02:00:00	04-Oct-17 03:00:00		7.76	0.00	0.00	5.53	2.1	329.7		2.56	0.00	0.00	1.82		10.35	18.92	83.84	86.68	04-Oct-17 02:00:00		12.91	18.92	83.84	88.50
04-Oct-17 03:00:00	04-Oct-17 04:00:00		5.18	0.00	0.00	5.63	2.1	329.7		1.71	0.00	0.00	1.86		10.35	18.92	83.84	86.68	04-Oct-17 03:00:00		12.06	18.92	83.84	88.54
04-Oct-17 04:00:00	04-Oct-17 05:00:00		2.86	0.00	0.00	5.72	2.1	329.7		0.94	0.00	0.00	1.89		10.35	18.92	83.84	86.68	04-Oct-17 04:00:00		11.29	18.92	83.84	88.57
04-Oct-17 05:00:00	04-Oct-17 06:00:00		1.18	0.00	0.00	5.82	2.1	329.7		0.39	0.00	0.00	1.92		10.35	18.92	83.84	86.68	04-Oct-17 05:00:00		10.74	18.92	83.84	88.60
04-Oct-17 06:00:00	04-Oct-17 07:00:00		0.28	0.00	0.00	5.90	2.1	329.7		0.09	0.00	0.00	1.95		10.35	18.92	83.84	86.68	04-Oct-17 06:00:00		10.44	18.92	83.84	88.63
04-Oct-17 07:00:00	04-Oct-17 08:00:00		2.09	0.00	0.00	5.99	2.1	329.7		0.69	0.00	0.00	1.97		10.35	18.92	83.84	86.68	04-Oct-17 07:00:00		11.04	18.92	83.84	88.65
04-Oct-17 08:00:00	04-Oct-17 09:00:00		2.55	0.00	0.00	6.07	2.1	329.7		0.84	0.00	0.00	2.00		10.35	18.92	83.84	86.68	04-Oct-17 08:00:00		11.19	18.92	83.84	88.68
04-Oct-17 09:00:00	04-Oct-17 10:00:00		1.45	0.00	0.00	5.93	2.1	329.7		0.48	0.00	0.00	1.95		10.35	18.92	83.84	86.68	04-Oct-17 09:00:00		10.83	18.92	83.84	88.63
04-Oct-17 10:00:00	04-Oct-17 11:00:00		0.89	0.00	0.00	5.50	2.1	329.7		0.29	0.00	0.00	1.81		10.35	18.92	83.84	86.68	04-Oct-17 10:00:00		10.64	18.92	83.84	88.49
04-Oct-17 11:00:00	04-Oct-17 12:00:00		0.34	0.00	0.00	5.06	2.1	329.7		0.11	0.00	0.00	1.67		10.35	18.92	83.84	86.68	04-Oct-17 11:00:00		10.46	18.92	83.84	88.35
04-Oct-17 12:00:00	04-Oct-17 13:00:00		2.80	0.00	0.00	4.63	2.1	329.7		0.92	0.00	0.00	1.53		10.35	18.92	83.84	86.68	04-Oct-17 12:00:00		11.27	18.92	83.84	88.21
04-Oct-17 13:00:00	04-Oct-17 14:00:00		7.08	0.00	0.00	4.38	2.1	329.7		2.33	0.00	0.00	1.45		10.35	18.92	83.84	86.68	04-Oct-17 13:00:00		12.68	18.92	83.84	88.13
04-Oct-17 14:00:00	04-Oct-17 15:00:00		58.35	0.00	0.00	4.33	2.1	329.7		19.24	0.00	0.00	1.43		10.35	18.92	83.84	86.68	04-Oct-17 14:00:00		29.59	18.92	83.84	88.11
04-Oct-17 15:00:00	04-Oct-17 16:00:00		46.47	0.00	0.00	4.28	2.1	329.7		15.32	0.00	0.00	1.41		10.35	18.92	83.84	86.68	04-Oct-17 15:00:00		25.67	18.92	83.84	88.09
04-Oct-17 16:00:00	04-Oct-17 17:00:00		19.06	0.00	0.00	4.23	2.1	329.7		6.29	0.00	0.00	1.39		10.35	18.92	83.84	86.68	04-Oct-17 16:00:00		16.64	18.92	83.84	88.07
04-Oct-17 17:00:00	04-Oct-17 18:00:00		28.50	0.00	0.00	4.29	2.1	329.7		9.40	0.00	0.00	1.41		10.35	18.92	83.84	86.68	04-Oct-17 17:00:00		19.75	18.92	83.84	88.09
04-Oct-17 18:00:00	04-Oct-17 19:00:00		29.49	0.00	0.00	4.42	2.1	329.7		9.72	0.00	0.00	1.46		10.35	18.92	83.84	86.68	04-Oct-17 18:00:00		20.07	18.92	83.84	88.14
04-Oct-17 19:00:00	04-Oct-17 20:00:00		28.30	0.00	0.00	4.54	2.1	329.7		9.33	0.00	0.00	1.50		10.35	18.92	83.84	86.68	04-Oct-17 19:00:00		19.68	18.92	83.84	88.18
04-Oct-17 20:00:00	04-Oct-17 21:00:00		28.55	0.00	0.00	4.65	2.1	329.7		9.41	0.00	0.00	1.53		10.35	18.92	83.84	86.68	04-Oct-17 20:00:00		19.76	18.92	83.84	88.21
04-Oct-17 21:00:00	04-Oct-17 22:00:00		0.82	0.00	0.00	4.79	2.1	329.7		0.27	0.00	0.00	1.58		10.35	18.92	83.84	86.68	04-Oct-17 21:00:00		10.62	18.92	83.84	88.26
04-Oct-17 22:00:00	04-Oct-17 23:00:00		4.74	0.00	0.00	4.93	2.1	329.7		1.56	0.00	0.00	1.63		10.35	18.92	83.84	86.68	04-Oct-17 22:00:00		11.91	18.92	83.84	88.31
04-Oct-17 23:00:00	05-Oct-17 00:00:00		3.49	0.00	0.00	5.07	2.1	329.7		1.15	0.00	0.00	1.67		10.35	18.92	83.84	86.68	04-Oct-17 23:00:00		11.50	18.92	83.84	88.35
05-Oct-17 00:00:00	05-Oct-17 01:00:00		4.43	0.00	0.00	5.21	2.1	329.7		1.46	0.00	0.00	1.72		10.35	18.92	83.84	86.68	05-Oct-17 00:00:00		11.81	18.92	83.84	88.40
05-Oct-17 01:00:00	05-Oct-17 02:00:00		2.75	0.00	0.00	5.30	2.1	329.7		0.91	0.00	0.00	1.75		10.35	18.92	83.84	86.68	05-Oct-17 01:00:00		11.26	18.92	83.84	88.43
05-Oct-17 02:00:00	05-Oct-17 03:00:00		1.27	0.00	0.00	5.43	2.1	329.7		0.42	0.00	0.00	1.79		10.35	18.92	83.84	86.68	05-Oct-17 02:00:00		10.77	18.92	83.84	88.47
05-Oct-17 03:00:00	05-Oct-17 04:00:00		0.41	0.00	0.00	5.58	2.1	329.7		0.14	0.00	0.00	1.84		10.35	18.92	83.84	86.68	05-Oct-17 03:00:00		10.49	18.92	83.84	88.52
05-Oct-17 04:00:00	05-Oct-17 05:00:00		0.29	0.00	0.00	5.72	2.1	329.7		0.09	0.00	0.00	1.89		10.35	18.92	83.84	86.68	05-Oct-17 04:00:00		10.44	18.92	83.84	88.57
05-Oct-17 05:00:00	05-Oct-17 06:00:00		0.13	0.00	0.00	5.68	2.1	329.7		0.04	0.00	0.00	1.87		10.35	18.92	83.84	86.68	05-Oct-17 05:00:00		10.39	18.92	83.84	88.55
05-Oct-17 06:00:00	05-Oct-17 07:00:00		0.36	0.00	0.00	5.62	2.1	329.7		0.12	0.00	0.00	1.85		10.35	18.92	83.84	86.68	05-Oct-17 06:00:00		10.47	18.92	83.84	88.53
05-Oct-17 07:00:00	05-Oct-17 08:00:00		0.38	0.00	0.00	5.58	2.1	329.7		0.13	0.00	0.00	1.84		10.35	18.92	83.84	86.68	05-Oct-17 07:00:00		10.48	18.92	83.84	88.52
05-Oct-17 08:00:00	05-Oct-17 09:00:00		0.00	0.00	0.00	5.55	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	05-Oct-17 08:00:00		10.35	18.92	83.84	88.51
05-Oct-17 09:00:00	05-Oct-17 10:00:00		0.00	0.00	0.00	5.38	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	05-Oct-17 09:00:00		10.35	18.92	83.84	88.45
05-Oct-17 10:00:00	05-Oct-17 11:00:00		0.00	0.00	0.00	5.05	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	05-Oct-17 10:00:00		10.35	18.92	83.84	88.34
05-Oct-17 11:00:00	05-Oct-17 12:00:00		1.12	0.00	0.00	4.72	2.1	329.7		0.37	0.00	0.00	1.56		10.35	18.92	83.84	86.68	05-Oct-17 11:00:00		10.72	18.92	83.84	88.24
05-Oct-17 12:00:00	05-Oct-17 13:00:00		5.22	0.00	0.00	4.39	2.1	329.7		1.72	0.00	0.00	1.45		10.35	18.92	83.84	86.68	05-Oct-17 12:00:00		12.07	18.92	83.84	88.13
05-Oct-17 13:00:00	05-Oct-17 14:00:00		20.03	0.00	0.00	4.22	2.1	329.7		6.60	0.00	0.00	1.39		10.35	18.92	83.84	86.68	05-Oct-17 13:00:00		16.95	18.92	83.84	88.07
05-Oct-17 14:00:00	05-Oct-17 15:00:00		28.51	0.00	0.00	4.22	2.1	329.7		9.40	0.00	0.00	1.39		10.35	18.92	83.84	86.68	05-Oct-17 14:00:00		19.75	18.92	83.84	88.07
05-Oct-17 15:00:00	05-Oct-17 16:00:00		52.60	0.00	0.00	4.21	2.1	329.7		17.34	0.00	0.00	1.39		10.35	18.92	83.84	86.68	05-Oct-17 15:00:00		27.69	18.92	83.84	88.07
05-Oct-17 16:00:00	05-Oct-17 17:00:00		9.42	0.00	0.00	4.21	2.1	329.7		3.11	0.00	0.00	1.39		10.35	18.92	83.84	86.68	05-Oct-17 16:00:00		13.46	18.92	83.84	88.07
05-Oct-17 17:00:00	05-Oct-17 18:00:00		4.82	0.00	0.00	4.24	2.1	329.7		1.59	0.00	0.00	1.40		10.35	18.92	83.84	86.68	05-Oct-17 17:00:00		11.94	18.92	83.84	88.08
05-Oct-17 18:00:00	05-Oct-17 19:00:00		28.59	0.00	0.00	4.36	2.1	329.7		9.43	0.00	0.00	1.44		10.35	18.92	83.84	86.68	05-Oct-17 18:00:00		19.78	18.92	83.84	88.12
05-Oct-17 19:00:00	05-Oct-17 20:00:00		56.96	0.00	0.00	4.75	2.1	329.7		18.78	0.00	0.00	1.57		10.35	18.92	83.84	86.68	05-Oct-17 19:00:00		29.13	18.92	83.84	88.25
05-Oct-17 20:00:00	05-Oct-17 21:00:00		47.13	0.00	0.00	4.49	2.1	329.7		15.54	0.00	0.00	1.48		10.35	18.92	83.84	86.68	05-Oct-17 20:00:00		25.89	18.92	83.84	88.16
05-Oct-17 21:00:00	05-Oct-17 22:00:00		12.18	0.00	0.00	4.69	2.1	329.7		4.02	0.00	0.00	1.55		10.35	18.92	83.84	86.68	05-Oct-17 21:00:00		14.37	18.92	83.84	88.23
05-Oct-17 22:00:00	05-Oct-17 23:00:00		2.40	0.00	0.00	4.90	2.1	329.7		0.79	0.00	0.00	1.61		10.35	18.92	83.84	86.68	05-Oct-17 22:00:00		11.14	18.92	83.84	88.29
05-Oct-17 23:00:00	06-Oct-17 00:00:00		9.95	0.00	0.00	5.10	2.1	329.7		3.28	0.00	0.00	1.68		10.35	18.92	83.84	86.68	05-Oct-17 23:00:00		13.63	18.92	83.84	88.36
06-Oct-17 00:00:00	06-Oct-17 01:00:00		0.00	0.00	0.00	5.22

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
08-Oct-17 02:00:00	08-Oct-17 03:00:00		15.38	0.00	0.00	5.18	2.1	329.7		5.07	0.00	0.00	1.71		10.35	18.92	83.84	86.68	08-Oct-17 02:00:00		**15.42**	**18.92**	**83.84**	**88.39**
08-Oct-17 03:00:00	08-Oct-17 04:00:00		16.68	0.00	0.00	5.19	2.1	329.7		5.50	0.00	0.00	1.71		10.35	18.92	83.84	86.68	08-Oct-17 03:00:00		**15.85**	**18.92**	**83.84**	**88.39**
08-Oct-17 04:00:00	08-Oct-17 05:00:00		15.92	0.00	0.00	5.21	2.1	329.7		5.25	0.00	0.00	1.72		10.35	18.92	83.84	86.68	08-Oct-17 04:00:00		**15.60**	**18.92**	**83.84**	**88.40**
08-Oct-17 05:00:00	08-Oct-17 06:00:00		17.19	0.00	0.00	5.21	2.1	329.7		5.67	0.00	0.00	1.72		10.35	18.92	83.84	86.68	08-Oct-17 05:00:00		**16.02**	**18.92**	**83.84**	**88.40**
08-Oct-17 06:00:00	08-Oct-17 07:00:00		17.12	0.00	0.00	5.21	2.1	329.7		5.64	0.00	0.00	1.72		10.35	18.92	83.84	86.68	08-Oct-17 06:00:00		**15.99**	**18.92**	**83.84**	**88.40**
08-Oct-17 07:00:00	08-Oct-17 08:00:00		25.99	0.00	0.00	5.22	2.1	329.7		8.57	0.00	0.00	1.72		10.35	18.92	83.84	86.68	08-Oct-17 07:00:00		**18.92**	**18.92**	**83.84**	**88.40**
08-Oct-17 08:00:00	08-Oct-17 09:00:00		19.89	0.00	0.00	5.28	2.1	329.7		6.56	0.00	0.00	1.74		10.35	18.92	83.84	86.68	08-Oct-17 08:00:00		**16.91**	**18.92**	**83.84**	**88.42**
08-Oct-17 09:00:00	08-Oct-17 10:00:00		25.85	0.00	0.00	5.13	2.1	329.7		8.52	0.00	0.00	1.69		10.35	18.92	83.84	86.68	08-Oct-17 09:00:00		**18.87**	**18.92**	**83.84**	**88.37**
08-Oct-17 10:00:00	08-Oct-17 11:00:00		43.28	0.00	0.00	4.96	2.1	329.7		14.27	0.00	0.00	1.63		10.35	18.92	83.84	86.68	08-Oct-17 10:00:00		**24.62**	**18.92**	**83.84**	**88.31**
08-Oct-17 11:00:00	08-Oct-17 12:00:00		63.14	0.00	0.00	4.78	2.1	329.7		20.82	0.00	0.00	1.58		10.35	18.92	83.84	86.68	08-Oct-17 11:00:00		**31.17**	**18.92**	**83.84**	**88.26**
08-Oct-17 12:00:00	08-Oct-17 13:00:00		59.32	0.00	0.00	4.88	2.1	329.7		19.56	0.00	0.00	1.61		10.35	18.92	83.84	86.68	08-Oct-17 12:00:00		**29.91**	**18.92**	**83.84**	**88.29**
08-Oct-17 13:00:00	08-Oct-17 14:00:00		39.18	0.00	0.00	4.88	2.1	329.7		12.92	0.00	0.00	1.61		10.35	18.92	83.84	86.68	08-Oct-17 13:00:00		**23.27**	**18.92**	**83.84**	**88.29**
08-Oct-17 14:00:00	08-Oct-17 15:00:00		34.41	0.00	0.00	4.84	2.1	329.7		11.35	0.00	0.00	1.60		10.35	18.92	83.84	86.68	08-Oct-17 14:00:00		**21.70**	**18.92**	**83.84**	**88.28**
08-Oct-17 15:00:00	08-Oct-17 16:00:00		25.81	0.00	0.00	4.80	2.1	329.7		8.51	0.00	0.00	1.58		10.35	18.92	83.84	86.68	08-Oct-17 15:00:00		**18.86**	**18.92**	**83.84**	**88.26**
08-Oct-17 16:00:00	08-Oct-17 17:00:00		49.69	0.00	0.00	4.74	2.1	329.7		16.38	0.00	0.00	1.56		10.35	18.92	83.84	86.68	08-Oct-17 16:00:00		**26.73**	**18.92**	**83.84**	**88.24**
08-Oct-17 17:00:00	08-Oct-17 18:00:00		40.94	0.00	0.00	4.92	2.1	329.7		13.50	0.00	0.00	1.62		10.35	18.92	83.84	86.68	08-Oct-17 17:00:00		**23.85**	**18.92**	**83.84**	**88.30**
08-Oct-17 18:00:00	08-Oct-17 19:00:00		34.98	0.00	0.00	5.12	2.1	329.7		11.53	0.00	0.00	1.69		10.35	18.92	83.84	86.68	08-Oct-17 18:00:00		**21.88**	**18.92**	**83.84**	**88.37**
08-Oct-17 19:00:00	08-Oct-17 20:00:00		33.10	0.00	0.00	5.32	2.1	329.7		10.91	0.00	0.00	1.75		10.35	18.92	83.84	86.68	08-Oct-17 19:00:00		**21.26**	**18.92**	**83.84**	**88.43**
08-Oct-17 20:00:00	08-Oct-17 21:00:00		31.76	0.00	0.00	5.42	2.1	329.7		10.47	0.00	0.00	1.79		10.35	18.92	83.84	86.68	08-Oct-17 20:00:00		**20.82**	**18.92**	**83.84**	**88.47**
08-Oct-17 21:00:00	08-Oct-17 22:00:00		40.70	0.00	0.00	5.37	2.1	329.7		13.42	0.00	0.00	1.77		10.35	18.92	83.84	86.68	08-Oct-17 21:00:00		**23.77**	**18.92**	**83.84**	**88.45**
08-Oct-17 22:00:00	08-Oct-17 23:00:00		40.65	0.00	0.00	5.33	2.1	329.7		13.40	0.00	0.00	1.76		10.35	18.92	83.84	86.68	08-Oct-17 22:00:00		**23.75**	**18.92**	**83.84**	**88.44**
08-Oct-17 23:00:00	09-Oct-17 00:00:00		40.46	0.00	0.00	5.28	2.1	329.7		13.34	0.00	0.00	1.74		10.35	18.92	83.84	86.68	08-Oct-17 23:00:00		**23.69**	**18.92**	**83.84**	**88.42**
09-Oct-17 00:00:00	09-Oct-17 01:00:00		44.53	0.00	0.00	5.22	2.1	329.7		14.68	0.00	0.00	1.72		10.35	18.92	83.84	86.68	09-Oct-17 00:00:00		**25.03**	**18.92**	**83.84**	**88.40**
09-Oct-17 01:00:00	09-Oct-17 02:00:00		44.43	0.00	0.00	5.21	2.1	329.7		14.65	0.00	0.00	1.72		10.35	18.92	83.84	86.68	09-Oct-17 01:00:00		**25.00**	**18.92**	**83.84**	**88.40**
09-Oct-17 02:00:00	09-Oct-17 03:00:00		45.32	0.00	0.00	5.22	2.1	329.7		14.94	0.00	0.00	1.72		10.35	18.92	83.84	86.68	09-Oct-17 02:00:00		**25.29**	**18.92**	**83.84**	**88.40**
09-Oct-17 03:00:00	09-Oct-17 04:00:00		45.86	0.00	0.00	5.22	2.1	329.7		15.12	0.00	0.00	1.72		10.35	18.92	83.84	86.68	09-Oct-17 03:00:00		**25.47**	**18.92**	**83.84**	**88.40**
09-Oct-17 04:00:00	09-Oct-17 05:00:00		47.52	0.00	0.00	5.34	2.1	329.7		15.67	0.00	0.00	1.76		10.35	18.92	83.84	86.68	09-Oct-17 04:00:00		**26.02**	**18.92**	**83.84**	**88.44**
09-Oct-17 05:00:00	09-Oct-17 06:00:00		47.65	0.00	0.00	5.38	2.1	329.7		15.71	0.00	0.00	1.77		10.35	18.92	83.84	86.68	09-Oct-17 05:00:00		**26.06**	**18.92**	**83.84**	**88.45**
09-Oct-17 06:00:00	09-Oct-17 07:00:00		46.76	0.00	0.00	5.40	2.1	329.7		15.42	0.00	0.00	1.78		10.35	18.92	83.84	86.68	09-Oct-17 06:00:00		**25.77**	**18.92**	**83.84**	**88.46**
09-Oct-17 07:00:00	09-Oct-17 08:00:00		45.17	0.00	0.00	5.42	2.1	329.7		14.89	0.00	0.00	1.79		10.35	18.92	83.84	86.68	09-Oct-17 07:00:00		**25.24**	**18.92**	**83.84**	**88.47**
09-Oct-17 08:00:00	09-Oct-17 09:00:00		47.14	0.00	0.00	5.47	2.1	329.7		15.54	0.00	0.00	1.80		10.35	18.92	83.84	86.68	09-Oct-17 08:00:00		**25.89**	**18.92**	**83.84**	**88.48**
09-Oct-17 09:00:00	09-Oct-17 10:00:00		47.62	0.00	0.00	5.41	2.1	329.7		15.70	0.00	0.00	1.78		10.35	18.92	83.84	86.68	09-Oct-17 09:00:00		**26.05**	**18.92**	**83.84**	**88.46**
09-Oct-17 10:00:00	09-Oct-17 11:00:00		48.09	0.00	0.00	5.34	2.1	329.7		15.86	0.00	0.00	1.76		10.35	18.92	83.84	86.68	09-Oct-17 10:00:00		**26.21**	**18.92**	**83.84**	**88.44**
09-Oct-17 11:00:00	09-Oct-17 12:00:00		48.60	0.00	0.00	5.26	2.1	329.7		16.02	0.00	0.00	1.73		10.35	18.92	83.84	86.68	09-Oct-17 11:00:00		**26.37**	**18.92**	**83.84**	**88.41**
09-Oct-17 12:00:00	09-Oct-17 13:00:00		51.39	0.00	0.00	5.16	2.1	329.7		16.94	0.00	0.00	1.70		10.35	18.92	83.84	86.68	09-Oct-17 12:00:00		**27.29**	**18.92**	**83.84**	**88.38**
09-Oct-17 13:00:00	09-Oct-17 14:00:00		5.64	0.00	0.00	5.10	2.1	329.7		1.86	0.00	0.00	1.68		10.35	18.92	83.84	86.68	09-Oct-17 13:00:00		**12.21**	**18.92**	**83.84**	**88.36**
09-Oct-17 14:00:00	09-Oct-17 15:00:00		19.58	0.00	0.00	5.04	2.1	329.7		6.46	0.00	0.00	1.66		10.35	18.92	83.84	86.68	09-Oct-17 14:00:00		**16.81**	**18.92**	**83.84**	**88.34**
09-Oct-17 15:00:00	09-Oct-17 16:00:00		20.79	0.00	0.00	4.98	2.1	329.7		6.86	0.00	0.00	1.64		10.35	18.92	83.84	86.68	09-Oct-17 15:00:00		**17.21**	**18.92**	**83.84**	**88.32**
09-Oct-17 16:00:00	09-Oct-17 17:00:00		21.26	0.00	0.00	4.89	2.1	329.7		7.01	0.00	0.00	1.61		10.35	18.92	83.84	86.68	09-Oct-17 16:00:00		**17.36**	**18.92**	**83.84**	**88.29**
09-Oct-17 17:00:00	09-Oct-17 18:00:00		13.18	0.00	0.00	4.86	2.1	329.7		4.35	0.00	0.00	1.60		10.35	18.92	83.84	86.68	09-Oct-17 17:00:00		**14.70**	**18.92**	**83.84**	**88.28**
09-Oct-17 18:00:00	09-Oct-17 19:00:00		40.62	0.00	0.00	4.84	2.1	329.7		13.39	0.00	0.00	1.60		10.35	18.92	83.84	86.68	09-Oct-17 18:00:00		**23.74**	**18.92**	**83.84**	**88.28**
09-Oct-17 19:00:00	09-Oct-17 20:00:00		37.46	0.00	0.00	4.83	2.1	329.7		12.35	0.00	0.00	1.59		10.35	18.92	83.84	86.68	09-Oct-17 19:00:00		**22.70**	**18.92**	**83.84**	**88.27**
09-Oct-17 20:00:00	09-Oct-17 21:00:00		38.59	0.00	0.00	4.87	2.1	329.7		12.72	0.00	0.00	1.60		10.35	18.92	83.84	86.68	09-Oct-17 20:00:00		**23.07**	**18.92**	**83.84**	**88.28**
09-Oct-17 21:00:00	09-Oct-17 22:00:00		36.57	0.00	0.00	4.98	2.1	329.7		12.06	0.00	0.00	1.64		10.35	18.92	83.84	86.68	09-Oct-17 21:00:00		**22.41**	**18.92**	**83.84**	**88.32**
09-Oct-17 22:00:00	09-Oct-17 23:00:00		42.52	0.00	0.00	5.10	2.1	329.7		14.02	0.00	0.00	1.68		10.35	18.92	83.84	86.68	09-Oct-17 22:00:00		**24.37**	**18.92**	**83.84**	**88.36**
09-Oct-17 23:00:00	10-Oct-17 00:00:00		31.12	0.00	0.00	5.22	2.1	329.7		10.26	0.00	0.00	1.72		10.35	18.92	83.84	86.68	09-Oct-17 23:00:00		**20.61**	**18.92**	**83.84**	**88.40**
10-Oct-17 00:00:00	10-Oct-17 01:00:00		8.00	0.00	0.00	5.23	2.1	329.7		2.64	0.00	0.00	1.72		10.35	18.92	83.84	86.68	10-Oct-17 00:00:00		**12.99**	**18.92**	**83.84**	**88.40**
10-Oct-17 01:00:00	10-Oct-17 02:00:00		4.23	0.00	0.00	5.20	2.1	329.7		1.39	0.00	0.00	1.71		10.35	18.92	83.84	86.68	10-Oct-17 01:00:00		**11.74**	**18.92**	**83.84**	**88.39**
10-Oct-17 02:00:00	10-Oct-17 03:00:00		3.61	0.00	0.00	5.19	2.1	329.7		1.19	0.00	0.00	1.71		10.35	18.92	83.84	86.68	10-Oct-17 02:00:00		**11.54**	**18.92**	**83.84**	**88.39**
10-Oct-17 03:00:00	10-Oct-17 04:00:00		11.03	0.00	0.00	5.18	2.1	329.7		3.64	0.00	0.00	1.71		10.35	18.92	83.84	86.68	10-Oct-17 03:00:00		**13.99**	**18.92**	**83.84**	**88.39**
10-Oct-17 04:00:00	10-Oct-17 05:00:00		8.54	0.00	0.00	5.19	2.1	329.7		2.82	0.00	0.00	1.71		10.35	18.92	83.84	86.68	10-Oct-17 04:00:00		**13.17**	**18.92**	**83.84**	**88.39**
10-Oct-17 05:00:00	10-Oct-17 06:00:00		8.43	0.00	0.00	5.25	2.1	329.7		2.78	0.00	0.00	1.73		10.35	18.92	83.84	86.68	10-Oct-17 05:00:00		**13.13**	**18.92**	**83.84**	**88.41**
10-Oct-17 06:00:00	10-Oct-17 07:00:00		9.56	0.00	0.00	66.59	2.1	329.7		3.15	0.00	0.00	21.96		10.35	18.92	83.84	86.68	10-Oct-17 06:00:00		**13.50**	**18.92**	**83.84**	**108.64**
10-Oct-17 07:00:00	10-Oct-17 08:00:00		7.91	0.00	0.00	5.38	2.1	329.7		2.61	0.00	0.00	1.78		10.35	18.92	83.84	86.68	10-Oct-17 07:00:00		**12.96**	**18.92**	**83.84**	**88.46**
10-Oct-17 08:00:00	10-Oct-17 09:00:00		0.00	0.00	0.00	5.40	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	10-Oct-17 08:00:00		**10.35**	**18.92**	**83.84**	**88.46**
10-Oct-17 09:00:00	10-Oct-17 10:00:00		0.00	0.00	0.00	5.42	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	10-Oct-17 09:00:00		**10.35**	**18.92**	**83.84**	**88.47**
10-Oct-17 10:00:00	10-Oct-17 11:00:00		0.00	0.00	0.00	5.42	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	10-Oct-17 10:00:00		**10.35**	**18.92**	**83.84**	**88.47**
10-Oct-17 11:00:00	10-Oct-17 12:00:00		0.00	0.00	0.00	5.24	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	10-Oct-17 11:00:00		**10.35**	**18.92**	**83.84**	**88.41**
10-Oct-17 12:00:00	10-Oct-17 13:00:00		0.00	0.00	0.00	5.06	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	10-Oct-17 12:00:00		**10.35**	**18.92**	**83.84**	**88.35**
10-Oct-17 13:00:00	10-Oct-17 14:00:00		0.00	0.00	0.00	4.88	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	10-Oct-17 13:00:00		**10.35**	**18.92**	**83.84**	**88.29**
10-Oct-17 14:00:00	10-Oct-17 15:00:00		3.89	0.00	0.00	4.78	2.1	329.7		1.28	0.00	0.00	1.58		10.35	18.92	83.84	86.68	10-Oct-17 14:00:00		**11.63**	**18.92**	**83.84**	**88.26**
10-Oct-17 15:00:00	10-Oct-17 16:00:00		28.78	0.00	0.00	4.90	2.1	329.7		9.49	0.00	0.00	1.62		10.35	18.92	83.84	86.68	10-Oct-17 15:00:00		**19.84**	**18.92**	**83.84**	**88.30**
10-Oct-17 16:00:00	10-Oct-17 17:00:00		24.87	0.00	0.00	4.82	2.1	329.7		8.20	0.00	0.00	1.59		10.35	18.92	83.84	86.68	10-Oct-17 16:00:00		**18.55**	**18.92**	**83.84**	**88.27**
10-Oct-17 17:00:00	10-Oct-17 18:00:00		25.49	0.00	0.00	4.75	2.1	329.7		8.40	0.00	0.00	1.56		10.35	18.92	83.84	86.68	10-Oct-17 17:00:00		**18.75**	**18.92**	**83.84**	**88.24**
10-Oct-17 18:00:00	10-Oct-17 19:00:00		18.02	0.00	0.00	4.67	2.1	329.7		5.94	0.00	0.00	1.54		10.35	18.92	83.84	86.68	10-Oct-17 18:00:00		**16.29**	**18.92**	**83.84**	**88.22**
10-Oct-17 19:00:00	10-Oct-17 20:00:00		17.16	0.00	0.00	4.74	2.1	329.7		5.66	0.00	0.00	1.56		10.35	18.92	83.84	86.68	10-Oct-17 19:00:00		**16.01**	**18.92**	**83.84**	**88.24**
10-Oct-17 20:00:00	10-Oct-17 21:00:00		16.67	0.00	0.00	4.89	2.1	329.7		5.49	0.00	0.00	1.61		10.35	18.92	83.84	86.68	10-Oct-17 20:00:00		**15.84**	**18.92**	**83.84**	**88.29**
10-Oct-17 21:00:00	10-Oct-17 22:00:00		17.49	0.00	0.00	5.03	2.1	329.7		5.77	0.00	0.00	1.66		10.35	18.92	83.84	86.68	10-Oct-17 21:00:00		**16.12**	**18.92**	**83.84**	**88.34**
10-Oct-17 22:00:00	10-Oct-17 23:00:00		29.36	0.00	0.00	5.16	2.1	329.7		9.68	0.00	0.00	1.70		10.35	18.92	83.84	86.68	10-Oct-17 22:00:00		**20.03**	**18.92**	**83.84**	**88.38**
10-Oct-17 23:00:00	11-Oct-17 00:00:00		43.59	0.00	0.00	5.20	2.1	329.7		14.37	0.00	0.00	1.71		10.35	18.92	83.84	86.68	10-Oct-17 23:00:00		**24.72**	**18.92**	**83.84**	**88.39**
11-Oct-17 00:00:00	11-Oct-17 01:00:00		30.84	0.00	0.00	5.26	2.1	329.7		10.17	0.00	0.00	1.73		10.35	18.92	83.84	86.68	11-Oct-17 00:00:00		**20.52**	**18.92**	**83.84**	**88.41**
11-Oct-17 01:00:00	11-Oct-17 02:00:00		6.72	0.00	0.00	5.32	2.1	329.7		2.22	0.00	0.00	1.75		10.35	18.92	83.84	86.68	11-Oct-17 01:00:00		**12.57**	**18.92**	**83.84**	**88.43**
11-Oct-17 02:00:00	11-Oct-17 03:00:00		9.84	0.00	0.00	5.38	2.1	329.7		3.24	0.00	0.00	1.77		10.35	18.92	83.84	86.68	11-Oct-17 02:00:00		**13.59**	**18.92**	**83.84**	**88.45**
11-Oct-17 03:00:00	11-Oct-17 04:00:00		7.09	0.00	0.00	5.44	2.1	329.7		2.34	0.00	0.00	1.79		10.35	18.92	83.84	86.68	11-Oct-17 03:00:00		**12.69**	**18.92**	**83.84**	**88.47**
11-Oct-17 04:00:00	11-Oct-17 05:00:00		6.70	0.00	0.00	5.50	2.1	329.7		2.21	0.00	0.00	1.81		10.35	18.92	83.84	86.68	11-Oct-17 04:00:00		**12.56**	**18.92**	**83.84**	**88.49**
11-Oct-17 05:00:00	11-Oct-17 06:00:00		5.98	0.00	0.00	5.56	2.1	329.7		1.97	0.00	0.00	1.83		10.35	18.92	83.84	86.68	11-Oct-17 05:00:00		**12.32**	**18.92**	**83.84**	**88.51**
11-Oct-17 06:00:00	11-Oct-17 07:00:00		5.92	0.00	0.00	24.39	2.1	329.7		1.95	0.00	0.00	8.04		10.35	18.92	83.84	86.68	11-Oct-17 06:00:00		**12.30**	**18.92**	**83.84**	**94.72**
11-Oct-17 07:00:00	11-Oct-17 08:00:00		6.00	0.00	0.00	5.48	2.1	329.7		1.98	0.00	0.00	1.81		10.35	18.92	83.84	86.68	11-Oct-17 07:00:00		**12.33**	**18.92**	**83.84**	**88.49**
11-Oct-17 08:00:00	11-Oct-17 09:00:00		5.85	0.00	0.00	5.46	2.1	329.7		1.93	0.00	0.00	1.80		10.35	18.92	83.84	86.68	11-Oct-17 08:00:00		**12.28**	**18.92**	**83.84**	**88.48**
11-Oct-17 09:00:00	11-Oct-17 10:00:00		5.69	0.00	0.00	5.45	2.1	329.7		1.88	0.00	0.00	1.80		10.35	18.92	83.84	86.68	11-Oct-17 09:00:00		**12.23**	**18.92**	**83.84**	**88.48**
11-Oct-17 10:00:00	11-Oct-17 11:00:00		5.05	0.00	0.00	5.38	2.1	329.7		1.67	0.00	0.00	1.77		10.35	18.92	83.84	86.68	11-Oct-17 10:00:00		**12.02**	**18.92**	**83.84**	**88.45**
11-Oct-17 11:00:00	11-Oct-17 12:00:00		5.32	0.00	0.00	5.21	2.1	329.7		1.75	0.00	0.00	1.72		10.35	18.92	83.84	86.68	11-Oct-17 11:00:00		**12.10**	**18.92**	**83.84**	**88.40**
11-Oct-17 12:00:00	11-Oct-17 13:00:00		4.75	0.00	0.00	5.05	2.1	329.7		1.57	0.00	0.00	1.66		10.35	18.92	83.84	86.68	11-Oct-17 12:00:00		**11.92**	**18.92**	**83.84**	**88.34**
11-Oct-17 13:00:00	11-Oct-17 14:00:00		4.19	0.00	0.00	4.89	2.1	329.7		1.38	0.00	0.00	1.61		10.35	18.92	83.84	86.68	11-Oct-17 13:00:00		**11.73**	**18.92**	**83.84**	**88.29**
11-Oct-17 14:00:00	11-Oct-17 15:00:00		24.13	0.00	0.00	4.68	2.1	329.7		7.96	0.00	0.00	1.54		10.35	18.92	83.84	86.68	11-Oct-17 14:00:00		**18.31**	**18.92**	**83.84**	**88.22**
11-Oct-17 15:00:00	11-Oct-17 16:00:00		31.86	0.00	0.00	4.59	2.1	329.7		10.50	0.00	0.00	1.51		10.35	18.92	83.84	86.68	11-Oct-17 15:00:00		**20.85**	**18.92**	**83.84**	**88.19**
11-Oct-17 16:00:00	11-Oct-17 17:00:00		16.97	0.00	0.00	4.56	2.1	329.7		5.60	0.00	0.00	1.50		10.35	18.92	83.84	86.68	11-Oct-17 16:00:00		**15.95**	**18.92**	**83.84**	**88.18**
11-Oct-17 17:00:00	11-Oct-17 18:00:00		21.03	0.00	0.00	4.54	2.1	329.7		6.93	0.00	0.00	1.50		10.35	18.92	83.84	86.68	11-Oct-17 17:00:00		**17.28**	**18.92**	**83.84**	**88.18**
11-Oct-17 18:00:00	11-Oct-17 19:00:00		14.85	0.00	0.00	4.54	2.1	329.7		4.90	0.00	0.00	1.50		10.35	18.92	83.84	86.68	11-Oct-17 18:00:00		**15.25**	**18.92**	**83.84**	**88.18**
11-Oct-17 19:00:00	11-Oct-17 20:00:00		14.17	0.00	0.00	4.68	2.1	329.7		4.67	0.00	0.00	1.54		10.35	18.92	83.84	86.68	11-Oct-17 19:00:00		**15.02**	**18.92**	**83.84**	**88.22**
11-Oct-17 20:00:00	11-Oct-17 21:00:00		14.46	0.00	0.00	4.84	2.1	329.7		4.77	0.00	0.00	1.59		10.35	18.92	83.84	86.68	11-Oct-17 20:00:00		**15.12**	**18.92**	**83.84**	**88.27**
11-Oct-17 21:00:00	11-Oct-17 22:00:00		13.12	0.00	0.00	4.99	2.1	329.7		4.33	0.00	0.00	1.65		10.35	18.92	83.84	86.68	11-Oct-17 21:00:00		**14.68**	**18.92**	**83.84**	**88.33**
11-Oct-17 22:00:00	11-Oct-17 23:00:00		6.31	0.00	0.00	5.09	2.1	329.7		2.08	0.00	0.00	1.68		10.35	18.92	83.84	86.68	11-Oct-17 22:00:00		**12.43**	**18.92**	**83.84**	**88.36**
11-Oct-17 23:00:00	12-Oct-17 00:00:00		20.97	0.00	0.00	5.16

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
14-Oct-17 01:00:00	14-Oct-17 02:00:00		2.80	0.00	0.00	5.13	2.1	329.7		0.92	0.00	0.00	1.69		10.35	18.92	83.84	86.68	14-Oct-17 01:00:00		**11.27**	**18.92**	**83.84**	**88.37**
14-Oct-17 02:00:00	14-Oct-17 03:00:00		0.25	0.00	0.00	5.12	2.1	329.7		0.08	0.00	0.00	1.69		10.35	18.92	83.84	86.68	14-Oct-17 02:00:00		**10.43**	**18.92**	**83.84**	**88.37**
14-Oct-17 03:00:00	14-Oct-17 04:00:00		17.82	0.00	0.00	5.07	2.1	329.7		5.88	0.00	0.00	1.67		10.35	18.92	83.84	86.68	14-Oct-17 03:00:00		**16.23**	**18.92**	**83.84**	**88.35**
14-Oct-17 04:00:00	14-Oct-17 05:00:00		32.54	0.00	0.00	5.05	2.1	329.7		10.73	0.00	0.00	1.66		10.35	18.92	83.84	86.68	14-Oct-17 04:00:00		**21.08**	**18.92**	**83.84**	**88.34**
14-Oct-17 05:00:00	14-Oct-17 06:00:00		14.15	0.00	0.00	5.17	2.1	329.7		4.66	0.00	0.00	1.71		10.35	18.92	83.84	86.68	14-Oct-17 05:00:00		**15.01**	**18.92**	**83.84**	**88.39**
14-Oct-17 06:00:00	14-Oct-17 07:00:00		6.77	0.00	0.00	5.30	2.1	329.7		2.23	0.00	0.00	1.75		10.35	18.92	83.84	86.68	14-Oct-17 06:00:00		**12.58**	**18.92**	**83.84**	**88.43**
14-Oct-17 07:00:00	14-Oct-17 08:00:00		18.42	0.00	0.00	5.37	2.1	329.7		6.07	0.00	0.00	1.77		10.35	18.92	83.84	86.68	14-Oct-17 07:00:00		**16.42**	**18.92**	**83.84**	**88.45**
14-Oct-17 08:00:00	14-Oct-17 09:00:00		24.97	0.00	0.00	5.22	2.1	329.7		8.23	0.00	0.00	1.72		10.35	18.92	83.84	86.68	14-Oct-17 08:00:00		**18.58**	**18.92**	**83.84**	**88.40**
14-Oct-17 09:00:00	14-Oct-17 10:00:00		26.09	0.00	0.00	5.11	2.1	329.7		8.60	0.00	0.00	1.69		10.35	18.92	83.84	86.68	14-Oct-17 09:00:00		**18.95**	**18.92**	**83.84**	**88.37**
14-Oct-17 10:00:00	14-Oct-17 11:00:00		26.78	0.00	0.00	5.01	2.1	329.7		8.83	0.00	0.00	1.65		10.35	18.92	83.84	86.68	14-Oct-17 10:00:00		**19.18**	**18.92**	**83.84**	**88.33**
14-Oct-17 11:00:00	14-Oct-17 12:00:00		28.77	0.00	0.00	4.91	2.1	329.7		9.49	0.00	0.00	1.62		10.35	18.92	83.84	86.68	14-Oct-17 11:00:00		**19.84**	**18.92**	**83.84**	**88.30**
14-Oct-17 12:00:00	14-Oct-17 13:00:00		29.02	0.00	0.00	4.86	2.1	329.7		9.57	0.00	0.00	1.60		10.35	18.92	83.84	86.68	14-Oct-17 12:00:00		**19.92**	**18.92**	**83.84**	**88.28**
14-Oct-17 13:00:00	14-Oct-17 14:00:00		27.22	0.00	0.00	4.80	2.1	329.7		8.98	0.00	0.00	1.58		10.35	18.92	83.84	86.68	14-Oct-17 13:00:00		**19.33**	**18.92**	**83.84**	**88.26**
14-Oct-17 14:00:00	14-Oct-17 15:00:00		22.17	0.00	0.00	4.73	2.1	329.7		7.31	0.00	0.00	1.56		10.35	18.92	83.84	86.68	14-Oct-17 14:00:00		**17.66**	**18.92**	**83.84**	**88.24**
14-Oct-17 15:00:00	14-Oct-17 16:00:00		8.32	0.00	0.00	4.67	2.1	329.7		2.74	0.00	0.00	1.54		10.35	18.92	83.84	86.68	14-Oct-17 15:00:00		**13.09**	**18.92**	**83.84**	**88.22**
14-Oct-17 16:00:00	14-Oct-17 17:00:00		0.00	0.00	0.00	4.64	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	14-Oct-17 16:00:00		**10.35**	**18.92**	**83.84**	**88.21**
14-Oct-17 17:00:00	14-Oct-17 18:00:00		6.59	0.00	0.00	4.64	2.1	329.7		2.17	0.00	0.00	1.53		10.35	18.92	83.84	86.68	14-Oct-17 17:00:00		**12.52**	**18.92**	**83.84**	**88.21**
14-Oct-17 18:00:00	14-Oct-17 19:00:00		8.85	0.00	0.00	4.64	2.1	329.7		2.92	0.00	0.00	1.53		10.35	18.92	83.84	86.68	14-Oct-17 18:00:00		**13.27**	**18.92**	**83.84**	**88.21**
14-Oct-17 19:00:00	14-Oct-17 20:00:00		8.64	0.00	0.00	4.65	2.1	329.7		2.85	0.00	0.00	1.53		10.35	18.92	83.84	86.68	14-Oct-17 19:00:00		**13.20**	**18.92**	**83.84**	**88.21**
14-Oct-17 20:00:00	14-Oct-17 21:00:00		14.15	0.00	0.00	4.76	2.1	329.7		4.67	0.00	0.00	1.57		10.35	18.92	83.84	86.68	14-Oct-17 20:00:00		**15.02**	**18.92**	**83.84**	**88.25**
14-Oct-17 21:00:00	14-Oct-17 22:00:00		3.85	0.00	0.00	4.90	2.1	329.7		1.27	0.00	0.00	1.62		10.35	18.92	83.84	86.68	14-Oct-17 21:00:00		**11.62**	**18.92**	**83.84**	**88.30**
14-Oct-17 22:00:00	14-Oct-17 23:00:00		0.83	0.00	0.00	5.05	2.1	329.7		0.27	0.00	0.00	1.66		10.35	18.92	83.84	86.68	14-Oct-17 22:00:00		**10.62**	**18.92**	**83.84**	**88.34**
14-Oct-17 23:00:00	15-Oct-17 00:00:00		2.67	0.00	0.00	5.20	2.1	329.7		0.88	0.00	0.00	1.72		10.35	18.92	83.84	86.68	14-Oct-17 23:00:00		**11.23**	**18.92**	**83.84**	**88.40**
15-Oct-17 00:00:00	15-Oct-17 01:00:00		20.88	0.00	0.00	5.30	2.1	329.7		6.88	0.00	0.00	1.75		10.35	18.92	83.84	86.68	15-Oct-17 00:00:00		**17.23**	**18.92**	**83.84**	**88.43**
15-Oct-17 01:00:00	15-Oct-17 02:00:00		38.33	0.00	0.00	5.33	2.1	329.7		12.64	0.00	0.00	1.76		10.35	18.92	83.84	86.68	15-Oct-17 01:00:00		**22.99**	**18.92**	**83.84**	**88.44**
15-Oct-17 02:00:00	15-Oct-17 03:00:00		12.80	0.00	0.00	5.36	2.1	329.7		4.22	0.00	0.00	1.77		10.35	18.92	83.84	86.68	15-Oct-17 02:00:00		**14.57**	**18.92**	**83.84**	**88.45**
15-Oct-17 03:00:00	15-Oct-17 04:00:00		20.36	0.00	0.00	5.41	2.1	329.7		6.71	0.00	0.00	1.78		10.35	18.92	83.84	86.68	15-Oct-17 03:00:00		**17.06**	**18.92**	**83.84**	**88.46**
15-Oct-17 04:00:00	15-Oct-17 05:00:00		17.92	0.00	0.00	5.50	2.1	329.7		5.91	0.00	0.00	1.81		10.35	18.92	83.84	86.68	15-Oct-17 04:00:00		**16.26**	**18.92**	**83.84**	**88.49**
15-Oct-17 05:00:00	15-Oct-17 06:00:00		7.19	0.00	0.00	5.55	2.1	329.7		2.37	0.00	0.00	1.83		10.35	18.92	83.84	86.68	15-Oct-17 05:00:00		**12.72**	**18.92**	**83.84**	**88.51**
15-Oct-17 06:00:00	15-Oct-17 07:00:00		1.98	0.00	0.00	5.60	2.1	329.7		0.65	0.00	0.00	1.85		10.35	18.92	83.84	86.68	15-Oct-17 06:00:00		**11.00**	**18.92**	**83.84**	**88.53**
15-Oct-17 07:00:00	15-Oct-17 08:00:00		2.33	0.00	0.00	5.65	2.1	329.7		0.77	0.00	0.00	1.86		10.35	18.92	83.84	86.68	15-Oct-17 07:00:00		**11.12**	**18.92**	**83.84**	**88.54**
15-Oct-17 08:00:00	15-Oct-17 09:00:00		1.81	0.00	0.00	5.52	2.1	329.7		0.60	0.00	0.00	1.82		10.35	18.92	83.84	86.68	15-Oct-17 08:00:00		**10.95**	**18.92**	**83.84**	**88.50**
15-Oct-17 09:00:00	15-Oct-17 10:00:00		1.05	0.00	0.00	5.27	2.1	329.7		0.35	0.00	0.00	1.74		10.35	18.92	83.84	86.68	15-Oct-17 09:00:00		**10.70**	**18.92**	**83.84**	**88.42**
15-Oct-17 10:00:00	15-Oct-17 11:00:00		0.44	0.00	0.00	5.03	2.1	329.7		0.15	0.00	0.00	1.66		10.35	18.92	83.84	86.68	15-Oct-17 10:00:00		**10.50**	**18.92**	**83.84**	**88.34**
15-Oct-17 11:00:00	15-Oct-17 12:00:00		7.46	0.00	0.00	4.78	2.1	329.7		2.46	0.00	0.00	1.58		10.35	18.92	83.84	86.68	15-Oct-17 11:00:00		**12.81**	**18.92**	**83.84**	**88.26**
15-Oct-17 12:00:00	15-Oct-17 13:00:00		14.63	0.00	0.00	4.58	2.1	329.7		4.82	0.00	0.00	1.51		10.35	18.92	83.84	86.68	15-Oct-17 12:00:00		**15.17**	**18.92**	**83.84**	**88.19**
15-Oct-17 13:00:00	15-Oct-17 14:00:00		26.09	0.00	0.00	4.44	2.1	329.7		8.60	0.00	0.00	1.46		10.35	18.92	83.84	86.68	15-Oct-17 13:00:00		**18.95**	**18.92**	**83.84**	**88.14**
15-Oct-17 14:00:00	15-Oct-17 15:00:00		24.47	0.00	0.00	4.30	2.1	329.7		8.07	0.00	0.00	1.42		10.35	18.92	83.84	86.68	15-Oct-17 14:00:00		**18.42**	**18.92**	**83.84**	**88.10**
15-Oct-17 15:00:00	15-Oct-17 16:00:00		24.93	0.00	0.00	4.17	2.1	329.7		8.22	0.00	0.00	1.37		10.35	18.92	83.84	86.68	15-Oct-17 15:00:00		**18.57**	**18.92**	**83.84**	**88.05**
15-Oct-17 16:00:00	15-Oct-17 17:00:00		30.89	0.00	0.00	4.36	2.1	329.7		10.18	0.00	0.00	1.44		10.35	18.92	83.84	86.68	15-Oct-17 16:00:00		**20.53**	**18.92**	**83.84**	**88.12**
15-Oct-17 17:00:00	15-Oct-17 18:00:00		40.07	0.00	0.00	4.69	2.1	329.7		13.21	0.00	0.00	1.55		10.35	18.92	83.84	86.68	15-Oct-17 17:00:00		**23.56**	**18.92**	**83.84**	**88.23**
15-Oct-17 18:00:00	15-Oct-17 19:00:00		61.17	0.00	0.00	5.03	2.1	329.7		20.17	0.00	0.00	1.66		10.35	18.92	83.84	86.68	15-Oct-17 18:00:00		**30.52**	**18.92**	**83.84**	**88.34**
15-Oct-17 19:00:00	15-Oct-17 20:00:00		75.45	0.00	0.00	5.36	2.1	329.7		24.88	0.00	0.00	1.77		10.35	18.92	83.84	86.68	15-Oct-17 19:00:00		**35.23**	**18.92**	**83.84**	**88.45**
15-Oct-17 20:00:00	15-Oct-17 21:00:00		55.54	0.00	0.00	5.42	2.1	329.7		18.31	0.00	0.00	1.79		10.35	18.92	83.84	86.68	15-Oct-17 20:00:00		**28.66**	**18.92**	**83.84**	**88.47**
15-Oct-17 21:00:00	15-Oct-17 22:00:00		38.24	0.00	0.00	5.32	2.1	329.7		12.61	0.00	0.00	1.75		10.35	18.92	83.84	86.68	15-Oct-17 21:00:00		**22.96**	**18.92**	**83.84**	**88.43**
15-Oct-17 22:00:00	15-Oct-17 23:00:00		28.00	0.00	0.00	5.22	2.1	329.7		9.23	0.00	0.00	1.72		10.35	18.92	83.84	86.68	15-Oct-17 22:00:00		**19.58**	**18.92**	**83.84**	**88.40**
15-Oct-17 23:00:00	16-Oct-17 00:00:00		62.43	0.00	0.00	5.14	2.1	329.7		20.58	0.00	0.00	1.69		10.35	18.92	83.84	86.68	15-Oct-17 23:00:00		**30.93**	**18.92**	**83.84**	**88.37**
16-Oct-17 00:00:00	16-Oct-17 01:00:00		54.61	0.00	0.00	5.18	2.1	329.7		18.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	16-Oct-17 00:00:00		**28.35**	**18.92**	**83.84**	**88.39**
16-Oct-17 01:00:00	16-Oct-17 02:00:00		75.65	0.00	0.00	5.20	2.1	329.7		24.94	0.00	0.00	1.71		10.35	18.92	83.84	86.68	16-Oct-17 01:00:00		**35.29**	**18.92**	**83.84**	**88.39**
16-Oct-17 02:00:00	16-Oct-17 03:00:00		76.72	0.00	0.00	5.22	2.1	329.7		25.29	0.00	0.00	1.72		10.35	18.92	83.84	86.68	16-Oct-17 02:00:00		**35.64**	**18.92**	**83.84**	**88.40**
16-Oct-17 03:00:00	16-Oct-17 04:00:00		81.96	0.00	0.00	5.24	2.1	329.7		27.02	0.00	0.00	1.73		10.35	18.92	83.84	86.68	16-Oct-17 03:00:00		**37.37**	**18.92**	**83.84**	**88.41**
16-Oct-17 04:00:00	16-Oct-17 05:00:00		63.46	0.00	0.00	5.35	2.1	329.7		20.92	0.00	0.00	1.76		10.35	18.92	83.84	86.68	16-Oct-17 04:00:00		**31.27**	**18.92**	**83.84**	**88.44**
16-Oct-17 05:00:00	16-Oct-17 06:00:00		22.72	0.00	0.00	5.47	2.1	329.7		7.49	0.00	0.00	1.80		10.35	18.92	83.84	86.68	16-Oct-17 05:00:00		**17.84**	**18.92**	**83.84**	**88.48**
16-Oct-17 06:00:00	16-Oct-17 07:00:00		9.63	0.00	0.00	5.60	2.1	329.7		3.18	0.00	0.00	1.84		10.35	18.92	83.84	86.68	16-Oct-17 06:00:00		**13.53**	**18.92**	**83.84**	**88.52**
16-Oct-17 07:00:00	16-Oct-17 08:00:00		11.64	0.00	0.00	5.70	2.1	329.7		3.84	0.00	0.00	1.88		10.35	18.92	83.84	86.68	16-Oct-17 07:00:00		**14.19**	**18.92**	**83.84**	**88.56**
16-Oct-17 08:00:00	16-Oct-17 09:00:00		11.56	0.00	0.00	5.63	2.1	329.7		3.81	0.00	0.00	1.86		10.35	18.92	83.84	86.68	16-Oct-17 08:00:00		**14.16**	**18.92**	**83.84**	**88.54**
16-Oct-17 09:00:00	16-Oct-17 10:00:00		10.48	0.00	0.00	5.61	2.1	329.7		3.45	0.00	0.00	1.85		10.35	18.92	83.84	86.68	16-Oct-17 09:00:00		**13.80**	**18.92**	**83.84**	**88.53**
16-Oct-17 10:00:00	16-Oct-17 11:00:00		10.37	0.00	0.00	5.58	2.1	329.7		3.42	0.00	0.00	1.84		10.35	18.92	83.84	86.68	16-Oct-17 10:00:00		**13.77**	**18.92**	**83.84**	**88.52**
16-Oct-17 11:00:00	16-Oct-17 12:00:00		10.19	0.00	0.00	5.59	2.1	329.7		3.36	0.00	0.00	1.84		10.35	18.92	83.84	86.68	16-Oct-17 11:00:00		**13.71**	**18.92**	**83.84**	**88.52**
16-Oct-17 12:00:00	16-Oct-17 13:00:00		27.36	0.00	0.00	5.62	2.1	329.7		9.02	0.00	0.00	1.85		10.35	18.92	83.84	86.68	16-Oct-17 12:00:00		**19.37**	**18.92**	**83.84**	**88.53**
16-Oct-17 13:00:00	16-Oct-17 14:00:00		63.56	0.00	0.00	5.50	2.1	329.7		20.95	0.00	0.00	1.81		10.35	18.92	83.84	86.68	16-Oct-17 13:00:00		**31.30**	**18.92**	**83.84**	**88.49**
16-Oct-17 14:00:00	16-Oct-17 15:00:00		42.72	0.00	0.00	5.39	2.1	329.7		14.09	0.00	0.00	1.78		10.35	18.92	83.84	86.68	16-Oct-17 14:00:00		**24.44**	**18.92**	**83.84**	**88.46**
16-Oct-17 15:00:00	16-Oct-17 16:00:00		41.41	0.00	0.00	5.27	2.1	329.7		13.65	0.00	0.00	1.74		10.35	18.92	83.84	86.68	16-Oct-17 15:00:00		**24.00**	**18.92**	**83.84**	**88.42**
16-Oct-17 16:00:00	16-Oct-17 17:00:00		40.99	0.00	0.00	5.32	2.1	329.7		13.51	0.00	0.00	1.76		10.35	18.92	83.84	86.68	16-Oct-17 16:00:00		**23.86**	**18.92**	**83.84**	**88.44**
16-Oct-17 17:00:00	16-Oct-17 18:00:00		38.85	0.00	0.00	5.46	2.1	329.7		12.81	0.00	0.00	1.80		10.35	18.92	83.84	86.68	16-Oct-17 17:00:00		**23.16**	**18.92**	**83.84**	**88.48**
16-Oct-17 18:00:00	16-Oct-17 19:00:00		39.91	0.00	0.00	5.60	2.1	329.7		13.16	0.00	0.00	1.85		10.35	18.92	83.84	86.68	16-Oct-17 18:00:00		**23.51**	**18.92**	**83.84**	**88.53**
16-Oct-17 19:00:00	16-Oct-17 20:00:00		37.91	0.00	0.00	5.74	2.1	329.7		12.50	0.00	0.00	1.89		10.35	18.92	83.84	86.68	16-Oct-17 19:00:00		**22.85**	**18.92**	**83.84**	**88.57**
16-Oct-17 20:00:00	16-Oct-17 21:00:00		22.61	0.00	0.00	5.90	2.1	329.7		7.46	0.00	0.00	1.95		10.35	18.92	83.84	86.68	16-Oct-17 20:00:00		**17.81**	**18.92**	**83.84**	**88.63**
16-Oct-17 21:00:00	16-Oct-17 22:00:00		29.58	0.00	0.00	6.02	2.1	329.7		9.75	0.00	0.00	1.99		10.35	18.92	83.84	86.68	16-Oct-17 21:00:00		**20.10**	**18.92**	**83.84**	**88.67**
16-Oct-17 22:00:00	16-Oct-17 23:00:00		16.38	0.00	0.00	6.14	2.1	329.7		5.40	0.00	0.00	2.03		10.35	18.92	83.84	86.68	16-Oct-17 22:00:00		**15.75**	**18.92**	**83.84**	**88.71**
16-Oct-17 23:00:00	17-Oct-17 00:00:00		11.87	0.00	0.00	6.27	2.1	329.7		3.91	0.00	0.00	2.07		10.35	18.92	83.84	86.68	16-Oct-17 23:00:00		**14.26**	**18.92**	**83.84**	**88.75**
17-Oct-17 00:00:00	17-Oct-17 01:00:00		7.17	0.00	0.00	6.36	2.1	329.7		2.37	0.00	0.00	2.10		10.35	18.92	83.84	86.68	17-Oct-17 00:00:00		**12.72**	**18.92**	**83.84**	**88.78**
17-Oct-17 01:00:00	17-Oct-17 02:00:00		5.45	0.00	0.00	6.39	2.1	329.7		1.80	0.00	0.00	2.11		10.35	18.92	83.84	86.68	17-Oct-17 01:00:00		**12.15**	**18.92**	**83.84**	**88.79**
17-Oct-17 02:00:00	17-Oct-17 03:00:00		22.88	0.00	0.00	6.41	2.1	329.7		7.54	0.00	0.00	2.11		10.35	18.92	83.84	86.68	17-Oct-17 02:00:00		**17.89**	**18.92**	**83.84**	**88.79**
17-Oct-17 03:00:00	17-Oct-17 04:00:00		2.55	0.00	0.00	6.43	2.1	329.7		0.84	0.00	0.00	2.12		10.35	18.92	83.84	86.68	17-Oct-17 03:00:00		**11.19**	**18.92**	**83.84**	**88.80**
17-Oct-17 04:00:00	17-Oct-17 05:00:00		2.05	0.00	0.00	6.45	2.1	329.7		0.68	0.00	0.00	2.13		10.35	18.92	83.84	86.68	17-Oct-17 04:00:00		**11.03**	**18.92**	**83.84**	**88.81**
17-Oct-17 05:00:00	17-Oct-17 06:00:00		9.18	0.00	0.00	6.52	2.1	329.7		3.03	0.00	0.00	2.15		10.35	18.92	83.84	86.68	17-Oct-17 05:00:00		**13.38**	**18.92**	**83.84**	**88.83**
17-Oct-17 06:00:00	17-Oct-17 07:00:00		0.12	0.00	0.00	6.58	2.1	329.7		0.04	0.00	0.00	2.17		10.35	18.92	83.84	86.68	17-Oct-17 06:00:00		**10.39**	**18.92**	**83.84**	**88.85**
17-Oct-17 07:00:00	17-Oct-17 08:00:00		2.82	0.00	0.00	6.65	2.1	329.7		0.93	0.00	0.00	2.19		10.35	18.92	83.84	86.68	17-Oct-17 07:00:00		**11.28**	**18.92**	**83.84**	**88.87**
17-Oct-17 08:00:00	17-Oct-17 09:00:00		0.12	0.00	0.00	6.56	2.1	329.7		0.04	0.00	0.00	2.16		10.35	18.92	83.84	86.68	17-Oct-17 08:00:00		**10.39**	**18.92**	**83.84**	**88.84**
17-Oct-17 09:00:00	17-Oct-17 10:00:00		0.08	0.00	0.00	6.37	2.1	329.7		0.03	0.00	0.00	2.10		10.35	18.92	83.84	86.68	17-Oct-17 09:00:00		**10.38**	**18.92**	**83.84**	**88.78**
17-Oct-17 10:00:00	17-Oct-17 11:00:00		0.04	0.00	0.00	6.17	2.1	329.7		0.01	0.00	0.00	2.04		10.35	18.92	83.84	86.68	17-Oct-17 10:00:00		**10.36**	**18.92**	**83.84**	**88.72**
17-Oct-17 11:00:00	17-Oct-17 12:00:00		0.01	0.00	0.00	5.94	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	17-Oct-17 11:00:00		**10.35**	**18.92**	**83.84**	**88.64**
17-Oct-17 12:00:00	17-Oct-17 13:00:00		0.00	0.00	0.00	5.56	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	17-Oct-17 12:00:00		**10.35**	**18.92**	**83.84**	**88.51**
17-Oct-17 13:00:00	17-Oct-17 14:00:00		0.00	0.00	0.00	5.47	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	17-Oct-17 13:00:00		**10.35**	**18.92**	**83.84**	**88.48**
17-Oct-17 14:00:00	17-Oct-17 15:00:00		0.00	0.00	0.00	5.38	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	17-Oct-17 14:00:00		**10.35**	**18.92**	**83.84**	**88.46**
17-Oct-17 15:00:00	17-Oct-17 16:00:00		2.18	0.00	0.00	5.29	2.1	329.7		0.72	0.00	0.00	1.74		10.35	18.92	83.84	86.68	17-Oct-17 15:00:00		**11.07**	**18.92**	**83.84**	**88.42**
17-Oct-17 16:00:00	17-Oct-17 17:00:00		0.24	0.00	0.00	5.26	2.1	329.7		0.08	0.00	0.00	1.73		10.35	18.92	83.84	86.68	17-Oct-17 16:00:00		**10.43**	**18.92**	**83.84**	**88.41**
17-Oct-17 17:00:00	17-Oct-17 18:00:00		0.07	0.00	0.00	5.32	2.1	329.7		0.02	0.00	0.00	1.75		10.35	18.92	83.84	86.68	17-Oct-17 17:00:00		**10.37**	**18.92**	**83.84**	**88.43**
17-Oct-17 18:00:00	17-Oct-17 19:00:00		0.14	0.00	0.00	5.37	2.1	329.7		0.05	0.00	0.00	1.77		10.35	18.92	83.84	86.68	17-Oct-17 18:00:00		**10.40**	**18.92**	**83.84**	**88.45**
17-Oct-17 19:00:00	17-Oct-17 20:00:00		0.00	0.00	0.00	5.45	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	17-Oct-17 19:00:00		**10.35**	**18.92**	**83.84**	**88.48**
17-Oct-17 20:00:00	17-Oct-17 21:00:00		0.50	0.00	0.00	5.72	2.1	329.7		0.17	0.00	0.00	1.89		10.35	18.92	83.84	86.68	17-Oct-17 20:00:00		**10.52**	**18.92**	**83.84**	**88.57**
17-Oct-17 21:00:00	17-Oct-17 22:00:00		0.67	0.00	0.00	5.90	2.1	329.7		0.22	0.00	0.00	1.95		10.35	18.92	83.84	86.68	17-Oct-17 21:00:00		**10.57**	**18.92**	**83.84**	**88.63**
17-Oct-17 22:00:00	17-Oct-17 23:00:00		1.03	0.00	0.00	6.08

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
20-Oct-17 00:00:00	20-Oct-17 01:00:00		1.57	0.00	0.00	6.27	2.1	329.7		0.52	0.00	0.00	2.07		10.35	18.92	83.84	86.68	20-Oct-17 00:00:00		**10.87**	**18.92**	**83.84**	**88.75**
20-Oct-17 01:00:00	20-Oct-17 02:00:00		1.10	0.00	0.00	6.32	2.1	329.7		0.36	0.00	0.00	2.08		10.35	18.92	83.84	86.68	20-Oct-17 01:00:00		**10.71**	**18.92**	**83.84**	**88.76**
20-Oct-17 02:00:00	20-Oct-17 03:00:00		0.63	0.00	0.00	6.36	2.1	329.7		0.21	0.00	0.00	2.10		10.35	18.92	83.84	86.68	20-Oct-17 02:00:00		**10.56**	**18.92**	**83.84**	**88.78**
20-Oct-17 03:00:00	20-Oct-17 04:00:00		0.16	0.00	0.00	6.41	2.1	329.7		0.05	0.00	0.00	2.11		10.35	18.92	83.84	86.68	20-Oct-17 03:00:00		**10.40**	**18.92**	**83.84**	**88.79**
20-Oct-17 04:00:00	20-Oct-17 05:00:00		0.00	0.00	0.00	6.59	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	20-Oct-17 04:00:00		**10.35**	**18.92**	**83.84**	**88.85**
20-Oct-17 05:00:00	20-Oct-17 06:00:00		0.18	0.00	0.00	6.56	2.1	329.7		0.06	0.00	0.00	2.16		10.35	18.92	83.84	86.68	20-Oct-17 05:00:00		**10.41**	**18.92**	**83.84**	**88.84**
20-Oct-17 06:00:00	20-Oct-17 07:00:00		0.39	0.00	0.00	6.53	2.1	329.7		0.13	0.00	0.00	2.15		10.35	18.92	83.84	86.68	20-Oct-17 06:00:00		**10.48**	**18.92**	**83.84**	**88.83**
20-Oct-17 07:00:00	20-Oct-17 08:00:00		0.00	0.00	0.00	6.51	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	20-Oct-17 07:00:00		**10.35**	**18.92**	**83.84**	**88.83**
20-Oct-17 08:00:00	20-Oct-17 09:00:00		0.00	0.00	0.00	6.32	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	20-Oct-17 08:00:00		**10.35**	**18.92**	**83.84**	**88.76**
20-Oct-17 09:00:00	20-Oct-17 10:00:00		0.09	0.00	0.00	5.85	2.1	329.7		0.03	0.00	0.00	1.93		10.35	18.92	83.84	86.68	20-Oct-17 09:00:00		**10.38**	**18.92**	**83.84**	**88.61**
20-Oct-17 10:00:00	20-Oct-17 11:00:00		0.00	0.00	0.00	5.39	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	20-Oct-17 10:00:00		**10.35**	**18.92**	**83.84**	**88.46**
20-Oct-17 11:00:00	20-Oct-17 12:00:00		1.96	0.00	0.00	4.93	2.1	329.7		0.65	0.00	0.00	1.63		10.35	18.92	83.84	86.68	20-Oct-17 11:00:00		**11.00**	**18.92**	**83.84**	**88.31**
20-Oct-17 12:00:00	20-Oct-17 13:00:00		12.06	0.00	0.00	4.58	2.1	329.7		3.98	0.00	0.00	1.51		10.35	18.92	83.84	86.68	20-Oct-17 12:00:00		**14.33**	**18.92**	**83.84**	**88.19**
20-Oct-17 13:00:00	20-Oct-17 14:00:00		20.46	0.00	0.00	4.45	2.1	329.7		6.75	0.00	0.00	1.47		10.35	18.92	83.84	86.68	20-Oct-17 13:00:00		**17.10**	**18.92**	**83.84**	**88.15**
20-Oct-17 14:00:00	20-Oct-17 15:00:00		45.75	0.00	0.00	4.31	2.1	329.7		15.08	0.00	0.00	1.42		10.35	18.92	83.84	86.68	20-Oct-17 14:00:00		**25.43**	**18.92**	**83.84**	**88.10**
20-Oct-17 15:00:00	20-Oct-17 16:00:00		39.90	0.00	0.00	4.17	2.1	329.7		13.16	0.00	0.00	1.38		10.35	18.92	83.84	86.68	20-Oct-17 15:00:00		**23.51**	**18.92**	**83.84**	**88.06**
20-Oct-17 16:00:00	20-Oct-17 17:00:00		41.95	0.00	0.00	4.25	2.1	329.7		13.83	0.00	0.00	1.40		10.35	18.92	83.84	86.68	20-Oct-17 16:00:00		**24.18**	**18.92**	**83.84**	**88.08**
20-Oct-17 17:00:00	20-Oct-17 18:00:00		69.47	0.00	0.00	4.42	2.1	329.7		22.90	0.00	0.00	1.46		10.35	18.92	83.84	86.68	20-Oct-17 17:00:00		**33.25**	**18.92**	**83.84**	**88.14**
20-Oct-17 18:00:00	20-Oct-17 19:00:00		73.99	0.00	0.00	4.59	2.1	329.7		24.39	0.00	0.00	1.51		10.35	18.92	83.84	86.68	20-Oct-17 18:00:00		**34.74**	**18.92**	**83.84**	**88.19**
20-Oct-17 19:00:00	20-Oct-17 20:00:00		48.13	0.00	0.00	4.76	2.1	329.7		15.87	0.00	0.00	1.57		10.35	18.92	83.84	86.68	20-Oct-17 19:00:00		**26.22**	**18.92**	**83.84**	**88.25**
20-Oct-17 20:00:00	20-Oct-17 21:00:00		36.85	0.00	0.00	4.87	2.1	329.7		12.15	0.00	0.00	1.61		10.35	18.92	83.84	86.68	20-Oct-17 20:00:00		**22.50**	**18.92**	**83.84**	**88.29**
20-Oct-17 21:00:00	20-Oct-17 22:00:00		27.26	0.00	0.00	5.13	2.1	329.7		8.99	0.00	0.00	1.69		10.35	18.92	83.84	86.68	20-Oct-17 21:00:00		**19.34**	**18.92**	**83.84**	**88.37**
20-Oct-17 22:00:00	20-Oct-17 23:00:00		9.55	0.00	0.00	5.39	2.1	329.7		3.15	0.00	0.00	1.78		10.35	18.92	83.84	86.68	20-Oct-17 22:00:00		**13.50**	**18.92**	**83.84**	**88.46**
20-Oct-17 23:00:00	21-Oct-17 00:00:00		3.77	0.00	0.00	5.64	2.1	329.7		1.24	0.00	0.00	1.86		10.35	18.92	83.84	86.68	20-Oct-17 23:00:00		**11.59**	**18.92**	**83.84**	**88.54**
21-Oct-17 00:00:00	21-Oct-17 01:00:00		4.44	0.00	0.00	5.83	2.1	329.7		1.46	0.00	0.00	1.92		10.35	18.92	83.84	86.68	21-Oct-17 00:00:00		**11.81**	**18.92**	**83.84**	**88.60**
21-Oct-17 01:00:00	21-Oct-17 02:00:00		2.55	0.00	0.00	5.96	2.1	329.7		0.84	0.00	0.00	1.97		10.35	18.92	83.84	86.68	21-Oct-17 01:00:00		**11.19**	**18.92**	**83.84**	**88.65**
21-Oct-17 02:00:00	21-Oct-17 03:00:00		13.64	0.00	0.00	6.09	2.1	329.7		4.50	0.00	0.00	2.01		10.35	18.92	83.84	86.68	21-Oct-17 02:00:00		**14.85**	**18.92**	**83.84**	**88.69**
21-Oct-17 03:00:00	21-Oct-17 04:00:00		8.41	0.00	0.00	6.22	2.1	329.7		2.77	0.00	0.00	2.05		10.35	18.92	83.84	86.68	21-Oct-17 03:00:00		**13.12**	**18.92**	**83.84**	**88.73**
21-Oct-17 04:00:00	21-Oct-17 05:00:00		9.02	0.00	0.00	6.20	2.1	329.7		2.97	0.00	0.00	2.05		10.35	18.92	83.84	86.68	21-Oct-17 04:00:00		**13.32**	**18.92**	**83.84**	**88.73**
21-Oct-17 05:00:00	21-Oct-17 06:00:00		15.82	0.00	0.00	6.25	2.1	329.7		5.22	0.00	0.00	2.06		10.35	18.92	83.84	86.68	21-Oct-17 05:00:00		**15.57**	**18.92**	**83.84**	**88.74**
21-Oct-17 06:00:00	21-Oct-17 07:00:00		16.21	0.00	0.00	6.30	2.1	329.7		5.34	0.00	0.00	2.08		10.35	18.92	83.84	86.68	21-Oct-17 06:00:00		**15.69**	**18.92**	**83.84**	**88.76**
21-Oct-17 07:00:00	21-Oct-17 08:00:00		0.25	0.00	0.00	6.36	2.1	329.7		0.08	0.00	0.00	2.10		10.35	18.92	83.84	86.68	21-Oct-17 07:00:00		**10.43**	**18.92**	**83.84**	**88.78**
21-Oct-17 08:00:00	21-Oct-17 09:00:00		0.17	0.00	0.00	6.23	2.1	329.7		0.06	0.00	0.00	2.05		10.35	18.92	83.84	86.68	21-Oct-17 08:00:00		**10.41**	**18.92**	**83.84**	**88.73**
21-Oct-17 09:00:00	21-Oct-17 10:00:00		0.10	0.00	0.00	5.85	2.1	329.7		0.03	0.00	0.00	1.93		10.35	18.92	83.84	86.68	21-Oct-17 09:00:00		**10.38**	**18.92**	**83.84**	**88.61**
21-Oct-17 10:00:00	21-Oct-17 11:00:00		0.29	0.00	0.00	5.47	2.1	329.7		0.10	0.00	0.00	1.80		10.35	18.92	83.84	86.68	21-Oct-17 10:00:00		**10.45**	**18.92**	**83.84**	**88.48**
21-Oct-17 11:00:00	21-Oct-17 12:00:00		4.59	0.00	0.00	5.09	2.1	329.7		1.51	0.00	0.00	1.68		10.35	18.92	83.84	86.68	21-Oct-17 11:00:00		**11.86**	**18.92**	**83.84**	**88.36**
21-Oct-17 12:00:00	21-Oct-17 13:00:00		13.16	0.00	0.00	4.71	2.1	329.7		4.34	0.00	0.00	1.55		10.35	18.92	83.84	86.68	21-Oct-17 12:00:00		**14.69**	**18.92**	**83.84**	**88.23**
21-Oct-17 13:00:00	21-Oct-17 14:00:00		12.14	0.00	0.00	4.56	2.1	329.7		4.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	21-Oct-17 13:00:00		**14.35**	**18.92**	**83.84**	**88.18**
21-Oct-17 14:00:00	21-Oct-17 15:00:00		35.23	0.00	0.00	4.41	2.1	329.7		11.61	0.00	0.00	1.46		10.35	18.92	83.84	86.68	21-Oct-17 14:00:00		**21.96**	**18.92**	**83.84**	**88.14**
21-Oct-17 15:00:00	21-Oct-17 16:00:00		46.62	0.00	0.00	4.27	2.1	329.7		15.37	0.00	0.00	1.41		10.35	18.92	83.84	86.68	21-Oct-17 15:00:00		**25.72**	**18.92**	**83.84**	**88.09**
21-Oct-17 16:00:00	21-Oct-17 17:00:00		30.39	0.00	0.00	4.23	2.1	329.7		10.02	0.00	0.00	1.39		10.35	18.92	83.84	86.68	21-Oct-17 16:00:00		**20.37**	**18.92**	**83.84**	**88.07**
21-Oct-17 17:00:00	21-Oct-17 18:00:00		39.58	0.00	0.00	4.42	2.1	329.7		13.05	0.00	0.00	1.46		10.35	18.92	83.84	86.68	21-Oct-17 17:00:00		**23.40**	**18.92**	**83.84**	**88.14**
21-Oct-17 18:00:00	21-Oct-17 19:00:00		32.40	0.00	0.00	4.61	2.1	329.7		10.68	0.00	0.00	1.52		10.35	18.92	83.84	86.68	21-Oct-17 18:00:00		**21.03**	**18.92**	**83.84**	**88.20**
21-Oct-17 19:00:00	21-Oct-17 20:00:00		29.59	0.00	0.00	4.80	2.1	329.7		9.75	0.00	0.00	1.58		10.35	18.92	83.84	86.68	21-Oct-17 19:00:00		**20.10**	**18.92**	**83.84**	**88.26**
21-Oct-17 20:00:00	21-Oct-17 21:00:00		21.85	0.00	0.00	4.93	2.1	329.7		7.20	0.00	0.00	1.62		10.35	18.92	83.84	86.68	21-Oct-17 20:00:00		**17.55**	**18.92**	**83.84**	**88.30**
21-Oct-17 21:00:00	21-Oct-17 22:00:00		41.62	0.00	0.00	5.11	2.1	329.7		13.72	0.00	0.00	1.69		10.35	18.92	83.84	86.68	21-Oct-17 21:00:00		**24.07**	**18.92**	**83.84**	**88.37**
21-Oct-17 22:00:00	21-Oct-17 23:00:00		23.04	0.00	0.00	5.30	2.1	329.7		7.60	0.00	0.00	1.75		10.35	18.92	83.84	86.68	21-Oct-17 22:00:00		**17.95**	**18.92**	**83.84**	**88.43**
21-Oct-17 23:00:00	22-Oct-17 00:00:00		24.13	0.00	0.00	5.49	2.1	329.7		7.96	0.00	0.00	1.81		10.35	18.92	83.84	86.68	21-Oct-17 23:00:00		**18.31**	**18.92**	**83.84**	**88.49**
22-Oct-17 00:00:00	22-Oct-17 01:00:00		27.52	0.00	0.00	5.69	2.1	329.7		9.07	0.00	0.00	1.88		10.35	18.92	83.84	86.68	22-Oct-17 00:00:00		**19.42**	**18.92**	**83.84**	**88.56**
22-Oct-17 01:00:00	22-Oct-17 02:00:00		13.26	0.00	0.00	5.79	2.1	329.7		4.37	0.00	0.00	1.91		10.35	18.92	83.84	86.68	22-Oct-17 01:00:00		**14.72**	**18.92**	**83.84**	**88.59**
22-Oct-17 02:00:00	22-Oct-17 03:00:00		5.61	0.00	0.00	5.87	2.1	329.7		1.85	0.00	0.00	1.94		10.35	18.92	83.84	86.68	22-Oct-17 02:00:00		**12.20**	**18.92**	**83.84**	**88.62**
22-Oct-17 03:00:00	22-Oct-17 04:00:00		6.19	0.00	0.00	5.96	2.1	329.7		2.04	0.00	0.00	1.97		10.35	18.92	83.84	86.68	22-Oct-17 03:00:00		**12.39**	**18.92**	**83.84**	**88.65**
22-Oct-17 04:00:00	22-Oct-17 05:00:00		9.10	0.00	0.00	5.93	2.1	329.7		3.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	22-Oct-17 04:00:00		**13.35**	**18.92**	**83.84**	**88.64**
22-Oct-17 05:00:00	22-Oct-17 06:00:00		2.99	0.00	0.00	5.97	2.1	329.7		0.99	0.00	0.00	1.97		10.35	18.92	83.84	86.68	22-Oct-17 05:00:00		**11.34**	**18.92**	**83.84**	**88.65**
22-Oct-17 06:00:00	22-Oct-17 07:00:00		8.69	0.00	0.00	6.02	2.1	329.7		2.86	0.00	0.00	1.98		10.35	18.92	83.84	86.68	22-Oct-17 06:00:00		**13.21**	**18.92**	**83.84**	**88.66**
22-Oct-17 07:00:00	22-Oct-17 08:00:00		1.30	0.00	0.00	6.07	2.1	329.7		0.43	0.00	0.00	2.00		10.35	18.92	83.84	86.68	22-Oct-17 07:00:00		**10.78**	**18.92**	**83.84**	**88.68**
22-Oct-17 08:00:00	22-Oct-17 09:00:00		0.20	0.00	0.00	6.04	2.1	329.7		0.07	0.00	0.00	1.99		10.35	18.92	83.84	86.68	22-Oct-17 08:00:00		**10.42**	**18.92**	**83.84**	**88.67**
22-Oct-17 09:00:00	22-Oct-17 10:00:00		0.11	0.00	0.00	5.74	2.1	329.7		0.04	0.00	0.00	1.89		10.35	18.92	83.84	86.68	22-Oct-17 09:00:00		**10.39**	**18.92**	**83.84**	**88.57**
22-Oct-17 10:00:00	22-Oct-17 11:00:00		0.91	0.00	0.00	5.42	2.1	329.7		0.30	0.00	0.00	1.79		10.35	18.92	83.84	86.68	22-Oct-17 10:00:00		**10.65**	**18.92**	**83.84**	**88.47**
22-Oct-17 11:00:00	22-Oct-17 12:00:00		9.50	0.00	0.00	5.10	2.1	329.7		3.13	0.00	0.00	1.68		10.35	18.92	83.84	86.68	22-Oct-17 11:00:00		**13.48**	**18.92**	**83.84**	**88.36**
22-Oct-17 12:00:00	22-Oct-17 13:00:00		39.38	0.00	0.00	4.77	2.1	329.7		12.98	0.00	0.00	1.57		10.35	18.92	83.84	86.68	22-Oct-17 12:00:00		**23.33**	**18.92**	**83.84**	**88.25**
22-Oct-17 13:00:00	22-Oct-17 14:00:00		48.74	0.00	0.00	4.72	2.1	329.7		16.07	0.00	0.00	1.56		10.35	18.92	83.84	86.68	22-Oct-17 13:00:00		**26.42**	**18.92**	**83.84**	**88.24**
22-Oct-17 14:00:00	22-Oct-17 15:00:00		44.27	0.00	0.00	4.69	2.1	329.7		14.60	0.00	0.00	1.55		10.35	18.92	83.84	86.68	22-Oct-17 14:00:00		**24.95**	**18.92**	**83.84**	**88.23**
22-Oct-17 15:00:00	22-Oct-17 16:00:00		55.77	0.00	0.00	4.66	2.1	329.7		18.39	0.00	0.00	1.54		10.35	18.92	83.84	86.68	22-Oct-17 15:00:00		**28.74**	**18.92**	**83.84**	**88.22**
22-Oct-17 16:00:00	22-Oct-17 17:00:00		80.17	0.00	0.00	4.59	2.1	329.7		26.43	0.00	0.00	1.51		10.35	18.92	83.84	86.68	22-Oct-17 16:00:00		**36.78**	**18.92**	**83.84**	**88.19**
22-Oct-17 17:00:00	22-Oct-17 18:00:00		55.37	0.00	0.00	4.70	2.1	329.7		18.26	0.00	0.00	1.55		10.35	18.92	83.84	86.68	22-Oct-17 17:00:00		**28.61**	**18.92**	**83.84**	**88.23**
22-Oct-17 18:00:00	22-Oct-17 19:00:00		59.33	0.00	0.00	4.82	2.1	329.7		19.56	0.00	0.00	1.59		10.35	18.92	83.84	86.68	22-Oct-17 18:00:00		**29.91**	**18.92**	**83.84**	**88.27**
22-Oct-17 19:00:00	22-Oct-17 20:00:00		58.45	0.00	0.00	4.93	2.1	329.7		19.27	0.00	0.00	1.63		10.35	18.92	83.84	86.68	22-Oct-17 19:00:00		**29.62**	**18.92**	**83.84**	**88.31**
22-Oct-17 20:00:00	22-Oct-17 21:00:00		61.57	0.00	0.00	5.08	2.1	329.7		20.30	0.00	0.00	1.68		10.35	18.92	83.84	86.68	22-Oct-17 20:00:00		**30.65**	**18.92**	**83.84**	**88.36**
22-Oct-17 21:00:00	22-Oct-17 22:00:00		62.66	0.00	0.00	5.13	2.1	329.7		20.66	0.00	0.00	1.69		10.35	18.92	83.84	86.68	22-Oct-17 21:00:00		**31.01**	**18.92**	**83.84**	**88.37**
22-Oct-17 22:00:00	22-Oct-17 23:00:00		589.28	0.00	0.00	5.16	2.1	329.7		194.29	0.00	0.00	1.70		10.35	18.92	83.84	86.68	22-Oct-17 22:00:00		**204.64**	**18.92**	**83.84**	**88.38**
22-Oct-17 23:00:00	23-Oct-17 00:00:00		675.70	0.00	0.00	5.20	2.1	329.7		222.78	0.00	0.00	1.71		10.35	18.92	83.84	86.68	22-Oct-17 23:00:00		**233.13**	**18.92**	**83.84**	**88.39**
23-Oct-17 00:00:00	23-Oct-17 01:00:00		643.28	0.00	0.00	5.27	2.1	329.7		212.09	0.00	0.00	1.74		10.35	18.92	83.84	86.68	23-Oct-17 00:00:00		**222.44**	**18.92**	**83.84**	**88.42**
23-Oct-17 01:00:00	23-Oct-17 02:00:00		611.52	0.00	0.00	5.35	2.1	329.7		201.62	0.00	0.00	1.76		10.35	18.92	83.84	86.68	23-Oct-17 01:00:00		**211.97**	**18.92**	**83.84**	**88.44**
23-Oct-17 02:00:00	23-Oct-17 03:00:00		645.09	0.00	0.00	5.43	2.1	329.7		212.69	0.00	0.00	1.79		10.35	18.92	83.84	86.68	23-Oct-17 02:00:00		**223.04**	**18.92**	**83.84**	**88.47**
23-Oct-17 03:00:00	23-Oct-17 04:00:00		648.89	0.00	0.00	5.52	2.1	329.7		213.94	0.00	0.00	1.82		10.35	18.92	83.84	86.68	23-Oct-17 03:00:00		**224.29**	**18.92**	**83.84**	**88.50**
23-Oct-17 04:00:00	23-Oct-17 05:00:00		641.93	0.00	0.00	5.63	2.1	329.7		211.65	0.00	0.00	1.86		10.35	18.92	83.84	86.68	23-Oct-17 04:00:00		**222.00**	**18.92**	**83.84**	**88.54**
23-Oct-17 05:00:00	23-Oct-17 06:00:00		645.17	0.00	0.00	5.67	2.1	329.7		212.71	0.00	0.00	1.87		10.35	18.92	83.84	86.68	23-Oct-17 05:00:00		**223.06**	**18.92**	**83.84**	**88.55**
23-Oct-17 06:00:00	23-Oct-17 07:00:00		656.14	0.00	0.00	5.70	2.1	329.7		216.33	0.00	0.00	1.88		10.35	18.92	83.84	86.68	23-Oct-17 06:00:00		**226.68**	**18.92**	**83.84**	**88.56**
23-Oct-17 07:00:00	23-Oct-17 08:00:00		659.35	0.00	0.00	5.74	2.1	329.7		217.39	0.00	0.00	1.89		10.35	18.92	83.84	86.68	23-Oct-17 07:00:00		**227.74**	**18.92**	**83.84**	**88.57**
23-Oct-17 08:00:00	23-Oct-17 09:00:00		673.15	0.00	0.00	5.79	2.1	329.7		221.94	0.00	0.00	1.91		10.35	18.92	83.84	86.68	23-Oct-17 08:00:00		**232.29**	**18.92**	**83.84**	**88.59**
23-Oct-17 09:00:00	23-Oct-17 10:00:00		412.04	372.05	0.00	5.65	2.1	329.7		135.85	122.67	0.00	1.86		10.35	18.92	83.84	86.68	23-Oct-17 09:00:00		**146.20**	**141.59**	**83.84**	**88.54**
23-Oct-17 10:00:00	23-Oct-17 11:00:00		40.27	429.50	0.00	5.49	2.1	329.7		13.28	141.61	0.00	1.81		10.35	18.92	83.84	86.68	23-Oct-17 10:00:00		**23.63**	**160.53**	**83.84**	**88.49**
23-Oct-17 11:00:00	23-Oct-17 12:00:00		37.07	417.07	0.00	5.34	2.1	329.7		12.22	137.51	0.00	1.76		10.35	18.92	83.84	86.68	23-Oct-17 11:00:00		**22.57**	**156.43**	**83.84**	**88.44**
23-Oct-17 12:00:00	23-Oct-17 13:00:00		39.87	417.55	0.00	5.29	2.1	329.7		13.15	137.67	0.00	1.74		10.35	18.92	83.84	86.68	23-Oct-17 12:00:00		**23.50**	**156.59**	**83.84**	**88.42**
23-Oct-17 13:00:00	23-Oct-17 14:00:00		45.43	417.71	0.00	5.29	2.1	329.7		14.98	137.72	0.00	1.74		10.35	18.92	83.84	86.68	23-Oct-17 13:00:00		**25.33**	**156.64**	**83.84**	**88.42**
23-Oct-17 14:00:00	23-Oct-17 15:00:00		46.85	418.52	0.00	5.28	2.1	329.7		15.44	137.99	0.00	1.74		10.35	18.92	83.84	86.68	23-Oct-17 14:00:00		**25.79**	**156.91**	**83.84**	**88.42**
23-Oct-17 15:00:00	23-Oct-17 16:00:00		46.07	417.92	0.00	5.27	2.1	329.7		15.19	137.79	0.00	1.74		10.35	18.92	83.84	86.68	23-Oct-17 15:00:00		**25.54**	**156.71**	**83.84**	**88.42**
23-Oct-17 16:00:00	23-Oct-17 17:00:00		48.09	527.40	0.00	5.27	2.1	329.7		15.86	173.88	0.00	1.74		10.35	18.92	83.84	86.68	23-Oct-17 16:00:00		**26.21**	**192.80**	**83.84**	**88.42**
23-Oct-17 17:00:00	23-Oct-17 18:00:00		48.50	702.06	0.00	5.36	2.1	329.7		15.99	231.47	0.00	1.77		10.35	18.92	83.84	86.68	23-Oct-17 17:00:00		**26.34**	**250.39**	**83.84**	**88.45**
23-Oct-17 18:00:00	23-Oct-17 19:00:00		47.96	806.84	0.00	5.45	2.1	329.7		15.81	266.02	0.00	1.80		10.35	18.92	83.84	86.68	23-Oct-17 18:00:00		**26.16**	**284.94**	**83.84**	**88.48**
23-Oct-17 19:00:00	23-Oct-17 20:00:00		50.34	769.30	0.00	5.54	2.1	329.7		16.60	253.64	0.00	1.83		10.35	18.92	83.84	86.68	23-Oct-17 19:00:00		**26.95**	**272.56**	**83.84**	**88.51**
23-Oct-17 20:00:00	23-Oct-17 21:00:00		56.66	1,462.93	0.00	5.65	2.1	329.7		18.68	482.33	0.00	1.86		10.35	18.92	83.84	86.68	23-Oct-17 20:00:00		**29.03**	**501.25**	**83.84**	**88.54**
23-Oct-17 21:00:00	23-Oct-17 22:00:00		51.68	1,502.66	0.00	5

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
25-Oct-17 23:00:00	26-Oct-17 00:00:00		0.85	0.00	0.00	5.90	2.1	329.7		0.28	0.00	0.00	1.94		10.35	18.92	83.84	86.68	25-Oct-17 23:00:00		10.63	18.92	83.84	88.62
26-Oct-17 00:00:00	26-Oct-17 01:00:00		0.48	0.00	0.00	5.88	2.1	329.7		0.16	0.00	0.00	1.94		10.35	18.92	83.84	86.68	26-Oct-17 00:00:00		10.51	18.92	83.84	88.62
26-Oct-17 01:00:00	26-Oct-17 02:00:00		0.00	0.00	0.00	6.24	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	26-Oct-17 01:00:00		10.35	18.92	83.84	88.74
26-Oct-17 02:00:00	26-Oct-17 03:00:00		6.27	0.00	0.00	6.64	2.1	329.7		2.07	0.00	0.00	2.19		10.35	18.92	83.84	86.68	26-Oct-17 02:00:00		12.42	18.92	83.84	88.87
26-Oct-17 03:00:00	26-Oct-17 04:00:00		8.88	0.00	0.00	7.03	2.1	329.7		2.93	0.00	0.00	2.32		10.35	18.92	83.84	86.68	26-Oct-17 03:00:00		13.28	18.92	83.84	89.00
26-Oct-17 04:00:00	26-Oct-17 05:00:00		1.29	0.00	0.00	7.34	2.1	329.7		0.43	0.00	0.00	2.42		10.35	18.92	83.84	86.68	26-Oct-17 04:00:00		10.78	18.92	83.84	89.10
26-Oct-17 05:00:00	26-Oct-17 06:00:00		0.48	0.00	0.00	7.24	2.1	329.7		0.16	0.00	0.00	2.39		10.35	18.92	83.84	86.68	26-Oct-17 05:00:00		10.51	18.92	83.84	89.07
26-Oct-17 06:00:00	26-Oct-17 07:00:00		1.03	0.00	0.00	7.10	2.1	329.7		0.34	0.00	0.00	2.34		10.35	18.92	83.84	86.68	26-Oct-17 06:00:00		10.69	18.92	83.84	89.02
26-Oct-17 07:00:00	26-Oct-17 08:00:00		1.55	0.00	0.00	6.96	2.1	329.7		0.51	0.00	0.00	2.30		10.35	18.92	83.84	86.68	26-Oct-17 07:00:00		10.86	18.92	83.84	88.98
26-Oct-17 08:00:00	26-Oct-17 09:00:00		12.69	0.00	0.00	6.79	2.1	329.7		4.18	0.00	0.00	2.24		10.35	18.92	83.84	86.68	26-Oct-17 08:00:00		14.53	18.92	83.84	88.92
26-Oct-17 09:00:00	26-Oct-17 10:00:00		26.00	0.00	0.00	6.50	2.1	329.7		8.57	0.00	0.00	2.14		10.35	18.92	83.84	86.68	26-Oct-17 09:00:00		18.92	18.92	83.84	88.82
26-Oct-17 10:00:00	26-Oct-17 11:00:00		10.46	0.00	0.00	6.22	2.1	329.7		3.45	0.00	0.00	2.05		10.35	18.92	83.84	86.68	26-Oct-17 10:00:00		13.80	18.92	83.84	88.73
26-Oct-17 11:00:00	26-Oct-17 12:00:00		5.00	0.00	0.00	6.46	2.1	329.7		1.65	0.00	0.00	2.13		10.35	18.92	83.84	86.68	26-Oct-17 11:00:00		12.00	18.92	83.84	88.81
26-Oct-17 12:00:00	26-Oct-17 13:00:00		0.00	0.00	0.00	5.71	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	26-Oct-17 12:00:00		10.35	18.92	83.84	88.56
26-Oct-17 13:00:00	26-Oct-17 14:00:00		1.28	0.00	0.00	5.46	2.1	329.7		0.42	0.00	0.00	1.80		10.35	18.92	83.84	86.68	26-Oct-17 13:00:00		10.77	18.92	83.84	88.48
26-Oct-17 14:00:00	26-Oct-17 15:00:00		4.02	0.00	0.00	5.63	2.1	329.7		1.33	0.00	0.00	1.86		10.35	18.92	83.84	86.68	26-Oct-17 14:00:00		11.68	18.92	83.84	88.54
26-Oct-17 15:00:00	26-Oct-17 16:00:00		1.82	0.00	0.00	5.51	2.1	329.7		0.60	0.00	0.00	1.82		10.35	18.92	83.84	86.68	26-Oct-17 15:00:00		10.95	18.92	83.84	88.50
26-Oct-17 16:00:00	26-Oct-17 17:00:00		9.38	0.00	0.00	5.40	2.1	329.7		3.09	0.00	0.00	1.78		10.35	18.92	83.84	86.68	26-Oct-17 16:00:00		13.44	18.92	83.84	88.46
26-Oct-17 17:00:00	26-Oct-17 18:00:00		8.74	0.00	0.00	5.30	2.1	329.7		2.88	0.00	0.00	1.75		10.35	18.92	83.84	86.68	26-Oct-17 17:00:00		13.23	18.92	83.84	88.43
26-Oct-17 18:00:00	26-Oct-17 19:00:00		1.22	0.00	0.00	5.19	2.1	329.7		0.40	0.00	0.00	1.71		10.35	18.92	83.84	86.68	26-Oct-17 18:00:00		10.75	18.92	83.84	88.39
26-Oct-17 19:00:00	26-Oct-17 20:00:00		0.71	0.00	0.00	5.35	2.1	329.7		0.24	0.00	0.00	1.77		10.35	18.92	83.84	86.68	26-Oct-17 19:00:00		10.59	18.92	83.84	88.45
26-Oct-17 20:00:00	26-Oct-17 21:00:00		9.25	0.00	0.00	5.63	2.1	329.7		3.05	0.00	0.00	1.86		10.35	18.92	83.84	86.68	26-Oct-17 20:00:00		13.40	18.92	83.84	88.54
26-Oct-17 21:00:00	26-Oct-17 22:00:00		2.05	0.00	0.00	5.91	2.1	329.7		0.68	0.00	0.00	1.95		10.35	18.92	83.84	86.68	26-Oct-17 21:00:00		11.03	18.92	83.84	88.63
26-Oct-17 22:00:00	26-Oct-17 23:00:00		0.00	0.00	0.00	6.22	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	26-Oct-17 22:00:00		10.35	18.92	83.84	88.73
26-Oct-17 23:00:00	27-Oct-17 00:00:00		0.00	0.00	0.00	6.42	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	26-Oct-17 23:00:00		10.35	18.92	83.84	88.80
27-Oct-17 00:00:00	27-Oct-17 01:00:00		0.00	0.00	0.00	6.49	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	27-Oct-17 00:00:00		10.35	18.92	83.84	88.82
27-Oct-17 01:00:00	27-Oct-17 02:00:00		0.09	0.00	0.00	6.56	2.1	329.7		0.03	0.00	0.00	2.16		10.35	18.92	83.84	86.68	27-Oct-17 01:00:00		10.38	18.92	83.84	88.84
27-Oct-17 02:00:00	27-Oct-17 03:00:00		0.93	0.00	0.00	6.60	2.1	329.7		0.31	0.00	0.00	2.18		10.35	18.92	83.84	86.68	27-Oct-17 02:00:00		10.66	18.92	83.84	88.86
27-Oct-17 03:00:00	27-Oct-17 04:00:00		3.07	0.00	0.00	6.58	2.1	329.7		1.01	0.00	0.00	2.17		10.35	18.92	83.84	86.68	27-Oct-17 03:00:00		11.36	18.92	83.84	88.85
27-Oct-17 04:00:00	27-Oct-17 05:00:00		5.71	0.00	0.00	6.57	2.1	329.7		1.88	0.00	0.00	2.17		10.35	18.92	83.84	86.68	27-Oct-17 04:00:00		12.23	18.92	83.84	88.85
27-Oct-17 05:00:00	27-Oct-17 06:00:00		3.92	0.00	0.00	6.57	2.1	329.7		1.29	0.00	0.00	2.17		10.35	18.92	83.84	86.68	27-Oct-17 05:00:00		11.64	18.92	83.84	88.85
27-Oct-17 06:00:00	27-Oct-17 07:00:00		3.59	0.00	0.00	6.55	2.1	329.7		1.18	0.00	0.00	2.16		10.35	18.92	83.84	86.68	27-Oct-17 06:00:00		11.53	18.92	83.84	88.84
27-Oct-17 07:00:00	27-Oct-17 08:00:00		4.98	0.00	0.00	6.42	2.1	329.7		1.64	0.00	0.00	2.12		10.35	18.92	83.84	86.68	27-Oct-17 07:00:00		11.99	18.92	83.84	88.80
27-Oct-17 08:00:00	27-Oct-17 09:00:00		2.42	0.00	0.00	6.27	2.1	329.7		0.80	0.00	0.00	2.07		10.35	18.92	83.84	86.68	27-Oct-17 08:00:00		11.15	18.92	83.84	88.75
27-Oct-17 09:00:00	27-Oct-17 10:00:00		1.61	0.00	0.00	6.11	2.1	329.7		0.53	0.00	0.00	2.02		10.35	18.92	83.84	86.68	27-Oct-17 09:00:00		10.88	18.92	83.84	88.70
27-Oct-17 10:00:00	27-Oct-17 11:00:00		2.48	0.00	0.00	6.00	2.1	329.7		0.82	0.00	0.00	1.98		10.35	18.92	83.84	86.68	27-Oct-17 10:00:00		11.17	18.92	83.84	88.66
27-Oct-17 11:00:00	27-Oct-17 12:00:00		1.75	0.00	0.00	5.88	2.1	329.7		0.58	0.00	0.00	1.94		10.35	18.92	83.84	86.68	27-Oct-17 11:00:00		10.93	18.92	83.84	88.62
27-Oct-17 12:00:00	27-Oct-17 13:00:00		6.70	0.00	0.00	5.62	2.1	329.7		2.21	0.00	0.00	1.85		10.35	18.92	83.84	86.68	27-Oct-17 12:00:00		12.56	18.92	83.84	88.53
27-Oct-17 13:00:00	27-Oct-17 14:00:00		2.91	0.00	0.00	5.37	2.1	329.7		0.96	0.00	0.00	1.77		10.35	18.92	83.84	86.68	27-Oct-17 13:00:00		11.31	18.92	83.84	88.45
27-Oct-17 14:00:00	27-Oct-17 15:00:00		1.89	0.00	0.00	5.12	2.1	329.7		0.62	0.00	0.00	1.69		10.35	18.92	83.84	86.68	27-Oct-17 14:00:00		10.97	18.92	83.84	88.37
27-Oct-17 15:00:00	27-Oct-17 16:00:00		31.32	0.00	0.00	5.06	2.1	329.7		10.33	0.00	0.00	1.67		10.35	18.92	83.84	86.68	27-Oct-17 15:00:00		20.68	18.92	83.84	88.35
27-Oct-17 16:00:00	27-Oct-17 17:00:00		18.09	0.00	0.00	5.11	2.1	329.7		5.96	0.00	0.00	1.69		10.35	18.92	83.84	86.68	27-Oct-17 16:00:00		16.31	18.92	83.84	88.37
27-Oct-17 17:00:00	27-Oct-17 18:00:00		4.90	0.00	0.00	5.16	2.1	329.7		1.62	0.00	0.00	1.70		10.35	18.92	83.84	86.68	27-Oct-17 17:00:00		11.97	18.92	83.84	88.38
27-Oct-17 18:00:00	27-Oct-17 19:00:00		4.61	0.00	0.00	5.22	2.1	329.7		1.52	0.00	0.00	1.72		10.35	18.92	83.84	86.68	27-Oct-17 18:00:00		11.87	18.92	83.84	88.40
27-Oct-17 19:00:00	27-Oct-17 20:00:00		5.02	0.00	0.00	5.39	2.1	329.7		1.66	0.00	0.00	1.78		10.35	18.92	83.84	86.68	27-Oct-17 19:00:00		12.01	18.92	83.84	88.46
27-Oct-17 20:00:00	27-Oct-17 21:00:00		0.00	0.00	0.00	5.56	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	27-Oct-17 20:00:00		10.35	18.92	83.84	88.51
27-Oct-17 21:00:00	27-Oct-17 22:00:00		8.90	0.00	0.00	5.73	2.1	329.7		2.94	0.00	0.00	1.89		10.35	18.92	83.84	86.68	27-Oct-17 21:00:00		13.29	18.92	83.84	88.57
27-Oct-17 22:00:00	27-Oct-17 23:00:00		6.54	0.00	0.00	5.90	2.1	329.7		2.16	0.00	0.00	1.94		10.35	18.92	83.84	86.68	27-Oct-17 22:00:00		12.51	18.92	83.84	88.62
27-Oct-17 23:00:00	28-Oct-17 00:00:00		1.97	0.00	0.00	6.03	2.1	329.7		0.65	0.00	0.00	1.99		10.35	18.92	83.84	86.68	27-Oct-17 23:00:00		11.00	18.92	83.84	88.67
28-Oct-17 00:00:00	28-Oct-17 01:00:00		9.59	0.00	0.00	6.13	2.1	329.7		3.16	0.00	0.00	2.02		10.35	18.92	83.84	86.68	28-Oct-17 00:00:00		13.51	18.92	83.84	88.70
28-Oct-17 01:00:00	28-Oct-17 02:00:00		7.76	0.00	0.00	6.24	2.1	329.7		2.56	0.00	0.00	2.06		10.35	18.92	83.84	86.68	28-Oct-17 01:00:00		12.91	18.92	83.84	88.74
28-Oct-17 02:00:00	28-Oct-17 03:00:00		6.06	0.00	0.00	6.33	2.1	329.7		2.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	28-Oct-17 02:00:00		12.35	18.92	83.84	88.77
28-Oct-17 03:00:00	28-Oct-17 04:00:00		0.06	0.00	0.00	6.34	2.1	329.7		0.02	0.00	0.00	2.09		10.35	18.92	83.84	86.68	28-Oct-17 03:00:00		10.37	18.92	83.84	88.77
28-Oct-17 04:00:00	28-Oct-17 05:00:00		0.00	0.00	0.00	6.33	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	28-Oct-17 04:00:00		10.35	18.92	83.84	88.77
28-Oct-17 05:00:00	28-Oct-17 06:00:00		0.00	0.00	0.00	6.33	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	28-Oct-17 05:00:00		10.35	18.92	83.84	88.77
28-Oct-17 06:00:00	28-Oct-17 07:00:00		0.00	0.00	0.00	6.34	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	28-Oct-17 06:00:00		10.35	18.92	83.84	88.77
28-Oct-17 07:00:00	28-Oct-17 08:00:00		0.00	0.00	0.00	6.27	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	28-Oct-17 07:00:00		10.35	18.92	83.84	88.75
28-Oct-17 08:00:00	28-Oct-17 09:00:00		0.00	0.00	0.00	6.13	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	28-Oct-17 08:00:00		10.35	18.92	83.84	88.70
28-Oct-17 09:00:00	28-Oct-17 10:00:00		0.00	0.00	0.00	5.98	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	28-Oct-17 09:00:00		10.35	18.92	83.84	88.65
28-Oct-17 10:00:00	28-Oct-17 11:00:00		0.00	0.00	0.00	5.80	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	28-Oct-17 10:00:00		10.35	18.92	83.84	88.59
28-Oct-17 11:00:00	28-Oct-17 12:00:00		4.12	0.00	0.00	5.52	2.1	329.7		1.36	0.00	0.00	1.82		10.35	18.92	83.84	86.68	28-Oct-17 11:00:00		11.71	18.92	83.84	88.50
28-Oct-17 12:00:00	28-Oct-17 13:00:00		5.80	0.00	0.00	5.28	2.1	329.7		1.91	0.00	0.00	1.74		10.35	18.92	83.84	86.68	28-Oct-17 12:00:00		12.26	18.92	83.84	88.42
28-Oct-17 13:00:00	28-Oct-17 14:00:00		4.58	0.00	0.00	5.03	2.1	329.7		1.51	0.00	0.00	1.66		10.35	18.92	83.84	86.68	28-Oct-17 13:00:00		11.86	18.92	83.84	88.34
28-Oct-17 14:00:00	28-Oct-17 15:00:00		0.91	0.00	0.00	4.78	2.1	329.7		0.30	0.00	0.00	1.58		10.35	18.92	83.84	86.68	28-Oct-17 14:00:00		10.65	18.92	83.84	88.26
28-Oct-17 15:00:00	28-Oct-17 16:00:00		16.41	0.00	0.00	4.73	2.1	329.7		5.41	0.00	0.00	1.56		10.35	18.92	83.84	86.68	28-Oct-17 15:00:00		15.76	18.92	83.84	88.24
28-Oct-17 16:00:00	28-Oct-17 17:00:00		26.06	0.00	0.00	4.83	2.1	329.7		8.59	0.00	0.00	1.59		10.35	18.92	83.84	86.68	28-Oct-17 16:00:00		18.94	18.92	83.84	88.27
28-Oct-17 17:00:00	28-Oct-17 18:00:00		22.50	0.00	0.00	4.93	2.1	329.7		7.42	0.00	0.00	1.62		10.35	18.92	83.84	86.68	28-Oct-17 17:00:00		17.77	18.92	83.84	88.30
28-Oct-17 18:00:00	28-Oct-17 19:00:00		17.93	0.00	0.00	5.04	2.1	329.7		5.91	0.00	0.00	1.66		10.35	18.92	83.84	86.68	28-Oct-17 18:00:00		16.26	18.92	83.84	88.34
28-Oct-17 19:00:00	28-Oct-17 20:00:00		19.00	0.00	0.00	5.15	2.1	329.7		6.27	0.00	0.00	1.70		10.35	18.92	83.84	86.68	28-Oct-17 19:00:00		16.62	18.92	83.84	88.38
28-Oct-17 20:00:00	28-Oct-17 21:00:00		19.11	0.00	0.00	5.18	2.1	329.7		6.30	0.00	0.00	1.71		10.35	18.92	83.84	86.68	28-Oct-17 20:00:00		16.65	18.92	83.84	88.39
28-Oct-17 21:00:00	28-Oct-17 22:00:00		19.23	0.00	0.00	5.20	2.1	329.7		6.34	0.00	0.00	1.72		10.35	18.92	83.84	86.68	28-Oct-17 21:00:00		16.69	18.92	83.84	88.40
28-Oct-17 22:00:00	28-Oct-17 23:00:00		19.24	0.00	0.00	5.22	2.1	329.7		6.34	0.00	0.00	1.72		10.35	18.92	83.84	86.68	28-Oct-17 22:00:00		16.69	18.92	83.84	88.40
28-Oct-17 23:00:00	29-Oct-17 00:00:00		19.10	0.00	0.00	5.22	2.1	329.7		6.30	0.00	0.00	1.72		10.35	18.92	83.84	86.68	28-Oct-17 23:00:00		16.65	18.92	83.84	88.40
29-Oct-17 00:00:00	29-Oct-17 01:00:00		19.00	0.00	0.00	5.23	2.1	329.7		6.26	0.00	0.00	1.72		10.35	18.92	83.84	86.68	29-Oct-17 00:00:00		16.61	18.92	83.84	88.40
29-Oct-17 01:00:00	29-Oct-17 02:00:00		18.90	0.00	0.00	5.24	2.1	329.7		6.23	0.00	0.00	1.73		10.35	18.92	83.84	86.68	29-Oct-17 01:00:00		16.58	18.92	83.84	88.41
29-Oct-17 02:00:00	29-Oct-17 03:00:00		18.74	0.00	0.00	5.25	2.1	329.7		6.18	0.00	0.00	1.73		10.35	18.92	83.84	86.68	29-Oct-17 02:00:00		16.53	18.92	83.84	88.41
29-Oct-17 03:00:00	29-Oct-17 04:00:00		18.86	0.00	0.00	5.36	2.1	329.7		6.22	0.00	0.00	1.77		10.35	18.92	83.84	86.68	29-Oct-17 03:00:00		16.57	18.92	83.84	88.45
29-Oct-17 04:00:00	29-Oct-17 05:00:00		19.10	0.00	0.00	5.57	2.1	329.7		6.30	0.00	0.00	1.84		10.35	18.92	83.84	86.68	29-Oct-17 04:00:00		16.65	18.92	83.84	88.52
29-Oct-17 05:00:00	29-Oct-17 06:00:00		19.34	0.00	0.00	5.77	2.1	329.7		6.38	0.00	0.00	1.90		10.35	18.92	83.84	86.68	29-Oct-17 05:00:00		16.73	18.92	83.84	88.58
29-Oct-17 06:00:00	29-Oct-17 07:00:00		19.07	0.00	0.00	5.98	2.1	329.7		6.29	0.00	0.00	1.97		10.35	18.92	83.84	86.68	29-Oct-17 06:00:00		16.64	18.92	83.84	88.65
29-Oct-17 07:00:00	29-Oct-17 08:00:00		7.43	0.00	0.00	6.20	2.1	329.7		2.45	0.00	0.00	2.04		10.35	18.92	83.84	86.68	29-Oct-17 07:00:00		12.80	18.92	83.84	88.72
29-Oct-17 08:00:00	29-Oct-17 09:00:00		0.20	0.00	0.00	6.41	2.1	329.7		0.07	0.00	0.00	2.11		10.35	18.92	83.84	86.68	29-Oct-17 08:00:00		10.42	18.92	83.84	88.79
29-Oct-17 09:00:00	29-Oct-17 10:00:00		5.14	0.00	0.00	6.62	2.1	329.7		1.69	0.00	0.00	2.18		10.35	18.92	83.84	86.68	29-Oct-17 09:00:00		12.04	18.92	83.84	88.86
29-Oct-17 10:00:00	29-Oct-17 11:00:00		0.68	0.00	0.00	6.83	2.1	329.7		0.22	0.00	0.00	2.25		10.35	18.92	83.84	86.68	29-Oct-17 10:00:00		10.57	18.92	83.84	88.93
29-Oct-17 11:00:00	29-Oct-17 12:00:00		2.74	0.00	0.00	6.99	2.1	329.7		0.90	0.00	0.00	2.30		10.35	18.92	83.84	86.68	29-Oct-17 11:00:00		11.25	18.92	83.84	88.98
29-Oct-17 12:00:00	29-Oct-17 13:00:00		5.07	0.00	0.00	7.15	2.1	329.7		1.67	0.00	0.00	2.36		10.35	18.92	83.84	86.68	29-Oct-17 12:00:00		12.02	18.92	83.84	89.04
29-Oct-17 13:00:00	29-Oct-17 14:00:00		1.31	0.00	0.00	7.32	2.1	329.7		0.43	0.00	0.00	2.41		10.35	18.92	83.84	86.68	29-Oct-17 13:00:00		10.78	18.92	83.84	89.09
29-Oct-17 14:00:00	29-Oct-17 15:00:00		7.80	0.00	0.00	7.44	2.1	329.7		2.57	0.00	0.00	2.45		10.35	18.92	83.84	86.68	29-Oct-17 14:00:00		12.92	18.92	83.84	89.13
29-Oct-17 15:00:00	29-Oct-17 16:00:00		8.44	0.00	0.00	7.30	2.1	329.7		2.78	0.00	0.00	2.41		10.35	18.92	83.84	86.68	29-Oct-17 15:00:00		13.13	18.92	83.84	89.09
29-Oct-17 16:00:00	29-Oct-17 17:00:00		7.64	0.00	0.00	7.31	2.1	329.7		2.52	0.00	0.00	2.41		10.35	18.92	83.84	86.68	29-Oct-17 16:00:00		12.87	18.92	83.84	89.09
29-Oct-17 17:00:00	29-Oct-17 18:00:00		8.12	0.00	0.00	7.31	2.1	329.7		2.68	0.00	0.00	2.41		10.35	18.92	83.84	86.68	29-Oct-17 17:00:00		13.03	18.92	83.84	89.09
29-Oct-17 18:00:00	29-Oct-17 19:00:00		9.22	0.00	0.00	7.33	2.1	329.7		3.04	0.00	0.00	2.42		10.35	18.92	83.84	86.68	29-Oct-17 18:00:00		13.39	18.92	83.84	89.10
29-Oct-17 19:00:00	29-Oct-17 20:00:00		10.56	0.00	0.00	7.47	2.1	329.7		3.48	0.00	0.00	2.46		10.35	18.92	83.84	86.68	29-Oct-17 19:00:00		13.83	18.92	83.84	89.14
29-Oct-17 20:00:00	29-Oct-17 21:00:00		3.04	0.00	0.00	7.60

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
31-Oct-17 22:00:00	31-Oct-17 23:00:00		0.00	0.00	0.00	5.82	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	31-Oct-17 22:00:00		**10.35**	**18.92**	**83.84**	**88.60**
31-Oct-17 23:00:00	01-Nov-17 00:00:00		0.23	0.00	0.00	6.09	2.1	329.7		0.08	0.00	0.00	2.01		10.35	18.92	83.84	86.68	31-Oct-17 23:00:00		**10.43**	**18.92**	**83.84**	**88.69**
01-Nov-17 00:00:00	01-Nov-17 01:00:00		0.54	0.00	0.00	6.16	2.1	329.7		0.18	0.00	0.00	2.03		10.35	18.92	83.84	86.68	01-Nov-17 00:00:00		**10.53**	**18.92**	**83.84**	**88.71**
01-Nov-17 01:00:00	01-Nov-17 02:00:00		2.14	0.00	0.00	6.23	2.1	329.7		0.71	0.00	0.00	2.05		10.35	18.92	83.84	86.68	01-Nov-17 01:00:00		**11.06**	**18.92**	**83.84**	**88.73**
01-Nov-17 02:00:00	01-Nov-17 03:00:00		0.52	0.00	0.00	6.30	2.1	329.7		0.17	0.00	0.00	2.08		10.35	18.92	83.84	86.68	01-Nov-17 02:00:00		**10.52**	**18.92**	**83.84**	**88.76**
01-Nov-17 03:00:00	01-Nov-17 04:00:00		0.14	0.00	0.00	6.35	2.1	329.7		0.05	0.00	0.00	2.09		10.35	18.92	83.84	86.68	01-Nov-17 03:00:00		**10.40**	**18.92**	**83.84**	**88.77**
01-Nov-17 04:00:00	01-Nov-17 05:00:00		0.00	0.00	0.00	6.36	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	01-Nov-17 04:00:00		**10.35**	**18.92**	**83.84**	**88.78**
01-Nov-17 05:00:00	01-Nov-17 06:00:00		0.00	0.00	0.00	6.37	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	01-Nov-17 05:00:00		**10.35**	**18.92**	**83.84**	**88.78**
01-Nov-17 06:00:00	01-Nov-17 07:00:00		0.00	0.00	0.00	6.39	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	01-Nov-17 06:00:00		**10.35**	**18.92**	**83.84**	**88.79**
01-Nov-17 07:00:00	01-Nov-17 08:00:00		0.00	0.00	0.00	6.30	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	01-Nov-17 07:00:00		**10.35**	**18.92**	**83.84**	**88.76**
01-Nov-17 08:00:00	01-Nov-17 09:00:00		0.00	0.00	0.00	6.04	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	01-Nov-17 08:00:00		**10.35**	**18.92**	**83.84**	**88.67**
01-Nov-17 09:00:00	01-Nov-17 10:00:00		0.00	0.00	0.00	5.79	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	01-Nov-17 09:00:00		**10.35**	**18.92**	**83.84**	**88.59**
01-Nov-17 10:00:00	01-Nov-17 11:00:00		0.00	0.00	0.00	5.53	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	01-Nov-17 10:00:00		**10.35**	**18.92**	**83.84**	**88.50**
01-Nov-17 11:00:00	01-Nov-17 12:00:00		0.22	0.00	0.00	5.19	2.1	329.7		0.07	0.00	0.00	1.71		10.35	18.92	83.84	86.68	01-Nov-17 11:00:00		**10.42**	**18.92**	**83.84**	**88.39**
01-Nov-17 12:00:00	01-Nov-17 13:00:00		1.64	0.00	0.00	5.04	2.1	329.7		0.54	0.00	0.00	1.66		10.35	18.92	83.84	86.68	01-Nov-17 12:00:00		**10.89**	**18.92**	**83.84**	**88.34**
01-Nov-17 13:00:00	01-Nov-17 14:00:00		3.28	0.00	0.00	4.89	2.1	329.7		1.08	0.00	0.00	1.61		10.35	18.92	83.84	86.68	01-Nov-17 13:00:00		**11.43**	**18.92**	**83.84**	**88.29**
01-Nov-17 14:00:00	01-Nov-17 15:00:00		8.00	0.00	0.00	4.73	2.1	329.7		2.64	0.00	0.00	1.56		10.35	18.92	83.84	86.68	01-Nov-17 14:00:00		**12.99**	**18.92**	**83.84**	**88.24**
01-Nov-17 15:00:00	01-Nov-17 16:00:00		7.18	0.00	0.00	4.70	2.1	329.7		2.37	0.00	0.00	1.55		10.35	18.92	83.84	86.68	01-Nov-17 15:00:00		**12.72**	**18.92**	**83.84**	**88.23**
01-Nov-17 16:00:00	01-Nov-17 17:00:00		0.90	0.00	0.00	4.79	2.1	329.7		0.30	0.00	0.00	1.58		10.35	18.92	83.84	86.68	01-Nov-17 16:00:00		**10.65**	**18.92**	**83.84**	**88.26**
01-Nov-17 17:00:00	01-Nov-17 18:00:00		3.31	0.00	0.00	4.88	2.1	329.7		1.09	0.00	0.00	1.61		10.35	18.92	83.84	86.68	01-Nov-17 17:00:00		**11.44**	**18.92**	**83.84**	**88.29**
01-Nov-17 18:00:00	01-Nov-17 19:00:00		2.82	0.00	0.00	4.98	2.1	329.7		0.93	0.00	0.00	1.64		10.35	18.92	83.84	86.68	01-Nov-17 18:00:00		**11.28**	**18.92**	**83.84**	**88.32**
01-Nov-17 19:00:00	01-Nov-17 20:00:00		3.02	0.00	0.00	5.26	2.1	329.7		0.99	0.00	0.00	1.73		10.35	18.92	83.84	86.68	01-Nov-17 19:00:00		**11.34**	**18.92**	**83.84**	**88.41**
01-Nov-17 20:00:00	01-Nov-17 21:00:00		7.48	0.00	0.00	5.40	2.1	329.7		2.47	0.00	0.00	1.78		10.35	18.92	83.84	86.68	01-Nov-17 20:00:00		**12.82**	**18.92**	**83.84**	**88.46**
01-Nov-17 21:00:00	01-Nov-17 22:00:00		3.82	0.00	0.00	5.55	2.1	329.7		1.26	0.00	0.00	1.83		10.35	18.92	83.84	86.68	01-Nov-17 21:00:00		**11.61**	**18.92**	**83.84**	**88.51**
01-Nov-17 22:00:00	01-Nov-17 23:00:00		2.26	0.00	0.00	5.69	2.1	329.7		0.75	0.00	0.00	1.88		10.35	18.92	83.84	86.68	01-Nov-17 22:00:00		**11.10**	**18.92**	**83.84**	**88.56**
01-Nov-17 23:00:00	02-Nov-17 00:00:00		16.21	0.00	0.00	5.78	2.1	329.7		5.34	0.00	0.00	1.91		10.35	18.92	83.84	86.68	01-Nov-17 23:00:00		**15.69**	**18.92**	**83.84**	**88.59**
02-Nov-17 00:00:00	02-Nov-17 01:00:00		19.96	0.00	0.00	5.78	2.1	329.7		6.58	0.00	0.00	1.91		10.35	18.92	83.84	86.68	02-Nov-17 00:00:00		**16.93**	**18.92**	**83.84**	**88.59**
02-Nov-17 01:00:00	02-Nov-17 02:00:00		5.71	0.00	0.00	5.78	2.1	329.7		1.88	0.00	0.00	1.90		10.35	18.92	83.84	86.68	02-Nov-17 01:00:00		**12.23**	**18.92**	**83.84**	**88.58**
02-Nov-17 02:00:00	02-Nov-17 03:00:00		2.10	0.00	0.00	5.78	2.1	329.7		0.69	0.00	0.00	1.90		10.35	18.92	83.84	86.68	02-Nov-17 02:00:00		**11.04**	**18.92**	**83.84**	**88.58**
02-Nov-17 03:00:00	02-Nov-17 04:00:00		2.68	0.00	0.00	5.65	2.1	329.7		0.88	0.00	0.00	1.86		10.35	18.92	83.84	86.68	02-Nov-17 03:00:00		**11.23**	**18.92**	**83.84**	**88.54**
02-Nov-17 04:00:00	02-Nov-17 05:00:00		3.96	0.00	0.00	5.66	2.1	329.7		1.31	0.00	0.00	1.87		10.35	18.92	83.84	86.68	02-Nov-17 04:00:00		**11.66**	**18.92**	**83.84**	**88.55**
02-Nov-17 05:00:00	02-Nov-17 06:00:00		0.42	0.00	0.00	5.69	2.1	329.7		0.14	0.00	0.00	1.87		10.35	18.92	83.84	86.68	02-Nov-17 05:00:00		**10.49**	**18.92**	**83.84**	**88.55**
02-Nov-17 06:00:00	02-Nov-17 07:00:00		0.26	0.00	0.00	5.71	2.1	329.7		0.09	0.00	0.00	1.88		10.35	18.92	83.84	86.68	02-Nov-17 06:00:00		**10.44**	**18.92**	**83.84**	**88.56**
02-Nov-17 07:00:00	02-Nov-17 08:00:00		0.16	0.00	0.00	5.68	2.1	329.7		0.05	0.00	0.00	1.87		10.35	18.92	83.84	86.68	02-Nov-17 07:00:00		**10.40**	**18.92**	**83.84**	**88.55**
02-Nov-17 08:00:00	02-Nov-17 09:00:00		0.05	0.00	0.00	5.53	2.1	329.7		0.02	0.00	0.00	1.82		10.35	18.92	83.84	86.68	02-Nov-17 08:00:00		**10.37**	**18.92**	**83.84**	**88.50**
02-Nov-17 09:00:00	02-Nov-17 10:00:00		0.00	0.00	0.00	5.39	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	02-Nov-17 09:00:00		**10.35**	**18.92**	**83.84**	**88.46**
02-Nov-17 10:00:00	02-Nov-17 11:00:00		0.04	0.00	0.00	5.24	2.1	329.7		0.01	0.00	0.00	1.73		10.35	18.92	83.84	86.68	02-Nov-17 10:00:00		**10.36**	**18.92**	**83.84**	**88.41**
02-Nov-17 11:00:00	02-Nov-17 12:00:00		0.00	0.00	0.00	5.01	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	02-Nov-17 11:00:00		**10.35**	**18.92**	**83.84**	**88.33**
02-Nov-17 12:00:00	02-Nov-17 13:00:00		2.69	0.00	0.00	4.70	2.1	329.7		0.89	0.00	0.00	1.55		10.35	18.92	83.84	86.68	02-Nov-17 12:00:00		**11.24**	**18.92**	**83.84**	**88.23**
02-Nov-17 13:00:00	02-Nov-17 14:00:00		6.17	0.00	0.00	4.66	2.1	329.7		2.04	0.00	0.00	1.53		10.35	18.92	83.84	86.68	02-Nov-17 13:00:00		**12.39**	**18.92**	**83.84**	**88.21**
02-Nov-17 14:00:00	02-Nov-17 15:00:00		15.43	0.00	0.00	4.67	2.1	329.7		5.09	0.00	0.00	1.54		10.35	18.92	83.84	86.68	02-Nov-17 14:00:00		**15.44**	**18.92**	**83.84**	**88.22**
02-Nov-17 15:00:00	02-Nov-17 16:00:00		20.86	0.00	0.00	4.69	2.1	329.7		6.88	0.00	0.00	1.55		10.35	18.92	83.84	86.68	02-Nov-17 15:00:00		**17.23**	**18.92**	**83.84**	**88.23**
02-Nov-17 16:00:00	02-Nov-17 17:00:00		3.84	0.00	0.00	4.70	2.1	329.7		1.27	0.00	0.00	1.55		10.35	18.92	83.84	86.68	02-Nov-17 16:00:00		**11.62**	**18.92**	**83.84**	**88.23**
02-Nov-17 17:00:00	02-Nov-17 18:00:00		0.00	0.00	0.00	4.80	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	02-Nov-17 17:00:00		**10.35**	**18.92**	**83.84**	**88.26**
02-Nov-17 18:00:00	02-Nov-17 19:00:00		0.00	0.00	0.00	4.97	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	02-Nov-17 18:00:00		**10.35**	**18.92**	**83.84**	**88.32**
02-Nov-17 19:00:00	02-Nov-17 20:00:00		0.00	0.00	0.00	5.14	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	02-Nov-17 19:00:00		**10.35**	**18.92**	**83.84**	**88.37**
02-Nov-17 20:00:00	02-Nov-17 21:00:00		18.18	0.00	0.00	5.35	2.1	329.7		5.99	0.00	0.00	1.76		10.35	18.92	83.84	86.68	02-Nov-17 20:00:00		**16.34**	**18.92**	**83.84**	**88.44**
02-Nov-17 21:00:00	02-Nov-17 22:00:00		9.33	0.00	0.00	5.79	2.1	329.7		3.08	0.00	0.00	1.91		10.35	18.92	83.84	86.68	02-Nov-17 21:00:00		**13.43**	**18.92**	**83.84**	**88.59**
02-Nov-17 22:00:00	02-Nov-17 23:00:00		8.78	0.00	0.00	5.91	2.1	329.7		2.89	0.00	0.00	1.95		10.35	18.92	83.84	86.68	02-Nov-17 22:00:00		**13.24**	**18.92**	**83.84**	**88.63**
02-Nov-17 23:00:00	03-Nov-17 00:00:00		5.93	0.00	0.00	6.02	2.1	329.7		1.95	0.00	0.00	1.98		10.35	18.92	83.84	86.68	02-Nov-17 23:00:00		**12.30**	**18.92**	**83.84**	**88.66**
03-Nov-17 00:00:00	03-Nov-17 01:00:00		0.78	0.00	0.00	6.13	2.1	329.7		0.26	0.00	0.00	2.02		10.35	18.92	83.84	86.68	03-Nov-17 00:00:00		**10.61**	**18.92**	**83.84**	**88.70**
03-Nov-17 01:00:00	03-Nov-17 02:00:00		1.21	0.00	0.00	6.21	2.1	329.7		0.40	0.00	0.00	2.05		10.35	18.92	83.84	86.68	03-Nov-17 01:00:00		**10.75**	**18.92**	**83.84**	**88.73**
03-Nov-17 02:00:00	03-Nov-17 03:00:00		7.56	0.00	0.00	6.25	2.1	329.7		2.49	0.00	0.00	2.06		10.35	18.92	83.84	86.68	03-Nov-17 02:00:00		**12.84**	**18.92**	**83.84**	**88.74**
03-Nov-17 03:00:00	03-Nov-17 04:00:00		4.58	0.00	0.00	6.28	2.1	329.7		1.51	0.00	0.00	2.07		10.35	18.92	83.84	86.68	03-Nov-17 03:00:00		**11.86**	**18.92**	**83.84**	**88.75**
03-Nov-17 04:00:00	03-Nov-17 05:00:00		2.12	0.00	0.00	6.32	2.1	329.7		0.70	0.00	0.00	2.08		10.35	18.92	83.84	86.68	03-Nov-17 04:00:00		**11.05**	**18.92**	**83.84**	**88.76**
03-Nov-17 05:00:00	03-Nov-17 06:00:00		1.06	0.00	0.00	6.34	2.1	329.7		0.35	0.00	0.00	2.09		10.35	18.92	83.84	86.68	03-Nov-17 05:00:00		**10.70**	**18.92**	**83.84**	**88.77**
03-Nov-17 06:00:00	03-Nov-17 07:00:00		0.00	0.00	0.00	6.34	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	03-Nov-17 06:00:00		**10.35**	**18.92**	**83.84**	**88.77**
03-Nov-17 07:00:00	03-Nov-17 08:00:00		3.62	0.00	0.00	6.34	2.1	329.7		1.19	0.00	0.00	2.09		10.35	18.92	83.84	86.68	03-Nov-17 07:00:00		**11.54**	**18.92**	**83.84**	**88.77**
03-Nov-17 08:00:00	03-Nov-17 09:00:00		5.85	0.00	0.00	6.34	2.1	329.7		1.93	0.00	0.00	2.09		10.35	18.92	83.84	86.68	03-Nov-17 08:00:00		**12.28**	**18.92**	**83.84**	**88.77**
03-Nov-17 09:00:00	03-Nov-17 10:00:00		3.67	0.00	0.00	6.20	2.1	329.7		1.21	0.00	0.00	2.04		10.35	18.92	83.84	86.68	03-Nov-17 09:00:00		**11.56**	**18.92**	**83.84**	**88.72**
03-Nov-17 10:00:00	03-Nov-17 11:00:00		3.98	0.00	0.00	5.84	2.1	329.7		1.31	0.00	0.00	1.92		10.35	18.92	83.84	86.68	03-Nov-17 10:00:00		**11.66**	**18.92**	**83.84**	**88.60**
03-Nov-17 11:00:00	03-Nov-17 12:00:00		2.70	0.00	0.00	5.46	2.1	329.7		0.89	0.00	0.00	1.80		10.35	18.92	83.84	86.68	03-Nov-17 11:00:00		**11.24**	**18.92**	**83.84**	**88.48**
03-Nov-17 12:00:00	03-Nov-17 13:00:00		17.52	0.00	0.00	5.09	2.1	329.7		5.78	0.00	0.00	1.68		10.35	18.92	83.84	86.68	03-Nov-17 12:00:00		**16.13**	**18.92**	**83.84**	**88.36**
03-Nov-17 13:00:00	03-Nov-17 14:00:00		31.48	0.00	0.00	4.88	2.1	329.7		10.38	0.00	0.00	1.61		10.35	18.92	83.84	86.68	03-Nov-17 13:00:00		**20.73**	**18.92**	**83.84**	**88.29**
03-Nov-17 14:00:00	03-Nov-17 15:00:00		50.98	0.00	0.00	4.72	2.1	329.7		16.81	0.00	0.00	1.55		10.35	18.92	83.84	86.68	03-Nov-17 14:00:00		**27.16**	**18.92**	**83.84**	**88.23**
03-Nov-17 15:00:00	03-Nov-17 16:00:00		64.72	0.00	0.00	4.66	2.1	329.7		21.34	0.00	0.00	1.53		10.35	18.92	83.84	86.68	03-Nov-17 15:00:00		**31.69**	**18.92**	**83.84**	**88.21**
03-Nov-17 16:00:00	03-Nov-17 17:00:00		76.30	0.00	0.00	4.68	2.1	329.7		25.16	0.00	0.00	1.54		10.35	18.92	83.84	86.68	03-Nov-17 16:00:00		**35.51**	**18.92**	**83.84**	**88.22**
03-Nov-17 17:00:00	03-Nov-17 18:00:00		81.15	0.00	0.00	4.71	2.1	329.7		26.76	0.00	0.00	1.55		10.35	18.92	83.84	86.68	03-Nov-17 17:00:00		**37.11**	**18.92**	**83.84**	**88.23**
03-Nov-17 18:00:00	03-Nov-17 19:00:00		78.47	0.00	0.00	4.74	2.1	329.7		25.87	0.00	0.00	1.56		10.35	18.92	83.84	86.68	03-Nov-17 18:00:00		**36.22**	**18.92**	**83.84**	**88.24**
03-Nov-17 19:00:00	03-Nov-17 20:00:00		80.09	0.00	0.00	4.86	2.1	329.7		26.41	0.00	0.00	1.60		10.35	18.92	83.84	86.68	03-Nov-17 19:00:00		**36.76**	**18.92**	**83.84**	**88.28**
03-Nov-17 20:00:00	03-Nov-17 21:00:00		71.54	0.00	0.00	5.10	2.1	329.7		23.59	0.00	0.00	1.68		10.35	18.92	83.84	86.68	03-Nov-17 20:00:00		**33.94**	**18.92**	**83.84**	**88.36**
03-Nov-17 21:00:00	03-Nov-17 22:00:00		49.99	0.00	0.00	5.34	2.1	329.7		16.48	0.00	0.00	1.76		10.35	18.92	83.84	86.68	03-Nov-17 21:00:00		**26.83**	**18.92**	**83.84**	**88.44**
03-Nov-17 22:00:00	03-Nov-17 23:00:00		47.07	0.00	0.00	5.59	2.1	329.7		15.52	0.00	0.00	1.84		10.35	18.92	83.84	86.68	03-Nov-17 22:00:00		**25.87**	**18.92**	**83.84**	**88.52**
03-Nov-17 23:00:00	04-Nov-17 00:00:00		47.55	0.00	0.00	5.77	2.1	329.7		15.68	0.00	0.00	1.90		10.35	18.92	83.84	86.68	03-Nov-17 23:00:00		**26.03**	**18.92**	**83.84**	**88.58**
04-Nov-17 00:00:00	04-Nov-17 01:00:00		51.92	0.00	0.00	5.78	2.1	329.7		17.12	0.00	0.00	1.91		10.35	18.92	83.84	86.68	04-Nov-17 00:00:00		**27.47**	**18.92**	**83.84**	**88.59**
04-Nov-17 01:00:00	04-Nov-17 02:00:00		43.61	0.00	0.00	5.79	2.1	329.7		14.38	0.00	0.00	1.91		10.35	18.92	83.84	86.68	04-Nov-17 01:00:00		**24.73**	**18.92**	**83.84**	**88.59**
04-Nov-17 02:00:00	04-Nov-17 03:00:00		16.33	0.00	0.00	5.80	2.1	329.7		5.38	0.00	0.00	1.91		10.35	18.92	83.84	86.68	04-Nov-17 02:00:00		**15.73**	**18.92**	**83.84**	**88.59**
04-Nov-17 03:00:00	04-Nov-17 04:00:00		19.77	0.00	0.00	5.80	2.1	329.7		6.52	0.00	0.00	1.91		10.35	18.92	83.84	86.68	04-Nov-17 03:00:00		**16.87**	**18.92**	**83.84**	**88.59**
04-Nov-17 04:00:00	04-Nov-17 05:00:00		26.91	0.00	0.00	5.79	2.1	329.7		8.87	0.00	0.00	1.91		10.35	18.92	83.84	86.68	04-Nov-17 04:00:00		**19.22**	**18.92**	**83.84**	**88.59**
04-Nov-17 05:00:00	04-Nov-17 06:00:00		22.74	0.00	0.00	5.79	2.1	329.7		7.50	0.00	0.00	1.91		10.35	18.92	83.84	86.68	04-Nov-17 05:00:00		**17.85**	**18.92**	**83.84**	**88.59**
04-Nov-17 06:00:00	04-Nov-17 07:00:00		20.39	0.00	0.00	5.79	2.1	329.7		6.72	0.00	0.00	1.91		10.35	18.92	83.84	86.68	04-Nov-17 06:00:00		**17.07**	**18.92**	**83.84**	**88.59**
04-Nov-17 07:00:00	04-Nov-17 08:00:00		21.46	0.00	0.00	5.78	2.1	329.7		7.08	0.00	0.00	1.91		10.35	18.92	83.84	86.68	04-Nov-17 07:00:00		**17.43**	**18.92**	**83.84**	**88.59**
04-Nov-17 08:00:00	04-Nov-17 09:00:00		19.97	0.00	0.00	5.80	2.1	329.7		6.59	0.00	0.00	1.91		10.35	18.92	83.84	86.68	04-Nov-17 08:00:00		**16.94**	**18.92**	**83.84**	**88.59**
04-Nov-17 09:00:00	04-Nov-17 10:00:00		19.83	0.00	0.00	5.82	2.1	329.7		6.54	0.00	0.00	1.92		10.35	18.92	83.84	86.68	04-Nov-17 09:00:00		**16.89**	**18.92**	**83.84**	**88.60**
04-Nov-17 10:00:00	04-Nov-17 11:00:00		20.29	0.00	0.00	5.84	2.1	329.7		6.69	0.00	0.00	1.92		10.35	18.92	83.84	86.68	04-Nov-17 10:00:00		**17.04**	**18.92**	**83.84**	**88.60**
04-Nov-17 11:00:00	04-Nov-17 12:00:00		20.79	0.00	0.00	5.76	2.1	329.7		6.86	0.00	0.00	1.90		10.35	18.92	83.84	86.68	04-Nov-17 11:00:00		**17.21**	**18.92**	**83.84**	**88.58**
04-Nov-17 12:00:00	04-Nov-17 13:00:00		22.74	0.00	0.00	5.57	2.1	329.7		7.50	0.00	0.00	1.84		10.35	18.92	83.84	86.68	04-Nov-17 12:00:00		**17.85**	**18.92**	**83.84**	**88.52**
04-Nov-17 13:00:00	04-Nov-17 14:00:00		41.02	0.00	0.00	5.39	2.1	329.7		13.53	0.00	0.00	1.78		10.35	18.92	83.84	86.68	04-Nov-17 13:00:00		**23.88**	**18.92**	**83.84**	**88.46**
04-Nov-17 14:00:00	04-Nov-17 15:00:00		27.99	0.00	0.00	5.20	2.1	329.7		9.23	0.00	0.00	1.71		10.35	18.92	83.84	86.68	04-Nov-17 14:00:00		**19.58**	**18.92**	**83.84**	**88.39**
04-Nov-17 15:00:00	04-Nov-17 16:00:00		14.71	0.00	0.00	5.14	2.1	329.7		4.85	0.00	0.00	1.70		10.35	18.92	83.84	86.68	04-Nov-17 15:00:00		**15.20**	**18.92**	**83.84**	**88.38**
04-Nov-17 16:00:00	04-Nov-17 17:00:00		20.09	0.00	0.00	5.16	2.1	329.7		6.62	0.00	0.00	1.70		10.35	18.92	83.84	86.68	04-Nov-17 16:00:00		**16.97**	**18.92**	**83.84**	**88.38**
04-Nov-17 17:00:00	04-Nov-17 18:00:00		25.51	0.00	0.00	5.18	2.1	329.7		8.41	0.00	0.00	1.71		10.35	18.92	83.84	86.68	04-Nov-17 17:00:00		**18.76**	**18.92**	**83.84**	**88.39**
04-Nov-17 18:00:00	04-Nov-17 19:00:00		34.28	0.00	0.00	5.20	2.1	329.7		11.30	0.00	0.00	1.71		10.35	18.92	83.84	86.68	04-Nov-17 18:00:00		**21.65**	**18.92**	**83.84**	**88.39**
04-Nov-17 19:00:00	04-Nov-17 20:00:00		37.57	0.00	0.00	5.43

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
06-Nov-17 20:00:00	06-Nov-17 21:00:00		42.73	0.00	0.00	5.41	2.1	329.7		14.09	0.00	0.00	1.78		10.35	18.92	83.84	86.68	06-Nov-17 20:00:00		**24.44**	**18.92**	**83.84**	**88.46**
06-Nov-17 21:00:00	06-Nov-17 22:00:00		42.48	0.00	0.00	5.53	2.1	329.7		14.01	0.00	0.00	1.82		10.35	18.92	83.84	86.68	06-Nov-17 21:00:00		**24.36**	**18.92**	**83.84**	**88.50**
06-Nov-17 22:00:00	06-Nov-17 23:00:00		41.46	0.00	0.00	5.66	2.1	329.7		13.67	0.00	0.00	1.86		10.35	18.92	83.84	86.68	06-Nov-17 22:00:00		**24.02**	**18.92**	**83.84**	**88.54**
06-Nov-17 23:00:00	07-Nov-17 00:00:00		48.11	0.00	0.00	5.73	2.1	329.7		15.86	0.00	0.00	1.89		10.35	18.92	83.84	86.68	06-Nov-17 23:00:00		**26.21**	**18.92**	**83.84**	**88.57**
07-Nov-17 00:00:00	07-Nov-17 01:00:00		70.20	0.00	0.00	5.80	2.1	329.7		23.14	0.00	0.00	1.91		10.35	18.92	83.84	86.68	07-Nov-17 00:00:00		**33.49**	**18.92**	**83.84**	**88.59**
07-Nov-17 01:00:00	07-Nov-17 02:00:00		86.51	0.00	0.00	5.88	2.1	329.7		28.52	0.00	0.00	1.94		10.35	18.92	83.84	86.68	07-Nov-17 01:00:00		**38.87**	**18.92**	**83.84**	**88.62**
07-Nov-17 02:00:00	07-Nov-17 03:00:00		55.67	0.00	0.00	5.93	2.1	329.7		18.35	0.00	0.00	1.96		10.35	18.92	83.84	86.68	07-Nov-17 02:00:00		**28.70**	**18.92**	**83.84**	**88.64**
07-Nov-17 03:00:00	07-Nov-17 04:00:00		54.00	0.00	0.00	5.82	2.1	329.7		17.81	0.00	0.00	1.92		10.35	18.92	83.84	86.68	07-Nov-17 03:00:00		**28.16**	**18.92**	**83.84**	**88.60**
07-Nov-17 04:00:00	07-Nov-17 05:00:00		45.88	0.00	0.00	5.87	2.1	329.7		15.13	0.00	0.00	1.94		10.35	18.92	83.84	86.68	07-Nov-17 04:00:00		**25.48**	**18.92**	**83.84**	**88.62**
07-Nov-17 05:00:00	07-Nov-17 06:00:00		30.20	0.00	0.00	5.93	2.1	329.7		9.96	0.00	0.00	1.96		10.35	18.92	83.84	86.68	07-Nov-17 05:00:00		**20.31**	**18.92**	**83.84**	**88.64**
07-Nov-17 06:00:00	07-Nov-17 07:00:00		28.24	0.00	0.00	5.99	2.1	329.7		9.31	0.00	0.00	1.98		10.35	18.92	83.84	86.68	07-Nov-17 06:00:00		**19.66**	**18.92**	**83.84**	**88.66**
07-Nov-17 07:00:00	07-Nov-17 08:00:00		34.79	0.00	0.00	5.96	2.1	329.7		11.47	0.00	0.00	1.96		10.35	18.92	83.84	86.68	07-Nov-17 07:00:00		**21.82**	**18.92**	**83.84**	**88.64**
07-Nov-17 08:00:00	07-Nov-17 09:00:00		54.93	0.00	0.00	5.82	2.1	329.7		18.11	0.00	0.00	1.92		10.35	18.92	83.84	86.68	07-Nov-17 08:00:00		**28.46**	**18.92**	**83.84**	**88.60**
07-Nov-17 09:00:00	07-Nov-17 10:00:00		60.29	0.00	0.00	5.69	2.1	329.7		19.88	0.00	0.00	1.88		10.35	18.92	83.84	86.68	07-Nov-17 09:00:00		**30.23**	**18.92**	**83.84**	**88.56**
07-Nov-17 10:00:00	07-Nov-17 11:00:00		56.36	0.00	0.00	5.55	2.1	329.7		18.58	0.00	0.00	1.83		10.35	18.92	83.84	86.68	07-Nov-17 10:00:00		**28.93**	**18.92**	**83.84**	**88.51**
07-Nov-17 11:00:00	07-Nov-17 12:00:00		33.87	0.00	0.00	5.51	2.1	329.7		11.17	0.00	0.00	1.82		10.35	18.92	83.84	86.68	07-Nov-17 11:00:00		**21.52**	**18.92**	**83.84**	**88.50**
07-Nov-17 12:00:00	07-Nov-17 13:00:00		38.59	0.00	0.00	5.53	2.1	329.7		12.72	0.00	0.00	1.82		10.35	18.92	83.84	86.68	07-Nov-17 12:00:00		**23.07**	**18.92**	**83.84**	**88.50**
07-Nov-17 13:00:00	07-Nov-17 14:00:00		46.63	0.00	0.00	5.55	2.1	329.7		15.37	0.00	0.00	1.83		10.35	18.92	83.84	86.68	07-Nov-17 13:00:00		**25.72**	**18.92**	**83.84**	**88.51**
07-Nov-17 14:00:00	07-Nov-17 15:00:00		54.08	0.00	0.00	5.56	2.1	329.7		17.83	0.00	0.00	1.83		10.35	18.92	83.84	86.68	07-Nov-17 14:00:00		**28.18**	**18.92**	**83.84**	**88.51**
07-Nov-17 15:00:00	07-Nov-17 16:00:00		43.93	0.00	0.00	5.56	2.1	329.7		14.48	0.00	0.00	1.83		10.35	18.92	83.84	86.68	07-Nov-17 15:00:00		**24.83**	**18.92**	**83.84**	**88.51**
07-Nov-17 16:00:00	07-Nov-17 17:00:00		42.94	0.00	0.00	5.55	2.1	329.7		14.16	0.00	0.00	1.83		10.35	18.92	83.84	86.68	07-Nov-17 16:00:00		**24.51**	**18.92**	**83.84**	**88.51**
07-Nov-17 17:00:00	07-Nov-17 18:00:00		33.98	0.00	0.00	5.54	2.1	329.7		11.20	0.00	0.00	1.83		10.35	18.92	83.84	86.68	07-Nov-17 17:00:00		**21.55**	**18.92**	**83.84**	**88.51**
07-Nov-17 18:00:00	07-Nov-17 19:00:00		42.82	0.00	0.00	5.53	2.1	329.7		14.12	0.00	0.00	1.82		10.35	18.92	83.84	86.68	07-Nov-17 18:00:00		**24.47**	**18.92**	**83.84**	**88.50**
07-Nov-17 19:00:00	07-Nov-17 20:00:00		42.28	0.00	0.00	5.56	2.1	329.7		13.94	0.00	0.00	1.83		10.35	18.92	83.84	86.68	07-Nov-17 19:00:00		**24.29**	**18.92**	**83.84**	**88.51**
07-Nov-17 20:00:00	07-Nov-17 21:00:00		44.81	0.00	0.00	5.65	2.1	329.7		14.77	0.00	0.00	1.86		10.35	18.92	83.84	86.68	07-Nov-17 20:00:00		**25.12**	**18.92**	**83.84**	**88.54**
07-Nov-17 21:00:00	07-Nov-17 22:00:00		44.40	0.00	0.00	5.73	2.1	329.7		14.64	0.00	0.00	1.89		10.35	18.92	83.84	86.68	07-Nov-17 21:00:00		**24.99**	**18.92**	**83.84**	**88.57**
07-Nov-17 22:00:00	07-Nov-17 23:00:00		40.56	0.00	0.00	5.81	2.1	329.7		13.37	0.00	0.00	1.92		10.35	18.92	83.84	86.68	07-Nov-17 22:00:00		**23.72**	**18.92**	**83.84**	**88.60**
07-Nov-17 23:00:00	08-Nov-17 00:00:00		39.28	0.00	0.00	6.00	2.1	329.7		12.95	0.00	0.00	1.98		10.35	18.92	83.84	86.68	07-Nov-17 23:00:00		**23.30**	**18.92**	**83.84**	**88.66**
08-Nov-17 00:00:00	08-Nov-17 01:00:00		40.26	0.00	0.00	6.28	2.1	329.7		13.27	0.00	0.00	2.07		10.35	18.92	83.84	86.68	08-Nov-17 00:00:00		**23.62**	**18.92**	**83.84**	**88.75**
08-Nov-17 01:00:00	08-Nov-17 02:00:00		38.73	0.00	0.00	6.56	2.1	329.7		12.77	0.00	0.00	2.16		10.35	18.92	83.84	86.68	08-Nov-17 01:00:00		**23.12**	**18.92**	**83.84**	**88.84**
08-Nov-17 02:00:00	08-Nov-17 03:00:00		37.36	0.00	0.00	6.85	2.1	329.7		12.32	0.00	0.00	2.26		10.35	18.92	83.84	86.68	08-Nov-17 02:00:00		**22.67**	**18.92**	**83.84**	**88.94**
08-Nov-17 03:00:00	08-Nov-17 04:00:00		3.55	0.00	0.00	7.14	2.1	329.7		1.17	0.00	0.00	2.36		10.35	18.92	83.84	86.68	08-Nov-17 03:00:00		**11.52**	**18.92**	**83.84**	**89.04**
08-Nov-17 04:00:00	08-Nov-17 05:00:00		4.68	0.00	0.00	7.21	2.1	329.7		1.54	0.00	0.00	2.38		10.35	18.92	83.84	86.68	08-Nov-17 04:00:00		**11.89**	**18.92**	**83.84**	**89.06**
08-Nov-17 05:00:00	08-Nov-17 06:00:00		0.00	0.00	0.00	7.29	2.1	329.7		0.00	0.00	0.00	2.40		10.35	18.92	83.84	86.68	08-Nov-17 05:00:00		**10.35**	**18.92**	**83.84**	**89.08**
08-Nov-17 06:00:00	08-Nov-17 07:00:00		0.82	0.00	0.00	7.36	2.1	329.7		0.27	0.00	0.00	2.43		10.35	18.92	83.84	86.68	08-Nov-17 06:00:00		**10.62**	**18.92**	**83.84**	**89.11**
08-Nov-17 07:00:00	08-Nov-17 08:00:00		0.00	0.00	0.00	7.46	2.1	329.7		0.00	0.00	0.00	2.46		10.35	18.92	83.84	86.68	08-Nov-17 07:00:00		**10.35**	**18.92**	**83.84**	**89.14**
08-Nov-17 08:00:00	08-Nov-17 09:00:00		0.00	0.00	0.00	7.45	2.1	329.7		0.00	0.00	0.00	2.46		10.35	18.92	83.84	86.68	08-Nov-17 08:00:00		**10.35**	**18.92**	**83.84**	**89.14**
08-Nov-17 09:00:00	08-Nov-17 10:00:00		0.00	0.00	0.00	7.44	2.1	329.7		0.00	0.00	0.00	2.45		10.35	18.92	83.84	86.68	08-Nov-17 09:00:00		**10.35**	**18.92**	**83.84**	**89.13**
08-Nov-17 10:00:00	08-Nov-17 11:00:00		0.00	0.00	0.00	7.43	2.1	329.7		0.00	0.00	0.00	2.45		10.35	18.92	83.84	86.68	08-Nov-17 10:00:00		**10.35**	**18.92**	**83.84**	**89.13**
08-Nov-17 11:00:00	08-Nov-17 12:00:00		0.00	0.00	0.00	7.34	2.1	329.7		0.00	0.00	0.00	2.42		10.35	18.92	83.84	86.68	08-Nov-17 11:00:00		**10.35**	**18.92**	**83.84**	**89.10**
08-Nov-17 12:00:00	08-Nov-17 13:00:00		0.41	0.00	0.00	7.34	2.1	329.7		0.14	0.00	0.00	2.42		10.35	18.92	83.84	86.68	08-Nov-17 12:00:00		**10.49**	**18.92**	**83.84**	**89.10**
08-Nov-17 13:00:00	08-Nov-17 14:00:00		0.00	0.00	0.00	7.35	2.1	329.7		0.00	0.00	0.00	2.42		10.35	18.92	83.84	86.68	08-Nov-17 13:00:00		**10.35**	**18.92**	**83.84**	**89.10**
08-Nov-17 14:00:00	08-Nov-17 15:00:00		0.00	0.00	0.00	7.35	2.1	329.7		0.00	0.00	0.00	2.42		10.35	18.92	83.84	86.68	08-Nov-17 14:00:00		**10.35**	**18.92**	**83.84**	**89.10**
08-Nov-17 15:00:00	08-Nov-17 16:00:00		0.00	0.00	0.00	7.25	2.1	329.7		0.00	0.00	0.00	2.39		10.35	18.92	83.84	86.68	08-Nov-17 15:00:00		**10.35**	**18.92**	**83.84**	**89.07**
08-Nov-17 16:00:00	08-Nov-17 17:00:00		0.00	0.00	0.00	7.25	2.1	329.7		0.00	0.00	0.00	2.39		10.35	18.92	83.84	86.68	08-Nov-17 16:00:00		**10.35**	**18.92**	**83.84**	**89.07**
08-Nov-17 17:00:00	08-Nov-17 18:00:00		0.00	0.00	0.00	7.26	2.1	329.7		0.00	0.00	0.00	2.39		10.35	18.92	83.84	86.68	08-Nov-17 17:00:00		**10.35**	**18.92**	**83.84**	**89.07**
08-Nov-17 18:00:00	08-Nov-17 19:00:00		4.61	0.00	0.00	7.26	2.1	329.7		1.52	0.00	0.00	2.39		10.35	18.92	83.84	86.68	08-Nov-17 18:00:00		**11.87**	**18.92**	**83.84**	**89.07**
08-Nov-17 19:00:00	08-Nov-17 20:00:00		7.74	0.00	0.00	7.19	2.1	329.7		2.55	0.00	0.00	2.37		10.35	18.92	83.84	86.68	08-Nov-17 19:00:00		**12.90**	**18.92**	**83.84**	**89.05**
08-Nov-17 20:00:00	08-Nov-17 21:00:00		0.86	0.00	0.00	7.24	2.1	329.7		0.29	0.00	0.00	2.39		10.35	18.92	83.84	86.68	08-Nov-17 20:00:00		**10.64**	**18.92**	**83.84**	**89.07**
08-Nov-17 21:00:00	08-Nov-17 22:00:00		1.22	0.00	0.00	7.30	2.1	329.7		0.40	0.00	0.00	2.41		10.35	18.92	83.84	86.68	08-Nov-17 21:00:00		**10.75**	**18.92**	**83.84**	**89.09**
08-Nov-17 22:00:00	08-Nov-17 23:00:00		1.39	0.00	0.00	7.35	2.1	329.7		0.46	0.00	0.00	2.42		10.35	18.92	83.84	86.68	08-Nov-17 22:00:00		**10.81**	**18.92**	**83.84**	**89.10**
08-Nov-17 23:00:00	09-Nov-17 00:00:00		1.70	0.00	0.00	7.34	2.1	329.7		0.56	0.00	0.00	2.42		10.35	18.92	83.84	86.68	08-Nov-17 23:00:00		**10.91**	**18.92**	**83.84**	**89.10**
09-Nov-17 00:00:00	09-Nov-17 01:00:00		1.02	0.00	0.00	7.24	2.1	329.7		0.34	0.00	0.00	2.39		10.35	18.92	83.84	86.68	09-Nov-17 00:00:00		**10.69**	**18.92**	**83.84**	**89.07**
09-Nov-17 01:00:00	09-Nov-17 02:00:00		0.65	0.00	0.00	7.13	2.1	329.7		0.21	0.00	0.00	2.35		10.35	18.92	83.84	86.68	09-Nov-17 01:00:00		**10.56**	**18.92**	**83.84**	**89.03**
09-Nov-17 02:00:00	09-Nov-17 03:00:00		0.28	0.00	0.00	7.03	2.1	329.7		0.09	0.00	0.00	2.32		10.35	18.92	83.84	86.68	09-Nov-17 02:00:00		**10.44**	**18.92**	**83.84**	**89.00**
09-Nov-17 03:00:00	09-Nov-17 04:00:00		0.01	0.00	0.00	6.93	2.1	329.7		0.00	0.00	0.00	2.28		10.35	18.92	83.84	86.68	09-Nov-17 03:00:00		**10.35**	**18.92**	**83.84**	**88.96**
09-Nov-17 04:00:00	09-Nov-17 05:00:00		0.00	0.00	0.00	6.97	2.1	329.7		0.00	0.00	0.00	2.30		10.35	18.92	83.84	86.68	09-Nov-17 04:00:00		**10.35**	**18.92**	**83.84**	**88.98**
09-Nov-17 05:00:00	09-Nov-17 06:00:00		0.00	0.00	0.00	7.01	2.1	329.7		0.00	0.00	0.00	2.31		10.35	18.92	83.84	86.68	09-Nov-17 05:00:00		**10.35**	**18.92**	**83.84**	**88.99**
09-Nov-17 06:00:00	09-Nov-17 07:00:00		0.00	0.00	0.00	7.05	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	09-Nov-17 06:00:00		**10.35**	**18.92**	**83.84**	**89.00**
09-Nov-17 07:00:00	09-Nov-17 08:00:00		0.00	0.00	0.00	7.05	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	09-Nov-17 07:00:00		**10.35**	**18.92**	**83.84**	**89.00**
09-Nov-17 08:00:00	09-Nov-17 09:00:00		0.00	0.00	0.00	7.01	2.1	329.7		0.00	0.00	0.00	2.31		10.35	18.92	83.84	86.68	09-Nov-17 08:00:00		**10.35**	**18.92**	**83.84**	**88.99**
09-Nov-17 09:00:00	09-Nov-17 10:00:00		9.03	0.00	0.00	6.97	2.1	329.7		2.98	0.00	0.00	2.30		10.35	18.92	83.84	86.68	09-Nov-17 09:00:00		**13.33**	**18.92**	**83.84**	**88.98**
09-Nov-17 10:00:00	09-Nov-17 11:00:00		0.00	0.00	0.00	6.94	2.1	329.7		0.00	0.00	0.00	2.29		10.35	18.92	83.84	86.68	09-Nov-17 10:00:00		**10.35**	**18.92**	**83.84**	**88.97**
09-Nov-17 11:00:00	09-Nov-17 12:00:00		0.00	0.00	0.00	6.75	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	09-Nov-17 11:00:00		**10.35**	**18.92**	**83.84**	**88.91**
09-Nov-17 12:00:00	09-Nov-17 13:00:00		0.00	0.00	0.00	6.61	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	09-Nov-17 12:00:00		**10.35**	**18.92**	**83.84**	**88.86**
09-Nov-17 13:00:00	09-Nov-17 14:00:00		0.00	0.00	0.00	6.52	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	09-Nov-17 13:00:00		**10.35**	**18.92**	**83.84**	**88.83**
09-Nov-17 14:00:00	09-Nov-17 15:00:00		0.00	0.00	0.00	6.42	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	09-Nov-17 14:00:00		**10.35**	**18.92**	**83.84**	**88.80**
09-Nov-17 15:00:00	09-Nov-17 16:00:00		0.00	0.00	0.00	6.32	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	09-Nov-17 15:00:00		**10.35**	**18.92**	**83.84**	**88.77**
09-Nov-17 16:00:00	09-Nov-17 17:00:00		0.00	0.00	0.00	6.28	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	09-Nov-17 16:00:00		**10.35**	**18.92**	**83.84**	**88.75**
09-Nov-17 17:00:00	09-Nov-17 18:00:00		0.00	0.00	0.00	6.30	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	09-Nov-17 17:00:00		**10.35**	**18.92**	**83.84**	**88.76**
09-Nov-17 18:00:00	09-Nov-17 19:00:00		0.00	0.00	0.00	6.31	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	09-Nov-17 18:00:00		**10.35**	**18.92**	**83.84**	**88.76**
09-Nov-17 19:00:00	09-Nov-17 20:00:00		0.00	0.00	0.00	7.01	2.1	329.7		0.00	0.00	0.00	2.31		10.35	18.92	83.84	86.68	09-Nov-17 19:00:00		**10.35**	**18.92**	**83.84**	**88.99**
09-Nov-17 20:00:00	09-Nov-17 21:00:00		0.00	0.00	0.00	6.48	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	09-Nov-17 20:00:00		**10.35**	**18.92**	**83.84**	**88.82**
09-Nov-17 21:00:00	09-Nov-17 22:00:00		0.00	0.00	0.00	6.64	2.1	329.7		0.00	0.00	0.00	2.19		10.35	18.92	83.84	86.68	09-Nov-17 21:00:00		**10.35**	**18.92**	**83.84**	**88.87**
09-Nov-17 22:00:00	09-Nov-17 23:00:00		0.00	0.00	0.00	6.81	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	09-Nov-17 22:00:00		**10.35**	**18.92**	**83.84**	**88.92**
09-Nov-17 23:00:00	10-Nov-17 00:00:00		0.00	0.00	0.00	6.95	2.1	329.7		0.00	0.00	0.00	2.29		10.35	18.92	83.84	86.68	09-Nov-17 23:00:00		**10.35**	**18.92**	**83.84**	**88.97**
10-Nov-17 00:00:00	10-Nov-17 01:00:00		0.00	0.00	0.00	6.97	2.1	329.7		0.00	0.00	0.00	2.30		10.35	18.92	83.84	86.68	10-Nov-17 00:00:00		**10.35**	**18.92**	**83.84**	**88.98**
10-Nov-17 01:00:00	10-Nov-17 02:00:00		0.11	0.00	0.00	7.02	2.1	329.7		0.04	0.00	0.00	2.32		10.35	18.92	83.84	86.68	10-Nov-17 01:00:00		**10.39**	**18.92**	**83.84**	**89.00**
10-Nov-17 02:00:00	10-Nov-17 03:00:00		0.00	0.00	0.00	7.07	2.1	329.7		0.00	0.00	0.00	2.33		10.35	18.92	83.84	86.68	10-Nov-17 02:00:00		**10.35**	**18.92**	**83.84**	**89.01**
10-Nov-17 03:00:00	10-Nov-17 04:00:00		0.11	0.00	0.00	7.12	2.1	329.7		0.04	0.00	0.00	2.35		10.35	18.92	83.84	86.68	10-Nov-17 03:00:00		**10.39**	**18.92**	**83.84**	**89.03**
10-Nov-17 04:00:00	10-Nov-17 05:00:00		0.00	0.00	0.00	7.10	2.1	329.7		0.00	0.00	0.00	2.34		10.35	18.92	83.84	86.68	10-Nov-17 04:00:00		**10.35**	**18.92**	**83.84**	**89.02**
10-Nov-17 05:00:00	10-Nov-17 06:00:00		0.00	0.00	0.00	7.06	2.1	329.7		0.00	0.00	0.00	2.33		10.35	18.92	83.84	86.68	10-Nov-17 05:00:00		**10.35**	**18.92**	**83.84**	**89.01**
10-Nov-17 06:00:00	10-Nov-17 07:00:00		0.00	0.00	0.00	7.02	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	10-Nov-17 06:00:00		**10.35**	**18.92**	**83.84**	**89.00**
10-Nov-17 07:00:00	10-Nov-17 08:00:00		0.00	0.00	0.00	8.07	2.1	329.7		0.00	0.00	0.00	2.66		10.35	18.92	83.84	86.68	10-Nov-17 07:00:00		**10.35**	**18.92**	**83.84**	**89.34**
10-Nov-17 08:00:00	10-Nov-17 09:00:00		0.00	0.00	0.00	6.83	2.1	329.7		0.00	0.00	0.00	2.25		10.35	18.92	83.84	86.68	10-Nov-17 08:00:00		**10.35**	**18.92**	**83.84**	**88.93**
10-Nov-17 09:00:00	10-Nov-17 10:00:00		0.00	0.00	0.00	6.66	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	10-Nov-17 09:00:00		**10.35**	**18.92**	**83.84**	**88.88**
10-Nov-17 10:00:00	10-Nov-17 11:00:00		0.00	0.00	0.00	6.48	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	10-Nov-17 10:00:00		**10.35**	**18.92**	**83.84**	**88.82**
10-Nov-17 11:00:00	10-Nov-17 12:00:00		0.42	0.00	0.00	6.10	2.1	329.7		0.14	0.00	0.00	2.01		10.35	18.92	83.84	86.68	10-Nov-17 11:00:00		**10.49**	**18.92**	**83.84**	**88.69**
10-Nov-17 12:00:00	10-Nov-17 13:00:00		0.00	0.00	0.00	5.78	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	10-Nov-17 12:00:00		**10.35**	**18.92**	**83.84**	**88.59**
10-Nov-17 13:00:00	10-Nov-17 14:00:00		0.00	0.00	0.00	5.60	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	10-Nov-17 13:00:00		**10.35**	**18.92**	**83.84**	**88.53**
10-Nov-17 14:00:00	10-Nov-17 15:00:00		0.00	0.00	0.00	5.43	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	10-Nov-17 14:00:00		**10.35**	**18.92**	**83.84**	**88.47**
10-Nov-17 15:00:00	10-Nov-17 16:00:00		0.18	0.00	0.00	5.32	2.1	329.7		0.06	0.00	0.00	1.75		10.35	18.92	83.84	86.68	10-Nov-17 15:00:00		**10.41**	**18.92**	**83.84**	**88.43**
10-Nov-17 16:00:00	10-Nov-17 17:00:00		0.12	0.00	0.00	5.55	2.1	329.7		0.04	0.00	0.00	1.83		10.35	18.92	83.84	86.68	10-Nov-17 16:00:00		**10.39**	**18.92**	**83.84**	**88.51**
10-Nov-17 17:00:00	10-Nov-17 18:00:00		0.00	0.00	0.00	5.83

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
12-Nov-17 19:00:00	12-Nov-17 20:00:00		0.00	0.00	0.00	6.56	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	12-Nov-17 19:00:00		10.35	18.92	83.84	88.84
12-Nov-17 20:00:00	12-Nov-17 21:00:00		0.09	0.00	0.00	6.58	2.1	329.7		0.03	0.00	0.00	2.17		10.35	18.92	83.84	86.68	12-Nov-17 20:00:00		10.38	18.92	83.84	88.85
12-Nov-17 21:00:00	12-Nov-17 22:00:00		0.20	0.00	0.00	6.66	2.1	329.7		0.07	0.00	0.00	2.20		10.35	18.92	83.84	86.68	12-Nov-17 21:00:00		10.42	18.92	83.84	88.88
12-Nov-17 22:00:00	12-Nov-17 23:00:00		0.26	0.00	0.00	6.73	2.1	329.7		0.08	0.00	0.00	2.22		10.35	18.92	83.84	86.68	12-Nov-17 22:00:00		10.43	18.92	83.84	88.90
12-Nov-17 23:00:00	13-Nov-17 00:00:00		0.31	0.00	0.00	6.74	2.1	329.7		0.10	0.00	0.00	2.22		10.35	18.92	83.84	86.68	12-Nov-17 23:00:00		10.45	18.92	83.84	88.90
13-Nov-17 00:00:00	13-Nov-17 01:00:00		0.33	0.00	0.00	6.75	2.1	329.7		0.11	0.00	0.00	2.23		10.35	18.92	83.84	86.68	13-Nov-17 00:00:00		10.46	18.92	83.84	88.91
13-Nov-17 01:00:00	13-Nov-17 02:00:00		0.24	0.00	0.00	6.72	2.1	329.7		0.08	0.00	0.00	2.22		10.35	18.92	83.84	86.68	13-Nov-17 01:00:00		10.43	18.92	83.84	88.90
13-Nov-17 02:00:00	13-Nov-17 03:00:00		0.16	0.00	0.00	6.62	2.1	329.7		0.05	0.00	0.00	2.18		10.35	18.92	83.84	86.68	13-Nov-17 02:00:00		10.40	18.92	83.84	88.86
13-Nov-17 03:00:00	13-Nov-17 04:00:00		0.08	0.00	0.00	6.53	2.1	329.7		0.03	0.00	0.00	2.15		10.35	18.92	83.84	86.68	13-Nov-17 03:00:00		10.38	18.92	83.84	88.83
13-Nov-17 04:00:00	13-Nov-17 05:00:00		0.01	0.00	0.00	6.44	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	13-Nov-17 04:00:00		10.35	18.92	83.84	88.80
13-Nov-17 05:00:00	13-Nov-17 06:00:00		0.00	0.00	0.00	6.36	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	13-Nov-17 05:00:00		10.35	18.92	83.84	88.78
13-Nov-17 06:00:00	13-Nov-17 07:00:00		0.00	0.00	0.00	6.36	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	13-Nov-17 06:00:00		10.35	18.92	83.84	88.78
13-Nov-17 07:00:00	13-Nov-17 08:00:00		0.00	0.00	0.00	6.39	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	13-Nov-17 07:00:00		10.35	18.92	83.84	88.79
13-Nov-17 08:00:00	13-Nov-17 09:00:00		0.00	0.00	0.00	6.41	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	13-Nov-17 08:00:00		10.35	18.92	83.84	88.79
13-Nov-17 09:00:00	13-Nov-17 10:00:00		0.00	0.00	0.00	6.43	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	13-Nov-17 09:00:00		10.35	18.92	83.84	88.80
13-Nov-17 10:00:00	13-Nov-17 11:00:00		0.00	0.00	0.00	6.36	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	13-Nov-17 10:00:00		10.35	18.92	83.84	88.78
13-Nov-17 11:00:00	13-Nov-17 12:00:00		0.00	0.00	0.00	6.27	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	13-Nov-17 11:00:00		10.35	18.92	83.84	88.75
13-Nov-17 12:00:00	13-Nov-17 13:00:00		0.47	0.00	0.00	56.88	2.1	329.7		0.16	0.00	0.00	18.75		10.35	18.92	83.84	86.68	13-Nov-17 12:00:00		10.51	18.92	83.84	105.43
13-Nov-17 13:00:00	13-Nov-17 14:00:00		0.93	0.00	0.00	5.99	2.1	329.7		0.31	0.00	0.00	1.97		10.35	18.92	83.84	86.68	13-Nov-17 13:00:00		10.66	18.92	83.84	88.65
13-Nov-17 14:00:00	13-Nov-17 15:00:00		0.21	0.00	0.00	5.74	2.1	329.7		0.07	0.00	0.00	1.89		10.35	18.92	83.84	86.68	13-Nov-17 14:00:00		10.42	18.92	83.84	88.57
13-Nov-17 15:00:00	13-Nov-17 16:00:00		0.00	0.00	0.00	5.50	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	13-Nov-17 15:00:00		10.35	18.92	83.84	88.49
13-Nov-17 16:00:00	13-Nov-17 17:00:00		0.00	0.00	0.00	5.34	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	13-Nov-17 16:00:00		10.35	18.92	83.84	88.44
13-Nov-17 17:00:00	13-Nov-17 18:00:00		0.00	0.00	0.00	5.55	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	13-Nov-17 17:00:00		10.35	18.92	83.84	88.51
13-Nov-17 18:00:00	13-Nov-17 19:00:00		0.00	0.00	0.00	5.79	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	13-Nov-17 18:00:00		10.35	18.92	83.84	88.59
13-Nov-17 19:00:00	13-Nov-17 20:00:00		0.00	0.00	0.00	6.03	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	13-Nov-17 19:00:00		10.35	18.92	83.84	88.67
13-Nov-17 20:00:00	13-Nov-17 21:00:00		0.00	0.00	0.00	6.26	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	13-Nov-17 20:00:00		10.35	18.92	83.84	88.74
13-Nov-17 21:00:00	13-Nov-17 22:00:00		0.00	0.00	0.00	6.44	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	13-Nov-17 21:00:00		10.35	18.92	83.84	88.80
13-Nov-17 22:00:00	13-Nov-17 23:00:00		0.23	0.00	0.00	6.62	2.1	329.7		0.08	0.00	0.00	2.18		10.35	18.92	83.84	86.68	13-Nov-17 22:00:00		10.43	18.92	83.84	88.86
13-Nov-17 23:00:00	14-Nov-17 00:00:00		0.00	0.00	0.00	6.80	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	13-Nov-17 23:00:00		10.35	18.92	83.84	88.92
14-Nov-17 00:00:00	14-Nov-17 01:00:00		0.07	0.00	0.00	6.96	2.1	329.7		0.02	0.00	0.00	2.29		10.35	18.92	83.84	86.68	14-Nov-17 00:00:00		10.37	18.92	83.84	88.97
14-Nov-17 01:00:00	14-Nov-17 02:00:00		0.07	0.00	0.00	6.97	2.1	329.7		0.02	0.00	0.00	2.30		10.35	18.92	83.84	86.68	14-Nov-17 01:00:00		10.37	18.92	83.84	88.98
14-Nov-17 02:00:00	14-Nov-17 03:00:00		0.00	0.00	0.00	6.96	2.1	329.7		0.00	0.00	0.00	2.29		10.35	18.92	83.84	86.68	14-Nov-17 02:00:00		10.35	18.92	83.84	88.97
14-Nov-17 03:00:00	14-Nov-17 04:00:00		0.00	0.00	0.00	6.94	2.1	329.7		0.00	0.00	0.00	2.29		10.35	18.92	83.84	86.68	14-Nov-17 03:00:00		10.35	18.92	83.84	88.97
14-Nov-17 04:00:00	14-Nov-17 05:00:00		0.00	0.00	0.00	6.99	2.1	329.7		0.00	0.00	0.00	2.31		10.35	18.92	83.84	86.68	14-Nov-17 04:00:00		10.35	18.92	83.84	88.99
14-Nov-17 05:00:00	14-Nov-17 06:00:00		0.00	0.00	0.00	7.05	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	14-Nov-17 05:00:00		10.35	18.92	83.84	89.00
14-Nov-17 06:00:00	14-Nov-17 07:00:00		0.00	0.00	0.00	7.01	2.1	329.7		0.00	0.00	0.00	2.31		10.35	18.92	83.84	86.68	14-Nov-17 06:00:00		10.35	18.92	83.84	88.99
14-Nov-17 07:00:00	14-Nov-17 08:00:00		0.00	0.00	0.00	6.97	2.1	329.7		0.00	0.00	0.00	2.30		10.35	18.92	83.84	86.68	14-Nov-17 07:00:00		10.35	18.92	83.84	88.98
14-Nov-17 08:00:00	14-Nov-17 09:00:00		0.00	0.00	0.00	6.93	2.1	329.7		0.00	0.00	0.00	2.28		10.35	18.92	83.84	86.68	14-Nov-17 08:00:00		10.35	18.92	83.84	88.96
14-Nov-17 09:00:00	14-Nov-17 10:00:00		0.00	0.00	0.00	6.80	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	14-Nov-17 09:00:00		10.35	18.92	83.84	88.92
14-Nov-17 10:00:00	14-Nov-17 11:00:00		0.00	0.00	0.00	6.65	2.1	329.7		0.00	0.00	0.00	2.19		10.35	18.92	83.84	86.68	14-Nov-17 10:00:00		10.35	18.92	83.84	88.87
14-Nov-17 11:00:00	14-Nov-17 12:00:00		0.00	0.00	0.00	6.51	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	14-Nov-17 11:00:00		10.35	18.92	83.84	88.83
14-Nov-17 12:00:00	14-Nov-17 13:00:00		0.00	0.00	0.00	6.37	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	14-Nov-17 12:00:00		10.35	18.92	83.84	88.78
14-Nov-17 13:00:00	14-Nov-17 14:00:00		0.00	0.00	0.00	6.30	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	14-Nov-17 13:00:00		10.35	18.92	83.84	88.76
14-Nov-17 14:00:00	14-Nov-17 15:00:00		0.00	0.00	0.00	6.25	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	14-Nov-17 14:00:00		10.35	18.92	83.84	88.74
14-Nov-17 15:00:00	14-Nov-17 16:00:00		0.00	0.00	0.00	6.21	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	14-Nov-17 15:00:00		10.35	18.92	83.84	88.73
14-Nov-17 16:00:00	14-Nov-17 17:00:00		0.00	0.00	0.00	6.19	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	14-Nov-17 16:00:00		10.35	18.92	83.84	88.72
14-Nov-17 17:00:00	14-Nov-17 18:00:00		0.00	0.00	0.00	6.24	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	14-Nov-17 17:00:00		10.35	18.92	83.84	88.74
14-Nov-17 18:00:00	14-Nov-17 19:00:00		0.00	0.00	0.00	6.28	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	14-Nov-17 18:00:00		10.35	18.92	83.84	88.75
14-Nov-17 19:00:00	14-Nov-17 20:00:00		0.00	0.00	0.00	6.31	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	14-Nov-17 19:00:00		10.35	18.92	83.84	88.76
14-Nov-17 20:00:00	14-Nov-17 21:00:00		0.00	0.00	0.00	6.35	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	14-Nov-17 20:00:00		10.35	18.92	83.84	88.77
14-Nov-17 21:00:00	14-Nov-17 22:00:00		0.00	0.00	0.00	6.47	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	14-Nov-17 21:00:00		10.35	18.92	83.84	88.81
14-Nov-17 22:00:00	14-Nov-17 23:00:00		0.00	0.00	0.00	6.61	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	14-Nov-17 22:00:00		10.35	18.92	83.84	88.86
14-Nov-17 23:00:00	15-Nov-17 00:00:00		0.00	0.00	0.00	6.76	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	14-Nov-17 23:00:00		10.35	18.92	83.84	88.91
15-Nov-17 00:00:00	15-Nov-17 01:00:00		0.00	0.00	0.00	6.89	2.1	329.7		0.00	0.00	0.00	2.27		10.35	18.92	83.84	86.68	15-Nov-17 00:00:00		10.35	18.92	83.84	88.95
15-Nov-17 01:00:00	15-Nov-17 02:00:00		0.00	0.00	0.00	6.94	2.1	329.7		0.00	0.00	0.00	2.29		10.35	18.92	83.84	86.68	15-Nov-17 01:00:00		10.35	18.92	83.84	88.97
15-Nov-17 02:00:00	15-Nov-17 03:00:00		17.97	0.00	0.00	6.96	2.1	329.7		5.93	0.00	0.00	2.30		10.35	18.92	83.84	86.68	15-Nov-17 02:00:00		16.28	18.92	83.84	88.98
15-Nov-17 03:00:00	15-Nov-17 04:00:00		513.64	0.00	0.00	6.99	2.1	329.7		169.35	0.00	0.00	2.31		10.35	18.92	83.84	86.68	15-Nov-17 03:00:00		179.70	18.92	83.84	88.99
15-Nov-17 04:00:00	15-Nov-17 05:00:00		0.00	0.00	0.00	7.08	2.1	329.7		0.00	0.00	0.00	2.33		10.35	18.92	83.84	86.68	15-Nov-17 04:00:00		10.35	18.92	83.84	89.01
15-Nov-17 05:00:00	15-Nov-17 06:00:00		0.00	0.00	0.00	7.36	2.1	329.7		0.00	0.00	0.00	2.43		10.35	18.92	83.84	86.68	15-Nov-17 05:00:00		10.35	18.92	83.84	89.11
15-Nov-17 06:00:00	15-Nov-17 07:00:00		0.34	0.00	0.00	7.62	2.1	329.7		0.11	0.00	0.00	2.51		10.35	18.92	83.84	86.68	15-Nov-17 06:00:00		10.46	18.92	83.84	89.19
15-Nov-17 07:00:00	15-Nov-17 08:00:00		2.21	0.00	0.00	61.11	2.1	329.7		0.73	0.00	0.00	20.15		10.35	18.92	83.84	86.68	15-Nov-17 07:00:00		11.08	18.92	83.84	106.83
15-Nov-17 08:00:00	15-Nov-17 09:00:00		2.62	0.00	0.00	7.31	2.1	329.7		0.86	0.00	0.00	2.41		10.35	18.92	83.84	86.68	15-Nov-17 08:00:00		11.21	18.92	83.84	89.09
15-Nov-17 09:00:00	15-Nov-17 10:00:00		1.21	0.00	0.00	7.13	2.1	329.7		0.40	0.00	0.00	2.35		10.35	18.92	83.84	86.68	15-Nov-17 09:00:00		10.75	18.92	83.84	89.03
15-Nov-17 10:00:00	15-Nov-17 11:00:00		2.19	0.00	0.00	6.95	2.1	329.7		0.72	0.00	0.00	2.29		10.35	18.92	83.84	86.68	15-Nov-17 10:00:00		11.07	18.92	83.84	88.97
15-Nov-17 11:00:00	15-Nov-17 12:00:00		2.48	0.00	0.00	6.70	2.1	329.7		0.82	0.00	0.00	2.21		10.35	18.92	83.84	86.68	15-Nov-17 11:00:00		11.17	18.92	83.84	88.89
15-Nov-17 12:00:00	15-Nov-17 13:00:00		1.25	0.00	0.00	6.44	2.1	329.7		0.41	0.00	0.00	2.12		10.35	18.92	83.84	86.68	15-Nov-17 12:00:00		10.76	18.92	83.84	88.80
15-Nov-17 13:00:00	15-Nov-17 14:00:00		0.79	0.00	0.00	6.24	2.1	329.7		0.26	0.00	0.00	2.06		10.35	18.92	83.84	86.68	15-Nov-17 13:00:00		10.61	18.92	83.84	88.74
15-Nov-17 14:00:00	15-Nov-17 15:00:00		0.48	0.00	0.00	6.04	2.1	329.7		0.16	0.00	0.00	1.99		10.35	18.92	83.84	86.68	15-Nov-17 14:00:00		10.51	18.92	83.84	88.67
15-Nov-17 15:00:00	15-Nov-17 16:00:00		0.17	0.00	0.00	5.93	2.1	329.7		0.06	0.00	0.00	1.96		10.35	18.92	83.84	86.68	15-Nov-17 15:00:00		10.41	18.92	83.84	88.64
15-Nov-17 16:00:00	15-Nov-17 17:00:00		0.00	0.00	0.00	6.06	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	15-Nov-17 16:00:00		10.35	18.92	83.84	88.68
15-Nov-17 17:00:00	15-Nov-17 18:00:00		0.00	0.00	0.00	6.18	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	15-Nov-17 17:00:00		10.35	18.92	83.84	88.72
15-Nov-17 18:00:00	15-Nov-17 19:00:00		0.00	0.00	0.00	6.30	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	15-Nov-17 18:00:00		10.35	18.92	83.84	88.76
15-Nov-17 19:00:00	15-Nov-17 20:00:00		0.00	0.00	0.00	6.48	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	15-Nov-17 19:00:00		10.35	18.92	83.84	88.82
15-Nov-17 20:00:00	15-Nov-17 21:00:00		0.00	0.00	0.00	6.64	2.1	329.7		0.00	0.00	0.00	2.19		10.35	18.92	83.84	86.68	15-Nov-17 20:00:00		10.35	18.92	83.84	88.87
15-Nov-17 21:00:00	15-Nov-17 22:00:00		0.00	0.00	0.00	6.74	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	15-Nov-17 21:00:00		10.35	18.92	83.84	88.90
15-Nov-17 22:00:00	15-Nov-17 23:00:00		252.79	331.98	0.00	6.84	2.1	329.7		83.34	109.45	0.00	2.25		10.35	18.92	83.84	86.68	15-Nov-17 22:00:00		93.69	128.37	83.84	88.93
15-Nov-17 23:00:00	16-Nov-17 00:00:00		193.90	827.21	0.00	6.92	2.1	329.7		63.93	272.73	0.00	2.28		10.35	18.92	83.84	86.68	15-Nov-17 23:00:00		74.28	291.65	83.84	88.96
16-Nov-17 00:00:00	16-Nov-17 01:00:00		93.84	851.10	0.00	6.91	2.1	329.7		30.94	280.61	0.00	2.28		10.35	18.92	83.84	86.68	16-Nov-17 00:00:00		41.29	299.53	83.84	88.96
16-Nov-17 01:00:00	16-Nov-17 02:00:00		308.07	831.44	0.00	6.95	2.1	329.7		101.57	274.12	0.00	2.29		10.35	18.92	83.84	86.68	16-Nov-17 01:00:00		111.92	293.04	83.84	88.97
16-Nov-17 02:00:00	16-Nov-17 03:00:00		324.23	873.83	0.00	7.09	2.1	329.7		106.90	288.10	0.00	2.34		10.35	18.92	83.84	86.68	16-Nov-17 02:00:00		117.25	307.02	83.84	89.02
16-Nov-17 03:00:00	16-Nov-17 04:00:00		316.14	930.41	0.00	6.92	2.1	329.7		104.23	306.75	0.00	2.28		10.35	18.92	83.84	86.68	16-Nov-17 03:00:00		114.58	325.67	83.84	88.96
16-Nov-17 04:00:00	16-Nov-17 05:00:00		314.77	809.90	0.00	6.94	2.1	329.7		103.78	267.02	0.00	2.29		10.35	18.92	83.84	86.68	16-Nov-17 04:00:00		114.13	285.94	83.84	88.97
16-Nov-17 05:00:00	16-Nov-17 06:00:00		422.52	910.70	0.00	6.95	2.1	329.7		139.31	300.26	0.00	2.29		10.35	18.92	83.84	86.68	16-Nov-17 05:00:00		149.66	319.18	83.84	88.97
16-Nov-17 06:00:00	16-Nov-17 07:00:00		689.78	896.19	0.00	6.99	2.1	329.7		227.42	295.47	0.00	2.31		10.35	18.92	83.84	86.68	16-Nov-17 06:00:00		237.77	314.39	83.84	88.99
16-Nov-17 07:00:00	16-Nov-17 08:00:00		703.10	906.27	0.00	6.81	2.1	329.7		231.81	298.80	0.00	2.25		10.35	18.92	83.84	86.68	16-Nov-17 07:00:00		242.16	317.72	83.84	88.93
16-Nov-17 08:00:00	16-Nov-17 09:00:00		1,262.34	737.74	0.00	6.64	2.1	329.7		416.18	243.23	0.00	2.19		10.35	18.92	83.84	86.68	16-Nov-17 08:00:00		426.54	262.15	83.84	88.87
16-Nov-17 09:00:00	16-Nov-17 10:00:00		1,378.85	993.29	0.00	6.46	2.1	329.7		454.61	327.49	0.00	2.13		10.35	18.92	83.84	86.68	16-Nov-17 09:00:00		464.96	346.41	83.84	88.81
16-Nov-17 10:00:00	16-Nov-17 11:00:00		1,361.06	995.16	0.00	6.33	2.1	329.7		448.74	328.10	0.00	2.09		10.35	18.92	83.84	86.68	16-Nov-17 10:00:00		459.09	347.02	83.84	88.77
16-Nov-17 11:00:00	16-Nov-17 12:00:00		1,344.91	994.81	0.00	6.03	2.1	329.7		443.42	327.99	0.00	1.99		10.35	18.92	83.84	86.68	16-Nov-17 11:00:00		453.77	346.91	83.84	88.67
16-Nov-17 12:00:00	16-Nov-17 13:00:00		1,124.95	996.63	0.00	5.72	2.1	329.7		370.89	328.59	0.00	1.89		10.35	18.92	83.84	86.68	16-Nov-17 12:00:00		381.24	347.51	83.84	88.57
16-Nov-17 13:00:00	16-Nov-17 14:00:00		658.45	995.72	0.00	5.41	2.1	329.7		217.09	328.29	0.00	1.78		10.35	18.92	83.84	86.68	16-Nov-17 13:00:00		227.44	347.21	83.84	88.46
16-Nov-17 14:00:00	16-Nov-17 15:00:00		675.43	993.90	0.00	5.29	2.1	329.7		222.69	327.69	0.00	1.74		10.35	18.92	83.84	86.68	16-Nov-17 14:00:00		233.04	346.61	83.84	88.42
16-Nov-17 15:00:00	16-Nov-17 16:00:00		686.19	993.25	0.00	5.44	2.1	329.7		226.24	327.47	0.00	1.79		10.35	18.92	83.84	86.68	16-Nov-17 15:00:00		236.59	346.39	83.84	88.47
16-Nov-17 16:00:00	16-Nov-17 17:00:00		683.56	991.56	0

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
18-Nov-17 18:00:00	18-Nov-17 19:00:00		4.38	0.00	0.00	5.45	2.1	329.7		1.44	0.00	0.00	1.80		10.35	18.92	83.84	86.68	18-Nov-17 18:00:00		11.79	18.92	83.84	88.48
18-Nov-17 19:00:00	18-Nov-17 20:00:00		6.27	0.00	0.00	5.53	2.1	329.7		2.07	0.00	0.00	1.82		10.35	18.92	83.84	86.68	18-Nov-17 19:00:00		12.42	18.92	83.84	88.50
18-Nov-17 20:00:00	18-Nov-17 21:00:00		4.67	0.00	0.00	5.57	2.1	329.7		1.54	0.00	0.00	1.84		10.35	18.92	83.84	86.68	18-Nov-17 20:00:00		11.89	18.92	83.84	88.52
18-Nov-17 21:00:00	18-Nov-17 22:00:00		1.89	0.00	0.00	5.55	2.1	329.7		0.62	0.00	0.00	1.83		10.35	18.92	83.84	86.68	18-Nov-17 21:00:00		10.97	18.92	83.84	88.51
18-Nov-17 22:00:00	18-Nov-17 23:00:00		1.24	0.00	0.00	9.37	2.1	329.7		0.41	0.00	0.00	3.09		10.35	18.92	83.84	86.68	18-Nov-17 22:00:00		10.76	18.92	83.84	89.77
18-Nov-17 23:00:00	19-Nov-17 00:00:00		0.59	0.00	0.00	5.55	2.1	329.7		0.19	0.00	0.00	1.83		10.35	18.92	83.84	86.68	18-Nov-17 23:00:00		10.54	18.92	83.84	88.51
19-Nov-17 00:00:00	19-Nov-17 01:00:00		0.05	0.00	0.00	5.65	2.1	329.7		0.02	0.00	0.00	1.86		10.35	18.92	83.84	86.68	19-Nov-17 00:00:00		10.37	18.92	83.84	88.54
19-Nov-17 01:00:00	19-Nov-17 02:00:00		0.00	0.00	0.00	5.74	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	19-Nov-17 01:00:00		10.35	18.92	83.84	88.57
19-Nov-17 02:00:00	19-Nov-17 03:00:00		0.00	0.00	0.00	5.83	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	19-Nov-17 02:00:00		10.35	18.92	83.84	88.60
19-Nov-17 03:00:00	19-Nov-17 04:00:00		0.88	0.00	0.00	5.93	2.1	329.7		0.29	0.00	0.00	1.95		10.35	18.92	83.84	86.68	19-Nov-17 03:00:00		10.64	18.92	83.84	88.63
19-Nov-17 04:00:00	19-Nov-17 05:00:00		0.00	0.00	0.00	7.57	2.1	329.7		0.00	0.00	0.00	2.50		10.35	18.92	83.84	86.68	19-Nov-17 04:00:00		10.35	18.92	83.84	89.18
19-Nov-17 05:00:00	19-Nov-17 06:00:00		0.00	0.00	0.00	6.20	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	19-Nov-17 05:00:00		10.35	18.92	83.84	88.72
19-Nov-17 06:00:00	19-Nov-17 07:00:00		0.00	0.00	0.00	6.38	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	19-Nov-17 06:00:00		10.35	18.92	83.84	88.78
19-Nov-17 07:00:00	19-Nov-17 08:00:00		1.17	0.00	0.00	6.56	2.1	329.7		0.39	0.00	0.00	2.16		10.35	18.92	83.84	86.68	19-Nov-17 07:00:00		10.74	18.92	83.84	88.84
19-Nov-17 08:00:00	19-Nov-17 09:00:00		0.00	0.00	0.00	6.65	2.1	329.7		0.00	0.00	0.00	2.19		10.35	18.92	83.84	86.68	19-Nov-17 08:00:00		10.35	18.92	83.84	88.87
19-Nov-17 09:00:00	19-Nov-17 10:00:00		0.00	0.00	0.00	8.77	2.1	329.7		0.00	0.00	0.00	2.89		10.35	18.92	83.84	86.68	19-Nov-17 09:00:00		10.35	18.92	83.84	89.57
19-Nov-17 10:00:00	19-Nov-17 11:00:00		0.00	0.00	0.00	6.35	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	19-Nov-17 10:00:00		10.35	18.92	83.84	88.77
19-Nov-17 11:00:00	19-Nov-17 12:00:00		0.00	0.00	0.00	6.29	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	19-Nov-17 11:00:00		10.35	18.92	83.84	88.75
19-Nov-17 12:00:00	19-Nov-17 13:00:00		0.00	0.00	0.00	6.24	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	19-Nov-17 12:00:00		10.35	18.92	83.84	88.74
19-Nov-17 13:00:00	19-Nov-17 14:00:00		0.00	0.00	0.00	6.19	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	19-Nov-17 13:00:00		10.35	18.92	83.84	88.72
19-Nov-17 14:00:00	19-Nov-17 15:00:00		0.00	0.00	0.00	6.31	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	19-Nov-17 14:00:00		10.35	18.92	83.84	88.76
19-Nov-17 15:00:00	19-Nov-17 16:00:00		0.00	0.00	0.00	6.33	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	19-Nov-17 15:00:00		10.35	18.92	83.84	88.77
19-Nov-17 16:00:00	19-Nov-17 17:00:00		0.00	0.00	0.00	14.73	2.1	329.7		0.00	0.00	0.00	4.86		10.35	18.92	83.84	86.68	19-Nov-17 16:00:00		10.35	18.92	83.84	91.54
19-Nov-17 17:00:00	19-Nov-17 18:00:00		0.00	0.00	0.00	6.39	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	19-Nov-17 17:00:00		10.35	18.92	83.84	88.79
19-Nov-17 18:00:00	19-Nov-17 19:00:00		0.00	0.00	0.00	6.37	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	19-Nov-17 18:00:00		10.35	18.92	83.84	88.78
19-Nov-17 19:00:00	19-Nov-17 20:00:00		0.00	0.00	0.00	6.35	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	19-Nov-17 19:00:00		10.35	18.92	83.84	88.77
19-Nov-17 20:00:00	19-Nov-17 21:00:00		0.00	0.00	0.00	6.36	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	19-Nov-17 20:00:00		10.35	18.92	83.84	88.78
19-Nov-17 21:00:00	19-Nov-17 22:00:00		0.00	0.00	0.00	7.64	2.1	329.7		0.00	0.00	0.00	2.52		10.35	18.92	83.84	86.68	19-Nov-17 21:00:00		10.35	18.92	83.84	89.20
19-Nov-17 22:00:00	19-Nov-17 23:00:00		0.00	0.00	0.00	6.61	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	19-Nov-17 22:00:00		10.35	18.92	83.84	88.86
19-Nov-17 23:00:00	20-Nov-17 00:00:00		450.42	0.00	0.00	6.82	2.1	329.7		148.50	0.00	0.00	2.25		10.35	18.92	83.84	86.68	19-Nov-17 23:00:00		158.85	18.92	83.84	88.93
20-Nov-17 00:00:00	20-Nov-17 01:00:00		852.14	0.00	0.00	7.08	2.1	329.7		280.95	0.00	0.00	2.34		10.35	18.92	83.84	86.68	20-Nov-17 00:00:00		291.30	18.92	83.84	89.02
20-Nov-17 01:00:00	20-Nov-17 02:00:00		658.98	0.00	0.00	7.35	2.1	329.7		217.26	0.00	0.00	2.42		10.35	18.92	83.84	86.68	20-Nov-17 01:00:00		227.61	18.92	83.84	89.10
20-Nov-17 02:00:00	20-Nov-17 03:00:00		729.84	0.00	0.00	7.61	2.1	329.7		240.63	0.00	0.00	2.51		10.35	18.92	83.84	86.68	20-Nov-17 02:00:00		250.98	18.92	83.84	89.19
20-Nov-17 03:00:00	20-Nov-17 04:00:00		752.20	0.00	0.00	9.19	2.1	329.7		248.00	0.00	0.00	3.03		10.35	18.92	83.84	86.68	20-Nov-17 03:00:00		258.35	18.92	83.84	89.71
20-Nov-17 04:00:00	20-Nov-17 05:00:00		828.24	0.00	0.00	7.77	2.1	329.7		273.07	0.00	0.00	2.56		10.35	18.92	83.84	86.68	20-Nov-17 04:00:00		283.42	18.92	83.84	89.24
20-Nov-17 05:00:00	20-Nov-17 06:00:00		298.97	0.00	0.00	7.83	2.1	329.7		98.57	0.00	0.00	2.58		10.35	18.92	83.84	86.68	20-Nov-17 05:00:00		108.92	18.92	83.84	89.26
20-Nov-17 06:00:00	20-Nov-17 07:00:00		0.00	0.00	0.00	7.88	2.1	329.7		0.00	0.00	0.00	2.60		10.35	18.92	83.84	86.68	20-Nov-17 06:00:00		10.35	18.92	83.84	89.28
20-Nov-17 07:00:00	20-Nov-17 08:00:00		0.00	0.00	0.00	7.94	2.1	329.7		0.00	0.00	0.00	2.62		10.35	18.92	83.84	86.68	20-Nov-17 07:00:00		10.35	18.92	83.84	89.30
20-Nov-17 08:00:00	20-Nov-17 09:00:00		0.00	0.00	0.00	7.77	2.1	329.7		0.00	0.00	0.00	2.56		10.35	18.92	83.84	86.68	20-Nov-17 08:00:00		10.35	18.92	83.84	89.24
20-Nov-17 09:00:00	20-Nov-17 10:00:00		0.00	0.00	0.00	7.39	2.1	329.7		0.00	0.00	0.00	2.43		10.35	18.92	83.84	86.68	20-Nov-17 09:00:00		10.35	18.92	83.84	89.11
20-Nov-17 10:00:00	20-Nov-17 11:00:00		2.37	0.00	0.00	7.00	2.1	329.7		0.78	0.00	0.00	2.31		10.35	18.92	83.84	86.68	20-Nov-17 10:00:00		11.13	18.92	83.84	88.99
20-Nov-17 11:00:00	20-Nov-17 12:00:00		0.00	0.00	0.00	6.61	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	20-Nov-17 11:00:00		10.35	18.92	83.84	88.86
20-Nov-17 12:00:00	20-Nov-17 13:00:00		0.00	0.00	0.00	6.24	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	20-Nov-17 12:00:00		10.35	18.92	83.84	88.74
20-Nov-17 13:00:00	20-Nov-17 14:00:00		0.00	0.00	0.00	6.06	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	20-Nov-17 13:00:00		10.35	18.92	83.84	88.68
20-Nov-17 14:00:00	20-Nov-17 15:00:00		0.00	0.00	0.00	5.89	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	20-Nov-17 14:00:00		10.35	18.92	83.84	88.62
20-Nov-17 15:00:00	20-Nov-17 16:00:00		0.00	0.00	0.00	7.05	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	20-Nov-17 15:00:00		10.35	18.92	83.84	89.00
20-Nov-17 16:00:00	20-Nov-17 17:00:00		0.00	0.00	0.00	5.68	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	20-Nov-17 16:00:00		10.35	18.92	83.84	88.55
20-Nov-17 17:00:00	20-Nov-17 18:00:00		0.00	0.00	0.00	5.84	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	20-Nov-17 17:00:00		10.35	18.92	83.84	88.60
20-Nov-17 18:00:00	20-Nov-17 19:00:00		0.00	0.00	0.00	6.00	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	20-Nov-17 18:00:00		10.35	18.92	83.84	88.66
20-Nov-17 19:00:00	20-Nov-17 20:00:00		0.00	0.00	0.00	6.19	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	20-Nov-17 19:00:00		10.35	18.92	83.84	88.72
20-Nov-17 20:00:00	20-Nov-17 21:00:00		0.00	0.00	0.00	6.46	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	20-Nov-17 20:00:00		10.35	18.92	83.84	88.81
20-Nov-17 21:00:00	20-Nov-17 22:00:00		0.00	0.00	0.00	6.68	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	20-Nov-17 21:00:00		10.35	18.92	83.84	88.88
20-Nov-17 22:00:00	20-Nov-17 23:00:00		0.00	0.00	0.00	6.90	2.1	329.7		0.00	0.00	0.00	2.28		10.35	18.92	83.84	86.68	20-Nov-17 22:00:00		10.35	18.92	83.84	88.96
20-Nov-17 23:00:00	21-Nov-17 00:00:00		0.00	0.00	0.00	7.12	2.1	329.7		0.00	0.00	0.00	2.35		10.35	18.92	83.84	86.68	20-Nov-17 23:00:00		10.35	18.92	83.84	89.03
21-Nov-17 00:00:00	21-Nov-17 01:00:00		0.00	0.00	0.00	7.24	2.1	329.7		0.00	0.00	0.00	2.39		10.35	18.92	83.84	86.68	21-Nov-17 00:00:00		10.35	18.92	83.84	89.07
21-Nov-17 01:00:00	21-Nov-17 02:00:00		0.00	0.00	0.00	7.34	2.1	329.7		0.00	0.00	0.00	2.42		10.35	18.92	83.84	86.68	21-Nov-17 01:00:00		10.35	18.92	83.84	89.10
21-Nov-17 02:00:00	21-Nov-17 03:00:00		0.00	0.00	0.00	7.43	2.1	329.7		0.00	0.00	0.00	2.45		10.35	18.92	83.84	86.68	21-Nov-17 02:00:00		10.35	18.92	83.84	89.13
21-Nov-17 03:00:00	21-Nov-17 04:00:00		0.00	0.00	0.00	9.36	2.1	329.7		0.00	0.00	0.00	3.09		10.35	18.92	83.84	86.68	21-Nov-17 03:00:00		10.35	18.92	83.84	89.77
21-Nov-17 04:00:00	21-Nov-17 05:00:00		0.00	0.00	0.00	7.42	2.1	329.7		0.00	0.00	0.00	2.45		10.35	18.92	83.84	86.68	21-Nov-17 04:00:00		10.35	18.92	83.84	89.13
21-Nov-17 05:00:00	21-Nov-17 06:00:00		0.00	0.00	0.00	7.36	2.1	329.7		0.00	0.00	0.00	2.43		10.35	18.92	83.84	86.68	21-Nov-17 05:00:00		10.35	18.92	83.84	89.11
21-Nov-17 06:00:00	21-Nov-17 07:00:00		0.00	0.00	0.00	7.31	2.1	329.7		0.00	0.00	0.00	2.41		10.35	18.92	83.84	86.68	21-Nov-17 06:00:00		10.35	18.92	83.84	89.09
21-Nov-17 07:00:00	21-Nov-17 08:00:00		0.00	0.00	0.00	7.28	2.1	329.7		0.00	0.00	0.00	2.40		10.35	18.92	83.84	86.68	21-Nov-17 07:00:00		10.35	18.92	83.84	89.08
21-Nov-17 08:00:00	21-Nov-17 09:00:00		0.00	0.00	0.00	7.34	2.1	329.7		0.00	0.00	0.00	2.42		10.35	18.92	83.84	86.68	21-Nov-17 08:00:00		10.35	18.92	83.84	89.10
21-Nov-17 09:00:00	21-Nov-17 10:00:00		0.00	0.00	0.00	11.07	2.1	329.7		0.00	0.00	0.00	3.65		10.35	18.92	83.84	86.68	21-Nov-17 09:00:00		10.35	18.92	83.84	90.33
21-Nov-17 10:00:00	21-Nov-17 11:00:00		0.00	0.00	0.00	6.58	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	21-Nov-17 10:00:00		10.35	18.92	83.84	88.85
21-Nov-17 11:00:00	21-Nov-17 12:00:00		0.00	0.00	0.00	6.10	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	21-Nov-17 11:00:00		10.35	18.92	83.84	88.69
21-Nov-17 12:00:00	21-Nov-17 13:00:00		0.00	0.00	0.00	5.61	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	21-Nov-17 12:00:00		10.35	18.92	83.84	88.53
21-Nov-17 13:00:00	21-Nov-17 14:00:00		0.00	0.00	0.00	5.19	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	21-Nov-17 13:00:00		10.35	18.92	83.84	88.39
21-Nov-17 14:00:00	21-Nov-17 15:00:00		0.00	0.00	0.00	5.02	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	21-Nov-17 14:00:00		10.35	18.92	83.84	88.34
21-Nov-17 15:00:00	21-Nov-17 16:00:00		0.00	0.00	0.00	5.30	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	21-Nov-17 15:00:00		10.35	18.92	83.84	88.43
21-Nov-17 16:00:00	21-Nov-17 17:00:00		0.00	0.00	0.00	5.26	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	21-Nov-17 16:00:00		10.35	18.92	83.84	88.41
21-Nov-17 17:00:00	21-Nov-17 18:00:00		0.00	0.00	0.00	5.48	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	21-Nov-17 17:00:00		10.35	18.92	83.84	88.49
21-Nov-17 18:00:00	21-Nov-17 19:00:00		0.00	0.00	0.00	5.70	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	21-Nov-17 18:00:00		10.35	18.92	83.84	88.56
21-Nov-17 19:00:00	21-Nov-17 20:00:00		0.00	0.00	0.00	5.87	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	21-Nov-17 19:00:00		10.35	18.92	83.84	88.61
21-Nov-17 20:00:00	21-Nov-17 21:00:00		0.00	0.00	0.00	5.96	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	21-Nov-17 20:00:00		10.35	18.92	83.84	88.65
21-Nov-17 21:00:00	21-Nov-17 22:00:00		0.00	0.00	0.00	7.61	2.1	329.7		0.00	0.00	0.00	2.51		10.35	18.92	83.84	86.68	21-Nov-17 21:00:00		10.35	18.92	83.84	89.19
21-Nov-17 22:00:00	21-Nov-17 23:00:00		0.00	0.00	0.00	6.06	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	21-Nov-17 22:00:00		10.35	18.92	83.84	88.68
21-Nov-17 23:00:00	22-Nov-17 00:00:00		0.00	0.00	0.00	6.18	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	21-Nov-17 23:00:00		10.35	18.92	83.84	88.72
22-Nov-17 00:00:00	22-Nov-17 01:00:00		0.00	0.00	0.00	6.30	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	22-Nov-17 00:00:00		10.35	18.92	83.84	88.76
22-Nov-17 01:00:00	22-Nov-17 02:00:00		0.00	0.00	0.00	6.30	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	22-Nov-17 01:00:00		10.35	18.92	83.84	88.76
22-Nov-17 02:00:00	22-Nov-17 03:00:00		0.00	0.00	0.00	6.97	2.1	329.7		0.00	0.00	0.00	2.30		10.35	18.92	83.84	86.68	22-Nov-17 02:00:00		10.35	18.92	83.84	88.98
22-Nov-17 03:00:00	22-Nov-17 04:00:00		0.00	0.00	0.00	6.24	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	22-Nov-17 03:00:00		10.35	18.92	83.84	88.74
22-Nov-17 04:00:00	22-Nov-17 05:00:00		0.00	0.00	0.00	6.26	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	22-Nov-17 04:00:00		10.35	18.92	83.84	88.74
22-Nov-17 05:00:00	22-Nov-17 06:00:00		0.00	0.00	0.00	6.32	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	22-Nov-17 05:00:00		10.35	18.92	83.84	88.76
22-Nov-17 06:00:00	22-Nov-17 07:00:00		0.00	0.00	0.00	6.37	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	22-Nov-17 06:00:00		10.35	18.92	83.84	88.78
22-Nov-17 07:00:00	22-Nov-17 08:00:00		0.00	0.00	0.00	6.44	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	22-Nov-17 07:00:00		10.35	18.92	83.84	88.80
22-Nov-17 08:00:00	22-Nov-17 09:00:00		0.00	0.00	0.00	6.38	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	22-Nov-17 08:00:00		10.35	18.92	83.84	88.78
22-Nov-17 09:00:00	22-Nov-17 10:00:00		0.00	0.00	0.00	6.65	2.1	329.7		0.00	0.00	0.00	2.19		10.35	18.92	83.84	86.68	22-Nov-17 09:00:00		10.35	18.92	83.84	88.87
22-Nov-17 10:00:00	22-Nov-17 11:00:00		0.00	0.00	0.00	6.11	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	22-Nov-17 10:00:00		10.35	18.92	83.84	88.70
22-Nov-17 11:00:00	22-Nov-17 12:00:00		0.00	0.00	0.00	5.89	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	22-Nov-17 11:00:00		10.35	18.92	83.84	88.62
22-Nov-17 12:00:00	22-Nov-17 13:00:00		0.00	0.00	0.00	5.67	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	22-Nov-17 12:00:00		10.35	18.92	83.84	88.55
22-Nov-17 13:00:00	22-Nov-17 14:00:00		1.08	0.00	0.00	5.47	2.1	329.7		0.36	0.00	0.00	1.80		10.35	18.92	83.84	86.68	22-Nov-17 13:00:00		10.71	18.92	83.84	88.48
22-Nov-17 14:00:00	22-Nov-17 15:00:00		1.45	0.00	0.00	5.42	2.1	329.7		0.48	0.00	0.00	1.79		10.35	18.92	83.84	86.68	22-Nov-17 14:00:00		10.83	18.92	83.84	88.47
22-Nov-17 15:00:00	22-Nov-17 16:00:00		1.88	0.00	0.00	6.72

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
24-Nov-17 17:00:00	24-Nov-17 18:00:00		0.00	0.00	0.00	6.36	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	24-Nov-17 17:00:00		10.35	18.92	83.84	88.78
24-Nov-17 18:00:00	24-Nov-17 19:00:00		0.00	0.00	0.00	5.85	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	24-Nov-17 18:00:00		10.35	18.92	83.84	88.61
24-Nov-17 19:00:00	24-Nov-17 20:00:00		0.00	0.00	0.00	6.17	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	24-Nov-17 19:00:00		10.35	18.92	83.84	88.71
24-Nov-17 20:00:00	24-Nov-17 21:00:00		0.00	0.00	0.00	6.50	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	24-Nov-17 20:00:00		10.35	18.92	83.84	88.82
24-Nov-17 21:00:00	24-Nov-17 22:00:00		0.00	0.00	0.00	6.82	2.1	329.7		0.00	0.00	0.00	2.25		10.35	18.92	83.84	86.68	24-Nov-17 21:00:00		10.35	18.92	83.84	88.93
24-Nov-17 22:00:00	24-Nov-17 23:00:00		0.00	0.00	0.00	7.06	2.1	329.7		0.00	0.00	0.00	2.33		10.35	18.92	83.84	86.68	24-Nov-17 22:00:00		10.35	18.92	83.84	89.01
24-Nov-17 23:00:00	25-Nov-17 00:00:00		0.00	0.00	0.00	7.18	2.1	329.7		0.00	0.00	0.00	2.37		10.35	18.92	83.84	86.68	24-Nov-17 23:00:00		10.35	18.92	83.84	89.05
25-Nov-17 00:00:00	25-Nov-17 01:00:00		0.00	0.00	0.00	7.30	2.1	329.7		0.00	0.00	0.00	2.41		10.35	18.92	83.84	86.68	25-Nov-17 00:00:00		10.35	18.92	83.84	89.09
25-Nov-17 01:00:00	25-Nov-17 02:00:00		0.00	0.00	0.00	8.59	2.1	329.7		0.00	0.00	0.00	2.83		10.35	18.92	83.84	86.68	25-Nov-17 01:00:00		10.35	18.92	83.84	89.51
25-Nov-17 02:00:00	25-Nov-17 03:00:00		0.00	0.00	0.00	7.50	2.1	329.7		0.00	0.00	0.00	2.47		10.35	18.92	83.84	86.68	25-Nov-17 02:00:00		10.35	18.92	83.84	89.15
25-Nov-17 03:00:00	25-Nov-17 04:00:00		0.00	0.00	0.00	7.50	2.1	329.7		0.00	0.00	0.00	2.47		10.35	18.92	83.84	86.68	25-Nov-17 03:00:00		10.35	18.92	83.84	89.15
25-Nov-17 04:00:00	25-Nov-17 05:00:00		2.77	0.00	0.00	7.50	2.1	329.7		0.91	0.00	0.00	2.47		10.35	18.92	83.84	86.68	25-Nov-17 04:00:00		11.26	18.92	83.84	89.15
25-Nov-17 05:00:00	25-Nov-17 06:00:00		6.90	0.00	0.00	7.50	2.1	329.7		2.27	0.00	0.00	2.47		10.35	18.92	83.84	86.68	25-Nov-17 05:00:00		12.62	18.92	83.84	89.15
25-Nov-17 06:00:00	25-Nov-17 07:00:00		12.65	0.00	0.00	7.53	2.1	329.7		4.17	0.00	0.00	2.48		10.35	18.92	83.84	86.68	25-Nov-17 06:00:00		14.52	18.92	83.84	89.16
25-Nov-17 07:00:00	25-Nov-17 08:00:00		12.53	0.00	0.00	34.14	2.1	329.7		4.13	0.00	0.00	11.26		10.35	18.92	83.84	86.68	25-Nov-17 07:00:00		14.48	18.92	83.84	97.94
25-Nov-17 08:00:00	25-Nov-17 09:00:00		9.74	0.00	0.00	7.19	2.1	329.7		3.21	0.00	0.00	2.37		10.35	18.92	83.84	86.68	25-Nov-17 08:00:00		13.56	18.92	83.84	89.05
25-Nov-17 09:00:00	25-Nov-17 10:00:00		9.99	0.00	0.00	6.84	2.1	329.7		3.30	0.00	0.00	2.25		10.35	18.92	83.84	86.68	25-Nov-17 09:00:00		13.65	18.92	83.84	88.93
25-Nov-17 10:00:00	25-Nov-17 11:00:00		0.89	0.00	0.00	6.48	2.1	329.7		0.29	0.00	0.00	2.14		10.35	18.92	83.84	86.68	25-Nov-17 10:00:00		10.64	18.92	83.84	88.82
25-Nov-17 11:00:00	25-Nov-17 12:00:00		0.55	0.00	0.00	6.13	2.1	329.7		0.18	0.00	0.00	2.02		10.35	18.92	83.84	86.68	25-Nov-17 11:00:00		10.53	18.92	83.84	88.70
25-Nov-17 12:00:00	25-Nov-17 13:00:00		0.34	0.00	0.00	5.92	2.1	329.7		0.11	0.00	0.00	1.95		10.35	18.92	83.84	86.68	25-Nov-17 12:00:00		10.46	18.92	83.84	88.63
25-Nov-17 13:00:00	25-Nov-17 14:00:00		0.13	0.00	0.00	5.78	2.1	329.7		0.04	0.00	0.00	1.91		10.35	18.92	83.84	86.68	25-Nov-17 13:00:00		10.39	18.92	83.84	88.59
25-Nov-17 14:00:00	25-Nov-17 15:00:00		0.00	0.00	0.00	5.65	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	25-Nov-17 14:00:00		10.35	18.92	83.84	88.54
25-Nov-17 15:00:00	25-Nov-17 16:00:00		0.00	0.00	0.00	5.50	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	25-Nov-17 15:00:00		10.35	18.92	83.84	88.49
25-Nov-17 16:00:00	25-Nov-17 17:00:00		0.00	0.00	0.00	5.49	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	25-Nov-17 16:00:00		10.35	18.92	83.84	88.49
25-Nov-17 17:00:00	25-Nov-17 18:00:00		0.00	0.00	0.00	5.58	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	25-Nov-17 17:00:00		10.35	18.92	83.84	88.52
25-Nov-17 18:00:00	25-Nov-17 19:00:00		0.00	0.00	0.00	5.67	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	25-Nov-17 18:00:00		10.35	18.92	83.84	88.55
25-Nov-17 19:00:00	25-Nov-17 20:00:00		0.00	0.00	0.00	6.88	2.1	329.7		0.00	0.00	0.00	2.27		10.35	18.92	83.84	86.68	25-Nov-17 19:00:00		10.35	18.92	83.84	88.95
25-Nov-17 20:00:00	25-Nov-17 21:00:00		0.00	0.00	0.00	5.72	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	25-Nov-17 20:00:00		10.35	18.92	83.84	88.57
25-Nov-17 21:00:00	25-Nov-17 22:00:00		0.00	0.00	0.00	5.96	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	25-Nov-17 21:00:00		10.35	18.92	83.84	88.64
25-Nov-17 22:00:00	25-Nov-17 23:00:00		0.00	0.00	0.00	6.20	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	25-Nov-17 22:00:00		10.35	18.92	83.84	88.72
25-Nov-17 23:00:00	26-Nov-17 00:00:00		0.00	0.00	0.00	6.39	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	25-Nov-17 23:00:00		10.35	18.92	83.84	88.79
26-Nov-17 00:00:00	26-Nov-17 01:00:00		0.00	0.00	0.00	6.57	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	26-Nov-17 00:00:00		10.35	18.92	83.84	88.85
26-Nov-17 01:00:00	26-Nov-17 02:00:00		0.00	0.00	0.00	6.77	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	26-Nov-17 01:00:00		10.35	18.92	83.84	88.91
26-Nov-17 02:00:00	26-Nov-17 03:00:00		0.00	0.00	0.00	6.97	2.1	329.7		0.00	0.00	0.00	2.30		10.35	18.92	83.84	86.68	26-Nov-17 02:00:00		10.35	18.92	83.84	88.98
26-Nov-17 03:00:00	26-Nov-17 04:00:00		0.00	0.00	0.00	7.10	2.1	329.7		0.00	0.00	0.00	2.34		10.35	18.92	83.84	86.68	26-Nov-17 03:00:00		10.35	18.92	83.84	89.02
26-Nov-17 04:00:00	26-Nov-17 05:00:00		0.00	0.00	0.00	7.02	2.1	329.7		0.00	0.00	0.00	2.31		10.35	18.92	83.84	86.68	26-Nov-17 04:00:00		10.35	18.92	83.84	88.99
26-Nov-17 05:00:00	26-Nov-17 06:00:00		0.00	0.00	0.00	6.92	2.1	329.7		0.00	0.00	0.00	2.28		10.35	18.92	83.84	86.68	26-Nov-17 05:00:00		10.35	18.92	83.84	88.96
26-Nov-17 06:00:00	26-Nov-17 07:00:00		0.00	0.00	0.00	7.07	2.1	329.7		0.00	0.00	0.00	2.33		10.35	18.92	83.84	86.68	26-Nov-17 06:00:00		10.35	18.92	83.84	89.01
26-Nov-17 07:00:00	26-Nov-17 08:00:00		0.00	0.00	0.00	6.70	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	26-Nov-17 07:00:00		10.35	18.92	83.84	88.89
26-Nov-17 08:00:00	26-Nov-17 09:00:00		0.00	0.00	0.00	6.46	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	26-Nov-17 08:00:00		10.35	18.92	83.84	88.81
26-Nov-17 09:00:00	26-Nov-17 10:00:00		0.00	0.00	0.00	6.23	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	26-Nov-17 09:00:00		10.35	18.92	83.84	88.73
26-Nov-17 10:00:00	26-Nov-17 11:00:00		0.00	0.00	0.00	5.99	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	26-Nov-17 10:00:00		10.35	18.92	83.84	88.66
26-Nov-17 11:00:00	26-Nov-17 12:00:00		0.00	0.00	0.00	5.87	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	26-Nov-17 11:00:00		10.35	18.92	83.84	88.61
26-Nov-17 12:00:00	26-Nov-17 13:00:00		0.00	0.00	0.00	5.71	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	26-Nov-17 12:00:00		10.35	18.92	83.84	88.56
26-Nov-17 13:00:00	26-Nov-17 14:00:00		0.00	0.00	0.00	5.42	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	26-Nov-17 13:00:00		10.35	18.92	83.84	88.47
26-Nov-17 14:00:00	26-Nov-17 15:00:00		0.00	0.00	0.00	5.37	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	26-Nov-17 14:00:00		10.35	18.92	83.84	88.45
26-Nov-17 15:00:00	26-Nov-17 16:00:00		0.00	0.00	0.00	5.31	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	26-Nov-17 15:00:00		10.35	18.92	83.84	88.43
26-Nov-17 16:00:00	26-Nov-17 17:00:00		0.00	0.00	0.00	5.27	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	26-Nov-17 16:00:00		10.35	18.92	83.84	88.42
26-Nov-17 17:00:00	26-Nov-17 18:00:00		0.00	0.00	0.00	5.50	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	26-Nov-17 17:00:00		10.35	18.92	83.84	88.49
26-Nov-17 18:00:00	26-Nov-17 19:00:00		0.00	0.00	0.00	13.10	2.1	329.7		0.00	0.00	0.00	4.32		10.35	18.92	83.84	86.68	26-Nov-17 18:00:00		10.35	18.92	83.84	91.00
26-Nov-17 19:00:00	26-Nov-17 20:00:00		0.00	0.00	0.00	6.23	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	26-Nov-17 19:00:00		10.35	18.92	83.84	88.73
26-Nov-17 20:00:00	26-Nov-17 21:00:00		0.00	0.00	0.00	6.46	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	26-Nov-17 20:00:00		10.35	18.92	83.84	88.81
26-Nov-17 21:00:00	26-Nov-17 22:00:00		0.00	0.00	0.00	6.69	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	26-Nov-17 21:00:00		10.35	18.92	83.84	88.89
26-Nov-17 22:00:00	26-Nov-17 23:00:00		0.00	0.00	0.00	6.91	2.1	329.7		0.00	0.00	0.00	2.28		10.35	18.92	83.84	86.68	26-Nov-17 22:00:00		10.35	18.92	83.84	88.96
26-Nov-17 23:00:00	27-Nov-17 00:00:00		0.00	0.00	0.00	7.05	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	26-Nov-17 23:00:00		10.35	18.92	83.84	89.00
27-Nov-17 00:00:00	27-Nov-17 01:00:00		0.00	0.00	0.00	7.29	2.1	329.7		0.00	0.00	0.00	2.40		10.35	18.92	83.84	86.68	27-Nov-17 00:00:00		10.35	18.92	83.84	89.08
27-Nov-17 01:00:00	27-Nov-17 02:00:00		0.21	0.00	0.00	7.11	2.1	329.7		0.07	0.00	0.00	2.35		10.35	18.92	83.84	86.68	27-Nov-17 01:00:00		10.42	18.92	83.84	89.03
27-Nov-17 02:00:00	27-Nov-17 03:00:00		0.00	0.00	0.00	7.25	2.1	329.7		0.00	0.00	0.00	2.39		10.35	18.92	83.84	86.68	27-Nov-17 02:00:00		10.35	18.92	83.84	89.07
27-Nov-17 03:00:00	27-Nov-17 04:00:00		3.16	0.00	0.00	7.39	2.1	329.7		1.04	0.00	0.00	2.44		10.35	18.92	83.84	86.68	27-Nov-17 03:00:00		11.39	18.92	83.84	89.12
27-Nov-17 04:00:00	27-Nov-17 05:00:00		0.68	0.00	0.00	7.56	2.1	329.7		0.22	0.00	0.00	2.49		10.35	18.92	83.84	86.68	27-Nov-17 04:00:00		10.57	18.92	83.84	89.17
27-Nov-17 05:00:00	27-Nov-17 06:00:00		2.97	0.00	0.00	7.67	2.1	329.7		0.98	0.00	0.00	2.53		10.35	18.92	83.84	86.68	27-Nov-17 05:00:00		11.33	18.92	83.84	89.21
27-Nov-17 06:00:00	27-Nov-17 07:00:00		1.18	0.00	0.00	7.68	2.1	329.7		0.39	0.00	0.00	2.53		10.35	18.92	83.84	86.68	27-Nov-17 06:00:00		10.74	18.92	83.84	89.21
27-Nov-17 07:00:00	27-Nov-17 08:00:00		1.20	0.00	0.00	7.36	2.1	329.7		0.40	0.00	0.00	2.43		10.35	18.92	83.84	86.68	27-Nov-17 07:00:00		10.75	18.92	83.84	89.11
27-Nov-17 08:00:00	27-Nov-17 09:00:00		0.00	0.00	0.00	7.18	2.1	329.7		0.00	0.00	0.00	2.37		10.35	18.92	83.84	86.68	27-Nov-17 08:00:00		10.35	18.92	83.84	89.05
27-Nov-17 09:00:00	27-Nov-17 10:00:00		0.00	0.00	0.00	7.00	2.1	329.7		0.00	0.00	0.00	2.31		10.35	18.92	83.84	86.68	27-Nov-17 09:00:00		10.35	18.92	83.84	88.99
27-Nov-17 10:00:00	27-Nov-17 11:00:00		0.21	0.00	0.00	6.69	2.1	329.7		0.07	0.00	0.00	2.20		10.35	18.92	83.84	86.68	27-Nov-17 10:00:00		10.42	18.92	83.84	88.88
27-Nov-17 11:00:00	27-Nov-17 12:00:00		0.00	0.00	0.00	6.18	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	27-Nov-17 11:00:00		10.35	18.92	83.84	88.72
27-Nov-17 12:00:00	27-Nov-17 13:00:00		0.00	0.00	0.00	6.74	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	27-Nov-17 12:00:00		10.35	18.92	83.84	88.90
27-Nov-17 13:00:00	27-Nov-17 14:00:00		0.00	0.00	0.00	5.67	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	27-Nov-17 13:00:00		10.35	18.92	83.84	88.55
27-Nov-17 14:00:00	27-Nov-17 15:00:00		0.87	0.00	0.00	5.54	2.1	329.7		0.29	0.00	0.00	1.83		10.35	18.92	83.84	86.68	27-Nov-17 14:00:00		10.64	18.92	83.84	88.51
27-Nov-17 15:00:00	27-Nov-17 16:00:00		1.48	0.00	0.00	5.41	2.1	329.7		0.49	0.00	0.00	1.78		10.35	18.92	83.84	86.68	27-Nov-17 15:00:00		10.84	18.92	83.84	88.46
27-Nov-17 16:00:00	27-Nov-17 17:00:00		0.00	0.00	0.00	5.51	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	27-Nov-17 16:00:00		10.35	18.92	83.84	88.50
27-Nov-17 17:00:00	27-Nov-17 18:00:00		0.00	0.00	0.00	5.78	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	27-Nov-17 17:00:00		10.35	18.92	83.84	88.58
27-Nov-17 18:00:00	27-Nov-17 19:00:00		0.00	0.00	0.00	6.05	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	27-Nov-17 18:00:00		10.35	18.92	83.84	88.67
27-Nov-17 19:00:00	27-Nov-17 20:00:00		0.00	0.00	0.00	6.31	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	27-Nov-17 19:00:00		10.35	18.92	83.84	88.76
27-Nov-17 20:00:00	27-Nov-17 21:00:00		0.00	0.00	0.00	6.59	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	27-Nov-17 20:00:00		10.35	18.92	83.84	88.85
27-Nov-17 21:00:00	27-Nov-17 22:00:00		0.00	0.00	0.00	6.88	2.1	329.7		0.00	0.00	0.00	2.27		10.35	18.92	83.84	86.68	27-Nov-17 21:00:00		10.35	18.92	83.84	88.95
27-Nov-17 22:00:00	27-Nov-17 23:00:00		0.00	0.00	0.00	7.17	2.1	329.7		0.00	0.00	0.00	2.36		10.35	18.92	83.84	86.68	27-Nov-17 22:00:00		10.35	18.92	83.84	89.04
27-Nov-17 23:00:00	28-Nov-17 00:00:00		0.00	0.00	0.00	8.82	2.1	329.7		0.00	0.00	0.00	2.91		10.35	18.92	83.84	86.68	27-Nov-17 23:00:00		10.35	18.92	83.84	89.59
28-Nov-17 00:00:00	28-Nov-17 01:00:00		0.00	0.00	0.00	7.56	2.1	329.7		0.00	0.00	0.00	2.49		10.35	18.92	83.84	86.68	28-Nov-17 00:00:00		10.35	18.92	83.84	89.17
28-Nov-17 01:00:00	28-Nov-17 02:00:00		0.00	0.00	0.00	7.66	2.1	329.7		0.00	0.00	0.00	2.53		10.35	18.92	83.84	86.68	28-Nov-17 01:00:00		10.35	18.92	83.84	89.21
28-Nov-17 02:00:00	28-Nov-17 03:00:00		0.00	0.00	0.00	7.76	2.1	329.7		0.00	0.00	0.00	2.56		10.35	18.92	83.84	86.68	28-Nov-17 02:00:00		10.35	18.92	83.84	89.24
28-Nov-17 03:00:00	28-Nov-17 04:00:00		1.98	0.00	0.00	7.77	2.1	329.7		0.65	0.00	0.00	2.56		10.35	18.92	83.84	86.68	28-Nov-17 03:00:00		11.00	18.92	83.84	89.24
28-Nov-17 04:00:00	28-Nov-17 05:00:00		0.35	0.00	0.00	7.68	2.1	329.7		0.12	0.00	0.00	2.53		10.35	18.92	83.84	86.68	28-Nov-17 04:00:00		10.47	18.92	83.84	89.21
28-Nov-17 05:00:00	28-Nov-17 06:00:00		0.01	0.00	0.00	7.73	2.1	329.7		0.00	0.00	0.00	2.55		10.35	18.92	83.84	86.68	28-Nov-17 05:00:00		10.35	18.92	83.84	89.23
28-Nov-17 06:00:00	28-Nov-17 07:00:00		0.00	0.00	0.00	7.78	2.1	329.7		0.00	0.00	0.00	2.57		10.35	18.92	83.84	86.68	28-Nov-17 06:00:00		10.35	18.92	83.84	89.25
28-Nov-17 07:00:00	28-Nov-17 08:00:00		0.00	0.00	0.00	7.73	2.1	329.7		0.00	0.00	0.00	2.55		10.35	18.92	83.84	86.68	28-Nov-17 07:00:00		10.35	18.92	83.84	89.23
28-Nov-17 08:00:00	28-Nov-17 09:00:00		0.00	0.00	0.00	7.34	2.1	329.7		0.00	0.00	0.00	2.42		10.35	18.92	83.84	86.68	28-Nov-17 08:00:00		10.35	18.92	83.84	89.10
28-Nov-17 09:00:00	28-Nov-17 10:00:00		0.00	0.00	0.00	6.98	2.1	329.7		0.00	0.00	0.00	2.30		10.35	18.92	83.84	86.68	28-Nov-17 09:00:00		10.35	18.92	83.84	88.98
28-Nov-17 10:00:00	28-Nov-17 11:00:00		0.32	0.00	0.00	6.62	2.1	329.7		0.11	0.00	0.00	2.18		10.35	18.92	83.84	86.68	28-Nov-17 10:00:00		10.46	18.92	83.84	88.86
28-Nov-17 11:00:00	28-Nov-17 12:00:00		0.21	0.00	0.00	6.78	2.1	329.7		0.07	0.00	0.00	2.24		10.35	18.92	83.84	86.68	28-Nov-17 11:00:00		10.42	18.92	83.84	88.92
28-Nov-17 12:00:00	28-Nov-17 13:00:00		0.14	0.00	0.00	5.92	2.1	329.7		0.05	0.00	0.00	1.95		10.35	18.92	83.84	86.68	28-Nov-17 12:00:00		10.40	18.92	83.84	88.63
28-Nov-17 13:00:00	28-Nov-17 14:00:00		0.06	0.00	0.00	5.67	2.1	329.7		0.02	0.00	0.00	1.87		10.35	18.92	83.84	86.68	28-Nov-17 13:00:00		10.37	18.92	83.84	88.55
28-Nov-17 14:00:00	28-Nov-17 15:00:00		0.00	0.00	0.00	5.41

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
30-Nov-17 16:00:00	30-Nov-17 17:00:00		12.45	0.00	0.00	5.34	2.1	329.7		4.10	0.00	0.00	1.76		10.35	18.92	83.84	86.68	30-Nov-17 16:00:00		**14.45**	**18.92**	**83.84**	**88.44**
30-Nov-17 17:00:00	30-Nov-17 18:00:00		13.40	0.00	0.00	5.35	2.1	329.7		4.42	0.00	0.00	1.76		10.35	18.92	83.84	86.68	30-Nov-17 17:00:00		**14.77**	**18.92**	**83.84**	**88.44**
30-Nov-17 18:00:00	30-Nov-17 19:00:00		10.75	0.00	0.00	5.34	2.1	329.7		3.54	0.00	0.00	1.76		10.35	18.92	83.84	86.68	30-Nov-17 18:00:00		**13.89**	**18.92**	**83.84**	**88.44**
30-Nov-17 19:00:00	30-Nov-17 20:00:00		3.32	0.00	0.00	5.58	2.1	329.7		1.09	0.00	0.00	1.84		10.35	18.92	83.84	86.68	30-Nov-17 19:00:00		**11.44**	**18.92**	**83.84**	**88.52**
30-Nov-17 20:00:00	30-Nov-17 21:00:00		3.28	0.00	0.00	5.94	2.1	329.7		1.08	0.00	0.00	1.96		10.35	18.92	83.84	86.68	30-Nov-17 20:00:00		**11.43**	**18.92**	**83.84**	**88.64**
30-Nov-17 21:00:00	30-Nov-17 22:00:00		1.89	0.00	0.00	6.30	2.1	329.7		0.62	0.00	0.00	2.08		10.35	18.92	83.84	86.68	30-Nov-17 21:00:00		**10.97**	**18.92**	**83.84**	**88.76**
30-Nov-17 22:00:00	30-Nov-17 23:00:00		0.28	0.00	0.00	6.20	2.1	329.7		0.09	0.00	0.00	2.04		10.35	18.92	83.84	86.68	30-Nov-17 22:00:00		**10.44**	**18.92**	**83.84**	**88.72**
30-Nov-17 23:00:00	01-Dec-17 00:00:00		0.00	0.00	0.00	6.06	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	30-Nov-17 23:00:00		**10.35**	**18.92**	**83.84**	**88.68**
01-Dec-17 00:00:00	01-Dec-17 01:00:00		0.00	0.00	0.00	13.17	2.1	329.7		0.00	0.00	0.00	4.34		10.35	18.92	83.84	86.68	01-Dec-17 00:00:00		**10.35**	**18.92**	**83.84**	**91.02**
01-Dec-17 01:00:00	01-Dec-17 02:00:00		0.00	0.00	0.00	6.19	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	01-Dec-17 01:00:00		**10.35**	**18.92**	**83.84**	**88.72**
01-Dec-17 02:00:00	01-Dec-17 03:00:00		0.00	0.00	0.00	6.27	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	01-Dec-17 02:00:00		**10.35**	**18.92**	**83.84**	**88.75**
01-Dec-17 03:00:00	01-Dec-17 04:00:00		0.00	0.00	0.00	16.45	2.1	329.7		0.00	0.00	0.00	5.42		10.35	18.92	83.84	86.68	01-Dec-17 03:00:00		**10.35**	**18.92**	**83.84**	**92.10**
01-Dec-17 04:00:00	01-Dec-17 05:00:00		0.00	0.00	0.00	6.34	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	01-Dec-17 04:00:00		**10.35**	**18.92**	**83.84**	**88.77**
01-Dec-17 05:00:00	01-Dec-17 06:00:00		0.34	0.00	0.00	6.34	2.1	329.7		0.11	0.00	0.00	2.09		10.35	18.92	83.84	86.68	01-Dec-17 05:00:00		**10.46**	**18.92**	**83.84**	**88.77**
01-Dec-17 06:00:00	01-Dec-17 07:00:00		0.00	0.00	0.00	6.34	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	01-Dec-17 06:00:00		**10.35**	**18.92**	**83.84**	**88.77**
01-Dec-17 07:00:00	01-Dec-17 08:00:00		0.00	0.00	0.00	6.34	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	01-Dec-17 07:00:00		**10.35**	**18.92**	**83.84**	**88.77**
01-Dec-17 08:00:00	01-Dec-17 09:00:00		0.00	0.00	0.00	6.28	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	01-Dec-17 08:00:00		**10.35**	**18.92**	**83.84**	**88.75**
01-Dec-17 09:00:00	01-Dec-17 10:00:00		0.00	0.00	0.00	7.68	2.1	329.7		0.00	0.00	0.00	2.53		10.35	18.92	83.84	86.68	01-Dec-17 09:00:00		**10.35**	**18.92**	**83.84**	**89.21**
01-Dec-17 10:00:00	01-Dec-17 11:00:00		0.00	0.00	0.00	5.99	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	01-Dec-17 10:00:00		**10.35**	**18.92**	**83.84**	**88.65**
01-Dec-17 11:00:00	01-Dec-17 12:00:00		0.00	0.00	0.00	5.77	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	01-Dec-17 11:00:00		**10.35**	**18.92**	**83.84**	**88.58**
01-Dec-17 12:00:00	01-Dec-17 13:00:00		0.58	0.00	0.00	5.54	2.1	329.7		0.19	0.00	0.00	1.83		10.35	18.92	83.84	86.68	01-Dec-17 12:00:00		**10.54**	**18.92**	**83.84**	**88.51**
01-Dec-17 13:00:00	01-Dec-17 14:00:00		8.11	0.00	0.00	5.31	2.1	329.7		2.68	0.00	0.00	1.75		10.35	18.92	83.84	86.68	01-Dec-17 13:00:00		**13.03**	**18.92**	**83.84**	**88.43**
01-Dec-17 14:00:00	01-Dec-17 15:00:00		2.63	0.00	0.00	5.21	2.1	329.7		0.87	0.00	0.00	1.72		10.35	18.92	83.84	86.68	01-Dec-17 14:00:00		**11.22**	**18.92**	**83.84**	**88.40**
01-Dec-17 15:00:00	01-Dec-17 16:00:00		0.00	0.00	0.00	5.26	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	01-Dec-17 15:00:00		**10.35**	**18.92**	**83.84**	**88.41**
01-Dec-17 16:00:00	01-Dec-17 17:00:00		0.00	0.00	0.00	5.31	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	01-Dec-17 16:00:00		**10.35**	**18.92**	**83.84**	**88.43**
01-Dec-17 17:00:00	01-Dec-17 18:00:00		0.00	0.00	0.00	5.37	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	01-Dec-17 17:00:00		**10.35**	**18.92**	**83.84**	**88.45**
01-Dec-17 18:00:00	01-Dec-17 19:00:00		0.07	0.00	0.00	5.52	2.1	329.7		0.02	0.00	0.00	1.82		10.35	18.92	83.84	86.68	01-Dec-17 18:00:00		**10.37**	**18.92**	**83.84**	**88.50**
01-Dec-17 19:00:00	01-Dec-17 20:00:00		0.36	0.00	0.00	5.73	2.1	329.7		0.12	0.00	0.00	1.89		10.35	18.92	83.84	86.68	01-Dec-17 19:00:00		**10.47**	**18.92**	**83.84**	**88.57**
01-Dec-17 20:00:00	01-Dec-17 21:00:00		0.67	0.00	0.00	5.93	2.1	329.7		0.22	0.00	0.00	1.96		10.35	18.92	83.84	86.68	01-Dec-17 20:00:00		**10.57**	**18.92**	**83.84**	**88.64**
01-Dec-17 21:00:00	01-Dec-17 22:00:00		0.97	0.00	0.00	6.69	2.1	329.7		0.32	0.00	0.00	2.21		10.35	18.92	83.84	86.68	01-Dec-17 21:00:00		**10.67**	**18.92**	**83.84**	**88.89**
01-Dec-17 22:00:00	01-Dec-17 23:00:00		2.18	0.00	0.00	6.22	2.1	329.7		0.72	0.00	0.00	2.05		10.35	18.92	83.84	86.68	01-Dec-17 22:00:00		**11.07**	**18.92**	**83.84**	**88.73**
01-Dec-17 23:00:00	02-Dec-17 00:00:00		0.99	0.00	0.00	6.30	2.1	329.7		0.33	0.00	0.00	2.08		10.35	18.92	83.84	86.68	01-Dec-17 23:00:00		**10.68**	**18.92**	**83.84**	**88.76**
02-Dec-17 00:00:00	02-Dec-17 01:00:00		3.42	0.00	0.00	6.38	2.1	329.7		1.13	0.00	0.00	2.10		10.35	18.92	83.84	86.68	02-Dec-17 00:00:00		**11.48**	**18.92**	**83.84**	**88.78**
02-Dec-17 01:00:00	02-Dec-17 02:00:00		0.00	0.00	0.00	6.43	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	02-Dec-17 01:00:00		**10.35**	**18.92**	**83.84**	**88.80**
02-Dec-17 02:00:00	02-Dec-17 03:00:00		0.00	0.00	0.00	6.39	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	02-Dec-17 02:00:00		**10.35**	**18.92**	**83.84**	**88.79**
02-Dec-17 03:00:00	02-Dec-17 04:00:00		0.00	0.00	0.00	9.65	2.1	329.7		0.00	0.00	0.00	3.18		10.35	18.92	83.84	86.68	02-Dec-17 03:00:00		**10.35**	**18.92**	**83.84**	**89.86**
02-Dec-17 04:00:00	02-Dec-17 05:00:00		0.00	0.00	0.00	6.47	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	02-Dec-17 04:00:00		**10.35**	**18.92**	**83.84**	**88.81**
02-Dec-17 05:00:00	02-Dec-17 06:00:00		0.00	0.00	0.00	6.42	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	02-Dec-17 05:00:00		**10.35**	**18.92**	**83.84**	**88.80**
02-Dec-17 06:00:00	02-Dec-17 07:00:00		0.00	0.00	0.00	6.37	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	02-Dec-17 06:00:00		**10.35**	**18.92**	**83.84**	**88.78**
02-Dec-17 07:00:00	02-Dec-17 08:00:00		0.00	0.00	0.00	6.57	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	02-Dec-17 07:00:00		**10.35**	**18.92**	**83.84**	**88.85**
02-Dec-17 08:00:00	02-Dec-17 09:00:00		0.00	0.00	0.00	7.95	2.1	329.7		0.00	0.00	0.00	2.62		10.35	18.92	83.84	86.68	02-Dec-17 08:00:00		**10.35**	**18.92**	**83.84**	**89.30**
02-Dec-17 09:00:00	02-Dec-17 10:00:00		0.00	0.00	0.00	11.29	2.1	329.7		0.00	0.00	0.00	3.72		10.35	18.92	83.84	86.68	02-Dec-17 09:00:00		**10.35**	**18.92**	**83.84**	**90.40**
02-Dec-17 10:00:00	02-Dec-17 11:00:00		0.00	0.00	0.00	8.56	2.1	329.7		0.00	0.00	0.00	2.82		10.35	18.92	83.84	86.68	02-Dec-17 10:00:00		**10.35**	**18.92**	**83.84**	**89.50**
02-Dec-17 11:00:00	02-Dec-17 12:00:00		0.00	0.00	0.00	7.04	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	02-Dec-17 11:00:00		**10.35**	**18.92**	**83.84**	**89.00**
02-Dec-17 12:00:00	02-Dec-17 13:00:00		0.00	0.00	0.00	7.01	2.1	329.7		0.00	0.00	0.00	2.31		10.35	18.92	83.84	86.68	02-Dec-17 12:00:00		**10.35**	**18.92**	**83.84**	**88.99**
02-Dec-17 13:00:00	02-Dec-17 14:00:00		0.00	0.00	0.00	6.99	2.1	329.7		0.00	0.00	0.00	2.30		10.35	18.92	83.84	86.68	02-Dec-17 13:00:00		**10.35**	**18.92**	**83.84**	**88.98**
02-Dec-17 14:00:00	02-Dec-17 15:00:00		0.00	0.00	0.00	8.31	2.1	329.7		0.00	0.00	0.00	2.74		10.35	18.92	83.84	86.68	02-Dec-17 14:00:00		**10.35**	**18.92**	**83.84**	**89.42**
02-Dec-17 15:00:00	02-Dec-17 16:00:00		0.00	0.00	0.00	6.83	2.1	329.7		0.00	0.00	0.00	2.25		10.35	18.92	83.84	86.68	02-Dec-17 15:00:00		**10.35**	**18.92**	**83.84**	**88.93**
02-Dec-17 16:00:00	02-Dec-17 17:00:00		0.00	0.00	0.00	6.72	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	02-Dec-17 16:00:00		**10.35**	**18.92**	**83.84**	**88.90**
02-Dec-17 17:00:00	02-Dec-17 18:00:00		0.00	0.00	0.00	6.62	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	02-Dec-17 17:00:00		**10.35**	**18.92**	**83.84**	**88.86**
02-Dec-17 18:00:00	02-Dec-17 19:00:00		0.00	0.00	0.00	6.51	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	02-Dec-17 18:00:00		**10.35**	**18.92**	**83.84**	**88.83**
02-Dec-17 19:00:00	02-Dec-17 20:00:00		0.00	0.00	0.00	6.44	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	02-Dec-17 19:00:00		**10.35**	**18.92**	**83.84**	**88.80**
02-Dec-17 20:00:00	02-Dec-17 21:00:00		0.00	0.00	0.00	8.37	2.1	329.7		0.00	0.00	0.00	2.76		10.35	18.92	83.84	86.68	02-Dec-17 20:00:00		**10.35**	**18.92**	**83.84**	**89.44**
02-Dec-17 21:00:00	02-Dec-17 22:00:00		0.00	0.00	0.00	6.28	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	02-Dec-17 21:00:00		**10.35**	**18.92**	**83.84**	**88.75**
02-Dec-17 22:00:00	02-Dec-17 23:00:00		0.00	0.00	0.00	52.51	2.1	329.7		0.00	0.00	0.00	17.31		10.35	18.92	83.84	86.68	02-Dec-17 22:00:00		**10.35**	**18.92**	**83.84**	**103.99**
02-Dec-17 23:00:00	03-Dec-17 00:00:00		0.00	0.00	0.00	6.18	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	02-Dec-17 23:00:00		**10.35**	**18.92**	**83.84**	**88.72**
03-Dec-17 00:00:00	03-Dec-17 01:00:00		0.02	0.00	0.00	6.27	2.1	329.7		0.01	0.00	0.00	2.07		10.35	18.92	83.84	86.68	03-Dec-17 00:00:00		**10.36**	**18.92**	**83.84**	**88.75**
03-Dec-17 01:00:00	03-Dec-17 02:00:00		1.18	0.00	0.00	6.35	2.1	329.7		0.39	0.00	0.00	2.09		10.35	18.92	83.84	86.68	03-Dec-17 01:00:00		**10.74**	**18.92**	**83.84**	**88.77**
03-Dec-17 02:00:00	03-Dec-17 03:00:00		0.65	0.00	0.00	6.42	2.1	329.7		0.22	0.00	0.00	2.12		10.35	18.92	83.84	86.68	03-Dec-17 02:00:00		**10.57**	**18.92**	**83.84**	**88.80**
03-Dec-17 03:00:00	03-Dec-17 04:00:00		0.43	0.00	0.00	6.44	2.1	329.7		0.14	0.00	0.00	2.12		10.35	18.92	83.84	86.68	03-Dec-17 03:00:00		**10.49**	**18.92**	**83.84**	**88.80**
03-Dec-17 04:00:00	03-Dec-17 05:00:00		0.20	0.00	0.00	15.37	2.1	329.7		0.07	0.00	0.00	5.07		10.35	18.92	83.84	86.68	03-Dec-17 04:00:00		**10.42**	**18.92**	**83.84**	**91.75**
03-Dec-17 05:00:00	03-Dec-17 06:00:00		0.70	0.00	0.00	7.29	2.1	329.7		0.23	0.00	0.00	2.40		10.35	18.92	83.84	86.68	03-Dec-17 05:00:00		**10.58**	**18.92**	**83.84**	**89.08**
03-Dec-17 06:00:00	03-Dec-17 07:00:00		0.80	0.00	0.00	7.09	2.1	329.7		0.26	0.00	0.00	2.34		10.35	18.92	83.84	86.68	03-Dec-17 06:00:00		**10.61**	**18.92**	**83.84**	**89.02**
03-Dec-17 07:00:00	03-Dec-17 08:00:00		0.00	0.00	0.00	6.89	2.1	329.7		0.00	0.00	0.00	2.27		10.35	18.92	83.84	86.68	03-Dec-17 07:00:00		**10.35**	**18.92**	**83.84**	**88.95**
03-Dec-17 08:00:00	03-Dec-17 09:00:00		0.00	0.00	0.00	6.62	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	03-Dec-17 08:00:00		**10.35**	**18.92**	**83.84**	**88.86**
03-Dec-17 09:00:00	03-Dec-17 10:00:00		0.00	0.00	0.00	8.88	2.1	329.7		0.00	0.00	0.00	2.93		10.35	18.92	83.84	86.68	03-Dec-17 09:00:00		**10.35**	**18.92**	**83.84**	**89.61**
03-Dec-17 10:00:00	03-Dec-17 11:00:00		0.00	0.00	0.00	15.38	2.1	329.7		0.00	0.00	0.00	5.07		10.35	18.92	83.84	86.68	03-Dec-17 10:00:00		**10.35**	**18.92**	**83.84**	**91.75**
03-Dec-17 11:00:00	03-Dec-17 12:00:00		0.00	0.00	0.00	5.86	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	03-Dec-17 11:00:00		**10.35**	**18.92**	**83.84**	**88.61**
03-Dec-17 12:00:00	03-Dec-17 13:00:00		0.00	0.00	0.00	5.61	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	03-Dec-17 12:00:00		**10.35**	**18.92**	**83.84**	**88.53**
03-Dec-17 13:00:00	03-Dec-17 14:00:00		0.00	0.00	0.00	5.36	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	03-Dec-17 13:00:00		**10.35**	**18.92**	**83.84**	**88.45**
03-Dec-17 14:00:00	03-Dec-17 15:00:00		0.56	0.00	0.00	5.26	2.1	329.7		0.18	0.00	0.00	1.73		10.35	18.92	83.84	86.68	03-Dec-17 14:00:00		**10.53**	**18.92**	**83.84**	**88.41**
03-Dec-17 15:00:00	03-Dec-17 16:00:00		1.48	0.00	0.00	5.34	2.1	329.7		0.49	0.00	0.00	1.76		10.35	18.92	83.84	86.68	03-Dec-17 15:00:00		**10.84**	**18.92**	**83.84**	**88.44**
03-Dec-17 16:00:00	03-Dec-17 17:00:00		0.00	0.00	0.00	5.42	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	03-Dec-17 16:00:00		**10.35**	**18.92**	**83.84**	**88.47**
03-Dec-17 17:00:00	03-Dec-17 18:00:00		0.00	0.00	0.00	5.51	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	03-Dec-17 17:00:00		**10.35**	**18.92**	**83.84**	**88.50**
03-Dec-17 18:00:00	03-Dec-17 19:00:00		0.00	0.00	0.00	5.63	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	03-Dec-17 18:00:00		**10.35**	**18.92**	**83.84**	**88.54**
03-Dec-17 19:00:00	03-Dec-17 20:00:00		0.05	0.00	0.00	5.95	2.1	329.7		0.02	0.00	0.00	1.96		10.35	18.92	83.84	86.68	03-Dec-17 19:00:00		**10.37**	**18.92**	**83.84**	**88.64**
03-Dec-17 20:00:00	03-Dec-17 21:00:00		0.00	0.00	0.00	6.27	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	03-Dec-17 20:00:00		**10.35**	**18.92**	**83.84**	**88.75**
03-Dec-17 21:00:00	03-Dec-17 22:00:00		0.00	0.00	0.00	6.59	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	03-Dec-17 21:00:00		**10.35**	**18.92**	**83.84**	**88.85**
03-Dec-17 22:00:00	03-Dec-17 23:00:00		0.00	0.00	0.00	6.69	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	03-Dec-17 22:00:00		**10.35**	**18.92**	**83.84**	**88.89**
03-Dec-17 23:00:00	04-Dec-17 00:00:00		0.87	0.00	0.00	6.76	2.1	329.7		0.29	0.00	0.00	2.23		10.35	18.92	83.84	86.68	03-Dec-17 23:00:00		**10.64**	**18.92**	**83.84**	**88.91**
04-Dec-17 00:00:00	04-Dec-17 01:00:00		0.00	0.00	0.00	6.85	2.1	329.7		0.00	0.00	0.00	2.26		10.35	18.92	83.84	86.68	04-Dec-17 00:00:00		**10.35**	**18.92**	**83.84**	**88.94**
04-Dec-17 01:00:00	04-Dec-17 02:00:00		0.00	0.00	0.00	6.93	2.1	329.7		0.00	0.00	0.00	2.29		10.35	18.92	83.84	86.68	04-Dec-17 01:00:00		**10.35**	**18.92**	**83.84**	**88.97**
04-Dec-17 02:00:00	04-Dec-17 03:00:00		0.00	0.00	0.00	6.97	2.1	329.7		0.00	0.00	0.00	2.30		10.35	18.92	83.84	86.68	04-Dec-17 02:00:00		**10.35**	**18.92**	**83.84**	**88.98**
04-Dec-17 03:00:00	04-Dec-17 04:00:00		0.00	0.00	0.00	18.14	2.1	329.7		0.00	0.00	0.00	5.98		10.35	18.92	83.84	86.68	04-Dec-17 03:00:00		**10.35**	**18.92**	**83.84**	**92.66**
04-Dec-17 04:00:00	04-Dec-17 05:00:00		0.00	0.00	0.00	7.15	2.1	329.7		0.00	0.00	0.00	2.36		10.35	18.92	83.84	86.68	04-Dec-17 04:00:00		**10.35**	**18.92**	**83.84**	**89.04**
04-Dec-17 05:00:00	04-Dec-17 06:00:00		0.00	0.00	0.00	7.24	2.1	329.7		0.00	0.00	0.00	2.39		10.35	18.92	83.84	86.68	04-Dec-17 05:00:00		**10.35**	**18.92**	**83.84**	**89.07**
04-Dec-17 06:00:00	04-Dec-17 07:00:00		0.00	0.00	0.00	7.32	2.1	329.7		0.00	0.00	0.00	2.41		10.35	18.92	83.84	86.68	04-Dec-17 06:00:00		**10.35**	**18.92**	**83.84**	**89.09**
04-Dec-17 07:00:00	04-Dec-17 08:00:00		0.00	0.00	0.00	7.40	2.1	329.7		0.00	0.00	0.00	2.44		10.35	18.92	83.84	86.68	04-Dec-17 07:00:00		**10.35**	**18.92**	**83.84**	**89.12**
04-Dec-17 08:00:00	04-Dec-17 09:00:00		0.00	0.00	0.00	7.25	2.1	329.7		0.00	0.00	0.00	2.39		10.35	18.92	83.84	86.68	04-Dec-17 08:00:00		**10.35**	**18.92**	**83.84**	**89.07**
04-Dec-17 09:00:00	04-Dec-17 10:00:00		0.00	0.00	0.00	30.88	2.1	329.7		0.00	0.00	0.00	10.18		10.35	18.92	83.84	86.68	04-Dec-17 09:00:00		**10.35**	**18.92**	**83.84**	**96.86**
04-Dec-17 10:00:00	04-Dec-17 11:00:00		0.00	0.00	0.00	8.06	2.1	329.7		0.00	0.00	0.00	2.66		10.35	18.92	83.84	86.68	04-Dec-17 10:00:00		**10.35**	**18.92**	**83.84**	**89.34**
04-Dec-17 11:00:00	04-Dec-17 12:00:00		0.00	0.00	0.00	6.68	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	04-Dec-17 11:00:00		**10.35**	**18.92**	**83.84**	**88.88**
04-Dec-17 12:00:00	04-Dec-17 13:00:00		0.00	0.00	0.00	6.42	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	04-Dec-17 12:00:00		**10.35**	**18.92**	**83.84**	**88.80**
04-Dec-17 13:00:00	04-Dec-17 14:00:00		0.00	0.00	0.00	6.16

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
06-Dec-17 15:00:00	06-Dec-17 16:00:00		0.00	0.00	0.00	7.19	2.1	329.7		0.00	0.00	0.00	2.37		10.35	18.92	83.84	86.68	06-Dec-17 15:00:00		10.35	18.92	83.84	89.05
06-Dec-17 16:00:00	06-Dec-17 17:00:00		0.00	0.00	0.00	7.07	2.1	329.7		0.00	0.00	0.00	2.33		10.35	18.92	83.84	86.68	06-Dec-17 16:00:00		10.35	18.92	83.84	89.01
06-Dec-17 17:00:00	06-Dec-17 18:00:00		0.00	0.00	0.00	7.23	2.1	329.7		0.00	0.00	0.00	2.38		10.35	18.92	83.84	86.68	06-Dec-17 17:00:00		10.35	18.92	83.84	89.06
06-Dec-17 18:00:00	06-Dec-17 19:00:00		0.00	0.00	0.00	7.40	2.1	329.7		0.00	0.00	0.00	2.44		10.35	18.92	83.84	86.68	06-Dec-17 18:00:00		10.35	18.92	83.84	89.12
06-Dec-17 19:00:00	06-Dec-17 20:00:00		1.92	0.00	0.00	7.54	2.1	329.7		0.63	0.00	0.00	2.49		10.35	18.92	83.84	86.68	06-Dec-17 19:00:00		10.98	18.92	83.84	89.17
06-Dec-17 20:00:00	06-Dec-17 21:00:00		2.04	0.00	0.00	7.56	2.1	329.7		0.67	0.00	0.00	2.49		10.35	18.92	83.84	86.68	06-Dec-17 20:00:00		11.02	18.92	83.84	89.17
06-Dec-17 21:00:00	06-Dec-17 22:00:00		0.00	0.00	0.00	8.33	2.1	329.7		0.00	0.00	0.00	2.74		10.35	18.92	83.84	86.68	06-Dec-17 21:00:00		10.35	18.92	83.84	89.42
06-Dec-17 22:00:00	06-Dec-17 23:00:00		0.00	0.00	0.00	7.46	2.1	329.7		0.00	0.00	0.00	2.46		10.35	18.92	83.84	86.68	06-Dec-17 22:00:00		10.35	18.92	83.84	89.14
06-Dec-17 23:00:00	07-Dec-17 00:00:00		0.00	0.00	0.00	7.39	2.1	329.7		0.00	0.00	0.00	2.44		10.35	18.92	83.84	86.68	06-Dec-17 23:00:00		10.35	18.92	83.84	89.12
07-Dec-17 00:00:00	07-Dec-17 01:00:00		0.00	0.00	0.00	7.32	2.1	329.7		0.00	0.00	0.00	2.41		10.35	18.92	83.84	86.68	07-Dec-17 00:00:00		10.35	18.92	83.84	89.09
07-Dec-17 01:00:00	07-Dec-17 02:00:00		0.00	0.00	0.00	7.29	2.1	329.7		0.00	0.00	0.00	2.40		10.35	18.92	83.84	86.68	07-Dec-17 01:00:00		10.35	18.92	83.84	89.08
07-Dec-17 02:00:00	07-Dec-17 03:00:00		0.00	0.00	0.00	7.39	2.1	329.7		0.00	0.00	0.00	2.44		10.35	18.92	83.84	86.68	07-Dec-17 02:00:00		10.35	18.92	83.84	89.12
07-Dec-17 03:00:00	07-Dec-17 04:00:00		0.00	0.00	0.00	13.29	2.1	329.7		0.00	0.00	0.00	4.38		10.35	18.92	83.84	86.68	07-Dec-17 03:00:00		10.35	18.92	83.84	91.06
07-Dec-17 04:00:00	07-Dec-17 05:00:00		0.00	0.00	0.00	7.40	2.1	329.7		0.00	0.00	0.00	2.44		10.35	18.92	83.84	86.68	07-Dec-17 04:00:00		10.35	18.92	83.84	89.12
07-Dec-17 05:00:00	07-Dec-17 06:00:00		0.00	0.00	0.00	7.40	2.1	329.7		0.00	0.00	0.00	2.44		10.35	18.92	83.84	86.68	07-Dec-17 05:00:00		10.35	18.92	83.84	89.12
07-Dec-17 06:00:00	07-Dec-17 07:00:00		0.00	0.00	0.00	7.39	2.1	329.7		0.00	0.00	0.00	2.44		10.35	18.92	83.84	86.68	07-Dec-17 06:00:00		10.35	18.92	83.84	89.12
07-Dec-17 07:00:00	07-Dec-17 08:00:00		0.00	0.00	0.00	7.32	2.1	329.7		0.00	0.00	0.00	2.41		10.35	18.92	83.84	86.68	07-Dec-17 07:00:00		10.35	18.92	83.84	89.09
07-Dec-17 08:00:00	07-Dec-17 09:00:00		0.00	0.00	0.00	16.20	2.1	329.7		0.00	0.00	0.00	5.34		10.35	18.92	83.84	86.68	07-Dec-17 08:00:00		10.35	18.92	83.84	92.02
07-Dec-17 09:00:00	07-Dec-17 10:00:00		0.00	0.00	0.00	18.85	2.1	329.7		0.00	0.00	0.00	6.21		10.35	18.92	83.84	86.68	07-Dec-17 09:00:00		10.35	18.92	83.84	92.89
07-Dec-17 10:00:00	07-Dec-17 11:00:00		0.00	0.00	0.00	7.00	2.1	329.7		0.00	0.00	0.00	2.31		10.35	18.92	83.84	86.68	07-Dec-17 10:00:00		10.35	18.92	83.84	88.99
07-Dec-17 11:00:00	07-Dec-17 12:00:00		0.00	0.00	0.00	19.28	2.1	329.7		0.00	0.00	0.00	6.36		10.35	18.92	83.84	86.68	07-Dec-17 11:00:00		10.35	18.92	83.84	93.04
07-Dec-17 12:00:00	07-Dec-17 13:00:00		0.00	0.00	0.00	7.03	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	07-Dec-17 12:00:00		10.35	18.92	83.84	89.00
07-Dec-17 13:00:00	07-Dec-17 14:00:00		0.00	0.00	0.00	6.96	2.1	329.7		0.00	0.00	0.00	2.30		10.35	18.92	83.84	86.68	07-Dec-17 13:00:00		10.35	18.92	83.84	88.98
07-Dec-17 14:00:00	07-Dec-17 15:00:00		0.00	0.00	0.00	18.23	2.1	329.7		0.00	0.00	0.00	6.01		10.35	18.92	83.84	86.68	07-Dec-17 14:00:00		10.35	18.92	83.84	92.69
07-Dec-17 15:00:00	07-Dec-17 16:00:00		0.00	0.00	0.00	6.70	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	07-Dec-17 15:00:00		10.35	18.92	83.84	88.89
07-Dec-17 16:00:00	07-Dec-17 17:00:00		0.00	0.00	0.00	6.75	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	07-Dec-17 16:00:00		10.35	18.92	83.84	88.91
07-Dec-17 17:00:00	07-Dec-17 18:00:00		0.00	0.00	0.00	6.80	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	07-Dec-17 17:00:00		10.35	18.92	83.84	88.92
07-Dec-17 18:00:00	07-Dec-17 19:00:00		0.00	0.00	0.00	6.85	2.1	329.7		0.00	0.00	0.00	2.26		10.35	18.92	83.84	86.68	07-Dec-17 18:00:00		10.35	18.92	83.84	88.94
07-Dec-17 19:00:00	07-Dec-17 20:00:00		0.00	0.00	0.00	6.92	2.1	329.7		0.00	0.00	0.00	2.28		10.35	18.92	83.84	86.68	07-Dec-17 19:00:00		10.35	18.92	83.84	88.96
07-Dec-17 20:00:00	07-Dec-17 21:00:00		0.00	0.00	0.00	116.85	2.1	329.7		0.00	0.00	0.00	38.52		10.35	18.92	83.84	86.68	07-Dec-17 20:00:00		10.35	18.92	83.84	125.20
07-Dec-17 21:00:00	07-Dec-17 22:00:00		0.00	0.00	0.00	6.96	2.1	329.7		0.00	0.00	0.00	2.29		10.35	18.92	83.84	86.68	07-Dec-17 21:00:00		10.35	18.92	83.84	88.97
07-Dec-17 22:00:00	07-Dec-17 23:00:00		0.00	0.00	0.00	15.29	2.1	329.7		0.00	0.00	0.00	5.04		10.35	18.92	83.84	86.68	07-Dec-17 22:00:00		10.35	18.92	83.84	91.72
07-Dec-17 23:00:00	08-Dec-17 00:00:00		0.00	0.00	0.00	6.97	2.1	329.7		0.00	0.00	0.00	2.30		10.35	18.92	83.84	86.68	07-Dec-17 23:00:00		10.35	18.92	83.84	88.98
08-Dec-17 00:00:00	08-Dec-17 01:00:00		0.00	0.00	0.00	6.99	2.1	329.7		0.00	0.00	0.00	2.30		10.35	18.92	83.84	86.68	08-Dec-17 00:00:00		10.35	18.92	83.84	88.98
08-Dec-17 01:00:00	08-Dec-17 02:00:00		0.00	0.00	0.00	7.00	2.1	329.7		0.00	0.00	0.00	2.31		10.35	18.92	83.84	86.68	08-Dec-17 01:00:00		10.35	18.92	83.84	88.99
08-Dec-17 02:00:00	08-Dec-17 03:00:00		0.00	0.00	0.00	19.12	2.1	329.7		0.00	0.00	0.00	6.30		10.35	18.92	83.84	86.68	08-Dec-17 02:00:00		10.35	18.92	83.84	92.98
08-Dec-17 03:00:00	08-Dec-17 04:00:00		0.00	0.00	0.00	7.15	2.1	329.7		0.00	0.00	0.00	2.36		10.35	18.92	83.84	86.68	08-Dec-17 03:00:00		10.35	18.92	83.84	89.04
08-Dec-17 04:00:00	08-Dec-17 05:00:00		0.00	0.00	0.00	7.27	2.1	329.7		0.00	0.00	0.00	2.40		10.35	18.92	83.84	86.68	08-Dec-17 04:00:00		10.35	18.92	83.84	89.08
08-Dec-17 05:00:00	08-Dec-17 06:00:00		0.00	0.00	0.00	7.38	2.1	329.7		0.00	0.00	0.00	2.43		10.35	18.92	83.84	86.68	08-Dec-17 05:00:00		10.35	18.92	83.84	89.11
08-Dec-17 06:00:00	08-Dec-17 07:00:00		0.00	0.00	0.00	7.47	2.1	329.7		0.00	0.00	0.00	2.46		10.35	18.92	83.84	86.68	08-Dec-17 06:00:00		10.35	18.92	83.84	89.14
08-Dec-17 07:00:00	08-Dec-17 08:00:00		0.00	0.00	0.00	24.35	2.1	329.7		0.00	0.00	0.00	8.03		10.35	18.92	83.84	86.68	08-Dec-17 07:00:00		10.35	18.92	83.84	94.71
08-Dec-17 08:00:00	08-Dec-17 09:00:00		0.00	0.00	0.00	8.09	2.1	329.7		0.00	0.00	0.00	2.67		10.35	18.92	83.84	86.68	08-Dec-17 08:00:00		10.35	18.92	83.84	89.35
08-Dec-17 09:00:00	08-Dec-17 10:00:00		0.00	0.00	0.00	7.52	2.1	329.7		0.00	0.00	0.00	2.48		10.35	18.92	83.84	86.68	08-Dec-17 09:00:00		10.35	18.92	83.84	89.16
08-Dec-17 10:00:00	08-Dec-17 11:00:00		0.00	0.00	0.00	7.58	2.1	329.7		0.00	0.00	0.00	2.50		10.35	18.92	83.84	86.68	08-Dec-17 10:00:00		10.35	18.92	83.84	89.18
08-Dec-17 11:00:00	08-Dec-17 12:00:00		0.00	0.00	0.00	7.64	2.1	329.7		0.00	0.00	0.00	2.52		10.35	18.92	83.84	86.68	08-Dec-17 11:00:00		10.35	18.92	83.84	89.20
08-Dec-17 12:00:00	08-Dec-17 13:00:00		0.00	0.00	0.00	7.63	2.1	329.7		0.00	0.00	0.00	2.52		10.35	18.92	83.84	86.68	08-Dec-17 12:00:00		10.35	18.92	83.84	89.20
08-Dec-17 13:00:00	08-Dec-17 14:00:00		0.00	0.00	0.00	12.52	2.1	329.7		0.00	0.00	0.00	4.13		10.35	18.92	83.84	86.68	08-Dec-17 13:00:00		10.35	18.92	83.84	90.81
08-Dec-17 14:00:00	08-Dec-17 15:00:00		0.00	0.00	0.00	7.69	2.1	329.7		0.00	0.00	0.00	2.53		10.35	18.92	83.84	86.68	08-Dec-17 14:00:00		10.35	18.92	83.84	89.21
08-Dec-17 15:00:00	08-Dec-17 16:00:00		0.00	0.00	0.00	7.85	2.1	329.7		0.00	0.00	0.00	2.59		10.35	18.92	83.84	86.68	08-Dec-17 15:00:00		10.35	18.92	83.84	89.27
08-Dec-17 16:00:00	08-Dec-17 17:00:00		2.79	0.00	76.23	8.02	2.1	329.7		0.92	0.00	25.13	2.64		10.35	18.92	83.84	86.68	08-Dec-17 16:00:00		11.27	18.92	108.97	89.32
08-Dec-17 17:00:00	08-Dec-17 18:00:00		2.07	0.00	14.68	8.16	2.1	329.7		0.68	0.00	4.84	2.69		10.35	18.92	83.84	86.68	08-Dec-17 17:00:00		11.03	18.92	88.68	89.37
08-Dec-17 18:00:00	08-Dec-17 19:00:00		1.32	0.00	0.00	8.15	2.1	329.7		0.44	0.00	0.00	2.69		10.35	18.92	83.84	86.68	08-Dec-17 18:00:00		10.79	18.92	83.84	89.37
08-Dec-17 19:00:00	08-Dec-17 20:00:00		0.57	0.00	0.00	26.71	2.1	329.7		0.19	0.00	0.00	8.81		10.35	18.92	83.84	86.68	08-Dec-17 19:00:00		10.54	18.92	83.84	95.49
08-Dec-17 20:00:00	08-Dec-17 21:00:00		0.03	0.00	0.00	8.14	2.1	329.7		0.01	0.00	0.00	2.68		10.35	18.92	83.84	86.68	08-Dec-17 20:00:00		10.36	18.92	83.84	89.36
08-Dec-17 21:00:00	08-Dec-17 22:00:00		0.08	0.00	0.00	144.14	2.1	329.7		0.03	0.00	0.00	47.52		10.35	18.92	83.84	86.68	08-Dec-17 21:00:00		10.38	18.92	83.84	134.20
08-Dec-17 22:00:00	08-Dec-17 23:00:00		7.31	0.00	0.00	162.08	2.1	329.7		2.41	0.00	0.00	53.44		10.35	18.92	83.84	86.68	08-Dec-17 22:00:00		12.76	18.92	83.84	140.12
08-Dec-17 23:00:00	09-Dec-17 00:00:00		8.78	0.00	0.00	137.56	2.1	329.7		2.90	0.00	0.00	45.35		10.35	18.92	83.84	86.68	08-Dec-17 23:00:00		13.25	18.92	83.84	132.03
09-Dec-17 00:00:00	09-Dec-17 01:00:00		10.05	0.00	0.00	137.17	2.1	329.7		3.31	0.00	0.00	45.23		10.35	18.92	83.84	86.68	09-Dec-17 00:00:00		13.66	18.92	83.84	131.91
09-Dec-17 01:00:00	09-Dec-17 02:00:00		11.22	0.00	0.00	136.44	2.1	329.7		3.70	0.00	0.00	44.98		10.35	18.92	83.84	86.68	09-Dec-17 01:00:00		14.05	18.92	83.84	131.66
09-Dec-17 02:00:00	09-Dec-17 03:00:00		10.22	0.00	69.24	299.03	2.1	329.7		3.37	0.00	22.83	98.59		10.35	18.92	83.84	86.68	09-Dec-17 02:00:00		13.72	18.92	106.67	185.27
09-Dec-17 03:00:00	09-Dec-17 04:00:00		11.32	0.00	125.75	447.22	2.1	329.7		3.73	0.00	41.46	147.45		10.35	18.92	83.84	86.68	09-Dec-17 03:00:00		14.08	18.92	125.30	234.13
09-Dec-17 04:00:00	09-Dec-17 05:00:00		9.21	0.00	343.71	451.33	2.1	329.7		3.04	0.00	113.32	148.80		10.35	18.92	83.84	86.68	09-Dec-17 04:00:00		13.39	18.92	197.16	235.48
09-Dec-17 05:00:00	09-Dec-17 06:00:00		8.90	0.00	150.88	495.41	2.1	329.7		2.94	0.00	49.75	163.34		10.35	18.92	83.84	86.68	09-Dec-17 05:00:00		13.29	18.92	133.59	250.02
09-Dec-17 06:00:00	09-Dec-17 07:00:00		9.94	0.00	179.62	692.94	2.1	329.7		3.28	0.00	59.22	228.46		10.35	18.92	83.84	86.68	09-Dec-17 06:00:00		13.63	18.92	143.06	315.14
09-Dec-17 07:00:00	09-Dec-17 08:00:00		9.38	0.00	41.95	226.82	2.1	329.7		3.09	0.00	13.83	74.78		10.35	18.92	83.84	86.68	09-Dec-17 07:00:00		13.44	18.92	97.67	161.46
09-Dec-17 08:00:00	09-Dec-17 09:00:00		10.00	0.00	0.00	7.31	2.1	329.7		3.30	0.00	0.00	2.41		10.35	18.92	83.84	86.68	09-Dec-17 08:00:00		13.65	18.92	83.84	89.09
09-Dec-17 09:00:00	09-Dec-17 10:00:00		9.23	0.00	0.00	7.40	2.1	329.7		3.04	0.00	0.00	2.44		10.35	18.92	83.84	86.68	09-Dec-17 09:00:00		13.39	18.92	83.84	89.12
09-Dec-17 10:00:00	09-Dec-17 11:00:00		7.90	0.00	0.00	7.49	2.1	329.7		2.60	0.00	0.00	2.47		10.35	18.92	83.84	86.68	09-Dec-17 10:00:00		12.95	18.92	83.84	89.15
09-Dec-17 11:00:00	09-Dec-17 12:00:00		2.99	0.00	0.00	7.59	2.1	329.7		0.99	0.00	0.00	2.50		10.35	18.92	83.84	86.68	09-Dec-17 11:00:00		11.34	18.92	83.84	89.18
09-Dec-17 12:00:00	09-Dec-17 13:00:00		5.72	0.00	0.00	7.79	2.1	329.7		1.89	0.00	0.00	2.57		10.35	18.92	83.84	86.68	09-Dec-17 12:00:00		12.24	18.92	83.84	89.25
09-Dec-17 13:00:00	09-Dec-17 14:00:00		5.48	0.00	0.00	8.67	2.1	329.7		1.81	0.00	0.00	2.86		10.35	18.92	83.84	86.68	09-Dec-17 13:00:00		12.16	18.92	83.84	89.54
09-Dec-17 14:00:00	09-Dec-17 15:00:00		4.91	0.00	0.00	7.92	2.1	329.7		1.62	0.00	0.00	2.61		10.35	18.92	83.84	86.68	09-Dec-17 14:00:00		11.97	18.92	83.84	89.29
09-Dec-17 15:00:00	09-Dec-17 16:00:00		4.35	0.00	0.00	7.83	2.1	329.7		1.43	0.00	0.00	2.58		10.35	18.92	83.84	86.68	09-Dec-17 15:00:00		11.78	18.92	83.84	89.26
09-Dec-17 16:00:00	09-Dec-17 17:00:00		0.31	0.00	0.00	7.75	2.1	329.7		0.10	0.00	0.00	2.55		10.35	18.92	83.84	86.68	09-Dec-17 16:00:00		10.45	18.92	83.84	89.23
09-Dec-17 17:00:00	09-Dec-17 18:00:00		0.00	0.00	0.00	7.78	2.1	329.7		0.00	0.00	0.00	2.57		10.35	18.92	83.84	86.68	09-Dec-17 17:00:00		10.35	18.92	83.84	89.25
09-Dec-17 18:00:00	09-Dec-17 19:00:00		0.00	0.00	0.00	44.19	2.1	329.7		0.00	0.00	0.00	14.57		10.35	18.92	83.84	86.68	09-Dec-17 18:00:00		10.35	18.92	83.84	101.25
09-Dec-17 19:00:00	09-Dec-17 20:00:00		0.00	0.00	0.00	7.86	2.1	329.7		0.00	0.00	0.00	2.59		10.35	18.92	83.84	86.68	09-Dec-17 19:00:00		10.35	18.92	83.84	89.27
09-Dec-17 20:00:00	09-Dec-17 21:00:00		0.42	0.00	0.00	7.91	2.1	329.7		0.14	0.00	0.00	2.61		10.35	18.92	83.84	86.68	09-Dec-17 20:00:00		10.49	18.92	83.84	89.29
09-Dec-17 21:00:00	09-Dec-17 22:00:00		1.41	0.00	0.00	8.01	2.1	329.7		0.47	0.00	0.00	2.64		10.35	18.92	83.84	86.68	09-Dec-17 21:00:00		10.82	18.92	83.84	89.32
09-Dec-17 22:00:00	09-Dec-17 23:00:00		14.88	0.00	0.00	8.12	2.1	329.7		4.91	0.00	0.00	2.68		10.35	18.92	83.84	86.68	09-Dec-17 22:00:00		15.26	18.92	83.84	89.36
09-Dec-17 23:00:00	10-Dec-17 00:00:00		18.61	0.00	0.00	8.27	2.1	329.7		6.14	0.00	0.00	2.73		10.35	18.92	83.84	86.68	09-Dec-17 23:00:00		16.49	18.92	83.84	89.41
10-Dec-17 00:00:00	10-Dec-17 01:00:00		19.20	0.00	0.00	52.01	2.1	329.7		6.33	0.00	0.00	17.15		10.35	18.92	83.84	86.68	10-Dec-17 00:00:00		16.68	18.92	83.84	103.83
10-Dec-17 01:00:00	10-Dec-17 02:00:00		16.48	0.00	0.00	8.91	2.1	329.7		5.43	0.00	0.00	2.94		10.35	18.92	83.84	86.68	10-Dec-17 01:00:00		15.78	18.92	83.84	89.62
10-Dec-17 02:00:00	10-Dec-17 03:00:00		5.70	0.00	0.00	8.81	2.1	329.7		1.88	0.00	0.00	2.91		10.35	18.92	83.84	86.68	10-Dec-17 02:00:00		12.23	18.92	83.84	89.59
10-Dec-17 03:00:00	10-Dec-17 04:00:00		0.00	0.00	0.00	8.72	2.1	329.7		0.00	0.00	0.00	2.87		10.35	18.92	83.84	86.68	10-Dec-17 03:00:00		10.35	18.92	83.84	89.55
10-Dec-17 04:00:00	10-Dec-17 05:00:00		6.24	0.00	0.00	8.66	2.1	329.7		2.06	0.00	0.00	2.86		10.35	18.92	83.84	86.68	10-Dec-17 04:00:00		12.41	18.92	83.84	89.54
10-Dec-17 05:00:00	10-Dec-17 06:00:00		6.01	0.00	0.00	8.77	2.1	329.7		1.98	0.00	0.00	2.89		10.35	18.92	83.84	86.68	10-Dec-17 05:00:00		12.33	18.92	83.84	89.57
10-Dec-17 06:00:00	10-Dec-17 07:00:00		99.16	35.93	56.89	8.73	2.1	329.7		32.69	11.85	18.76	2.88		10.35	18.92	83.84	86.68	10-Dec-17 06:00:00		43.04	30.77	102.60	89.56
10-Dec-17 07:00:00	10-Dec-17 08:00:00		171.67	305.99	212.60	208.34	2.1	329.7		56.60	100.89	70.09	68.69		10.35	18.92	83.84	86.68	10-Dec-17 07:00:00		66.95	119.81	153.93	155.37
10-Dec-17 08:00:00	10-Dec-17 09:00:00		2.94	123.61	106.36	8.43	2.1	329.7		0.97	40.75	35.07	2.78		10.35	18.92	83.84	86.68	10-Dec-17 08:00:00		11.32	59.67	118.91	89.46
10-Dec-17 09:00:00	10-Dec-17 10:00:00		13.52	0.00	0.00	71.99	2.1	329.7		4.46	0.00	0.00	23.74		10.35	18.92	83.84	86.68	10-Dec-17 09:00:00		14.81	18.92	83.84	110.42
10-Dec-17 10:00:00	10-Dec-17 11:00:00		21.69	0.00	0.00	445.02	2.1	329.7		7.15	0.00	0.00	146.72		10.35	18.92	83.84	86.68	10-Dec-17 10:00:00		17.50	18.92	83.84	233.40
10-Dec-17 11:00:00	10-Dec-17 12:00:00		6.47	0.00	0.00	332.80	2.1	329.7		2.13	0.00	0.00	109.73		10.35	18.92	83.84	86.68	10-Dec-17 11:00:00		12.48	18.92	83.84	196.41
10-Dec-17 12:00:00	10-Dec-17 13:00:00		6.46	0.00	0.00	321.19

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
12-Dec-17 14:00:00	12-Dec-17 15:00:00		10.75	0.00	0.00	6.62	2.1	329.7		3.54	0.00	0.00	2.18		10.35	18.92	83.84	86.68	12-Dec-17 14:00:00		**13.89**	**18.92**	**83.84**	**88.86**
12-Dec-17 15:00:00	12-Dec-17 16:00:00		0.00	0.00	0.00	6.53	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	12-Dec-17 15:00:00		**10.35**	**18.92**	**83.84**	**88.83**
12-Dec-17 16:00:00	12-Dec-17 17:00:00		0.00	0.00	0.00	6.55	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	12-Dec-17 16:00:00		**10.35**	**18.92**	**83.84**	**88.84**
12-Dec-17 17:00:00	12-Dec-17 18:00:00		0.00	0.00	0.00	95.69	2.1	329.7		0.00	0.00	0.00	31.55		10.35	18.92	83.84	86.68	12-Dec-17 17:00:00		**10.35**	**18.92**	**83.84**	**118.23**
12-Dec-17 18:00:00	12-Dec-17 19:00:00		0.00	0.00	0.00	7.01	2.1	329.7		0.00	0.00	0.00	2.31		10.35	18.92	83.84	86.68	12-Dec-17 18:00:00		**10.35**	**18.92**	**83.84**	**88.99**
12-Dec-17 19:00:00	12-Dec-17 20:00:00		9.45	0.00	0.00	7.12	2.1	329.7		3.12	0.00	0.00	2.35		10.35	18.92	83.84	86.68	12-Dec-17 19:00:00		**13.47**	**18.92**	**83.84**	**89.03**
12-Dec-17 20:00:00	12-Dec-17 21:00:00		0.24	0.00	0.00	7.24	2.1	329.7		0.08	0.00	0.00	2.39		10.35	18.92	83.84	86.68	12-Dec-17 20:00:00		**10.43**	**18.92**	**83.84**	**89.07**
12-Dec-17 21:00:00	12-Dec-17 22:00:00		2.93	0.00	0.00	7.35	2.1	329.7		0.96	0.00	0.00	2.42		10.35	18.92	83.84	86.68	12-Dec-17 21:00:00		**11.31**	**18.92**	**83.84**	**89.10**
12-Dec-17 22:00:00	12-Dec-17 23:00:00		0.41	0.00	0.00	8.87	2.1	329.7		0.14	0.00	0.00	2.93		10.35	18.92	83.84	86.68	12-Dec-17 22:00:00		**10.49**	**18.92**	**83.84**	**89.61**
12-Dec-17 23:00:00	13-Dec-17 00:00:00		5.29	0.00	0.00	60.13	2.1	329.7		1.74	0.00	0.00	19.82		10.35	18.92	83.84	86.68	12-Dec-17 23:00:00		**12.09**	**18.92**	**83.84**	**106.50**
13-Dec-17 00:00:00	13-Dec-17 01:00:00		0.73	0.00	0.00	8.29	2.1	329.7		0.24	0.00	0.00	2.73		10.35	18.92	83.84	86.68	13-Dec-17 00:00:00		**10.59**	**18.92**	**83.84**	**89.41**
13-Dec-17 01:00:00	13-Dec-17 02:00:00		0.37	0.00	0.00	8.19	2.1	329.7		0.12	0.00	0.00	2.70		10.35	18.92	83.84	86.68	13-Dec-17 01:00:00		**10.47**	**18.92**	**83.84**	**89.38**
13-Dec-17 02:00:00	13-Dec-17 03:00:00		7.26	0.00	0.00	28.98	2.1	329.7		2.39	0.00	0.00	9.56		10.35	18.92	83.84	86.68	13-Dec-17 02:00:00		**12.74**	**18.92**	**83.84**	**96.24**
13-Dec-17 03:00:00	13-Dec-17 04:00:00		9.75	0.00	0.00	8.37	2.1	329.7		3.22	0.00	0.00	2.76		10.35	18.92	83.84	86.68	13-Dec-17 03:00:00		**13.57**	**18.92**	**83.84**	**89.44**
13-Dec-17 04:00:00	13-Dec-17 05:00:00		14.12	0.00	0.00	8.48	2.1	329.7		4.66	0.00	0.00	2.79		10.35	18.92	83.84	86.68	13-Dec-17 04:00:00		**15.01**	**18.92**	**83.84**	**89.47**
13-Dec-17 05:00:00	13-Dec-17 06:00:00		18.23	0.00	0.00	19.90	2.1	329.7		6.01	0.00	0.00	6.56		10.35	18.92	83.84	86.68	13-Dec-17 05:00:00		**16.36**	**18.92**	**83.84**	**93.24**
13-Dec-17 06:00:00	13-Dec-17 07:00:00		30.50	0.00	0.00	8.58	2.1	329.7		10.06	0.00	0.00	2.83		10.35	18.92	83.84	86.68	13-Dec-17 06:00:00		**20.41**	**18.92**	**83.84**	**89.51**
13-Dec-17 07:00:00	13-Dec-17 08:00:00		22.84	0.00	0.00	8.57	2.1	329.7		7.53	0.00	0.00	2.83		10.35	18.92	83.84	86.68	13-Dec-17 07:00:00		**17.88**	**18.92**	**83.84**	**89.51**
13-Dec-17 08:00:00	13-Dec-17 09:00:00		21.25	0.00	0.00	8.56	2.1	329.7		7.01	0.00	0.00	2.82		10.35	18.92	83.84	86.68	13-Dec-17 08:00:00		**17.36**	**18.92**	**83.84**	**89.50**
13-Dec-17 09:00:00	13-Dec-17 10:00:00		24.72	0.00	0.00	8.55	2.1	329.7		8.15	0.00	0.00	2.82		10.35	18.92	83.84	86.68	13-Dec-17 09:00:00		**18.50**	**18.92**	**83.84**	**89.50**
13-Dec-17 10:00:00	13-Dec-17 11:00:00		32.33	0.00	0.00	8.29	2.1	329.7		10.66	0.00	0.00	2.73		10.35	18.92	83.84	86.68	13-Dec-17 10:00:00		**21.01**	**18.92**	**83.84**	**89.41**
13-Dec-17 11:00:00	13-Dec-17 12:00:00		22.12	0.00	0.00	7.92	2.1	329.7		7.29	0.00	0.00	2.61		10.35	18.92	83.84	86.68	13-Dec-17 11:00:00		**17.64**	**18.92**	**83.84**	**89.29**
13-Dec-17 12:00:00	13-Dec-17 13:00:00		6.26	0.00	0.00	7.56	2.1	329.7		2.06	0.00	0.00	2.49		10.35	18.92	83.84	86.68	13-Dec-17 12:00:00		**12.41**	**18.92**	**83.84**	**89.17**
13-Dec-17 13:00:00	13-Dec-17 14:00:00		3.25	0.00	0.00	7.19	2.1	329.7		1.07	0.00	0.00	2.37		10.35	18.92	83.84	86.68	13-Dec-17 13:00:00		**11.42**	**18.92**	**83.84**	**89.05**
13-Dec-17 14:00:00	13-Dec-17 15:00:00		1.63	0.00	0.00	25.17	2.1	329.7		0.54	0.00	0.00	8.30		10.35	18.92	83.84	86.68	13-Dec-17 14:00:00		**10.89**	**18.92**	**83.84**	**94.98**
13-Dec-17 15:00:00	13-Dec-17 16:00:00		0.00	0.00	0.00	6.92	2.1	329.7		0.00	0.00	0.00	2.28		10.35	18.92	83.84	86.68	13-Dec-17 15:00:00		**10.35**	**18.92**	**83.84**	**88.96**
13-Dec-17 16:00:00	13-Dec-17 17:00:00		0.00	0.00	0.00	6.80	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	13-Dec-17 16:00:00		**10.35**	**18.92**	**83.84**	**88.92**
13-Dec-17 17:00:00	13-Dec-17 18:00:00		0.00	0.00	0.00	44.06	2.1	329.7		0.00	0.00	0.00	14.53		10.35	18.92	83.84	86.68	13-Dec-17 17:00:00		**10.35**	**18.92**	**83.84**	**101.21**
13-Dec-17 18:00:00	13-Dec-17 19:00:00		0.70	0.00	0.00	6.96	2.1	329.7		0.23	0.00	0.00	2.29		10.35	18.92	83.84	86.68	13-Dec-17 18:00:00		**10.58**	**18.92**	**83.84**	**88.97**
13-Dec-17 19:00:00	13-Dec-17 20:00:00		0.00	0.00	4.16	7.07	2.1	329.7		0.00	0.00	1.37	2.33		10.35	18.92	83.84	86.68	13-Dec-17 19:00:00		**10.35**	**18.92**	**85.21**	**89.01**
13-Dec-17 20:00:00	13-Dec-17 21:00:00		0.00	0.00	0.00	7.18	2.1	329.7		0.00	0.00	0.00	2.37		10.35	18.92	83.84	86.68	13-Dec-17 20:00:00		**10.35**	**18.92**	**83.84**	**89.05**
13-Dec-17 21:00:00	13-Dec-17 22:00:00		0.00	0.00	0.00	7.29	2.1	329.7		0.00	0.00	0.00	2.40		10.35	18.92	83.84	86.68	13-Dec-17 21:00:00		**10.35**	**18.92**	**83.84**	**89.08**
13-Dec-17 22:00:00	13-Dec-17 23:00:00		0.25	0.00	0.00	7.37	2.1	329.7		0.08	0.00	0.00	2.43		10.35	18.92	83.84	86.68	13-Dec-17 22:00:00		**10.43**	**18.92**	**83.84**	**89.11**
13-Dec-17 23:00:00	14-Dec-17 00:00:00		0.00	0.00	0.00	7.42	2.1	329.7		0.00	0.00	0.00	2.45		10.35	18.92	83.84	86.68	13-Dec-17 23:00:00		**10.35**	**18.92**	**83.84**	**89.13**
14-Dec-17 00:00:00	14-Dec-17 01:00:00		0.00	0.00	0.00	10.53	2.1	329.7		0.00	0.00	0.00	3.47		10.35	18.92	83.84	86.68	14-Dec-17 00:00:00		**10.35**	**18.92**	**83.84**	**90.15**
14-Dec-17 01:00:00	14-Dec-17 02:00:00		0.00	0.00	0.00	7.49	2.1	329.7		0.00	0.00	0.00	2.47		10.35	18.92	83.84	86.68	14-Dec-17 01:00:00		**10.35**	**18.92**	**83.84**	**89.15**
14-Dec-17 02:00:00	14-Dec-17 03:00:00		0.00	0.00	0.00	7.49	2.1	329.7		0.00	0.00	0.00	2.47		10.35	18.92	83.84	86.68	14-Dec-17 02:00:00		**10.35**	**18.92**	**83.84**	**89.15**
14-Dec-17 03:00:00	14-Dec-17 04:00:00		0.00	0.00	0.00	7.49	2.1	329.7		0.00	0.00	0.00	2.47		10.35	18.92	83.84	86.68	14-Dec-17 03:00:00		**10.35**	**18.92**	**83.84**	**89.15**
14-Dec-17 04:00:00	14-Dec-17 05:00:00		0.00	0.00	0.00	7.50	2.1	329.7		0.00	0.00	0.00	2.47		10.35	18.92	83.84	86.68	14-Dec-17 04:00:00		**10.35**	**18.92**	**83.84**	**89.15**
14-Dec-17 05:00:00	14-Dec-17 06:00:00		0.00	0.00	0.00	7.58	2.1	329.7		0.00	0.00	0.00	2.50		10.35	18.92	83.84	86.68	14-Dec-17 05:00:00		**10.35**	**18.92**	**83.84**	**89.18**
14-Dec-17 06:00:00	14-Dec-17 07:00:00		0.00	0.00	0.00	70.19	2.1	329.7		0.00	0.00	0.00	23.14		10.35	18.92	83.84	86.68	14-Dec-17 06:00:00		**10.35**	**18.92**	**83.84**	**109.82**
14-Dec-17 07:00:00	14-Dec-17 08:00:00		0.00	0.00	0.00	7.28	2.1	329.7		0.00	0.00	0.00	2.40		10.35	18.92	83.84	86.68	14-Dec-17 07:00:00		**10.35**	**18.92**	**83.84**	**89.08**
14-Dec-17 08:00:00	14-Dec-17 09:00:00		0.00	0.00	0.00	7.20	2.1	329.7		0.00	0.00	0.00	2.37		10.35	18.92	83.84	86.68	14-Dec-17 08:00:00		**10.35**	**18.92**	**83.84**	**89.05**
14-Dec-17 09:00:00	14-Dec-17 10:00:00		0.00	0.00	0.00	7.12	2.1	329.7		0.00	0.00	0.00	2.35		10.35	18.92	83.84	86.68	14-Dec-17 09:00:00		**10.35**	**18.92**	**83.84**	**89.03**
14-Dec-17 10:00:00	14-Dec-17 11:00:00		0.00	0.00	0.00	6.95	2.1	329.7		0.00	0.00	0.00	2.29		10.35	18.92	83.84	86.68	14-Dec-17 10:00:00		**10.35**	**18.92**	**83.84**	**88.97**
14-Dec-17 11:00:00	14-Dec-17 12:00:00		0.55	0.00	0.00	6.58	2.1	329.7		0.18	0.00	0.00	2.17		10.35	18.92	83.84	86.68	14-Dec-17 11:00:00		**10.53**	**18.92**	**83.84**	**88.85**
14-Dec-17 12:00:00	14-Dec-17 13:00:00		1.98	0.00	0.00	6.20	2.1	329.7		0.65	0.00	0.00	2.04		10.35	18.92	83.84	86.68	14-Dec-17 12:00:00		**11.00**	**18.92**	**83.84**	**88.72**
14-Dec-17 13:00:00	14-Dec-17 14:00:00		4.38	0.00	0.00	5.83	2.1	329.7		1.45	0.00	0.00	1.92		10.35	18.92	83.84	86.68	14-Dec-17 13:00:00		**11.80**	**18.92**	**83.84**	**88.60**
14-Dec-17 14:00:00	14-Dec-17 15:00:00		6.99	0.00	0.00	5.64	2.1	329.7		2.30	0.00	0.00	1.86		10.35	18.92	83.84	86.68	14-Dec-17 14:00:00		**12.65**	**18.92**	**83.84**	**88.54**
14-Dec-17 15:00:00	14-Dec-17 16:00:00		13.13	0.00	0.00	5.90	2.1	329.7		4.33	0.00	0.00	1.95		10.35	18.92	83.84	86.68	14-Dec-17 15:00:00		**14.68**	**18.92**	**83.84**	**88.63**
14-Dec-17 16:00:00	14-Dec-17 17:00:00		9.91	0.00	0.00	6.18	2.1	329.7		3.27	0.00	0.00	2.04		10.35	18.92	83.84	86.68	14-Dec-17 16:00:00		**13.62**	**18.92**	**83.84**	**88.72**
14-Dec-17 17:00:00	14-Dec-17 18:00:00		0.21	0.00	0.00	15.00	2.1	329.7		0.07	0.00	0.00	4.94		10.35	18.92	83.84	86.68	14-Dec-17 17:00:00		**10.42**	**18.92**	**83.84**	**91.62**
14-Dec-17 18:00:00	14-Dec-17 19:00:00		0.00	0.00	0.00	6.12	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	14-Dec-17 18:00:00		**10.35**	**18.92**	**83.84**	**88.70**
14-Dec-17 19:00:00	14-Dec-17 20:00:00		7.26	0.00	0.00	6.35	2.1	329.7		2.39	0.00	0.00	2.09		10.35	18.92	83.84	86.68	14-Dec-17 19:00:00		**12.74**	**18.92**	**83.84**	**88.77**
14-Dec-17 20:00:00	14-Dec-17 21:00:00		1.11	0.00	0.00	6.59	2.1	329.7		0.37	0.00	0.00	2.17		10.35	18.92	83.84	86.68	14-Dec-17 20:00:00		**10.72**	**18.92**	**83.84**	**88.85**
14-Dec-17 21:00:00	14-Dec-17 22:00:00		7.63	0.00	0.00	6.82	2.1	329.7		2.52	0.00	0.00	2.25		10.35	18.92	83.84	86.68	14-Dec-17 21:00:00		**12.87**	**18.92**	**83.84**	**88.93**
14-Dec-17 22:00:00	14-Dec-17 23:00:00		32.58	0.00	0.00	6.88	2.1	329.7		10.74	0.00	0.00	2.27		10.35	18.92	83.84	86.68	14-Dec-17 22:00:00		**21.09**	**18.92**	**83.84**	**88.95**
14-Dec-17 23:00:00	15-Dec-17 00:00:00		16.95	0.00	0.00	8.83	2.1	329.7		5.59	0.00	0.00	2.91		10.35	18.92	83.84	86.68	14-Dec-17 23:00:00		**15.94**	**18.92**	**83.84**	**89.59**
15-Dec-17 00:00:00	15-Dec-17 01:00:00		2.05	0.00	0.00	7.01	2.1	329.7		0.67	0.00	0.00	2.31		10.35	18.92	83.84	86.68	15-Dec-17 00:00:00		**11.02**	**18.92**	**83.84**	**88.99**
15-Dec-17 01:00:00	15-Dec-17 02:00:00		0.00	0.00	0.00	7.04	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	15-Dec-17 01:00:00		**10.35**	**18.92**	**83.84**	**89.00**
15-Dec-17 02:00:00	15-Dec-17 03:00:00		0.00	0.00	0.00	7.07	2.1	329.7		0.00	0.00	0.00	2.33		10.35	18.92	83.84	86.68	15-Dec-17 02:00:00		**10.35**	**18.92**	**83.84**	**89.01**
15-Dec-17 03:00:00	15-Dec-17 04:00:00		0.00	0.00	0.00	7.30	2.1	329.7		0.00	0.00	0.00	2.41		10.35	18.92	83.84	86.68	15-Dec-17 03:00:00		**10.35**	**18.92**	**83.84**	**89.09**
15-Dec-17 04:00:00	15-Dec-17 05:00:00		0.20	0.00	0.00	7.27	2.1	329.7		0.07	0.00	0.00	2.40		10.35	18.92	83.84	86.68	15-Dec-17 04:00:00		**10.42**	**18.92**	**83.84**	**89.08**
15-Dec-17 05:00:00	15-Dec-17 06:00:00		0.00	0.00	0.00	129.58	2.1	329.7		0.00	0.00	0.00	42.72		10.35	18.92	83.84	86.68	15-Dec-17 05:00:00		**10.35**	**18.92**	**83.84**	**129.40**
15-Dec-17 06:00:00	15-Dec-17 07:00:00		0.00	0.00	0.00	7.14	2.1	329.7		0.00	0.00	0.00	2.35		10.35	18.92	83.84	86.68	15-Dec-17 06:00:00		**10.35**	**18.92**	**83.84**	**89.03**
15-Dec-17 07:00:00	15-Dec-17 08:00:00		0.18	0.00	0.00	7.26	2.1	329.7		0.06	0.00	0.00	2.39		10.35	18.92	83.84	86.68	15-Dec-17 07:00:00		**10.41**	**18.92**	**83.84**	**89.07**
15-Dec-17 08:00:00	15-Dec-17 09:00:00		0.00	0.00	0.00	7.39	2.1	329.7		0.00	0.00	0.00	2.44		10.35	18.92	83.84	86.68	15-Dec-17 08:00:00		**10.35**	**18.92**	**83.84**	**89.12**
15-Dec-17 09:00:00	15-Dec-17 10:00:00		0.27	0.00	0.00	7.40	2.1	329.7		0.09	0.00	0.00	2.44		10.35	18.92	83.84	86.68	15-Dec-17 09:00:00		**10.44**	**18.92**	**83.84**	**89.12**
15-Dec-17 10:00:00	15-Dec-17 11:00:00		0.00	0.00	0.00	7.15	2.1	329.7		0.00	0.00	0.00	2.36		10.35	18.92	83.84	86.68	15-Dec-17 10:00:00		**10.35**	**18.92**	**83.84**	**89.04**
15-Dec-17 11:00:00	15-Dec-17 12:00:00		0.00	0.00	0.00	8.43	2.1	329.7		0.00	0.00	0.00	2.78		10.35	18.92	83.84	86.68	15-Dec-17 11:00:00		**10.35**	**18.92**	**83.84**	**89.46**
15-Dec-17 12:00:00	15-Dec-17 13:00:00		0.18	0.00	0.00	6.91	2.1	329.7		0.06	0.00	0.00	2.28		10.35	18.92	83.84	86.68	15-Dec-17 12:00:00		**10.41**	**18.92**	**83.84**	**88.96**
15-Dec-17 13:00:00	15-Dec-17 14:00:00		0.00	0.00	0.00	6.85	2.1	329.7		0.00	0.00	0.00	2.26		10.35	18.92	83.84	86.68	15-Dec-17 13:00:00		**10.35**	**18.92**	**83.84**	**88.94**
15-Dec-17 14:00:00	15-Dec-17 15:00:00		0.54	0.00	0.00	6.80	2.1	329.7		0.18	0.00	0.00	2.24		10.35	18.92	83.84	86.68	15-Dec-17 14:00:00		**10.53**	**18.92**	**83.84**	**88.92**
15-Dec-17 15:00:00	15-Dec-17 16:00:00		0.49	0.00	0.00	6.71	2.1	329.7		0.16	0.00	0.00	2.21		10.35	18.92	83.84	86.68	15-Dec-17 15:00:00		**10.51**	**18.92**	**83.84**	**88.89**
15-Dec-17 16:00:00	15-Dec-17 17:00:00		0.27	0.00	0.00	7.69	2.1	329.7		0.09	0.00	0.00	2.54		10.35	18.92	83.84	86.68	15-Dec-17 16:00:00		**10.44**	**18.92**	**83.84**	**89.22**
15-Dec-17 17:00:00	15-Dec-17 18:00:00		0.11	0.00	0.00	6.46	2.1	329.7		0.04	0.00	0.00	2.13		10.35	18.92	83.84	86.68	15-Dec-17 17:00:00		**10.39**	**18.92**	**83.84**	**88.81**
15-Dec-17 18:00:00	15-Dec-17 19:00:00		0.00	0.00	0.00	6.52	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	15-Dec-17 18:00:00		**10.35**	**18.92**	**83.84**	**88.83**
15-Dec-17 19:00:00	15-Dec-17 20:00:00		0.00	0.00	0.00	6.59	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	15-Dec-17 19:00:00		**10.35**	**18.92**	**83.84**	**88.85**
15-Dec-17 20:00:00	15-Dec-17 21:00:00		0.00	0.00	0.00	6.65	2.1	329.7		0.00	0.00	0.00	2.19		10.35	18.92	83.84	86.68	15-Dec-17 20:00:00		**10.35**	**18.92**	**83.84**	**88.87**
15-Dec-17 21:00:00	15-Dec-17 22:00:00		0.00	0.00	0.00	6.68	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	15-Dec-17 21:00:00		**10.35**	**18.92**	**83.84**	**88.88**
15-Dec-17 22:00:00	15-Dec-17 23:00:00		0.00	0.00	0.00	7.27	2.1	329.7		0.00	0.00	0.00	2.40		10.35	18.92	83.84	86.68	15-Dec-17 22:00:00		**10.35**	**18.92**	**83.84**	**89.08**
15-Dec-17 23:00:00	16-Dec-17 00:00:00		0.11	0.00	0.00	18.30	2.1	329.7		0.04	0.00	0.00	6.03		10.35	18.92	83.84	86.68	15-Dec-17 23:00:00		**10.39**	**18.92**	**83.84**	**92.71**
16-Dec-17 00:00:00	16-Dec-17 01:00:00		8.90	0.00	0.00	7.36	2.1	329.7		2.93	0.00	0.00	2.43		10.35	18.92	83.84	86.68	16-Dec-17 00:00:00		**13.28**	**18.92**	**83.84**	**89.11**
16-Dec-17 01:00:00	16-Dec-17 02:00:00		3.79	0.00	0.00	7.60	2.1	329.7		1.25	0.00	0.00	2.51		10.35	18.92	83.84	86.68	16-Dec-17 01:00:00		**11.60**	**18.92**	**83.84**	**89.19**
16-Dec-17 02:00:00	16-Dec-17 03:00:00		5.33	0.00	0.00	7.84	2.1	329.7		1.76	0.00	0.00	2.59		10.35	18.92	83.84	86.68	16-Dec-17 02:00:00		**12.11**	**18.92**	**83.84**	**89.27**
16-Dec-17 03:00:00	16-Dec-17 04:00:00		7.01	0.00	0.00	7.95	2.1	329.7		2.31	0.00	0.00	2.62		10.35	18.92	83.84	86.68	16-Dec-17 03:00:00		**12.66**	**18.92**	**83.84**	**89.30**
16-Dec-17 04:00:00	16-Dec-17 05:00:00		15.02	0.00	0.00	7.91	2.1	329.7		4.95	0.00	0.00	2.61		10.35	18.92	83.84	86.68	16-Dec-17 04:00:00		**15.30**	**18.92**	**83.84**	**89.29**
16-Dec-17 05:00:00	16-Dec-17 06:00:00		49.47	0.00	0.00	11.04	2.1	329.7		16.31	0.00	0.00	3.64		10.35	18.92	83.84	86.68	16-Dec-17 05:00:00		**26.66**	**18.92**	**83.84**	**90.32**
16-Dec-17 06:00:00	16-Dec-17 07:00:00		16.55	0.00	0.00	7.89	2.1	329.7		5.46	0.00	0.00	2.60		10.35	18.92	83.84	86.68	16-Dec-17 06:00:00		**15.81**	**18.92**	**83.84**	**89.28**
16-Dec-17 07:00:00	16-Dec-17 08:00:00		19.46	0.00	0.00	7.85	2.1	329.7		6.42	0.00	0.00	2.59		10.35	18.92	83.84	86.68	16-Dec-17 07:00:00		**16.77**	**18.92**	**83.84**	**89.27**
16-Dec-17 08:00:00	16-Dec-17 09:00:00		20.15	0.00	0.00	7.81	2.1	329.7		6.64	0.00	0.00	2.57		10.35	18.92	83.84	86.68	16-Dec-17 08:00:00		**16.99**	**18.92**	**83.84**	**89.25**
16-Dec-17 09:00:00	16-Dec-17 10:00:00		13.71	0.00	0.00	7.64	2.1	329.7		4.52	0.00	0.00	2.52		10.35	18.92	83.84	86.68	16-Dec-17 09:00:00		**14.87**	**18.92**	**83.84**	**89.20**
16-Dec-17 10:00:00	16-Dec-17 11:00:00		13.81	0.00	0.00	15.53	2.1	329.7		4.55	0.00	0.00	5.12		10.35	18.92	83.84	86.68	16-Dec-17 10:00:00		**14.90**	**18.92**	**83.84**	**91.80**
16-Dec-17 11:00:00	16-Dec-17 12:00:00		4.06	0.00	0.00	27.20

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
18-Dec-17 13:00:00	18-Dec-17 14:00:00		14.05	0.00	0.00	6.15	2.1	329.7		4.63	0.00	0.00	2.03		10.35	18.92	83.84	86.68	18-Dec-17 13:00:00		**14.98**	**18.92**	**83.84**	**88.71**
18-Dec-17 14:00:00	18-Dec-17 15:00:00		4.27	0.00	0.00	6.17	2.1	329.7		1.41	0.00	0.00	2.03		10.35	18.92	83.84	86.68	18-Dec-17 14:00:00		**11.76**	**18.92**	**83.84**	**88.71**
18-Dec-17 15:00:00	18-Dec-17 16:00:00		2.30	0.00	0.00	6.14	2.1	329.7		0.76	0.00	0.00	2.02		10.35	18.92	83.84	86.68	18-Dec-17 15:00:00		**11.11**	**18.92**	**83.84**	**88.70**
18-Dec-17 16:00:00	18-Dec-17 17:00:00		1.93	0.00	0.00	5.92	2.1	329.7		0.64	0.00	0.00	1.95		10.35	18.92	83.84	86.68	18-Dec-17 16:00:00		**10.99**	**18.92**	**83.84**	**88.63**
18-Dec-17 17:00:00	18-Dec-17 18:00:00		1.64	0.00	0.00	23.36	2.1	329.7		0.54	0.00	0.00	7.70		10.35	18.92	83.84	86.68	18-Dec-17 17:00:00		**10.89**	**18.92**	**83.84**	**94.38**
18-Dec-17 18:00:00	18-Dec-17 19:00:00		0.97	0.00	0.00	5.97	2.1	329.7		0.32	0.00	0.00	1.97		10.35	18.92	83.84	86.68	18-Dec-17 18:00:00		**10.67**	**18.92**	**83.84**	**88.65**
18-Dec-17 19:00:00	18-Dec-17 20:00:00		0.69	0.00	0.00	6.13	2.1	329.7		0.23	0.00	0.00	2.02		10.35	18.92	83.84	86.68	18-Dec-17 19:00:00		**10.58**	**18.92**	**83.84**	**88.70**
18-Dec-17 20:00:00	18-Dec-17 21:00:00		0.40	0.00	0.00	6.29	2.1	329.7		0.13	0.00	0.00	2.07		10.35	18.92	83.84	86.68	18-Dec-17 20:00:00		**10.48**	**18.92**	**83.84**	**88.75**
18-Dec-17 21:00:00	18-Dec-17 22:00:00		0.12	0.00	0.00	6.46	2.1	329.7		0.04	0.00	0.00	2.13		10.35	18.92	83.84	86.68	18-Dec-17 21:00:00		**10.39**	**18.92**	**83.84**	**88.81**
18-Dec-17 22:00:00	18-Dec-17 23:00:00		0.38	0.00	0.00	98.44	2.1	329.7		0.13	0.00	0.00	32.45		10.35	18.92	83.84	86.68	18-Dec-17 22:00:00		**10.48**	**18.92**	**83.84**	**119.13**
18-Dec-17 23:00:00	19-Dec-17 00:00:00		1.01	0.00	0.00	8.21	2.1	329.7		0.33	0.00	0.00	2.71		10.35	18.92	83.84	86.68	18-Dec-17 23:00:00		**10.68**	**18.92**	**83.84**	**89.39**
19-Dec-17 00:00:00	19-Dec-17 01:00:00		2.14	0.00	0.00	7.79	2.1	329.7		0.71	0.00	0.00	2.57		10.35	18.92	83.84	86.68	19-Dec-17 00:00:00		**11.06**	**18.92**	**83.84**	**89.25**
19-Dec-17 01:00:00	19-Dec-17 02:00:00		0.71	0.00	0.00	7.38	2.1	329.7		0.23	0.00	0.00	2.43		10.35	18.92	83.84	86.68	19-Dec-17 01:00:00		**10.58**	**18.92**	**83.84**	**89.11**
19-Dec-17 02:00:00	19-Dec-17 03:00:00		3.96	0.00	0.00	6.96	2.1	329.7		1.31	0.00	0.00	2.30		10.35	18.92	83.84	86.68	19-Dec-17 02:00:00		**11.66**	**18.92**	**83.84**	**88.98**
19-Dec-17 03:00:00	19-Dec-17 04:00:00		299.21	0.00	0.00	6.73	2.1	329.7		98.65	0.00	0.00	2.22		10.35	18.92	83.84	86.68	19-Dec-17 03:00:00		**109.00**	**18.92**	**83.84**	**88.90**
19-Dec-17 04:00:00	19-Dec-17 05:00:00		1,146.93	0.00	0.00	6.79	2.1	329.7		378.14	0.00	0.00	2.24		10.35	18.92	83.84	86.68	19-Dec-17 04:00:00		**388.49**	**18.92**	**83.84**	**88.92**
19-Dec-17 05:00:00	19-Dec-17 06:00:00		1,368.85	0.00	0.00	6.84	2.1	329.7		451.31	0.00	0.00	2.25		10.35	18.92	83.84	86.68	19-Dec-17 05:00:00		**461.66**	**18.92**	**83.84**	**88.93**
19-Dec-17 06:00:00	19-Dec-17 07:00:00		1,533.01	0.00	0.00	6.89	2.1	329.7		505.43	0.00	0.00	2.27		10.35	18.92	83.84	86.68	19-Dec-17 06:00:00		**515.78**	**18.92**	**83.84**	**88.95**
19-Dec-17 07:00:00	19-Dec-17 08:00:00		1,568.87	0.00	0.00	6.85	2.1	329.7		517.26	0.00	0.00	2.26		10.35	18.92	83.84	86.68	19-Dec-17 07:00:00		**527.61**	**18.92**	**83.84**	**88.94**
19-Dec-17 08:00:00	19-Dec-17 09:00:00		1,762.71	0.00	0.00	6.76	2.1	329.7		581.16	0.00	0.00	2.23		10.35	18.92	83.84	86.68	19-Dec-17 08:00:00		**591.51**	**18.92**	**83.84**	**88.91**
19-Dec-17 09:00:00	19-Dec-17 10:00:00		1,980.50	0.00	0.00	6.66	2.1	329.7		652.97	0.00	0.00	2.20		10.35	18.92	83.84	86.68	19-Dec-17 09:00:00		**663.32**	**18.92**	**83.84**	**88.88**
19-Dec-17 10:00:00	19-Dec-17 11:00:00		1,981.70	0.00	0.00	6.57	2.1	329.7		653.37	0.00	0.00	2.17		10.35	18.92	83.84	86.68	19-Dec-17 10:00:00		**663.72**	**18.92**	**83.84**	**88.85**
19-Dec-17 11:00:00	19-Dec-17 12:00:00		1,767.71	0.00	0.00	6.39	2.1	329.7		582.81	0.00	0.00	2.11		10.35	18.92	83.84	86.68	19-Dec-17 11:00:00		**593.16**	**18.92**	**83.84**	**88.79**
19-Dec-17 12:00:00	19-Dec-17 13:00:00		1,240.74	0.00	0.00	6.12	2.1	329.7		409.07	0.00	0.00	2.02		10.35	18.92	83.84	86.68	19-Dec-17 12:00:00		**419.42**	**18.92**	**83.84**	**88.70**
19-Dec-17 13:00:00	19-Dec-17 14:00:00		1,220.23	0.00	0.00	5.84	2.1	329.7		402.31	0.00	0.00	1.93		10.35	18.92	83.84	86.68	19-Dec-17 13:00:00		**412.66**	**18.92**	**83.84**	**88.61**
19-Dec-17 14:00:00	19-Dec-17 15:00:00		583.49	0.00	0.00	5.57	2.1	329.7		192.38	0.00	0.00	1.84		10.35	18.92	83.84	86.68	19-Dec-17 14:00:00		**202.73**	**18.92**	**83.84**	**88.52**
19-Dec-17 15:00:00	19-Dec-17 16:00:00		0.16	0.00	0.00	5.51	2.1	329.7		0.05	0.00	0.00	1.82		10.35	18.92	83.84	86.68	19-Dec-17 15:00:00		**10.40**	**18.92**	**83.84**	**88.50**
19-Dec-17 16:00:00	19-Dec-17 17:00:00		0.00	0.00	0.00	5.65	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	19-Dec-17 16:00:00		**10.35**	**18.92**	**83.84**	**88.54**
19-Dec-17 17:00:00	19-Dec-17 18:00:00		0.00	0.00	0.00	5.78	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	19-Dec-17 17:00:00		**10.35**	**18.92**	**83.84**	**88.59**
19-Dec-17 18:00:00	19-Dec-17 19:00:00		0.00	0.00	0.00	5.92	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	19-Dec-17 18:00:00		**10.35**	**18.92**	**83.84**	**88.63**
19-Dec-17 19:00:00	19-Dec-17 20:00:00		0.95	0.00	0.00	6.01	2.1	329.7		0.31	0.00	0.00	1.98		10.35	18.92	83.84	86.68	19-Dec-17 19:00:00		**10.66**	**18.92**	**83.84**	**88.66**
19-Dec-17 20:00:00	19-Dec-17 21:00:00		2.04	0.00	0.00	6.14	2.1	329.7		0.67	0.00	0.00	2.02		10.35	18.92	83.84	86.68	19-Dec-17 20:00:00		**11.02**	**18.92**	**83.84**	**88.70**
19-Dec-17 21:00:00	19-Dec-17 22:00:00		14.72	0.00	0.00	6.27	2.1	329.7		4.85	0.00	0.00	2.07		10.35	18.92	83.84	86.68	19-Dec-17 21:00:00		**15.20**	**18.92**	**83.84**	**88.75**
19-Dec-17 22:00:00	19-Dec-17 23:00:00		365.45	0.00	0.00	6.40	2.1	329.7		120.49	0.00	0.00	2.11		10.35	18.92	83.84	86.68	19-Dec-17 22:00:00		**130.84**	**18.92**	**83.84**	**88.79**
19-Dec-17 23:00:00	20-Dec-17 00:00:00		458.02	0.00	0.00	6.61	2.1	329.7		151.01	0.00	0.00	2.18		10.35	18.92	83.84	86.68	19-Dec-17 23:00:00		**161.36**	**18.92**	**83.84**	**88.86**
20-Dec-17 00:00:00	20-Dec-17 01:00:00		523.39	0.00	0.00	65.24	2.1	329.7		172.56	0.00	0.00	21.51		10.35	18.92	83.84	86.68	20-Dec-17 00:00:00		**182.91**	**18.92**	**83.84**	**108.19**
20-Dec-17 01:00:00	20-Dec-17 02:00:00		1,235.95	0.00	0.00	6.91	2.1	329.7		407.49	0.00	0.00	2.28		10.35	18.92	83.84	86.68	20-Dec-17 01:00:00		**417.84**	**18.92**	**83.84**	**88.96**
20-Dec-17 02:00:00	20-Dec-17 03:00:00		1,308.23	0.00	0.00	6.87	2.1	329.7		431.32	0.00	0.00	2.27		10.35	18.92	83.84	86.68	20-Dec-17 02:00:00		**441.67**	**18.92**	**83.84**	**88.95**
20-Dec-17 03:00:00	20-Dec-17 04:00:00		1,003.95	0.00	0.00	6.84	2.1	329.7		331.00	0.00	0.00	2.25		10.35	18.92	83.84	86.68	20-Dec-17 03:00:00		**341.35**	**18.92**	**83.84**	**88.93**
20-Dec-17 04:00:00	20-Dec-17 05:00:00		94.21	0.00	0.00	6.79	2.1	329.7		31.06	0.00	0.00	2.24		10.35	18.92	83.84	86.68	20-Dec-17 04:00:00		**41.41**	**18.92**	**83.84**	**88.92**
20-Dec-17 05:00:00	20-Dec-17 06:00:00		0.40	0.00	0.00	6.67	2.1	329.7		0.13	0.00	0.00	2.20		10.35	18.92	83.84	86.68	20-Dec-17 05:00:00		**10.48**	**18.92**	**83.84**	**88.88**
20-Dec-17 06:00:00	20-Dec-17 07:00:00		0.39	0.00	0.00	35.73	2.1	329.7		0.13	0.00	0.00	11.78		10.35	18.92	83.84	86.68	20-Dec-17 06:00:00		**10.48**	**18.92**	**83.84**	**98.46**
20-Dec-17 07:00:00	20-Dec-17 08:00:00		0.38	0.00	0.00	6.56	2.1	329.7		0.13	0.00	0.00	2.16		10.35	18.92	83.84	86.68	20-Dec-17 07:00:00		**10.48**	**18.92**	**83.84**	**88.84**
20-Dec-17 08:00:00	20-Dec-17 09:00:00		1.36	0.00	0.17	6.67	2.1	329.7		0.45	0.00	0.05	2.20		10.35	18.92	83.84	86.68	20-Dec-17 08:00:00		**10.80**	**18.92**	**83.89**	**88.88**
20-Dec-17 09:00:00	20-Dec-17 10:00:00		1.79	0.00	0.00	6.78	2.1	329.7		0.59	0.00	0.00	2.23		10.35	18.92	83.84	86.68	20-Dec-17 09:00:00		**10.94**	**18.92**	**83.84**	**88.91**
20-Dec-17 10:00:00	20-Dec-17 11:00:00		1.19	0.00	0.00	6.88	2.1	329.7		0.39	0.00	0.00	2.27		10.35	18.92	83.84	86.68	20-Dec-17 10:00:00		**10.74**	**18.92**	**83.84**	**88.95**
20-Dec-17 11:00:00	20-Dec-17 12:00:00		0.58	0.00	0.00	6.93	2.1	329.7		0.19	0.00	0.00	2.29		10.35	18.92	83.84	86.68	20-Dec-17 11:00:00		**10.54**	**18.92**	**83.84**	**88.97**
20-Dec-17 12:00:00	20-Dec-17 13:00:00		0.43	0.00	0.00	57.74	2.1	329.7		0.14	0.00	0.00	19.04		10.35	18.92	83.84	86.68	20-Dec-17 12:00:00		**10.49**	**18.92**	**83.84**	**105.72**
20-Dec-17 13:00:00	20-Dec-17 14:00:00		0.00	0.00	0.00	6.96	2.1	329.7		0.00	0.00	0.00	2.29		10.35	18.92	83.84	86.68	20-Dec-17 13:00:00		**10.35**	**18.92**	**83.84**	**88.97**
20-Dec-17 14:00:00	20-Dec-17 15:00:00		0.00	0.00	0.00	7.00	2.1	329.7		0.00	0.00	0.00	2.31		10.35	18.92	83.84	86.68	20-Dec-17 14:00:00		**10.35**	**18.92**	**83.84**	**88.99**
20-Dec-17 15:00:00	20-Dec-17 16:00:00		0.52	0.00	0.00	7.05	2.1	329.7		0.17	0.00	0.00	2.33		10.35	18.92	83.84	86.68	20-Dec-17 15:00:00		**10.52**	**18.92**	**83.84**	**89.01**
20-Dec-17 16:00:00	20-Dec-17 17:00:00		23.17	0.00	0.00	7.11	2.1	329.7		7.64	0.00	0.00	2.35		10.35	18.92	83.84	86.68	20-Dec-17 16:00:00		**17.99**	**18.92**	**83.84**	**89.03**
20-Dec-17 17:00:00	20-Dec-17 18:00:00		28.20	0.00	0.00	8.65	2.1	329.7		9.30	0.00	0.00	2.85		10.35	18.92	83.84	86.68	20-Dec-17 17:00:00		**19.65**	**18.92**	**83.84**	**89.53**
20-Dec-17 18:00:00	20-Dec-17 19:00:00		27.78	0.00	0.00	34.00	2.1	329.7		9.16	0.00	0.00	11.21		10.35	18.92	83.84	86.68	20-Dec-17 18:00:00		**19.51**	**18.92**	**83.84**	**97.89**
20-Dec-17 19:00:00	20-Dec-17 20:00:00		26.00	0.00	0.00	6.93	2.1	329.7		8.57	0.00	0.00	2.28		10.35	18.92	83.84	86.68	20-Dec-17 19:00:00		**18.92**	**18.92**	**83.84**	**88.96**
20-Dec-17 20:00:00	20-Dec-17 21:00:00		25.07	0.00	0.00	6.94	2.1	329.7		8.27	0.00	0.00	2.29		10.35	18.92	83.84	86.68	20-Dec-17 20:00:00		**18.62**	**18.92**	**83.84**	**88.97**
20-Dec-17 21:00:00	20-Dec-17 22:00:00		24.38	0.00	0.00	6.96	2.1	329.7		8.04	0.00	0.00	2.30		10.35	18.92	83.84	86.68	20-Dec-17 21:00:00		**18.39**	**18.92**	**83.84**	**88.98**
20-Dec-17 22:00:00	20-Dec-17 23:00:00		25.69	0.00	0.00	6.98	2.1	329.7		8.47	0.00	0.00	2.30		10.35	18.92	83.84	86.68	20-Dec-17 22:00:00		**18.82**	**18.92**	**83.84**	**88.98**
20-Dec-17 23:00:00	21-Dec-17 00:00:00		24.52	0.00	0.00	7.01	2.1	329.7		8.08	0.00	0.00	2.31		10.35	18.92	83.84	86.68	20-Dec-17 23:00:00		**18.43**	**18.92**	**83.84**	**88.99**
21-Dec-17 00:00:00	21-Dec-17 01:00:00		24.43	0.00	0.00	116.87	2.1	329.7		8.05	0.00	0.00	38.53		10.35	18.92	83.84	86.68	21-Dec-17 00:00:00		**18.40**	**18.92**	**83.84**	**125.21**
21-Dec-17 01:00:00	21-Dec-17 02:00:00		23.89	0.00	0.00	6.73	2.1	329.7		7.88	0.00	0.00	2.22		10.35	18.92	83.84	86.68	21-Dec-17 01:00:00		**18.23**	**18.92**	**83.84**	**88.90**
21-Dec-17 02:00:00	21-Dec-17 03:00:00		24.78	0.00	0.00	53.70	2.1	329.7		8.17	0.00	0.00	17.70		10.35	18.92	83.84	86.68	21-Dec-17 02:00:00		**18.52**	**18.92**	**83.84**	**104.38**
21-Dec-17 03:00:00	21-Dec-17 04:00:00		24.04	0.00	0.00	7.41	2.1	329.7		7.93	0.00	0.00	2.44		10.35	18.92	83.84	86.68	21-Dec-17 03:00:00		**18.28**	**18.92**	**83.84**	**89.12**
21-Dec-17 04:00:00	21-Dec-17 05:00:00		23.25	0.00	0.00	8.40	2.1	329.7		7.67	0.00	0.00	2.77		10.35	18.92	83.84	86.68	21-Dec-17 04:00:00		**18.02**	**18.92**	**83.84**	**89.45**
21-Dec-17 05:00:00	21-Dec-17 06:00:00		21.34	0.00	0.00	9.38	2.1	329.7		7.04	0.00	0.00	3.09		10.35	18.92	83.84	86.68	21-Dec-17 05:00:00		**17.39**	**18.92**	**83.84**	**89.77**
21-Dec-17 06:00:00	21-Dec-17 07:00:00		11.68	0.00	0.00	63.83	2.1	329.7		3.85	0.00	0.00	21.05		10.35	18.92	83.84	86.68	21-Dec-17 06:00:00		**14.20**	**18.92**	**83.84**	**107.73**
21-Dec-17 07:00:00	21-Dec-17 08:00:00		7.13	0.00	0.00	9.89	2.1	329.7		2.35	0.00	0.00	3.26		10.35	18.92	83.84	86.68	21-Dec-17 07:00:00		**12.70**	**18.92**	**83.84**	**89.94**
21-Dec-17 08:00:00	21-Dec-17 09:00:00		1.72	0.00	0.00	7.54	2.1	329.7		0.57	0.00	0.00	2.49		10.35	18.92	83.84	86.68	21-Dec-17 08:00:00		**10.92**	**18.92**	**83.84**	**89.17**
21-Dec-17 09:00:00	21-Dec-17 10:00:00		4.42	0.00	0.00	7.72	2.1	329.7		1.46	0.00	0.00	2.54		10.35	18.92	83.84	86.68	21-Dec-17 09:00:00		**11.81**	**18.92**	**83.84**	**89.22**
21-Dec-17 10:00:00	21-Dec-17 11:00:00		5.71	0.00	0.00	7.90	2.1	329.7		1.88	0.00	0.00	2.60		10.35	18.92	83.84	86.68	21-Dec-17 10:00:00		**12.23**	**18.92**	**83.84**	**89.28**
21-Dec-17 11:00:00	21-Dec-17 12:00:00		5.37	0.00	0.00	7.87	2.1	329.7		1.77	0.00	0.00	2.59		10.35	18.92	83.84	86.68	21-Dec-17 11:00:00		**12.12**	**18.92**	**83.84**	**89.27**
21-Dec-17 12:00:00	21-Dec-17 13:00:00		0.94	0.00	0.00	26.34	2.1	329.7		0.31	0.00	0.00	8.69		10.35	18.92	83.84	86.68	21-Dec-17 12:00:00		**10.66**	**18.92**	**83.84**	**95.37**
21-Dec-17 13:00:00	21-Dec-17 14:00:00		0.75	0.00	0.00	7.45	2.1	329.7		0.25	0.00	0.00	2.46		10.35	18.92	83.84	86.68	21-Dec-17 13:00:00		**10.60**	**18.92**	**83.84**	**89.14**
21-Dec-17 14:00:00	21-Dec-17 15:00:00		0.56	0.00	0.00	7.33	2.1	329.7		0.18	0.00	0.00	2.42		10.35	18.92	83.84	86.68	21-Dec-17 14:00:00		**10.53**	**18.92**	**83.84**	**89.10**
21-Dec-17 15:00:00	21-Dec-17 16:00:00		0.33	0.00	0.00	7.21	2.1	329.7		0.11	0.00	0.00	2.38		10.35	18.92	83.84	86.68	21-Dec-17 15:00:00		**10.46**	**18.92**	**83.84**	**89.06**
21-Dec-17 16:00:00	21-Dec-17 17:00:00		0.01	0.00	0.00	7.09	2.1	329.7		0.00	0.00	0.00	2.34		10.35	18.92	83.84	86.68	21-Dec-17 16:00:00		**10.35**	**18.92**	**83.84**	**89.02**
21-Dec-17 17:00:00	21-Dec-17 18:00:00		0.30	0.00	0.00	7.35	2.1	329.7		0.10	0.00	0.00	2.42		10.35	18.92	83.84	86.68	21-Dec-17 17:00:00		**10.45**	**18.92**	**83.84**	**89.10**
21-Dec-17 18:00:00	21-Dec-17 19:00:00		2.00	0.00	0.00	7.95	2.1	329.7		0.66	0.00	0.00	2.62		10.35	18.92	83.84	86.68	21-Dec-17 18:00:00		**11.01**	**18.92**	**83.84**	**89.30**
21-Dec-17 19:00:00	21-Dec-17 20:00:00		0.67	0.00	0.00	20.34	2.1	329.7		0.22	0.00	0.00	6.71		10.35	18.92	83.84	86.68	21-Dec-17 19:00:00		**10.57**	**18.92**	**83.84**	**93.39**
21-Dec-17 20:00:00	21-Dec-17 21:00:00		0.77	0.00	0.00	7.22	2.1	329.7		0.25	0.00	0.00	2.38		10.35	18.92	83.84	86.68	21-Dec-17 20:00:00		**10.60**	**18.92**	**83.84**	**89.06**
21-Dec-17 21:00:00	21-Dec-17 22:00:00		5.97	0.00	0.00	7.31	2.1	329.7		1.97	0.00	0.00	2.41		10.35	18.92	83.84	86.68	21-Dec-17 21:00:00		**12.32**	**18.92**	**83.84**	**89.09**
21-Dec-17 22:00:00	21-Dec-17 23:00:00		9.91	0.00	0.00	7.41	2.1	329.7		3.27	0.00	0.00	2.44		10.35	18.92	83.84	86.68	21-Dec-17 22:00:00		**13.62**	**18.92**	**83.84**	**89.12**
21-Dec-17 23:00:00	22-Dec-17 00:00:00		14.06	0.00	0.00	7.45	2.1	329.7		4.64	0.00	0.00	2.46		10.35	18.92	83.84	86.68	21-Dec-17 23:00:00		**14.99**	**18.92**	**83.84**	**89.14**
22-Dec-17 00:00:00	22-Dec-17 01:00:00		27.29	0.00	0.00	56.31	2.1	329.7		9.00	0.00	0.00	18.57		10.35	18.92	83.84	86.68	22-Dec-17 00:00:00		**19.35**	**18.92**	**83.84**	**105.25**
22-Dec-17 01:00:00	22-Dec-17 02:00:00		9.83	0.00	0.00	7.49	2.1	329.7		3.24	0.00	0.00	2.47		10.35	18.92	83.84	86.68	22-Dec-17 01:00:00		**13.59**	**18.92**	**83.84**	**89.15**
22-Dec-17 02:00:00	22-Dec-17 03:00:00		6.80	0.00	0.00	7.49	2.1	329.7		2.24	0.00	0.00	2.47		10.35	18.92	83.84	86.68	22-Dec-17 02:00:00		**12.59**	**18.92**	**83.84**	**89.15**
22-Dec-17 03:00:00	22-Dec-17 04:00:00		6.43	0.00	0.00	7.48	2.1	329.7		2.12	0.00	0.00	2.47		10.35	18.92	83.84	86.68	22-Dec-17 03:00:00		**12.47**	**18.92**	**83.84**	**89.15**
22-Dec-17 04:00:00	22-Dec-17 05:00:00		5.73	0.00	0.00	7.47	2.1	329.7		1.89	0.00	0.00	2.46		10.35	18.92	83.84	86.68	22-Dec-17 04:00:00		**12.24**	**18.92**	**83.84**	**89.14**
22-Dec-17 05:00:00	22-Dec-17 06:00:00		5.25	0.00	0.00	7.44	2.1	329.7		1.73	0.00	0.00	2.45		10.35	18.92	83.84	86.68	22-Dec-17 05:00:00		**12.08**	**18.92**	**83.84**	**89.13**
22-Dec-17 06:00:00	22-Dec-17 07:00:00		3.80	0.00	0.00	85.75	2.1	329.7		1.25	0.00	0.00	28.27		10.35	18.92	83.84	86.68	22-Dec-17 06:00:00		**11.60**	**18.92**	**83.84**	**114.95**
22-Dec-17 07:00:00	22-Dec-17 08:00:00		4.36	0.00	0.00	7.45	2.1	329.7		1.44	0.00	0.00	2.46		10.35	18.92	83.84	86.68	22-Dec-17 07:00:00		**11.79**	**18.92**	**83.84**	**89.14**
22-Dec-17 08:00:00	22-Dec-17 09:00:00		3.60	0.00	0.00	7.43	2.1	329.7		1.19	0.00	0.00	2.45		10.35	18.92	83.84	86.68	22-Dec-17 08:00:00		**11.54**	**18.92**	**83.84**	**89.13**
22-Dec-17 09:00:00	22-Dec-17 10:00:00		3.84	0.00	0.00	7.41	2.1	329.7		1.26	0.00	0.00	2.44		10.35	18.92	83.84	86.68	22-Dec-17 09:00:00		**11.61**	**18.92**	**83.84**	**89.12**
22-Dec-17 10:00:00	22-Dec-17 11:00:00

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
24-Dec-17 12:00:00	24-Dec-17 13:00:00		5.51	0.00	0.00	6.96	2.1	329.7		1.82	0.00	0.00	2.29		10.35	18.92	83.84	86.68	24-Dec-17 12:00:00		12.17	18.92	83.84	88.97
24-Dec-17 13:00:00	24-Dec-17 14:00:00		13.14	0.00	0.00	6.87	2.1	329.7		4.33	0.00	0.00	2.27		10.35	18.92	83.84	86.68	24-Dec-17 13:00:00		14.68	18.92	83.84	88.95
24-Dec-17 14:00:00	24-Dec-17 15:00:00		7.10	0.00	0.00	6.83	2.1	329.7		2.34	0.00	0.00	2.25		10.35	18.92	83.84	86.68	24-Dec-17 14:00:00		12.69	18.92	83.84	88.93
24-Dec-17 15:00:00	24-Dec-17 16:00:00		3.88	0.00	0.00	10.07	2.1	329.7		1.28	0.00	0.00	3.32		10.35	18.92	83.84	86.68	24-Dec-17 15:00:00		11.63	18.92	83.84	90.00
24-Dec-17 16:00:00	24-Dec-17 17:00:00		0.58	0.00	0.00	6.99	2.1	329.7		0.19	0.00	0.00	2.31		10.35	18.92	83.84	86.68	24-Dec-17 16:00:00		10.54	18.92	83.84	88.99
24-Dec-17 17:00:00	24-Dec-17 18:00:00		3.79	0.00	0.00	7.15	2.1	329.7		1.25	0.00	0.00	2.36		10.35	18.92	83.84	86.68	24-Dec-17 17:00:00		11.60	18.92	83.84	89.04
24-Dec-17 18:00:00	24-Dec-17 19:00:00		0.98	0.00	0.00	7.32	2.1	329.7		0.32	0.00	0.00	2.41		10.35	18.92	83.84	86.68	24-Dec-17 18:00:00		10.67	18.92	83.84	89.09
24-Dec-17 19:00:00	24-Dec-17 20:00:00		3.90	0.00	0.00	7.48	2.1	329.7		1.29	0.00	0.00	2.47		10.35	18.92	83.84	86.68	24-Dec-17 19:00:00		11.64	18.92	83.84	89.15
24-Dec-17 20:00:00	24-Dec-17 21:00:00		2.54	0.00	0.00	7.67	2.1	329.7		0.84	0.00	0.00	2.53		10.35	18.92	83.84	86.68	24-Dec-17 20:00:00		11.19	18.92	83.84	89.21
24-Dec-17 21:00:00	24-Dec-17 22:00:00		9.16	0.00	0.00	8.88	2.1	329.7		3.02	0.00	0.00	2.93		10.35	18.92	83.84	86.68	24-Dec-17 21:00:00		13.37	18.92	83.84	89.61
24-Dec-17 22:00:00	24-Dec-17 23:00:00		12.16	0.00	0.00	8.11	2.1	329.7		4.01	0.00	0.00	2.68		10.35	18.92	83.84	86.68	24-Dec-17 22:00:00		14.36	18.92	83.84	89.36
24-Dec-17 23:00:00	25-Dec-17 00:00:00		9.07	0.00	0.00	8.18	2.1	329.7		2.99	0.00	0.00	2.70		10.35	18.92	83.84	86.68	24-Dec-17 23:00:00		13.34	18.92	83.84	89.38
25-Dec-17 00:00:00	25-Dec-17 01:00:00		38.52	0.00	0.00	8.25	2.1	329.7		12.70	0.00	0.00	2.72		10.35	18.92	83.84	86.68	25-Dec-17 00:00:00		23.05	18.92	83.84	89.40
25-Dec-17 01:00:00	25-Dec-17 02:00:00		22.76	0.00	0.00	8.36	2.1	329.7		7.50	0.00	0.00	2.75		10.35	18.92	83.84	86.68	25-Dec-17 01:00:00		17.85	18.92	83.84	89.43
25-Dec-17 02:00:00	25-Dec-17 03:00:00		16.51	0.00	0.00	8.74	2.1	329.7		5.44	0.00	0.00	2.88		10.35	18.92	83.84	86.68	25-Dec-17 02:00:00		15.79	18.92	83.84	89.56
25-Dec-17 03:00:00	25-Dec-17 04:00:00		44.80	0.00	0.00	11.56	2.1	329.7		14.77	0.00	0.00	3.81		10.35	18.92	83.84	86.68	25-Dec-17 03:00:00		25.12	18.92	83.84	90.49
25-Dec-17 04:00:00	25-Dec-17 05:00:00		18.69	0.00	0.00	10.18	2.1	329.7		6.16	0.00	0.00	3.36		10.35	18.92	83.84	86.68	25-Dec-17 04:00:00		16.51	18.92	83.84	90.04
25-Dec-17 05:00:00	25-Dec-17 06:00:00		14.46	0.00	0.00	9.64	2.1	329.7		4.77	0.00	0.00	3.18		10.35	18.92	83.84	86.68	25-Dec-17 05:00:00		15.12	18.92	83.84	89.86
25-Dec-17 06:00:00	25-Dec-17 07:00:00		10.71	0.00	0.00	9.10	2.1	329.7		3.53	0.00	0.00	3.00		10.35	18.92	83.84	86.68	25-Dec-17 06:00:00		13.88	18.92	83.84	89.68
25-Dec-17 07:00:00	25-Dec-17 08:00:00		29.69	0.00	0.00	8.56	2.1	329.7		9.79	0.00	0.00	2.82		10.35	18.92	83.84	86.68	25-Dec-17 07:00:00		20.14	18.92	83.84	89.50
25-Dec-17 08:00:00	25-Dec-17 09:00:00		43.91	0.00	0.00	8.11	2.1	329.7		14.48	0.00	0.00	2.67		10.35	18.92	83.84	86.68	25-Dec-17 08:00:00		24.83	18.92	83.84	89.35
25-Dec-17 09:00:00	25-Dec-17 10:00:00		42.89	0.00	0.00	8.79	2.1	329.7		14.14	0.00	0.00	2.90		10.35	18.92	83.84	86.68	25-Dec-17 09:00:00		24.49	18.92	83.84	89.58
25-Dec-17 10:00:00	25-Dec-17 11:00:00		37.61	0.00	0.00	7.94	2.1	329.7		12.40	0.00	0.00	2.62		10.35	18.92	83.84	86.68	25-Dec-17 10:00:00		22.75	18.92	83.84	89.30
25-Dec-17 11:00:00	25-Dec-17 12:00:00		34.31	0.00	0.00	8.11	2.1	329.7		11.31	0.00	0.00	2.67		10.35	18.92	83.84	86.68	25-Dec-17 11:00:00		21.66	18.92	83.84	89.35
25-Dec-17 12:00:00	25-Dec-17 13:00:00		16.54	0.00	0.00	8.27	2.1	329.7		5.45	0.00	0.00	2.73		10.35	18.92	83.84	86.68	25-Dec-17 12:00:00		15.80	18.92	83.84	89.41
25-Dec-17 13:00:00	25-Dec-17 14:00:00		38.17	0.00	0.00	8.38	2.1	329.7		12.59	0.00	0.00	2.76		10.35	18.92	83.84	86.68	25-Dec-17 13:00:00		22.94	18.92	83.84	89.44
25-Dec-17 14:00:00	25-Dec-17 15:00:00		43.83	0.00	0.00	8.10	2.1	329.7		14.45	0.00	0.00	2.67		10.35	18.92	83.84	86.68	25-Dec-17 14:00:00		24.80	18.92	83.84	89.35
25-Dec-17 15:00:00	25-Dec-17 16:00:00		44.49	0.00	0.00	11.99	2.1	329.7		14.67	0.00	0.00	3.95		10.35	18.92	83.84	86.68	25-Dec-17 15:00:00		25.02	18.92	83.84	90.63
25-Dec-17 16:00:00	25-Dec-17 17:00:00		44.12	0.00	0.00	7.98	2.1	329.7		14.55	0.00	0.00	2.63		10.35	18.92	83.84	86.68	25-Dec-17 16:00:00		24.90	18.92	83.84	89.31
25-Dec-17 17:00:00	25-Dec-17 18:00:00		44.10	0.00	0.00	8.00	2.1	329.7		14.54	0.00	0.00	2.64		10.35	18.92	83.84	86.68	25-Dec-17 17:00:00		24.89	18.92	83.84	89.32
25-Dec-17 18:00:00	25-Dec-17 19:00:00		43.37	0.00	0.00	8.02	2.1	329.7		14.30	0.00	0.00	2.64		10.35	18.92	83.84	86.68	25-Dec-17 18:00:00		24.65	18.92	83.84	89.32
25-Dec-17 19:00:00	25-Dec-17 20:00:00		46.12	0.00	0.00	8.10	2.1	329.7		15.20	0.00	0.00	2.67		10.35	18.92	83.84	86.68	25-Dec-17 19:00:00		25.55	18.92	83.84	89.35
25-Dec-17 20:00:00	25-Dec-17 21:00:00		31.72	0.00	0.00	8.38	2.1	329.7		10.46	0.00	0.00	2.76		10.35	18.92	83.84	86.68	25-Dec-17 20:00:00		20.81	18.92	83.84	89.44
25-Dec-17 21:00:00	25-Dec-17 22:00:00		41.07	0.00	0.00	9.44	2.1	329.7		13.54	0.00	0.00	3.11		10.35	18.92	83.84	86.68	25-Dec-17 21:00:00		23.89	18.92	83.84	89.79
25-Dec-17 22:00:00	25-Dec-17 23:00:00		43.01	0.00	0.00	7.87	2.1	329.7		14.18	0.00	0.00	2.59		10.35	18.92	83.84	86.68	25-Dec-17 22:00:00		24.53	18.92	83.84	89.27
25-Dec-17 23:00:00	26-Dec-17 00:00:00		50.61	0.00	0.00	7.93	2.1	329.7		16.69	0.00	0.00	2.62		10.35	18.92	83.84	86.68	25-Dec-17 23:00:00		27.04	18.92	83.84	89.30
26-Dec-17 00:00:00	26-Dec-17 01:00:00		40.80	0.00	0.00	7.99	2.1	329.7		13.45	0.00	0.00	2.64		10.35	18.92	83.84	86.68	26-Dec-17 00:00:00		23.80	18.92	83.84	89.32
26-Dec-17 01:00:00	26-Dec-17 02:00:00		31.76	0.00	0.00	8.92	2.1	329.7		10.47	0.00	0.00	2.94		10.35	18.92	83.84	86.68	26-Dec-17 01:00:00		20.82	18.92	83.84	89.62
26-Dec-17 02:00:00	26-Dec-17 03:00:00		28.22	0.00	0.00	12.00	2.1	329.7		9.30	0.00	0.00	3.96		10.35	18.92	83.84	86.68	26-Dec-17 02:00:00		19.65	18.92	83.84	90.64
26-Dec-17 03:00:00	26-Dec-17 04:00:00		18.97	0.00	0.00	11.43	2.1	329.7		6.26	0.00	0.00	3.77		10.35	18.92	83.84	86.68	26-Dec-17 03:00:00		16.61	18.92	83.84	90.45
26-Dec-17 04:00:00	26-Dec-17 05:00:00		35.71	0.00	0.00	8.43	2.1	329.7		11.77	0.00	0.00	2.78		10.35	18.92	83.84	86.68	26-Dec-17 04:00:00		22.12	18.92	83.84	89.46
26-Dec-17 05:00:00	26-Dec-17 06:00:00		10.58	0.00	0.00	8.52	2.1	329.7		3.49	0.00	0.00	2.81		10.35	18.92	83.84	86.68	26-Dec-17 05:00:00		13.84	18.92	83.84	89.49
26-Dec-17 06:00:00	26-Dec-17 07:00:00		27.82	0.00	0.00	8.61	2.1	329.7		9.17	0.00	0.00	2.84		10.35	18.92	83.84	86.68	26-Dec-17 06:00:00		19.52	18.92	83.84	89.52
26-Dec-17 07:00:00	26-Dec-17 08:00:00		52.73	0.00	0.00	8.75	2.1	329.7		17.39	0.00	0.00	2.89		10.35	18.92	83.84	86.68	26-Dec-17 07:00:00		27.74	18.92	83.84	89.57
26-Dec-17 08:00:00	26-Dec-17 09:00:00		55.55	0.00	0.00	10.20	2.1	329.7		18.31	0.00	0.00	3.36		10.35	18.92	83.84	86.68	26-Dec-17 08:00:00		28.66	18.92	83.84	90.04
26-Dec-17 09:00:00	26-Dec-17 10:00:00		84.46	0.00	0.00	9.01	2.1	329.7		27.85	0.00	0.00	2.97		10.35	18.92	83.84	86.68	26-Dec-17 09:00:00		38.20	18.92	83.84	89.65
26-Dec-17 10:00:00	26-Dec-17 11:00:00		78.70	0.00	0.00	9.00	2.1	329.7		25.95	0.00	0.00	2.97		10.35	18.92	83.84	86.68	26-Dec-17 10:00:00		36.30	18.92	83.84	89.65
26-Dec-17 11:00:00	26-Dec-17 12:00:00		64.43	0.00	0.00	8.98	2.1	329.7		21.24	0.00	0.00	2.96		10.35	18.92	83.84	86.68	26-Dec-17 11:00:00		31.59	18.92	83.84	89.64
26-Dec-17 12:00:00	26-Dec-17 13:00:00		39.25	0.00	0.00	8.97	2.1	329.7		12.94	0.00	0.00	2.96		10.35	18.92	83.84	86.68	26-Dec-17 12:00:00		23.29	18.92	83.84	89.64
26-Dec-17 13:00:00	26-Dec-17 14:00:00		3.52	0.00	0.00	8.70	2.1	329.7		1.16	0.00	0.00	2.87		10.35	18.92	83.84	86.68	26-Dec-17 13:00:00		11.51	18.92	83.84	89.55
26-Dec-17 14:00:00	26-Dec-17 15:00:00		16.55	0.00	0.00	15.25	2.1	329.7		5.46	0.00	0.00	5.03		10.35	18.92	83.84	86.68	26-Dec-17 14:00:00		15.81	18.92	83.84	91.71
26-Dec-17 15:00:00	26-Dec-17 16:00:00		3.53	0.00	0.00	8.09	2.1	329.7		1.16	0.00	0.00	2.67		10.35	18.92	83.84	86.68	26-Dec-17 15:00:00		11.51	18.92	83.84	89.35
26-Dec-17 16:00:00	26-Dec-17 17:00:00		2.61	0.00	0.00	8.10	2.1	329.7		0.86	0.00	0.00	2.67		10.35	18.92	83.84	86.68	26-Dec-17 16:00:00		11.21	18.92	83.84	89.35
26-Dec-17 17:00:00	26-Dec-17 18:00:00		1.17	0.00	0.00	8.11	2.1	329.7		0.38	0.00	0.00	2.68		10.35	18.92	83.84	86.68	26-Dec-17 17:00:00		10.73	18.92	83.84	89.36
26-Dec-17 18:00:00	26-Dec-17 19:00:00		0.41	0.00	0.00	8.13	2.1	329.7		0.13	0.00	0.00	2.68		10.35	18.92	83.84	86.68	26-Dec-17 18:00:00		10.48	18.92	83.84	89.36
26-Dec-17 19:00:00	26-Dec-17 20:00:00		0.17	0.00	0.00	8.37	2.1	329.7		0.06	0.00	0.00	2.76		10.35	18.92	83.84	86.68	26-Dec-17 19:00:00		10.41	18.92	83.84	89.44
26-Dec-17 20:00:00	26-Dec-17 21:00:00		0.00	0.00	0.00	8.75	2.1	329.7		0.00	0.00	0.00	2.89		10.35	18.92	83.84	86.68	26-Dec-17 20:00:00		10.35	18.92	83.84	89.57
26-Dec-17 21:00:00	26-Dec-17 22:00:00		0.00	0.00	0.00	12.23	2.1	329.7		0.00	0.00	0.00	4.03		10.35	18.92	83.84	86.68	26-Dec-17 21:00:00		10.35	18.92	83.84	90.71
26-Dec-17 22:00:00	26-Dec-17 23:00:00		0.00	0.00	0.00	29.97	2.1	329.7		0.00	0.00	0.00	9.88		10.35	18.92	83.84	86.68	26-Dec-17 22:00:00		10.35	18.92	83.84	96.56
26-Dec-17 23:00:00	27-Dec-17 00:00:00		0.00	0.00	0.00	11.68	2.1	329.7		0.00	0.00	0.00	3.85		10.35	18.92	83.84	86.68	26-Dec-17 23:00:00		10.35	18.92	83.84	90.53
27-Dec-17 00:00:00	27-Dec-17 01:00:00		0.00	0.00	0.00	15.70	2.1	329.7		0.00	0.00	0.00	5.17		10.35	18.92	83.84	86.68	27-Dec-17 00:00:00		10.35	18.92	83.84	91.85
27-Dec-17 01:00:00	27-Dec-17 02:00:00		0.07	0.00	0.00	7.99	2.1	329.7		0.02	0.00	0.00	2.63		10.35	18.92	83.84	86.68	27-Dec-17 01:00:00		10.37	18.92	83.84	89.31
27-Dec-17 02:00:00	27-Dec-17 03:00:00		0.00	0.00	0.00	23.93	2.1	329.7		0.00	0.00	0.00	7.89		10.35	18.92	83.84	86.68	27-Dec-17 02:00:00		10.35	18.92	83.84	94.57
27-Dec-17 03:00:00	27-Dec-17 04:00:00		0.00	0.00	0.00	7.81	2.1	329.7		0.00	0.00	0.00	2.58		10.35	18.92	83.84	86.68	27-Dec-17 03:00:00		10.35	18.92	83.84	89.26
27-Dec-17 04:00:00	27-Dec-17 05:00:00		0.00	0.00	0.00	7.71	2.1	329.7		0.00	0.00	0.00	2.54		10.35	18.92	83.84	86.68	27-Dec-17 04:00:00		10.35	18.92	83.84	89.22
27-Dec-17 05:00:00	27-Dec-17 06:00:00		0.40	0.00	0.00	7.62	2.1	329.7		0.13	0.00	0.00	2.51		10.35	18.92	83.84	86.68	27-Dec-17 05:00:00		10.48	18.92	83.84	89.19
27-Dec-17 06:00:00	27-Dec-17 07:00:00		0.00	0.00	0.00	7.74	2.1	329.7		0.00	0.00	0.00	2.55		10.35	18.92	83.84	86.68	27-Dec-17 06:00:00		10.35	18.92	83.84	89.23
27-Dec-17 07:00:00	27-Dec-17 08:00:00		0.00	0.00	0.00	7.68	2.1	329.7		0.00	0.00	0.00	2.53		10.35	18.92	83.84	86.68	27-Dec-17 07:00:00		10.35	18.92	83.84	89.21
27-Dec-17 08:00:00	27-Dec-17 09:00:00		0.00	0.00	0.00	18.56	2.1	329.7		0.00	0.00	0.00	6.12		10.35	18.92	83.84	86.68	27-Dec-17 08:00:00		10.35	18.92	83.84	92.80
27-Dec-17 09:00:00	27-Dec-17 10:00:00		0.00	0.00	0.00	7.55	2.1	329.7		0.00	0.00	0.00	2.49		10.35	18.92	83.84	86.68	27-Dec-17 09:00:00		10.35	18.92	83.84	89.17
27-Dec-17 10:00:00	27-Dec-17 11:00:00		0.00	0.00	0.00	7.49	2.1	329.7		0.00	0.00	0.00	2.47		10.35	18.92	83.84	86.68	27-Dec-17 10:00:00		10.35	18.92	83.84	89.15
27-Dec-17 11:00:00	27-Dec-17 12:00:00		0.00	0.00	0.00	7.43	2.1	329.7		0.00	0.00	0.00	2.45		10.35	18.92	83.84	86.68	27-Dec-17 11:00:00		10.35	18.92	83.84	89.13
27-Dec-17 12:00:00	27-Dec-17 13:00:00		0.00	0.00	0.00	7.39	2.1	329.7		0.00	0.00	0.00	2.44		10.35	18.92	83.84	86.68	27-Dec-17 12:00:00		10.35	18.92	83.84	89.12
27-Dec-17 13:00:00	27-Dec-17 14:00:00		12.10	0.00	0.00	7.43	2.1	329.7		3.99	0.00	0.00	2.45		10.35	18.92	83.84	86.68	27-Dec-17 13:00:00		14.34	18.92	83.84	89.13
27-Dec-17 14:00:00	27-Dec-17 15:00:00		17.67	0.00	0.00	8.52	2.1	329.7		5.83	0.00	0.00	2.81		10.35	18.92	83.84	86.68	27-Dec-17 14:00:00		16.18	18.92	83.84	89.49
27-Dec-17 15:00:00	27-Dec-17 16:00:00		17.74	0.00	0.00	7.27	2.1	329.7		5.85	0.00	0.00	2.40		10.35	18.92	83.84	86.68	27-Dec-17 15:00:00		16.20	18.92	83.84	89.08
27-Dec-17 16:00:00	27-Dec-17 17:00:00		10.44	0.00	0.00	7.20	2.1	329.7		3.44	0.00	0.00	2.37		10.35	18.92	83.84	86.68	27-Dec-17 16:00:00		13.79	18.92	83.84	89.05
27-Dec-17 17:00:00	27-Dec-17 18:00:00		9.51	0.00	0.00	7.12	2.1	329.7		3.13	0.00	0.00	2.35		10.35	18.92	83.84	86.68	27-Dec-17 17:00:00		13.48	18.92	83.84	89.03
27-Dec-17 18:00:00	27-Dec-17 19:00:00		9.21	0.00	0.00	7.13	2.1	329.7		3.04	0.00	0.00	2.35		10.35	18.92	83.84	86.68	27-Dec-17 18:00:00		13.39	18.92	83.84	89.03
27-Dec-17 19:00:00	27-Dec-17 20:00:00		9.04	0.00	0.00	7.29	2.1	329.7		2.98	0.00	0.00	2.40		10.35	18.92	83.84	86.68	27-Dec-17 19:00:00		13.33	18.92	83.84	89.08
27-Dec-17 20:00:00	27-Dec-17 21:00:00		10.71	0.00	0.00	9.75	2.1	329.7		3.53	0.00	0.00	3.21		10.35	18.92	83.84	86.68	27-Dec-17 20:00:00		13.88	18.92	83.84	89.89
27-Dec-17 21:00:00	27-Dec-17 22:00:00		11.85	0.00	0.00	7.60	2.1	329.7		3.91	0.00	0.00	2.51		10.35	18.92	83.84	86.68	27-Dec-17 21:00:00		14.26	18.92	83.84	89.19
27-Dec-17 22:00:00	27-Dec-17 23:00:00		16.10	0.00	0.00	7.67	2.1	329.7		5.31	0.00	0.00	2.53		10.35	18.92	83.84	86.68	27-Dec-17 22:00:00		15.66	18.92	83.84	89.21
27-Dec-17 23:00:00	28-Dec-17 00:00:00		15.59	0.00	0.00	7.73	2.1	329.7		5.14	0.00	0.00	2.55		10.35	18.92	83.84	86.68	27-Dec-17 23:00:00		15.49	18.92	83.84	89.23
28-Dec-17 00:00:00	28-Dec-17 01:00:00		9.47	0.00	0.00	7.82	2.1	329.7		3.12	0.00	0.00	2.58		10.35	18.92	83.84	86.68	28-Dec-17 00:00:00		13.47	18.92	83.84	89.26
28-Dec-17 01:00:00	28-Dec-17 02:00:00		2.56	0.00	0.00	8.12	2.1	329.7		0.85	0.00	0.00	2.68		10.35	18.92	83.84	86.68	28-Dec-17 01:00:00		11.20	18.92	83.84	89.36
28-Dec-17 02:00:00	28-Dec-17 03:00:00		10.55	0.00	0.00	28.34	2.1	329.7		3.48	0.00	0.00	9.34		10.35	18.92	83.84	86.68	28-Dec-17 02:00:00		13.83	18.92	83.84	96.02
28-Dec-17 03:00:00	28-Dec-17 04:00:00		6.20	0.00	0.00	9.89	2.1	329.7		2.04	0.00	0.00	3.26		10.35	18.92	83.84	86.68	28-Dec-17 03:00:00		12.39	18.92	83.84	89.94
28-Dec-17 04:00:00	28-Dec-17 05:00:00		2.40	0.00	0.00	9.49	2.1	329.7		0.79	0.00	0.00	3.13		10.35	18.92	83.84	86.68	28-Dec-17 04:00:00		11.14	18.92	83.84	89.81
28-Dec-17 05:00:00	28-Dec-17 06:00:00		18.33	0.00	0.00	9.09	2.1	329.7		6.04	0.00	0.00	3.00		10.35	18.92	83.84	86.68	28-Dec-17 05:00:00		16.39	18.92	83.84	89.68
28-Dec-17 06:00:00	28-Dec-17 07:00:00		44.96	0.00	0.00	8.80	2.1	329.7		14.82	0.00	0.00	2.90		10.35	18.92	83.84	86.68	28-Dec-17 06:00:00		25.17	18.92	83.84	89.58
28-Dec-17 07:00:00	28-Dec-17 08:00:00		55.03	0.00	0.00	8.89	2.1	329.7		18.14	0.00	0.00	2.93		10.35	18.92	83.84	86.68	28-Dec-17 07:00:00		28.49	18.92	83.84	89.61
28-Dec-17 08:00:00	28-Dec-17 09:00:00		38.21	0.00	0.00	9.92	2.1	329.7		12.60	0.00	0.00	3.27		10.35	18.92	83.84	86.68	28-Dec-17 08:00:00		22.95	18.92	83.84	89.95
28-Dec-17 09:00:00	28-Dec-17 10:00:00		29.59	0.00	0.00	8.85

Table A-43
Hourly SO_2 Emissions Rates - 2017
New-Indy Catawba - Catawba, SC

2017 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	**End**	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	**Start Time**	lb/hr	**lb/hr**	**lb/hr**	**lb/hr**	**lb/hr**
30-Dec-17 11:00:00	30-Dec-17 12:00:00		0.10	0.00	0.00	14.92	2.1	329.7		0.03	0.00	0.00	4.92		10.35	18.92	83.84	86.68	30-Dec-17 11:00:00		**10.38**	**18.92**	**83.84**	**91.60**
30-Dec-17 12:00:00	30-Dec-17 13:00:00		15.97	0.00	0.00	7.75	2.1	329.7		5.27	0.00	0.00	2.56		10.35	18.92	83.84	86.68	30-Dec-17 12:00:00		**15.62**	**18.92**	**83.84**	**89.24**
30-Dec-17 13:00:00	30-Dec-17 14:00:00		33.83	0.00	0.00	7.64	2.1	329.7		11.15	0.00	0.00	2.52		10.35	18.92	83.84	86.68	30-Dec-17 13:00:00		**21.50**	**18.92**	**83.84**	**89.20**
30-Dec-17 14:00:00	30-Dec-17 15:00:00		41.17	0.00	0.00	7.53	2.1	329.7		13.57	0.00	0.00	2.48		10.35	18.92	83.84	86.68	30-Dec-17 14:00:00		**23.92**	**18.92**	**83.84**	**89.16**
30-Dec-17 15:00:00	30-Dec-17 16:00:00		21.24	0.00	0.00	8.21	2.1	329.7		7.00	0.00	0.00	2.71		10.35	18.92	83.84	86.68	30-Dec-17 15:00:00		**17.35**	**18.92**	**83.84**	**89.39**
30-Dec-17 16:00:00	30-Dec-17 17:00:00		57.87	0.00	0.00	7.45	2.1	329.7		19.08	0.00	0.00	2.46		10.35	18.92	83.84	86.68	30-Dec-17 16:00:00		**29.43**	**18.92**	**83.84**	**89.14**
30-Dec-17 17:00:00	30-Dec-17 18:00:00		55.95	0.00	0.00	7.27	2.1	329.7		18.45	0.00	0.00	2.40		10.35	18.92	83.84	86.68	30-Dec-17 17:00:00		**28.80**	**18.92**	**83.84**	**89.08**
30-Dec-17 18:00:00	30-Dec-17 19:00:00		53.34	0.00	0.00	7.10	2.1	329.7		17.59	0.00	0.00	2.34		10.35	18.92	83.84	86.68	30-Dec-17 18:00:00		**27.94**	**18.92**	**83.84**	**89.02**
30-Dec-17 19:00:00	30-Dec-17 20:00:00		47.31	0.00	0.00	6.94	2.1	329.7		15.60	0.00	0.00	2.29		10.35	18.92	83.84	86.68	30-Dec-17 19:00:00		**25.95**	**18.92**	**83.84**	**88.97**
30-Dec-17 20:00:00	30-Dec-17 21:00:00		29.12	0.00	0.00	6.97	2.1	329.7		9.60	0.00	0.00	2.30		10.35	18.92	83.84	86.68	30-Dec-17 20:00:00		**19.95**	**18.92**	**83.84**	**88.98**
30-Dec-17 21:00:00	30-Dec-17 22:00:00		80.11	0.00	0.00	8.12	2.1	329.7		26.41	0.00	0.00	2.68		10.35	18.92	83.84	86.68	30-Dec-17 21:00:00		**36.76**	**18.92**	**83.84**	**89.36**
30-Dec-17 22:00:00	30-Dec-17 23:00:00		852.59	0.00	0.00	7.41	2.1	329.7		281.10	0.00	0.00	2.44		10.35	18.92	83.84	86.68	30-Dec-17 22:00:00		**291.45**	**18.92**	**83.84**	**89.12**
30-Dec-17 23:00:00	31-Dec-17 00:00:00		21.07	0.00	0.00	7.58	2.1	329.7		6.95	0.00	0.00	2.50		10.35	18.92	83.84	86.68	30-Dec-17 23:00:00		**17.30**	**18.92**	**83.84**	**89.18**
31-Dec-17 00:00:00	31-Dec-17 01:00:00		4.38	0.00	0.00	7.75	2.1	329.7		1.45	0.00	0.00	2.56		10.35	18.92	83.84	86.68	31-Dec-17 00:00:00		**11.80**	**18.92**	**83.84**	**89.24**
31-Dec-17 01:00:00	31-Dec-17 02:00:00		0.41	0.00	0.00	8.06	2.1	329.7		0.14	0.00	0.00	2.66		10.35	18.92	83.84	86.68	31-Dec-17 01:00:00		**10.49**	**18.92**	**83.84**	**89.34**
31-Dec-17 02:00:00	31-Dec-17 03:00:00		7.67	0.00	0.00	8.56	2.1	329.7		2.53	0.00	0.00	2.82		10.35	18.92	83.84	86.68	31-Dec-17 02:00:00		**12.88**	**18.92**	**83.84**	**89.50**
31-Dec-17 03:00:00	31-Dec-17 04:00:00		6.99	0.00	0.00	10.47	2.1	329.7		2.30	0.00	0.00	3.45		10.35	18.92	83.84	86.68	31-Dec-17 03:00:00		**12.65**	**18.92**	**83.84**	**90.13**
31-Dec-17 04:00:00	31-Dec-17 05:00:00		7.35	0.00	0.00	8.21	2.1	329.7		2.42	0.00	0.00	2.71		10.35	18.92	83.84	86.68	31-Dec-17 04:00:00		**12.77**	**18.92**	**83.84**	**89.39**
31-Dec-17 05:00:00	31-Dec-17 06:00:00		17.50	0.00	0.00	8.35	2.1	329.7		5.77	0.00	0.00	2.75		10.35	18.92	83.84	86.68	31-Dec-17 05:00:00		**16.12**	**18.92**	**83.84**	**89.43**
31-Dec-17 06:00:00	31-Dec-17 07:00:00		49.87	0.00	0.00	8.48	2.1	329.7		16.44	0.00	0.00	2.79		10.35	18.92	83.84	86.68	31-Dec-17 06:00:00		**26.79**	**18.92**	**83.84**	**89.47**
31-Dec-17 07:00:00	31-Dec-17 08:00:00		33.54	0.00	0.00	8.64	2.1	329.7		11.06	0.00	0.00	2.85		10.35	18.92	83.84	86.68	31-Dec-17 07:00:00		**21.41**	**18.92**	**83.84**	**89.53**
31-Dec-17 08:00:00	31-Dec-17 09:00:00		25.41	0.00	0.00	9.01	2.1	329.7		8.38	0.00	0.00	2.97		10.35	18.92	83.84	86.68	31-Dec-17 08:00:00		**18.73**	**18.92**	**83.84**	**89.65**
31-Dec-17 09:00:00	31-Dec-17 10:00:00		24.42	0.00	0.00	42.27	2.1	329.7		8.05	0.00	0.00	13.94		10.35	18.92	83.84	86.68	31-Dec-17 09:00:00		**18.40**	**18.92**	**83.84**	**100.62**
31-Dec-17 10:00:00	31-Dec-17 11:00:00		22.37	0.00	0.00	8.59	2.1	329.7		7.37	0.00	0.00	2.83		10.35	18.92	83.84	86.68	31-Dec-17 10:00:00		**17.72**	**18.92**	**83.84**	**89.51**
31-Dec-17 11:00:00	31-Dec-17 12:00:00		21.88	0.00	0.00	8.48	2.1	329.7		7.21	0.00	0.00	2.80		10.35	18.92	83.84	86.68	31-Dec-17 11:00:00		**17.56**	**18.92**	**83.84**	**89.48**
31-Dec-17 12:00:00	31-Dec-17 13:00:00		22.20	0.00	0.00	8.37	2.1	329.7		7.32	0.00	0.00	2.76		10.35	18.92	83.84	86.68	31-Dec-17 12:00:00		**17.67**	**18.92**	**83.84**	**89.44**
31-Dec-17 13:00:00	31-Dec-17 14:00:00		22.00	0.00	0.00	8.26	2.1	329.7		7.25	0.00	0.00	2.72		10.35	18.92	83.84	86.68	31-Dec-17 13:00:00		**17.60**	**18.92**	**83.84**	**89.40**
31-Dec-17 14:00:00	31-Dec-17 15:00:00		22.41	0.00	0.00	8.18	2.1	329.7		7.39	0.00	0.00	2.70		10.35	18.92	83.84	86.68	31-Dec-17 14:00:00		**17.74**	**18.92**	**83.84**	**89.38**
31-Dec-17 15:00:00	31-Dec-17 16:00:00		23.42	0.00	0.00	74.99	2.1	329.7		7.72	0.00	0.00	24.72		10.35	18.92	83.84	86.68	31-Dec-17 15:00:00		**18.07**	**18.92**	**83.84**	**111.40**
31-Dec-17 16:00:00	31-Dec-17 17:00:00		24.44	0.00	0.00	8.97	2.1	329.7		8.06	0.00	0.00	2.96		10.35	18.92	83.84	86.68	31-Dec-17 16:00:00		**18.41**	**18.92**	**83.84**	**89.64**
31-Dec-17 17:00:00	31-Dec-17 18:00:00		24.47	0.00	0.00	8.30	2.1	329.7		8.07	0.00	0.00	2.74		10.35	18.92	83.84	86.68	31-Dec-17 17:00:00		**18.42**	**18.92**	**83.84**	**89.42**
31-Dec-17 18:00:00	31-Dec-17 19:00:00		23.58	0.00	0.00	8.40	2.1	329.7		7.77	0.00	0.00	2.77		10.35	18.92	83.84	86.68	31-Dec-17 18:00:00		**18.12**	**18.92**	**83.84**	**89.45**
31-Dec-17 19:00:00	31-Dec-17 20:00:00		37.73	0.00	0.00	8.50	2.1	329.7		12.44	0.00	0.00	2.80		10.35	18.92	83.84	86.68	31-Dec-17 19:00:00		**22.79**	**18.92**	**83.84**	**89.48**
31-Dec-17 20:00:00	31-Dec-17 21:00:00		34.94	0.00	0.00	8.48	2.1	329.7		11.52	0.00	0.00	2.80		10.35	18.92	83.84	86.68	31-Dec-17 20:00:00		**21.87**	**18.92**	**83.84**	**89.48**
31-Dec-17 21:00:00	31-Dec-17 22:00:00		16.24	0.00	0.00	33.33	2.1	329.7		5.35	0.00	0.00	10.99		10.35	18.92	83.84	86.68	31-Dec-17 21:00:00		**15.70**	**18.92**	**83.84**	**97.67**
31-Dec-17 22:00:00	31-Dec-17 23:00:00		23.87	0.00	0.00	8.72	2.1	329.7		7.87	0.00	0.00	2.88		10.35	18.92	83.84	86.68	31-Dec-17 22:00:00		**18.22**	**18.92**	**83.84**	**89.56**
31-Dec-17 23:00:00	01-Jan-18 00:00:00		27.26	0.00	0.00	8.74	2.1	329.7		8.99	0.00	0.00	2.88		10.35	18.92	83.84	86.68	31-Dec-17 23:00:00		**19.34**	**18.92**	**83.84**	**89.56**

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
01-Jan-18 00:00:00	01-Jan-18 01:00:00		24.43	0.00	0.00	8.76	2.1	329.7		8.05	0.00	0.00	2.89		10.35	18.92	83.84	86.68	01-Jan-18 00:00:00		**18.40**	**18.92**	**83.84**	**89.57**
01-Jan-18 01:00:00	01-Jan-18 02:00:00		30.75	0.00	0.00	8.78	2.1	329.7		10.14	0.00	0.00	2.89		10.35	18.92	83.84	86.68	01-Jan-18 01:00:00		**20.49**	**18.92**	**83.84**	**89.57**
01-Jan-18 02:00:00	01-Jan-18 03:00:00		50.61	0.00	0.00	8.76	2.1	329.7		16.69	0.00	0.00	2.89		10.35	18.92	83.84	86.68	01-Jan-18 02:00:00		**27.04**	**18.92**	**83.84**	**89.57**
01-Jan-18 03:00:00	01-Jan-18 04:00:00		48.04	0.00	0.00	31.24	2.1	329.7		15.84	0.00	0.00	10.30		10.35	18.92	83.84	86.68	01-Jan-18 03:00:00		**26.19**	**18.92**	**83.84**	**96.98**
01-Jan-18 04:00:00	01-Jan-18 05:00:00		63.34	0.00	0.00	8.70	2.1	329.7		20.88	0.00	0.00	2.87		10.35	18.92	83.84	86.68	01-Jan-18 04:00:00		**31.23**	**18.92**	**83.84**	**89.55**
01-Jan-18 05:00:00	01-Jan-18 06:00:00		49.74	0.00	0.00	8.74	2.1	329.7		16.40	0.00	0.00	2.88		10.35	18.92	83.84	86.68	01-Jan-18 05:00:00		**26.75**	**18.92**	**83.84**	**89.56**
01-Jan-18 06:00:00	01-Jan-18 07:00:00		33.28	0.00	0.00	8.78	2.1	329.7		10.97	0.00	0.00	2.89		10.35	18.92	83.84	86.68	01-Jan-18 06:00:00		**21.32**	**18.92**	**83.84**	**89.57**
01-Jan-18 07:00:00	01-Jan-18 08:00:00		33.68	0.00	0.00	9.17	2.1	329.7		11.10	0.00	0.00	3.02		10.35	18.92	83.84	86.68	01-Jan-18 07:00:00		**21.45**	**18.92**	**83.84**	**89.70**
01-Jan-18 08:00:00	01-Jan-18 09:00:00		45.30	0.00	0.00	12.46	2.1	329.7		14.93	0.00	0.00	4.11		10.35	18.92	83.84	86.68	01-Jan-18 08:00:00		**25.28**	**18.92**	**83.84**	**90.79**
01-Jan-18 09:00:00	01-Jan-18 10:00:00		62.52	0.00	0.00	9.00	2.1	329.7		20.61	0.00	0.00	2.97		10.35	18.92	83.84	86.68	01-Jan-18 09:00:00		**30.96**	**18.92**	**83.84**	**89.65**
01-Jan-18 10:00:00	01-Jan-18 11:00:00		62.20	0.00	0.00	8.86	2.1	329.7		20.51	0.00	0.00	2.92		10.35	18.92	83.84	86.68	01-Jan-18 10:00:00		**30.86**	**18.92**	**83.84**	**89.60**
01-Jan-18 11:00:00	01-Jan-18 12:00:00		61.10	0.00	0.00	8.71	2.1	329.7		20.14	0.00	0.00	2.87		10.35	18.92	83.84	86.68	01-Jan-18 11:00:00		**30.49**	**18.92**	**83.84**	**89.55**
01-Jan-18 12:00:00	01-Jan-18 13:00:00		59.11	0.00	0.00	8.58	2.1	329.7		19.49	0.00	0.00	2.83		10.35	18.92	83.84	86.68	01-Jan-18 12:00:00		**29.84**	**18.92**	**83.84**	**89.51**
01-Jan-18 13:00:00	01-Jan-18 14:00:00		57.69	0.00	0.00	8.71	2.1	329.7		19.02	0.00	0.00	2.87		10.35	18.92	83.84	86.68	01-Jan-18 13:00:00		**29.37**	**18.92**	**83.84**	**89.55**
01-Jan-18 14:00:00	01-Jan-18 15:00:00		62.01	0.00	0.00	33.32	2.1	329.7		20.45	0.00	0.00	10.98		10.35	18.92	83.84	86.68	01-Jan-18 14:00:00		**30.80**	**18.92**	**83.84**	**97.66**
01-Jan-18 15:00:00	01-Jan-18 16:00:00		51.90	0.00	0.00	8.92	2.1	329.7		17.11	0.00	0.00	2.94		10.35	18.92	83.84	86.68	01-Jan-18 15:00:00		**27.46**	**18.92**	**83.84**	**89.62**
01-Jan-18 16:00:00	01-Jan-18 17:00:00		39.19	0.00	0.00	8.75	2.1	329.7		12.92	0.00	0.00	2.89		10.35	18.92	83.84	86.68	01-Jan-18 16:00:00		**23.27**	**18.92**	**83.84**	**89.57**
01-Jan-18 17:00:00	01-Jan-18 18:00:00		38.90	0.00	0.00	8.58	2.1	329.7		12.83	0.00	0.00	2.83		10.35	18.92	83.84	86.68	01-Jan-18 17:00:00		**23.18**	**18.92**	**83.84**	**89.51**
01-Jan-18 18:00:00	01-Jan-18 19:00:00		27.38	0.00	0.00	15.40	2.1	329.7		9.03	0.00	0.00	5.08		10.35	18.92	83.84	86.68	01-Jan-18 18:00:00		**19.38**	**18.92**	**83.84**	**91.76**
01-Jan-18 19:00:00	01-Jan-18 20:00:00		21.93	106.27	0.00	348.52	2.1	329.7		7.23	35.04	0.00	114.91		10.35	18.92	83.84	86.68	01-Jan-18 19:00:00		**17.58**	**53.96**	**83.84**	**201.59**
01-Jan-18 20:00:00	01-Jan-18 21:00:00		23.13	412.88	0.00	627.88	2.1	329.7		7.63	136.13	0.00	207.01		10.35	18.92	83.84	86.68	01-Jan-18 20:00:00		**17.98**	**155.05**	**83.84**	**293.69**
01-Jan-18 21:00:00	01-Jan-18 22:00:00		28.81	449.12	0.00	489.47	2.1	329.7		9.50	148.08	0.00	161.38		10.35	18.92	83.84	86.68	01-Jan-18 21:00:00		**19.85**	**167.00**	**83.84**	**248.06**
01-Jan-18 22:00:00	01-Jan-18 23:00:00		41.65	468.02	29.86	502.45	2.1	329.7		13.73	154.30	9.85	165.66		10.35	18.92	83.84	86.68	01-Jan-18 22:00:00		**24.08**	**173.22**	**93.69**	**252.34**
01-Jan-18 23:00:00	02-Jan-18 00:00:00		49.10	475.68	4.30	507.81	2.1	329.7		16.19	156.83	1.42	167.42		10.35	18.92	83.84	86.68	01-Jan-18 23:00:00		**26.54**	**175.75**	**85.26**	**254.10**
02-Jan-18 00:00:00	02-Jan-18 01:00:00		244.03	436.23	0.00	495.77	2.1	329.7		80.46	143.82	0.00	163.45		10.35	18.92	83.84	86.68	02-Jan-18 00:00:00		**90.81**	**162.74**	**83.84**	**250.13**
02-Jan-18 01:00:00	02-Jan-18 02:00:00		300.51	378.39	0.00	429.37	2.1	329.7		99.08	124.75	0.00	141.56		10.35	18.92	83.84	86.68	02-Jan-18 01:00:00		**109.43**	**143.67**	**83.84**	**228.24**
02-Jan-18 02:00:00	02-Jan-18 03:00:00		365.01	430.49	9.71	449.60	2.1	329.7		120.34	141.93	3.20	148.23		10.35	18.92	83.84	86.68	02-Jan-18 02:00:00		**130.69**	**160.85**	**87.04**	**234.91**
02-Jan-18 03:00:00	02-Jan-18 04:00:00		388.14	468.01	0.00	548.67	2.1	329.7		127.97	154.30	0.00	180.90		10.35	18.92	83.84	86.68	02-Jan-18 03:00:00		**138.32**	**173.22**	**83.84**	**267.58**
02-Jan-18 04:00:00	02-Jan-18 05:00:00		412.53	589.54	0.00	629.32	2.1	329.7		136.01	194.37	0.00	207.49		10.35	18.92	83.84	86.68	02-Jan-18 04:00:00		**146.36**	**213.29**	**83.84**	**294.17**
02-Jan-18 05:00:00	02-Jan-18 06:00:00		380.57	595.25	0.00	722.29	2.1	329.7		125.48	196.25	0.00	238.14		10.35	18.92	83.84	86.68	02-Jan-18 05:00:00		**135.83**	**215.17**	**83.84**	**324.82**
02-Jan-18 06:00:00	02-Jan-18 07:00:00		347.68	606.42	0.00	693.74	2.1	329.7		114.63	199.94	0.00	228.73		10.35	18.92	83.84	86.68	02-Jan-18 06:00:00		**124.98**	**218.86**	**83.84**	**315.41**
02-Jan-18 07:00:00	02-Jan-18 08:00:00		358.39	650.20	0.00	657.39	2.1	329.7		118.16	214.37	0.00	216.74		10.35	18.92	83.84	86.68	02-Jan-18 07:00:00		**128.51**	**233.29**	**83.84**	**303.42**
02-Jan-18 08:00:00	02-Jan-18 09:00:00		386.37	1,042.66	0.00	642.48	2.1	329.7		127.39	343.76	0.00	211.83		10.35	18.92	83.84	86.68	02-Jan-18 08:00:00		**137.74**	**362.68**	**83.84**	**298.51**
02-Jan-18 09:00:00	02-Jan-18 10:00:00		404.01	1,060.90	0.00	1,081.51	2.1	329.7		133.20	349.78	0.00	356.58		10.35	18.92	83.84	86.68	02-Jan-18 09:00:00		**143.55**	**368.70**	**83.84**	**443.26**
02-Jan-18 10:00:00	02-Jan-18 11:00:00		378.81	1,017.49	0.00	357.93	2.1	329.7		124.89	335.46	0.00	118.01		10.35	18.92	83.84	86.68	02-Jan-18 10:00:00		**135.24**	**354.38**	**83.84**	**204.69**
02-Jan-18 11:00:00	02-Jan-18 12:00:00		360.08	987.82	0.00	345.55	2.1	329.7		118.72	325.68	0.00	113.93		10.35	18.92	83.84	86.68	02-Jan-18 11:00:00		**129.07**	**344.60**	**83.84**	**200.61**
02-Jan-18 12:00:00	02-Jan-18 13:00:00		343.38	726.75	0.00	371.08	2.1	329.7		113.21	239.61	0.00	122.35		10.35	18.92	83.84	86.68	02-Jan-18 12:00:00		**123.56**	**258.53**	**83.84**	**209.03**
02-Jan-18 13:00:00	02-Jan-18 14:00:00		411.42	577.53	0.00	422.88	2.1	329.7		135.64	190.41	0.00	139.42		10.35	18.92	83.84	86.68	02-Jan-18 13:00:00		**145.99**	**209.33**	**83.84**	**226.10**
02-Jan-18 14:00:00	02-Jan-18 15:00:00		392.43	559.26	0.00	364.99	2.1	329.7		129.38	184.39	0.00	120.34		10.35	18.92	83.84	86.68	02-Jan-18 14:00:00		**139.73**	**203.31**	**83.84**	**207.02**
02-Jan-18 15:00:00	02-Jan-18 16:00:00		391.20	993.93	0.00	368.88	2.1	329.7		128.98	327.70	0.00	121.62		10.35	18.92	83.84	86.68	02-Jan-18 15:00:00		**139.33**	**346.62**	**83.84**	**208.30**
02-Jan-18 16:00:00	02-Jan-18 17:00:00		416.91	1,104.32	0.00	373.33	2.1	329.7		137.46	364.09	0.00	123.09		10.35	18.92	83.84	86.68	02-Jan-18 16:00:00		**147.81**	**383.01**	**83.84**	**209.77**
02-Jan-18 17:00:00	02-Jan-18 18:00:00		431.90	958.47	0.00	372.98	2.1	329.7		142.40	316.01	0.00	122.97		10.35	18.92	83.84	86.68	02-Jan-18 17:00:00		**152.75**	**334.93**	**83.84**	**209.65**
02-Jan-18 18:00:00	02-Jan-18 19:00:00		408.82	1,062.27	0.00	366.91	2.1	329.7		134.79	350.23	0.00	120.97		10.35	18.92	83.84	86.68	02-Jan-18 18:00:00		**145.14**	**369.15**	**83.84**	**207.65**
02-Jan-18 19:00:00	02-Jan-18 20:00:00		424.98	1,089.80	0.00	377.75	2.1	329.7		140.12	359.31	0.00	124.54		10.35	18.92	83.84	86.68	02-Jan-18 19:00:00		**150.47**	**378.23**	**83.84**	**211.22**
02-Jan-18 20:00:00	02-Jan-18 21:00:00		986.71	1,132.07	0.00	416.34	2.1	329.7		325.32	373.24	0.00	137.27		10.35	18.92	83.84	86.68	02-Jan-18 20:00:00		**335.67**	**392.16**	**83.84**	**223.95**
02-Jan-18 21:00:00	02-Jan-18 22:00:00		1,348.84	1,132.43	0.00	456.37	2.1	329.7		444.71	373.36	0.00	150.46		10.35	18.92	83.84	86.68	02-Jan-18 21:00:00		**455.06**	**392.28**	**83.84**	**237.14**
02-Jan-18 22:00:00	02-Jan-18 23:00:00		1,390.49	1,132.37	0.00	479.59	2.1	329.7		458.44	373.34	0.00	158.12		10.35	18.92	83.84	86.68	02-Jan-18 22:00:00		**468.79**	**392.26**	**83.84**	**244.80**
02-Jan-18 23:00:00	03-Jan-18 00:00:00		1,433.36	1,204.30	0.00	486.21	2.1	329.7		472.58	397.06	0.00	160.30		10.35	18.92	83.84	86.68	02-Jan-18 23:00:00		**482.93**	**415.98**	**83.84**	**246.98**
03-Jan-18 00:00:00	03-Jan-18 01:00:00		1,457.09	1,629.44	0.00	480.01	2.1	329.7		480.40	537.23	0.00	158.26		10.35	18.92	83.84	86.68	03-Jan-18 00:00:00		**490.75**	**556.15**	**83.84**	**244.94**
03-Jan-18 01:00:00	03-Jan-18 02:00:00		1,442.93	1,626.55	0.00	471.10	2.1	329.7		475.73	536.27	0.00	155.32		10.35	18.92	83.84	86.68	03-Jan-18 01:00:00		**486.08**	**555.19**	**83.84**	**242.00**
03-Jan-18 02:00:00	03-Jan-18 03:00:00		1,423.67	1,634.54	0.00	471.10	2.1	329.7		469.38	538.91	0.00	155.32		10.35	18.92	83.84	86.68	03-Jan-18 02:00:00		**479.73**	**557.83**	**83.84**	**242.00**
03-Jan-18 03:00:00	03-Jan-18 04:00:00		1,445.71	1,689.18	0.00	492.24	2.1	329.7		476.65	556.92	0.00	162.29		10.35	18.92	83.84	86.68	03-Jan-18 03:00:00		**487.00**	**575.84**	**83.84**	**248.97**
03-Jan-18 04:00:00	03-Jan-18 05:00:00		1,450.89	1,690.65	0.00	494.92	2.1	329.7		478.36	557.41	0.00	163.18		10.35	18.92	83.84	86.68	03-Jan-18 04:00:00		**488.71**	**576.33**	**83.84**	**249.86**
03-Jan-18 05:00:00	03-Jan-18 06:00:00		1,459.09	1,694.73	0.00	490.39	2.1	329.7		481.06	558.75	0.00	161.68		10.35	18.92	83.84	86.68	03-Jan-18 05:00:00		**491.41**	**577.67**	**83.84**	**248.36**
03-Jan-18 06:00:00	03-Jan-18 07:00:00		573.02	1,020.29	0.00	493.81	2.1	329.7		188.92	336.39	0.00	162.81		10.35	18.92	83.84	86.68	03-Jan-18 06:00:00		**199.27**	**355.31**	**83.84**	**249.49**
03-Jan-18 07:00:00	03-Jan-18 08:00:00		1,067.14	272.85	0.00	321.01	2.1	329.7		351.84	89.96	0.00	105.84		10.35	18.92	83.84	86.68	03-Jan-18 07:00:00		**362.19**	**108.88**	**83.84**	**192.52**
03-Jan-18 08:00:00	03-Jan-18 09:00:00		678.13	399.76	0.00	376.75	2.1	329.7		223.58	131.80	0.00	124.21		10.35	18.92	83.84	86.68	03-Jan-18 08:00:00		**233.93**	**150.72**	**83.84**	**210.89**
03-Jan-18 09:00:00	03-Jan-18 10:00:00		1,568.47	697.25	0.00	416.10	2.1	329.7		517.12	229.88	0.00	137.19		10.35	18.92	83.84	86.68	03-Jan-18 09:00:00		**527.47**	**248.80**	**83.84**	**223.87**
03-Jan-18 10:00:00	03-Jan-18 11:00:00		1,662.72	896.28	0.00	476.32	2.1	329.7		548.20	295.50	0.00	157.04		10.35	18.92	83.84	86.68	03-Jan-18 10:00:00		**558.55**	**314.42**	**83.84**	**243.72**
03-Jan-18 11:00:00	03-Jan-18 12:00:00		1,695.39	1,042.73	0.00	468.05	2.1	329.7		558.97	343.79	0.00	154.32		10.35	18.92	83.84	86.68	03-Jan-18 11:00:00		**569.32**	**362.71**	**83.84**	**241.00**
03-Jan-18 12:00:00	03-Jan-18 13:00:00		1,690.15	920.07	0.00	465.93	2.1	329.7		557.24	303.35	0.00	153.62		10.35	18.92	83.84	86.68	03-Jan-18 12:00:00		**567.59**	**322.27**	**83.84**	**240.30**
03-Jan-18 13:00:00	03-Jan-18 14:00:00		1,755.68	840.60	0.00	492.21	2.1	329.7		578.85	277.15	0.00	162.28		10.35	18.92	83.84	86.68	03-Jan-18 13:00:00		**589.20**	**296.07**	**83.84**	**248.96**
03-Jan-18 14:00:00	03-Jan-18 15:00:00		1,733.13	908.98	0.00	484.00	2.1	329.7		571.41	329.37	0.00	159.58		10.35	18.92	83.84	86.68	03-Jan-18 14:00:00		**581.76**	**348.29**	**83.84**	**246.26**
03-Jan-18 15:00:00	03-Jan-18 16:00:00		1,198.98	951.45	0.00	481.94	2.1	329.7		395.31	313.69	0.00	158.89		10.35	18.92	83.84	86.68	03-Jan-18 15:00:00		**405.66**	**332.61**	**83.84**	**245.57**
03-Jan-18 16:00:00	03-Jan-18 17:00:00		1,055.70	885.04	0.00	488.31	2.1	329.7		348.07	291.80	0.00	161.00		10.35	18.92	83.84	86.68	03-Jan-18 16:00:00		**358.42**	**310.72**	**83.84**	**247.68**
03-Jan-18 17:00:00	03-Jan-18 18:00:00		1,056.38	642.69	0.00	487.78	2.1	329.7		348.29	211.90	0.00	160.82		10.35	18.92	83.84	86.68	03-Jan-18 17:00:00		**358.64**	**230.82**	**83.84**	**247.50**
03-Jan-18 18:00:00	03-Jan-18 19:00:00		1,109.96	602.61	0.00	472.42	2.1	329.7		365.95	198.68	0.00	155.76		10.35	18.92	83.84	86.68	03-Jan-18 18:00:00		**376.30**	**217.60**	**83.84**	**242.44**
03-Jan-18 19:00:00	03-Jan-18 20:00:00		1,215.24	906.27	0.00	493.73	2.1	329.7		400.66	298.80	0.00	162.78		10.35	18.92	83.84	86.68	03-Jan-18 19:00:00		**411.01**	**317.72**	**83.84**	**249.46**
03-Jan-18 20:00:00	03-Jan-18 21:00:00		1,190.96	1,049.50	0.00	498.05	2.1	329.7		392.66	346.02	0.00	164.21		10.35	18.92	83.84	86.68	03-Jan-18 20:00:00		**403.01**	**364.94**	**83.84**	**250.89**
03-Jan-18 21:00:00	03-Jan-18 22:00:00		1,160.74	1,061.90	0.00	523.00	2.1	329.7		382.70	350.11	0.00	172.43		10.35	18.92	83.84	86.68	03-Jan-18 21:00:00		**393.05**	**369.03**	**83.84**	**259.11**
03-Jan-18 22:00:00	03-Jan-18 23:00:00		1,236.32	1,089.69	0.00	521.71	2.1	329.7		407.61	359.27	0.00	172.01		10.35	18.92	83.84	86.68	03-Jan-18 22:00:00		**417.96**	**378.19**	**83.84**	**258.69**
03-Jan-18 23:00:00	04-Jan-18 00:00:00		1,263.61	1,106.56	0.00	538.18	2.1	329.7		416.61	364.83	0.00	177.44		10.35	18.92	83.84	86.68	03-Jan-18 23:00:00		**426.96**	**383.75**	**83.84**	**264.12**
04-Jan-18 00:00:00	04-Jan-18 01:00:00		1,262.84	1,106.50	0.00	567.61	2.1	329.7		416.36	364.81	0.00	187.14		10.35	18.92	83.84	86.68	04-Jan-18 00:00:00		**426.71**	**383.73**	**83.84**	**273.82**
04-Jan-18 01:00:00	04-Jan-18 02:00:00		1,263.24	1,189.32	0.00	563.46	2.1	329.7		416.49	364.42	0.00	185.77		10.35	18.92	83.84	86.68	04-Jan-18 01:00:00		**426.84**	**393.34**	**83.84**	**272.49**
04-Jan-18 02:00:00	04-Jan-18 03:00:00		1,260.45	1,107.34	0.00	563.99	2.1	329.7		415.57	365.09	0.00	185.95		10.35	18.92	83.84	86.68	04-Jan-18 02:00:00		**425.92**	**384.01**	**83.84**	**272.63**
04-Jan-18 03:00:00	04-Jan-18 04:00:00		1,212.02	1,106.59	0.00	529.93	2.1	329.7		399.60	364.84	0.00	174.72		10.35	18.92	83.84	86.68	04-Jan-18 03:00:00		**409.95**	**383.76**	**83.84**	**261.40**
04-Jan-18 04:00:00	04-Jan-18 05:00:00		1,216.12	1,105.37	0.00	524.62	2.1	329.7		400.95	364.44	0.00	172.97		10.35	18.92	83.84	86.68	04-Jan-18 04:00:00		**411.30**	**383.36**	**83.84**	**259.65**
04-Jan-18 05:00:00	04-Jan-18 06:00:00		1,254.96	1,103.39	0.00	527.49	2.1	329.7		413.76	363.79	0.00	173.91		10.35	18.92	83.84	86.68	04-Jan-18 05:00:00		**424.11**	**382.71**	**83.84**	**260.59**
04-Jan-18 06:00:00	04-Jan-18 07:00:00		1,294.11	1,080.30	0.00	552.57	2.1	329.7		426.68	356.17	0.00	182.18		10.35	18.92	83.84	86.68	04-Jan-18 06:00:00		**437.03**	**375.09**	**83.84**	**268.86**
04-Jan-18 07:00:00	04-Jan-18 08:00:00		1,288.61	941.55	0.00	581.59	2.1	329.7		424.86	311.09	0.00	191.75		10.35	18.92	83.84	86.68	04-Jan-18 07:00:00		**435.21**	**330.01**	**83.84**	**278.43**
04-Jan-18 08:00:00	04-Jan-18 09:00:00		1,226.78	843.90	0.00	816.84	2.1	329.7		404.47	278.23	0.00	269.31		10.35	18.92	83.84	86.68	04-Jan-18 08:00:00		**414.82**	**297.15**	**83.84**	**355.99**
04-Jan-18 09:00:00	04-Jan-18 10:00:00		1,215.02	860.09	91.75	797.68	2.1	329.7		400.59	283.57	30.25	262.99		10.35	18.92	83.84	86.68	04-Jan-18 09:00:00		**410.94**	**302.49**	**114.09**	**349.67**
04-Jan-18 10:00:00	04-Jan-18 11:00:00		1,220.61	1,047.20	460.56	942.88	2.1	329.7		402.44	345.26	151.85	310.87		10.35	18.92	83.84	86.68	04-Jan-18 10:00:00		**412.79**	**364.18**	**235.69**	**397.55**
04-Jan-18 11:00:00	04-Jan-18 12:00:00		1,169.44	1,004.82	526.38	888.69	2.1	329.7		385.57	331.29	173.55	293.00		10.35	18.92	83.84	86.68	04-Jan-18 11:00:00		**395.92**	**350.21**	**257.39**	**379.68**
04-Jan-18 12:00:00	04-Jan-18 13:00:00		1,133.38	960.24	443.62	826.08	2.1	329.7		373.68	319.70	146.26	272.36		10.35	18.92	83.84	86.68	04-Jan-18 12:00:00		**384.03**	**338.62**	**290.10**	**359.26**
04-Jan-18 13:00:00	04-Jan-18 14:00:00		1,062.09	912.04	447.58	627.38	2.1	329.7		350.17	300.70	147.57	206.85		10.35	18.92	83.84	86.68	04-Jan-18 13:00:00		**360.52**	**319.62**	**231.41**	**293.53**
04-Jan-18 14:00:00	04-Jan-18 15:00:00		1,081.57	794.72	443.30	571.32	2.1	329.7		356.59	262.02	146.16	188.36		10.35	18.92	83.84	86.68	04-Jan-18 14:00:00		**366.94**	**280.94**	**230.00**	**275.04**
04-Jan-18 15:00:00	04-Jan-18 16:00:00		1,093.54	589.97	444.41	621.68	2.1	329.7		360.54	194.51	146.52	204.97		10.35	18.92	83.84	86.68	04-Jan-18 15:00:00		**370.89**	**213.43**	**230.36**	**291.65**
04-Jan-18 16:00:00	04-Jan-18 17:00:00		1,089.90	621.19	454.34	774.28	2.1	329.7		359.34	204.81	149.80	255.28		10.35	18.92	83.84	86.68	04-Jan-18 16:00:00		**369.69**	**223.73**	**233.64**	**341.96**
04-Jan-18 17:00:00	04-Jan-18 18:00:00		1,110.14	860.87	269.38	712.26	2.1	329.7		366.01	283.83	88.81	234.83		10.35	18.92	83.84	86.68	04-Jan-18 17:00:00		**376.36**	**302.75**	**172.65**	**321.51**
04-Jan-18 18:00:00	04-Jan-18 19:00:00		1,050.02	889.52	287.08	764.69	2.1	329.7		346.19	292.19	94.65	252.12		10.35	18.92	83.84	86.68	04-Jan-18 18:00:00		**356.54**	**311.11**	**178.49**	**338.80**
04-Jan-18 19:00:00	04-Jan-18 20:00:00		1,044.69	879.05	284.97	801.18	2.1	329.7		344.44	289.82	93.95	264.15		10.35	18.92	83.84	86.68	04-Jan-18 19:00:00		**354.79**	**308.74**	**177.79**	**350.83**
04-Jan-18 20:00:00	04-Jan-18 21:00:00		1,021.58	874.95	268.68	781.99	2.1

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
06-Jan-18 23:00:00	07-Jan-18 00:00:00		938.66	1,223.10	446.86	1,177.98	2.1	329.7		309.48	403.26	147.33	388.38		10.35	18.92	83.84	86.68	06-Jan-18 23:00:00		**319.83**	**422.18**	**231.17**	**475.06**
07-Jan-18 00:00:00	07-Jan-18 01:00:00		1,048.28	1,351.24	455.22	1,184.66	2.1	329.7		345.62	445.51	150.09	390.58		10.35	18.92	83.84	86.68	07-Jan-18 00:00:00		**355.97**	**464.43**	**233.93**	**477.26**
07-Jan-18 01:00:00	07-Jan-18 02:00:00		808.81	1,200.25	351.38	919.87	2.1	329.7		266.67	395.72	115.85	303.28		10.35	18.92	83.84	86.68	07-Jan-18 01:00:00		**277.02**	**414.64**	**199.69**	**389.96**
07-Jan-18 02:00:00	07-Jan-18 03:00:00		813.82	1,057.20	340.99	865.95	2.1	329.7		268.32	348.56	112.42	285.50		10.35	18.92	83.84	86.68	07-Jan-18 02:00:00		**278.67**	**367.48**	**196.26**	**372.18**
07-Jan-18 03:00:00	07-Jan-18 04:00:00		819.75	1,143.33	536.75	1,041.95	2.1	329.7		270.27	376.96	176.97	343.53		10.35	18.92	83.84	86.68	07-Jan-18 03:00:00		**280.62**	**395.88**	**260.81**	**430.21**
07-Jan-18 04:00:00	07-Jan-18 05:00:00		706.94	1,108.34	523.53	1,090.55	2.1	329.7		233.08	365.42	172.61	359.55		10.35	18.92	83.84	86.68	07-Jan-18 04:00:00		**243.43**	**384.34**	**256.45**	**446.23**
07-Jan-18 05:00:00	07-Jan-18 06:00:00		660.47	969.94	373.83	894.80	2.1	329.7		217.76	319.79	123.25	295.02		10.35	18.92	83.84	86.68	07-Jan-18 05:00:00		**228.11**	**338.71**	**207.09**	**381.70**
07-Jan-18 06:00:00	07-Jan-18 07:00:00		342.67	954.83	411.48	779.89	2.1	329.7		112.98	314.81	135.67	257.13		10.35	18.92	83.84	86.68	07-Jan-18 06:00:00		**123.33**	**333.73**	**219.51**	**343.81**
07-Jan-18 07:00:00	07-Jan-18 08:00:00		313.51	1,098.14	433.19	902.01	2.1	329.7		103.36	362.06	142.82	297.39		10.35	18.92	83.84	86.68	07-Jan-18 07:00:00		**113.71**	**380.98**	**226.66**	**384.07**
07-Jan-18 08:00:00	07-Jan-18 09:00:00		331.09	1,159.12	372.23	877.86	2.1	329.7		109.16	382.16	122.73	289.43		10.35	18.92	83.84	86.68	07-Jan-18 08:00:00		**119.51**	**401.08**	**206.57**	**376.11**
07-Jan-18 09:00:00	07-Jan-18 10:00:00		425.89	1,279.72	448.93	957.62	2.1	329.7		140.42	421.93	148.01	315.73		10.35	18.92	83.84	86.68	07-Jan-18 09:00:00		**150.77**	**440.85**	**231.85**	**402.41**
07-Jan-18 10:00:00	07-Jan-18 11:00:00		434.87	1,195.12	472.27	757.50	2.1	329.7		143.38	394.03	155.71	249.75		10.35	18.92	83.84	86.68	07-Jan-18 10:00:00		**153.73**	**412.95**	**299.55**	**336.43**
07-Jan-18 11:00:00	07-Jan-18 12:00:00		436.42	1,184.16	350.44	874.73	2.1	329.7		143.89	390.42	115.54	288.40		10.35	18.92	83.84	86.68	07-Jan-18 11:00:00		**154.24**	**409.34**	**199.38**	**375.08**
07-Jan-18 12:00:00	07-Jan-18 13:00:00		437.61	1,181.45	391.84	867.97	2.1	329.7		144.28	389.52	129.19	286.17		10.35	18.92	83.84	86.68	07-Jan-18 12:00:00		**154.63**	**408.44**	**213.03**	**372.85**
07-Jan-18 13:00:00	07-Jan-18 14:00:00		385.04	1,045.52	411.21	1,003.22	2.1	329.7		126.95	344.71	135.58	330.76		10.35	18.92	83.84	86.68	07-Jan-18 13:00:00		**137.30**	**363.63**	**219.42**	**417.44**
07-Jan-18 14:00:00	07-Jan-18 15:00:00		269.13	953.37	337.41	869.05	2.1	329.7		88.73	314.33	111.25	286.53		10.35	18.92	83.84	86.68	07-Jan-18 14:00:00		**99.08**	**333.25**	**195.09**	**373.21**
07-Jan-18 15:00:00	07-Jan-18 16:00:00		253.00	952.70	336.18	690.22	2.1	329.7		83.41	314.10	110.84	227.57		10.35	18.92	83.84	86.68	07-Jan-18 15:00:00		**93.76**	**333.02**	**194.68**	**314.25**
07-Jan-18 16:00:00	07-Jan-18 17:00:00		241.57	951.25	335.40	678.63	2.1	329.7		79.64	313.63	110.58	223.74		10.35	18.92	83.84	86.68	07-Jan-18 16:00:00		**89.99**	**332.55**	**194.42**	**310.42**
07-Jan-18 17:00:00	07-Jan-18 18:00:00		240.65	948.28	332.99	651.25	2.1	329.7		79.34	312.65	109.79	214.72		10.35	18.92	83.84	86.68	07-Jan-18 17:00:00		**89.69**	**331.57**	**193.63**	**301.40**
07-Jan-18 18:00:00	07-Jan-18 19:00:00		270.31	996.74	364.62	796.97	2.1	329.7		89.12	328.62	120.22	262.76		10.35	18.92	83.84	86.68	07-Jan-18 18:00:00		**99.47**	**347.54**	**204.06**	**349.44**
07-Jan-18 19:00:00	07-Jan-18 20:00:00		684.85	1,010.63	437.10	1,211.19	2.1	329.7		225.80	333.21	144.11	399.33		10.35	18.92	83.84	86.68	07-Jan-18 19:00:00		**236.15**	**352.13**	**227.95**	**486.01**
07-Jan-18 20:00:00	07-Jan-18 21:00:00		629.15	858.33	419.22	1,097.57	2.1	329.7		207.43	282.99	138.22	361.87		10.35	18.92	83.84	86.68	07-Jan-18 20:00:00		**217.78**	**301.91**	**222.06**	**448.55**
07-Jan-18 21:00:00	07-Jan-18 22:00:00		629.40	868.08	352.96	775.47	2.1	329.7		207.51	286.21	116.37	255.67		10.35	18.92	83.84	86.68	07-Jan-18 21:00:00		**217.86**	**305.13**	**200.21**	**342.35**
07-Jan-18 22:00:00	07-Jan-18 23:00:00		687.53	941.87	367.58	775.89	2.1	329.7		226.68	310.53	121.19	255.81		10.35	18.92	83.84	86.68	07-Jan-18 22:00:00		**237.03**	**329.45**	**205.03**	**342.49**
07-Jan-18 23:00:00	08-Jan-18 00:00:00		673.59	1,175.38	548.67	988.98	2.1	329.7		222.08	387.52	180.90	326.07		10.35	18.92	83.84	86.68	07-Jan-18 23:00:00		**232.43**	**406.44**	**264.74**	**412.75**
08-Jan-18 00:00:00	08-Jan-18 01:00:00		501.89	1,026.89	381.81	890.98	2.1	329.7		165.47	338.57	125.88	293.75		10.35	18.92	83.84	86.68	08-Jan-18 00:00:00		**175.82**	**357.49**	**209.72**	**380.43**
08-Jan-18 01:00:00	08-Jan-18 02:00:00		622.94	979.18	342.04	749.20	2.1	329.7		205.38	322.84	112.77	247.01		10.35	18.92	83.84	86.68	08-Jan-18 01:00:00		**215.73**	**341.76**	**196.61**	**333.69**
08-Jan-18 02:00:00	08-Jan-18 03:00:00		676.54	813.45	519.77	1,237.40	2.1	329.7		223.06	268.19	171.37	407.97		10.35	18.92	83.84	86.68	08-Jan-18 02:00:00		**233.41**	**287.11**	**255.21**	**494.65**
08-Jan-18 03:00:00	08-Jan-18 04:00:00		597.86	609.61	552.81	1,310.88	2.1	329.7		197.12	200.99	182.26	432.20		10.35	18.92	83.84	86.68	08-Jan-18 03:00:00		**207.47**	**219.91**	**266.10**	**518.88**
08-Jan-18 04:00:00	08-Jan-18 05:00:00		672.06	578.55	455.84	1,125.48	2.1	329.7		221.58	190.75	150.29	371.07		10.35	18.92	83.84	86.68	08-Jan-18 04:00:00		**231.93**	**209.67**	**234.13**	**457.75**
08-Jan-18 05:00:00	08-Jan-18 06:00:00		628.17	414.62	264.84	815.11	2.1	329.7		207.11	136.70	87.32	268.74		10.35	18.92	83.84	86.68	08-Jan-18 05:00:00		**217.46**	**155.62**	**171.16**	**355.42**
08-Jan-18 06:00:00	08-Jan-18 07:00:00		628.03	409.97	246.57	793.58	2.1	329.7		207.06	135.17	81.29	261.64		10.35	18.92	83.84	86.68	08-Jan-18 06:00:00		**217.41**	**154.09**	**165.13**	**348.32**
08-Jan-18 07:00:00	08-Jan-18 08:00:00		635.61	409.45	247.82	720.42	2.1	329.7		209.56	134.99	81.71	237.52		10.35	18.92	83.84	86.68	08-Jan-18 07:00:00		**219.91**	**153.91**	**165.55**	**324.20**
08-Jan-18 08:00:00	08-Jan-18 09:00:00		649.80	408.99	248.21	688.44	2.1	329.7		214.24	134.84	81.83	226.98		10.35	18.92	83.84	86.68	08-Jan-18 08:00:00		**224.59**	**153.76**	**165.67**	**313.66**
08-Jan-18 09:00:00	08-Jan-18 10:00:00		632.36	409.34	248.47	676.26	2.1	329.7		208.49	134.96	81.92	222.96		10.35	18.92	83.84	86.68	08-Jan-18 09:00:00		**218.84**	**153.88**	**165.76**	**309.64**
08-Jan-18 10:00:00	08-Jan-18 11:00:00		620.23	409.19	248.73	672.94	2.1	329.7		204.49	134.91	82.01	221.87		10.35	18.92	83.84	86.68	08-Jan-18 10:00:00		**214.84**	**153.83**	**165.85**	**308.55**
08-Jan-18 11:00:00	08-Jan-18 12:00:00		624.40	407.62	249.00	673.84	2.1	329.7		205.87	134.39	82.09	222.17		10.35	18.92	83.84	86.68	08-Jan-18 11:00:00		**216.22**	**153.31**	**165.93**	**308.85**
08-Jan-18 12:00:00	08-Jan-18 13:00:00		615.37	406.93	249.26	652.58	2.1	329.7		202.89	134.17	82.18	215.15		10.35	18.92	83.84	86.68	08-Jan-18 12:00:00		**213.24**	**153.09**	**166.02**	**301.83**
08-Jan-18 13:00:00	08-Jan-18 14:00:00		617.28	406.55	248.99	636.05	2.1	329.7		203.52	134.04	82.09	209.71		10.35	18.92	83.84	86.68	08-Jan-18 13:00:00		**213.87**	**152.96**	**165.93**	**296.39**
08-Jan-18 14:00:00	08-Jan-18 15:00:00		633.73	407.35	243.87	627.29	2.1	329.7		208.94	134.30	80.40	206.82		10.35	18.92	83.84	86.68	08-Jan-18 14:00:00		**219.29**	**153.22**	**164.24**	**293.50**
08-Jan-18 15:00:00	08-Jan-18 16:00:00		618.51	405.46	244.40	764.51	2.1	329.7		203.92	133.68	80.58	252.06		10.35	18.92	83.84	86.68	08-Jan-18 15:00:00		**214.27**	**152.60**	**164.42**	**334.74**
08-Jan-18 16:00:00	08-Jan-18 17:00:00		628.70	406.32	244.93	768.56	2.1	329.7		207.28	133.96	80.75	253.40		10.35	18.92	83.84	86.68	08-Jan-18 16:00:00		**217.63**	**152.88**	**164.59**	**340.08**
08-Jan-18 17:00:00	08-Jan-18 18:00:00		617.57	405.67	245.47	754.64	2.1	329.7		203.61	133.75	80.93	248.80		10.35	18.92	83.84	86.68	08-Jan-18 17:00:00		**213.96**	**152.67**	**164.77**	**335.48**
08-Jan-18 18:00:00	08-Jan-18 19:00:00		625.77	406.20	246.00	718.72	2.1	329.7		206.32	133.92	81.11	236.96		10.35	18.92	83.84	86.68	08-Jan-18 18:00:00		**216.67**	**152.84**	**164.95**	**323.64**
08-Jan-18 19:00:00	08-Jan-18 20:00:00		552.25	405.56	246.99	652.32	2.1	329.7		182.08	133.71	81.43	215.07		10.35	18.92	83.84	86.68	08-Jan-18 19:00:00		**192.43**	**152.63**	**165.27**	**301.75**
08-Jan-18 20:00:00	08-Jan-18 21:00:00		644.46	405.28	249.21	638.69	2.1	329.7		212.48	133.62	82.16	210.57		10.35	18.92	83.84	86.68	08-Jan-18 20:00:00		**222.83**	**152.54**	**166.00**	**297.25**
08-Jan-18 21:00:00	08-Jan-18 22:00:00		652.02	406.40	251.37	637.49	2.1	329.7		214.97	133.99	82.88	210.18		10.35	18.92	83.84	86.68	08-Jan-18 21:00:00		**225.32**	**152.91**	**166.72**	**296.86**
08-Jan-18 22:00:00	08-Jan-18 23:00:00		657.27	405.42	251.90	633.16	2.1	329.7		216.70	133.67	83.05	208.75		10.35	18.92	83.84	86.68	08-Jan-18 22:00:00		**227.05**	**152.59**	**166.89**	**295.43**
08-Jan-18 23:00:00	09-Jan-18 00:00:00		653.50	405.21	252.35	632.57	2.1	329.7		215.46	133.60	83.20	208.56		10.35	18.92	83.84	86.68	08-Jan-18 23:00:00		**225.81**	**152.52**	**167.04**	**295.24**
09-Jan-18 00:00:00	09-Jan-18 01:00:00		651.94	403.90	253.69	634.03	2.1	329.7		214.94	133.17	83.64	209.04		10.35	18.92	83.84	86.68	09-Jan-18 00:00:00		**225.29**	**152.09**	**167.48**	**295.72**
09-Jan-18 01:00:00	09-Jan-18 02:00:00		654.71	407.16	255.34	634.30	2.1	329.7		215.86	134.24	84.18	209.13		10.35	18.92	83.84	86.68	09-Jan-18 01:00:00		**226.21**	**153.16**	**168.02**	**295.81**
09-Jan-18 02:00:00	09-Jan-18 03:00:00		650.10	406.24	263.43	723.48	2.1	329.7		214.34	133.94	86.85	238.53		10.35	18.92	83.84	86.68	09-Jan-18 02:00:00		**224.69**	**152.86**	**170.69**	**325.21**
09-Jan-18 03:00:00	09-Jan-18 04:00:00		736.99	541.01	437.18	1,097.07	2.1	329.7		242.99	178.37	144.14	361.70		10.35	18.92	83.84	86.68	09-Jan-18 03:00:00		**253.34**	**197.29**	**227.98**	**448.38**
09-Jan-18 04:00:00	09-Jan-18 05:00:00		722.18	477.11	558.86	944.46	2.1	329.7		238.10	157.30	184.26	311.39		10.35	18.92	83.84	86.68	09-Jan-18 04:00:00		**248.45**	**176.22**	**268.10**	**398.07**
09-Jan-18 05:00:00	09-Jan-18 06:00:00		649.89	444.63	439.11	867.22	2.1	329.7		214.27	146.59	144.77	285.92		10.35	18.92	83.84	86.68	09-Jan-18 05:00:00		**224.62**	**165.51**	**228.61**	**372.60**
09-Jan-18 06:00:00	09-Jan-18 07:00:00		635.39	418.58	319.33	773.64	2.1	329.7		209.49	138.01	105.28	255.07		10.35	18.92	83.84	86.68	09-Jan-18 06:00:00		**219.84**	**156.93**	**189.12**	**341.75**
09-Jan-18 07:00:00	09-Jan-18 08:00:00		633.33	419.08	120.71	666.24	2.1	329.7		208.81	138.17	39.80	219.66		10.35	18.92	83.84	86.68	09-Jan-18 07:00:00		**219.16**	**157.09**	**123.64**	**306.34**
09-Jan-18 08:00:00	09-Jan-18 09:00:00		80.59	95.83	0.00	9.63	2.1	329.7		26.57	31.59	0.00	3.18		10.35	18.92	83.84	86.68	09-Jan-18 08:00:00		**36.92**	**50.51**	**83.84**	**89.86**
09-Jan-18 09:00:00	09-Jan-18 10:00:00		0.76	0.00	0.00	7.94	2.1	329.7		0.25	0.00	0.00	2.62		10.35	18.92	83.84	86.68	09-Jan-18 09:00:00		**10.60**	**18.92**	**83.84**	**89.30**
09-Jan-18 10:00:00	09-Jan-18 11:00:00		1.35	0.00	0.00	9.05	2.1	329.7		0.44	0.00	0.00	2.98		10.35	18.92	83.84	86.68	09-Jan-18 10:00:00		**10.79**	**18.92**	**83.84**	**89.66**
09-Jan-18 11:00:00	09-Jan-18 12:00:00		2.00	0.00	0.00	7.08	2.1	329.7		0.66	0.00	0.00	2.33		10.35	18.92	83.84	86.68	09-Jan-18 11:00:00		**11.01**	**18.92**	**83.84**	**89.01**
09-Jan-18 12:00:00	09-Jan-18 13:00:00		1.80	0.00	0.00	6.70	2.1	329.7		0.59	0.00	0.00	2.21		10.35	18.92	83.84	86.68	09-Jan-18 12:00:00		**10.94**	**18.92**	**83.84**	**88.89**
09-Jan-18 13:00:00	09-Jan-18 14:00:00		10.74	0.00	0.00	6.32	2.1	329.7		3.54	0.00	0.00	2.08		10.35	18.92	83.84	86.68	09-Jan-18 13:00:00		**13.89**	**18.92**	**83.84**	**88.76**
09-Jan-18 14:00:00	09-Jan-18 15:00:00		353.22	0.00	0.00	5.89	2.1	329.7		116.46	0.00	0.00	1.94		10.35	18.92	83.84	86.68	09-Jan-18 14:00:00		**126.81**	**18.92**	**83.84**	**88.62**
09-Jan-18 15:00:00	09-Jan-18 16:00:00		671.89	0.00	0.00	5.83	2.1	329.7		221.52	0.00	0.00	1.92		10.35	18.92	83.84	86.68	09-Jan-18 15:00:00		**231.87**	**18.92**	**83.84**	**88.60**
09-Jan-18 16:00:00	09-Jan-18 17:00:00		662.09	0.00	0.00	5.85	2.1	329.7		218.29	0.00	0.00	1.93		10.35	18.92	83.84	86.68	09-Jan-18 16:00:00		**228.64**	**18.92**	**83.84**	**88.61**
09-Jan-18 17:00:00	09-Jan-18 18:00:00		670.91	0.00	0.00	6.59	2.1	329.7		221.20	0.00	0.00	2.17		10.35	18.92	83.84	86.68	09-Jan-18 17:00:00		**231.55**	**18.92**	**83.84**	**88.85**
09-Jan-18 18:00:00	09-Jan-18 19:00:00		673.66	0.00	0.00	6.26	2.1	329.7		222.11	0.00	0.00	2.06		10.35	18.92	83.84	86.68	09-Jan-18 18:00:00		**232.46**	**18.92**	**83.84**	**88.74**
09-Jan-18 19:00:00	09-Jan-18 20:00:00		680.83	0.00	0.00	6.60	2.1	329.7		224.47	0.00	0.00	2.18		10.35	18.92	83.84	86.68	09-Jan-18 19:00:00		**234.82**	**18.92**	**83.84**	**88.86**
09-Jan-18 20:00:00	09-Jan-18 21:00:00		533.07	0.00	0.00	6.95	2.1	329.7		175.75	0.00	0.00	2.29		10.35	18.92	83.84	86.68	09-Jan-18 20:00:00		**186.10**	**18.92**	**83.84**	**88.97**
09-Jan-18 21:00:00	09-Jan-18 22:00:00		412.69	0.00	0.00	7.29	2.1	329.7		136.06	0.00	0.00	2.40		10.35	18.92	83.84	86.68	09-Jan-18 21:00:00		**146.41**	**18.92**	**83.84**	**89.08**
09-Jan-18 22:00:00	09-Jan-18 23:00:00		456.90	0.00	0.00	7.50	2.1	329.7		150.64	0.00	0.00	2.47		10.35	18.92	83.84	86.68	09-Jan-18 22:00:00		**160.99**	**18.92**	**83.84**	**89.15**
09-Jan-18 23:00:00	10-Jan-18 00:00:00		510.15	0.00	0.00	22.46	2.1	329.7		168.20	0.00	0.00	7.40		10.35	18.92	83.84	86.68	09-Jan-18 23:00:00		**178.55**	**18.92**	**83.84**	**94.08**
10-Jan-18 00:00:00	10-Jan-18 01:00:00		537.86	0.00	0.00	8.00	2.1	329.7		177.33	0.00	0.00	2.64		10.35	18.92	83.84	86.68	10-Jan-18 00:00:00		**187.68**	**18.92**	**83.84**	**89.32**
10-Jan-18 01:00:00	10-Jan-18 02:00:00		512.98	0.00	0.00	7.96	2.1	329.7		169.13	0.00	0.00	2.63		10.35	18.92	83.84	86.68	10-Jan-18 01:00:00		**179.48**	**18.92**	**83.84**	**89.31**
10-Jan-18 02:00:00	10-Jan-18 03:00:00		468.31	0.00	0.00	7.93	2.1	329.7		154.40	0.00	0.00	2.61		10.35	18.92	83.84	86.68	10-Jan-18 02:00:00		**164.75**	**18.92**	**83.84**	**89.29**
10-Jan-18 03:00:00	10-Jan-18 04:00:00		427.58	0.00	0.00	7.89	2.1	329.7		140.97	0.00	0.00	2.60		10.35	18.92	83.84	86.68	10-Jan-18 03:00:00		**151.32**	**18.92**	**83.84**	**89.28**
10-Jan-18 04:00:00	10-Jan-18 05:00:00		408.72	0.00	0.00	8.51	2.1	329.7		134.75	0.00	0.00	2.81		10.35	18.92	83.84	86.68	10-Jan-18 04:00:00		**145.10**	**18.92**	**83.84**	**89.49**
10-Jan-18 05:00:00	10-Jan-18 06:00:00		406.94	0.00	0.00	7.48	2.1	329.7		134.17	0.00	0.00	2.47		10.35	18.92	83.84	86.68	10-Jan-18 05:00:00		**144.52**	**18.92**	**83.84**	**89.15**
10-Jan-18 06:00:00	10-Jan-18 07:00:00		405.19	0.00	0.00	7.46	2.1	329.7		133.59	0.00	0.00	2.46		10.35	18.92	83.84	86.68	10-Jan-18 06:00:00		**143.94**	**18.92**	**83.84**	**89.14**
10-Jan-18 07:00:00	10-Jan-18 08:00:00		401.58	0.00	0.00	7.44	2.1	329.7		132.40	0.00	0.00	2.45		10.35	18.92	83.84	86.68	10-Jan-18 07:00:00		**142.75**	**18.92**	**83.84**	**89.13**
10-Jan-18 08:00:00	10-Jan-18 09:00:00		390.18	0.00	0.00	7.41	2.1	329.7		128.64	0.00	0.00	2.44		10.35	18.92	83.84	86.68	10-Jan-18 08:00:00		**138.99**	**18.92**	**83.84**	**89.12**
10-Jan-18 09:00:00	10-Jan-18 10:00:00		94.29	0.00	0.00	19.66	2.1	329.7		31.09	0.00	0.00	6.48		10.35	18.92	83.84	86.68	10-Jan-18 09:00:00		**41.44**	**18.92**	**83.84**	**93.16**
10-Jan-18 10:00:00	10-Jan-18 11:00:00		0.37	0.00	0.00	7.06	2.1	329.7		0.12	0.00	0.00	2.33		10.35	18.92	83.84	86.68	10-Jan-18 10:00:00		**10.47**	**18.92**	**83.84**	**89.01**
10-Jan-18 11:00:00	10-Jan-18 12:00:00		0.46	0.00	0.00	6.88	2.1	329.7		0.15	0.00	0.00	2.27		10.35	18.92	83.84	86.68	10-Jan-18 11:00:00		**10.50**	**18.92**	**83.84**	**88.95**
10-Jan-18 12:00:00	10-Jan-18 13:00:00		3.75	0.00	0.00	6.70	2.1	329.7		1.24	0.00	0.00	2.21		10.35	18.92	83.84	86.68	10-Jan-18 12:00:00		**11.59**	**18.92**	**83.84**	**88.89**
10-Jan-18 13:00:00	10-Jan-18 14:00:00		23.49	0.00	0.00	6.52	2.1	329.7		7.75	0.00	0.00	2.15		10.35	18.92	83.84	86.68	10-Jan-18 13:00:00		**18.10**	**18.92**	**83.84**	**88.83**
10-Jan-18 14:00:00	10-Jan-18 15:00:00		251.88	0.00	0.00	6.33	2.1	329.7		83.05	0.00	0.00	2.09		10.35	18.92	83.84	86.68	10-Jan-18 14:00:00		**93.40**	**18.92**	**83.84**	**88.77**
10-Jan-18 15:00:00	10-Jan-18 16:00:00		257.81	0.00	0.00	7.65	2.1	329.7		85.00	0.00	0.00	2.52		10.35	18.92	83.84	86.68	10-Jan-18 15:00:00		**95.35**	**18.92**	**83.84**	**89.20**
10-Jan-18 16:00:00	10-Jan-18 17:00:00		247.95	0.00	0.00	6.21	2.1	329.7		81.75	0.00	0.00	2.05		10.35	18.92	83.84	86.68	10-Jan-18 16:00:00		**92.10**	**18.92**	**83.84**	**88.73**
10-Jan-18 17:00:00	10-Jan-18 18:00:00		248.12	0.00	0.00	6.29	2.1	329.7		81.80	0.00	0.00	2.07		10.35	18.92	83.84	86.68	10-Jan-18 17:00:00		**92.15**	**18.92**	**83.84**	**88.75**
10-Jan-18 18:00:00	10-Jan-18 19:00:00		251.63	0.00	0.00	6.37	2.1	329.7		82.96	0.00	0.00	2.10		10.35	18.92	83.84	86.68	10-Jan-18 18:00:00		**93.31**	**18.92**	**83.84**	**88.78**
10-Jan-18 19:00:00	10-Jan-18 20:00:00		548.91	0.00	0.00	6.46	2.1	329.7		180.98	0.00	0.00	2.13		10.35	18.92	83.84	86.68	10-Jan-18 19:00:00		**191.33**	**18.92**	**83.84**	**88.81**

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
12-Jan-18 22:00:00	12-Jan-18 23:00:00		0.24	0.00	0.00	8.00	2.1	329.7		0.08	0.00	0.00	2.64		10.35	18.92	83.84	86.68	12-Jan-18 22:00:00		**10.43**	**18.92**	**83.84**	**89.32**
12-Jan-18 23:00:00	13-Jan-18 00:00:00		0.08	0.00	0.00	8.20	2.1	329.7		0.03	0.00	0.00	2.70		10.35	18.92	83.84	86.68	12-Jan-18 23:00:00		**10.38**	**18.92**	**83.84**	**89.38**
13-Jan-18 00:00:00	13-Jan-18 01:00:00		5.06	0.00	0.00	8.40	2.1	329.7		1.67	0.00	0.00	2.77		10.35	18.92	83.84	86.68	13-Jan-18 00:00:00		**12.02**	**18.92**	**83.84**	**89.45**
13-Jan-18 01:00:00	13-Jan-18 02:00:00		7.55	0.00	0.00	8.95	2.1	329.7		2.49	0.00	0.00	2.95		10.35	18.92	83.84	86.68	13-Jan-18 01:00:00		**12.84**	**18.92**	**83.84**	**89.63**
13-Jan-18 02:00:00	13-Jan-18 03:00:00		16.63	0.00	0.00	10.32	2.1	329.7		5.48	0.00	0.00	3.40		10.35	18.92	83.84	86.68	13-Jan-18 02:00:00		**15.83**	**18.92**	**83.84**	**90.08**
13-Jan-18 03:00:00	13-Jan-18 04:00:00		23.34	0.00	0.00	22.97	2.1	329.7		7.70	0.00	0.00	7.57		10.35	18.92	83.84	86.68	13-Jan-18 03:00:00		**18.05**	**18.92**	**83.84**	**94.25**
13-Jan-18 04:00:00	13-Jan-18 05:00:00		13.38	0.00	0.00	9.90	2.1	329.7		4.41	0.00	0.00	3.26		10.35	18.92	83.84	86.68	13-Jan-18 04:00:00		**14.76**	**18.92**	**83.84**	**89.94**
13-Jan-18 05:00:00	13-Jan-18 06:00:00		21.00	0.00	0.00	9.82	2.1	329.7		6.92	0.00	0.00	3.24		10.35	18.92	83.84	86.68	13-Jan-18 05:00:00		**17.27**	**18.92**	**83.84**	**89.92**
13-Jan-18 06:00:00	13-Jan-18 07:00:00		8.91	0.00	0.00	9.74	2.1	329.7		2.94	0.00	0.00	3.21		10.35	18.92	83.84	86.68	13-Jan-18 06:00:00		**13.29**	**18.92**	**83.84**	**89.89**
13-Jan-18 07:00:00	13-Jan-18 08:00:00		10.62	0.00	0.00	600.07	2.1	329.7		3.50	0.00	0.00	197.84		10.35	18.92	83.84	86.68	13-Jan-18 07:00:00		**13.85**	**18.92**	**83.84**	**284.52**
13-Jan-18 08:00:00	13-Jan-18 09:00:00		183.07	0.00	0.00	591.68	2.1	329.7		60.36	0.00	0.00	195.08		10.35	18.92	83.84	86.68	13-Jan-18 08:00:00		**70.71**	**18.92**	**83.84**	**281.76**
13-Jan-18 09:00:00	13-Jan-18 10:00:00		678.56	0.00	0.00	576.52	2.1	329.7		223.72	0.00	0.00	190.08		10.35	18.92	83.84	86.68	13-Jan-18 09:00:00		**234.07**	**18.92**	**83.84**	**276.76**
13-Jan-18 10:00:00	13-Jan-18 11:00:00		688.64	0.00	0.00	563.22	2.1	329.7		227.04	0.00	0.00	185.70		10.35	18.92	83.84	86.68	13-Jan-18 10:00:00		**237.39**	**18.92**	**83.84**	**272.38**
13-Jan-18 11:00:00	13-Jan-18 12:00:00		698.00	0.00	0.00	567.35	2.1	329.7		230.13	0.00	0.00	187.06		10.35	18.92	83.84	86.68	13-Jan-18 11:00:00		**240.48**	**18.92**	**83.84**	**273.74**
13-Jan-18 12:00:00	13-Jan-18 13:00:00		498.88	0.00	0.00	560.66	2.1	329.7		164.48	0.00	0.00	184.85		10.35	18.92	83.84	86.68	13-Jan-18 12:00:00		**174.83**	**18.92**	**83.84**	**271.53**
13-Jan-18 13:00:00	13-Jan-18 14:00:00		279.72	0.00	0.00	619.94	2.1	329.7		92.22	0.00	0.00	204.39		10.35	18.92	83.84	86.68	13-Jan-18 13:00:00		**102.57**	**18.92**	**83.84**	**291.07**
13-Jan-18 14:00:00	13-Jan-18 15:00:00		280.04	0.00	0.00	657.68	2.1	329.7		92.33	0.00	0.00	216.84		10.35	18.92	83.84	86.68	13-Jan-18 14:00:00		**102.68**	**18.92**	**83.84**	**303.52**
13-Jan-18 15:00:00	13-Jan-18 16:00:00		280.79	0.00	0.00	553.68	2.1	329.7		92.58	0.00	0.00	182.55		10.35	18.92	83.84	86.68	13-Jan-18 15:00:00		**102.93**	**18.92**	**83.84**	**269.23**
13-Jan-18 16:00:00	13-Jan-18 17:00:00		321.61	0.00	0.00	622.24	2.1	329.7		106.03	0.00	0.00	205.15		10.35	18.92	83.84	86.68	13-Jan-18 16:00:00		**116.38**	**18.92**	**83.84**	**291.83**
13-Jan-18 17:00:00	13-Jan-18 18:00:00		330.70	0.00	0.00	614.67	2.1	329.7		109.03	0.00	0.00	202.66		10.35	18.92	83.84	86.68	13-Jan-18 17:00:00		**119.38**	**18.92**	**83.84**	**289.34**
13-Jan-18 18:00:00	13-Jan-18 19:00:00		384.91	0.00	0.00	536.13	2.1	329.7		126.90	0.00	0.00	176.76		10.35	18.92	83.84	86.68	13-Jan-18 18:00:00		**137.25**	**18.92**	**83.84**	**263.44**
13-Jan-18 19:00:00	13-Jan-18 20:00:00		421.70	0.00	0.00	502.91	2.1	329.7		139.04	0.00	0.00	165.81		10.35	18.92	83.84	86.68	13-Jan-18 19:00:00		**149.39**	**18.92**	**83.84**	**252.49**
13-Jan-18 20:00:00	13-Jan-18 21:00:00		324.00	0.00	0.00	529.28	2.1	329.7		106.82	0.00	0.00	174.50		10.35	18.92	83.84	86.68	13-Jan-18 20:00:00		**117.17**	**18.92**	**83.84**	**261.18**
13-Jan-18 21:00:00	13-Jan-18 22:00:00		330.68	0.00	0.00	484.36	2.1	329.7		109.02	0.00	0.00	159.69		10.35	18.92	83.84	86.68	13-Jan-18 21:00:00		**119.37**	**18.92**	**83.84**	**246.37**
13-Jan-18 22:00:00	13-Jan-18 23:00:00		487.11	0.00	0.00	472.35	2.1	329.7		160.60	0.00	0.00	155.73		10.35	18.92	83.84	86.68	13-Jan-18 22:00:00		**170.95**	**18.92**	**83.84**	**242.41**
13-Jan-18 23:00:00	14-Jan-18 00:00:00		505.24	0.00	0.00	482.56	2.1	329.7		166.58	0.00	0.00	159.10		10.35	18.92	83.84	86.68	13-Jan-18 23:00:00		**176.93**	**18.92**	**83.84**	**245.78**
14-Jan-18 00:00:00	14-Jan-18 01:00:00		451.77	0.00	0.00	395.62	2.1	329.7		148.95	0.00	0.00	130.44		10.35	18.92	83.84	86.68	14-Jan-18 00:00:00		**159.30**	**18.92**	**83.84**	**217.12**
14-Jan-18 01:00:00	14-Jan-18 02:00:00		468.33	0.00	0.00	372.15	2.1	329.7		154.41	0.00	0.00	122.70		10.35	18.92	83.84	86.68	14-Jan-18 01:00:00		**164.76**	**18.92**	**83.84**	**209.38**
14-Jan-18 02:00:00	14-Jan-18 03:00:00		470.44	0.00	0.00	369.13	2.1	329.7		155.10	0.00	0.00	121.70		10.35	18.92	83.84	86.68	14-Jan-18 02:00:00		**165.45**	**18.92**	**83.84**	**208.38**
14-Jan-18 03:00:00	14-Jan-18 04:00:00		466.31	0.00	0.00	370.04	2.1	329.7		153.74	0.00	0.00	122.00		10.35	18.92	83.84	86.68	14-Jan-18 03:00:00		**164.09**	**18.92**	**83.84**	**208.68**
14-Jan-18 04:00:00	14-Jan-18 05:00:00		485.05	0.00	0.00	371.37	2.1	329.7		159.92	0.00	0.00	122.44		10.35	18.92	83.84	86.68	14-Jan-18 04:00:00		**170.27**	**18.92**	**83.84**	**209.12**
14-Jan-18 05:00:00	14-Jan-18 06:00:00		545.50	0.00	0.00	450.73	2.1	329.7		179.85	0.00	0.00	148.61		10.35	18.92	83.84	86.68	14-Jan-18 05:00:00		**190.20**	**18.92**	**83.84**	**235.29**
14-Jan-18 06:00:00	14-Jan-18 07:00:00		524.49	0.00	0.00	426.25	2.1	329.7		172.92	0.00	0.00	140.53		10.35	18.92	83.84	86.68	14-Jan-18 06:00:00		**183.27**	**18.92**	**83.84**	**227.21**
14-Jan-18 07:00:00	14-Jan-18 08:00:00		550.78	0.00	0.00	571.73	2.1	329.7		181.59	0.00	0.00	188.50		10.35	18.92	83.84	86.68	14-Jan-18 07:00:00		**191.94**	**18.92**	**83.84**	**275.18**
14-Jan-18 08:00:00	14-Jan-18 09:00:00		544.86	0.00	0.00	600.51	2.1	329.7		179.64	0.00	0.00	197.99		10.35	18.92	83.84	86.68	14-Jan-18 08:00:00		**189.99**	**18.92**	**83.84**	**284.67**
14-Jan-18 09:00:00	14-Jan-18 10:00:00		542.58	0.00	0.00	591.95	2.1	329.7		178.89	0.00	0.00	195.16		10.35	18.92	83.84	86.68	14-Jan-18 09:00:00		**189.24**	**18.92**	**83.84**	**281.84**
14-Jan-18 10:00:00	14-Jan-18 11:00:00		704.28	0.00	0.00	506.08	2.1	329.7		232.20	0.00	0.00	166.85		10.35	18.92	83.84	86.68	14-Jan-18 10:00:00		**242.55**	**18.92**	**83.84**	**253.53**
14-Jan-18 11:00:00	14-Jan-18 12:00:00		973.03	0.00	0.00	354.21	2.1	329.7		320.81	0.00	0.00	116.78		10.35	18.92	83.84	86.68	14-Jan-18 11:00:00		**331.16**	**18.92**	**83.84**	**203.46**
14-Jan-18 12:00:00	14-Jan-18 13:00:00		999.95	2.22	0.00	835.33	2.1	329.7		329.68	0.73	0.00	275.41		10.35	18.92	83.84	86.68	14-Jan-18 12:00:00		**340.03**	**19.65**	**83.84**	**362.09**
14-Jan-18 13:00:00	14-Jan-18 14:00:00		870.67	219.97	0.00	1,073.84	2.1	329.7		287.06	72.53	0.00	354.04		10.35	18.92	83.84	86.68	14-Jan-18 13:00:00		**297.41**	**91.45**	**83.84**	**440.72**
14-Jan-18 14:00:00	14-Jan-18 15:00:00		945.08	383.41	0.00	1,043.43	2.1	329.7		311.59	126.41	0.00	344.02		10.35	18.92	83.84	86.68	14-Jan-18 14:00:00		**321.94**	**145.33**	**83.84**	**430.70**
14-Jan-18 15:00:00	14-Jan-18 16:00:00		957.75	210.68	0.00	1,068.50	2.1	329.7		315.77	69.46	0.00	352.28		10.35	18.92	83.84	86.68	14-Jan-18 15:00:00		**326.12**	**88.38**	**83.84**	**438.96**
14-Jan-18 16:00:00	14-Jan-18 17:00:00		970.73	409.45	0.00	1,174.02	2.1	329.7		320.05	135.00	0.00	387.08		10.35	18.92	83.84	86.68	14-Jan-18 16:00:00		**330.40**	**153.92**	**83.84**	**473.76**
14-Jan-18 17:00:00	14-Jan-18 18:00:00		971.68	363.33	6.94	1,080.35	2.1	329.7		320.36	119.79	2.29	356.19		10.35	18.92	83.84	86.68	14-Jan-18 17:00:00		**330.71**	**138.71**	**86.13**	**442.87**
14-Jan-18 18:00:00	14-Jan-18 19:00:00		999.20	207.72	4.22	1,224.51	2.1	329.7		329.44	68.49	1.39	403.72		10.35	18.92	83.84	86.68	14-Jan-18 18:00:00		**339.79**	**87.41**	**85.23**	**490.40**
14-Jan-18 19:00:00	14-Jan-18 20:00:00		1,064.86	354.50	0.00	1,377.33	2.1	329.7		351.09	116.88	0.00	454.10		10.35	18.92	83.84	86.68	14-Jan-18 19:00:00		**361.44**	**135.80**	**83.84**	**540.78**
14-Jan-18 20:00:00	14-Jan-18 21:00:00		1,051.15	353.34	0.00	1,215.85	2.1	329.7		346.57	116.49	0.00	400.87		10.35	18.92	83.84	86.68	14-Jan-18 20:00:00		**356.92**	**135.41**	**83.84**	**487.55**
14-Jan-18 21:00:00	14-Jan-18 22:00:00		965.94	355.01	0.00	1,485.96	2.1	329.7		318.47	117.05	0.00	489.92		10.35	18.92	83.84	86.68	14-Jan-18 21:00:00		**328.82**	**135.97**	**83.84**	**576.60**
14-Jan-18 22:00:00	14-Jan-18 23:00:00		951.67	352.46	0.00	1,517.54	2.1	329.7		313.77	116.20	0.00	500.33		10.35	18.92	83.84	86.68	14-Jan-18 22:00:00		**324.12**	**135.12**	**83.84**	**587.01**
14-Jan-18 23:00:00	15-Jan-18 00:00:00		876.35	381.54	0.00	1,626.71	2.1	329.7		288.93	125.79	0.00	536.33		10.35	18.92	83.84	86.68	14-Jan-18 23:00:00		**299.28**	**144.71**	**83.84**	**623.01**
15-Jan-18 00:00:00	15-Jan-18 01:00:00		918.06	634.06	0.00	1,658.32	2.1	329.7		302.69	209.05	0.00	546.75		10.35	18.92	83.84	86.68	15-Jan-18 00:00:00		**313.04**	**227.97**	**83.84**	**633.43**
15-Jan-18 01:00:00	15-Jan-18 02:00:00		979.88	1,038.81	0.00	1,460.04	2.1	329.7		323.07	342.50	0.00	481.38		10.35	18.92	83.84	86.68	15-Jan-18 01:00:00		**333.42**	**361.42**	**83.84**	**568.06**
15-Jan-18 02:00:00	15-Jan-18 03:00:00		1,008.49	1,063.61	6.51	1,491.63	2.1	329.7		332.50	350.67	2.15	491.79		10.35	18.92	83.84	86.68	15-Jan-18 02:00:00		**342.85**	**369.59**	**85.99**	**578.47**
15-Jan-18 03:00:00	15-Jan-18 04:00:00		1,060.72	1,062.80	331.70	1,681.43	2.1	329.7		349.72	350.40	109.36	554.37		10.35	18.92	83.84	86.68	15-Jan-18 03:00:00		**360.07**	**369.32**	**193.20**	**641.05**
15-Jan-18 04:00:00	15-Jan-18 05:00:00		1,064.10	1,061.09	332.48	1,713.50	2.1	329.7		350.83	349.84	109.62	564.94		10.35	18.92	83.84	86.68	15-Jan-18 04:00:00		**361.18**	**368.76**	**193.46**	**651.62**
15-Jan-18 05:00:00	15-Jan-18 06:00:00		1,048.59	1,060.97	329.54	1,726.85	2.1	329.7		345.72	349.80	108.65	569.34		10.35	18.92	83.84	86.68	15-Jan-18 05:00:00		**356.07**	**368.72**	**192.49**	**656.02**
15-Jan-18 06:00:00	15-Jan-18 07:00:00		981.59	1,062.79	326.96	1,727.48	2.1	329.7		323.63	350.40	107.80	569.55		10.35	18.92	83.84	86.68	15-Jan-18 06:00:00		**333.98**	**369.32**	**191.64**	**656.23**
15-Jan-18 07:00:00	15-Jan-18 08:00:00		976.08	1,054.42	324.50	1,722.21	2.1	329.7		321.82	350.94	106.99	567.81		10.35	18.92	83.84	86.68	15-Jan-18 07:00:00		**332.17**	**369.86**	**190.84**	**654.49**
15-Jan-18 08:00:00	15-Jan-18 09:00:00		970.95	1,063.16	321.35	1,721.49	2.1	329.7		320.12	350.53	105.95	567.58		10.35	18.92	83.84	86.68	15-Jan-18 08:00:00		**330.47**	**369.45**	**189.79**	**654.26**
15-Jan-18 09:00:00	15-Jan-18 10:00:00		985.22	1,060.92	320.50	1,697.68	2.1	329.7		324.83	349.78	105.67	559.73		10.35	18.92	83.84	86.68	15-Jan-18 09:00:00		**335.18**	**368.70**	**189.51**	**646.41**
15-Jan-18 10:00:00	15-Jan-18 11:00:00		989.95	1,063.35	304.31	1,732.91	2.1	329.7		326.39	350.59	100.33	571.34		10.35	18.92	83.84	86.68	15-Jan-18 10:00:00		**336.74**	**369.51**	**184.17**	**658.02**
15-Jan-18 11:00:00	15-Jan-18 12:00:00		981.09	1,063.29	257.22	1,725.34	2.1	329.7		323.46	350.57	84.80	568.84		10.35	18.92	83.84	86.68	15-Jan-18 11:00:00		**333.81**	**369.49**	**168.64**	**655.52**
15-Jan-18 12:00:00	15-Jan-18 13:00:00		949.02	1,030.15	0.00	1,729.12	2.1	329.7		312.89	339.64	0.00	570.09		10.35	18.92	83.84	86.68	15-Jan-18 12:00:00		**323.24**	**358.56**	**83.84**	**656.77**
15-Jan-18 13:00:00	15-Jan-18 14:00:00		738.23	874.42	0.00	1,786.94	2.1	329.7		243.40	288.30	0.00	589.15		10.35	18.92	83.84	86.68	15-Jan-18 13:00:00		**253.75**	**307.22**	**83.84**	**675.83**
15-Jan-18 14:00:00	15-Jan-18 15:00:00		810.71	1,015.98	0.00	1,478.55	2.1	329.7		267.29	334.97	0.00	487.48		10.35	18.92	83.84	86.68	15-Jan-18 14:00:00		**277.64**	**353.89**	**83.84**	**574.16**
15-Jan-18 15:00:00	15-Jan-18 16:00:00		800.34	1,081.57	0.00	1,368.29	2.1	329.7		263.87	356.59	0.00	451.13		10.35	18.92	83.84	86.68	15-Jan-18 15:00:00		**274.22**	**375.51**	**83.84**	**537.81**
15-Jan-18 16:00:00	15-Jan-18 17:00:00		814.40	1,065.01	0.00	1,373.70	2.1	329.7		268.51	351.13	0.00	452.91		10.35	18.92	83.84	86.68	15-Jan-18 16:00:00		**278.86**	**370.05**	**83.84**	**539.59**
15-Jan-18 17:00:00	15-Jan-18 18:00:00		814.01	1,066.28	0.00	1,357.20	2.1	329.7		268.38	351.55	0.00	447.47		10.35	18.92	83.84	86.68	15-Jan-18 17:00:00		**278.73**	**370.47**	**83.84**	**534.15**
15-Jan-18 18:00:00	15-Jan-18 19:00:00		556.24	1,067.72	0.00	1,266.70	2.1	329.7		183.39	352.03	0.00	417.63		10.35	18.92	83.84	86.68	15-Jan-18 18:00:00		**193.74**	**370.95**	**83.84**	**504.31**
15-Jan-18 19:00:00	15-Jan-18 20:00:00		584.55	962.22	0.00	594.51	2.1	329.7		192.73	317.24	0.00	196.01		10.35	18.92	83.84	86.68	15-Jan-18 19:00:00		**203.08**	**336.16**	**83.84**	**282.69**
15-Jan-18 20:00:00	15-Jan-18 21:00:00		550.46	828.49	0.00	521.82	2.1	329.7		181.49	273.15	0.00	172.04		10.35	18.92	83.84	86.68	15-Jan-18 20:00:00		**191.84**	**292.07**	**83.84**	**258.72**
15-Jan-18 21:00:00	15-Jan-18 22:00:00		521.15	729.29	0.00	515.56	2.1	329.7		171.82	240.45	0.00	169.98		10.35	18.92	83.84	86.68	15-Jan-18 21:00:00		**182.17**	**259.37**	**83.84**	**256.66**
15-Jan-18 22:00:00	15-Jan-18 23:00:00		513.64	642.00	0.00	517.91	2.1	329.7		169.35	211.67	0.00	170.76		10.35	18.92	83.84	86.68	15-Jan-18 22:00:00		**179.70**	**230.59**	**83.84**	**257.44**
15-Jan-18 23:00:00	16-Jan-18 00:00:00		516.83	666.61	0.00	655.05	2.1	329.7		170.40	219.78	0.00	215.97		10.35	18.92	83.84	86.68	15-Jan-18 23:00:00		**180.75**	**238.70**	**83.84**	**303.29**
16-Jan-18 00:00:00	16-Jan-18 01:00:00		516.32	659.44	0.00	651.23	2.1	329.7		170.23	217.42	0.00	214.71		10.35	18.92	83.84	86.68	16-Jan-18 00:00:00		**180.58**	**236.34**	**83.84**	**301.39**
16-Jan-18 01:00:00	16-Jan-18 02:00:00		428.68	658.29	0.00	672.48	2.1	329.7		141.34	217.04	0.00	221.72		10.35	18.92	83.84	86.68	16-Jan-18 01:00:00		**151.69**	**235.96**	**83.84**	**308.40**
16-Jan-18 02:00:00	16-Jan-18 03:00:00		292.19	657.78	0.00	603.51	2.1	329.7		96.34	216.87	0.00	198.98		10.35	18.92	83.84	86.68	16-Jan-18 02:00:00		**106.69**	**235.79**	**83.84**	**285.66**
16-Jan-18 03:00:00	16-Jan-18 04:00:00		301.88	614.42	0.00	566.27	2.1	329.7		99.53	202.57	0.00	186.70		10.35	18.92	83.84	86.68	16-Jan-18 03:00:00		**109.88**	**221.49**	**83.84**	**273.38**
16-Jan-18 04:00:00	16-Jan-18 05:00:00		329.42	656.97	0.00	742.11	2.1	329.7		108.61	216.60	0.00	244.67		10.35	18.92	83.84	86.68	16-Jan-18 04:00:00		**118.96**	**235.52**	**83.84**	**331.35**
16-Jan-18 05:00:00	16-Jan-18 06:00:00		343.91	760.67	0.00	586.48	2.1	329.7		113.39	250.79	0.00	193.36		10.35	18.92	83.84	86.68	16-Jan-18 05:00:00		**123.74**	**269.71**	**83.84**	**280.04**
16-Jan-18 06:00:00	16-Jan-18 07:00:00		344.72	829.34	0.00	564.64	2.1	329.7		113.65	273.43	0.00	186.16		10.35	18.92	83.84	86.68	16-Jan-18 06:00:00		**124.00**	**292.35**	**83.84**	**272.84**
16-Jan-18 07:00:00	16-Jan-18 08:00:00		353.45	840.60	0.00	697.77	2.1	329.7		116.53	277.15	0.00	230.05		10.35	18.92	83.84	86.68	16-Jan-18 07:00:00		**126.88**	**296.07**	**83.84**	**316.73**
16-Jan-18 08:00:00	16-Jan-18 09:00:00		384.18	762.62	0.00	652.69	2.1	329.7		126.66	251.43	0.00	215.19		10.35	18.92	83.84	86.68	16-Jan-18 08:00:00		**137.01**	**270.35**	**83.84**	**301.87**
16-Jan-18 09:00:00	16-Jan-18 10:00:00		728.32	659.25	0.00	1,519.00	2.1	329.7		240.13	217.35	0.00	500.82		10.35	18.92	83.84	86.68	16-Jan-18 09:00:00		**250.48**	**236.27**	**83.84**	**587.50**
16-Jan-18 10:00:00	16-Jan-18 11:00:00		672.99	657.87	0.00	1,563.95	2.1	329.7		221.88	216.90	0.00	515.63		10.35	18.92	83.84	86.68	16-Jan-18 10:00:00		**232.23**	**235.82**	**83.84**	**602.31**
16-Jan-18 11:00:00	16-Jan-18 12:00:00		669.46	687.41	0.00	1,561.23	2.1	329.7		220.72	226.64	0.00	514.74		10.35	18.92	83.84	86.68	16-Jan-18 11:00:00		**231.07**	**245.56**	**83.84**	**601.42**
16-Jan-18 12:00:00	16-Jan-18 13:00:00		662.82	688.98	0.00	1,561.97	2.1	329.7		218.53	227.16	0.00	514.98		10.35	18.92	83.84	86.68	16-Jan-18 12:00:00		**228.88**	**246.08**	**83.84**	**601.66**
16-Jan-18 13:00:00	16-Jan-18 14:00:00		680.04	560.21	0.00	1,596.77	2.1	329.7		224.21	184.70	0.00	526.45		10.35	18.92	83.84	86.68	16-Jan-18 13:00:00		**234.56**	**203.62**	**83.84**	**613.13**
16-Jan-18 14:00:00	16-Jan-18 15:00:00		689.69	535.46	0.00	1,541.84	2.1	329.7		227.39	176.54	0.00	508.34		10.35	18.92	83.84	86.68	16-Jan-18 14:00:00		**237.74**	**195.46**	**83.84**	**595.02**
16-Jan-18 15:00:00	16-Jan-18 16:00:00		681.99	534.40	0.00	1,435.81	2.1	329.7		224.85	176.19	0.00	473.39		10.35	18.92	83.84	86.68	16-Jan-18 15:00:00		**235.20**	**195.11**	**83.84**	**560.07**
16-Jan-18 16:00:00	16-Jan-18 17:00:00		682.07	534.99	0.00	1,418.01	2.1	329.7		224.88	176.39	0.00	467.52		10.35	18.92	83.84	86.68	16-Jan-18 16:00:00		**235.23**	**195.31**	**83.84**	**554.26**
16-Jan-18 17:00:00	16-Jan-18 18:00:00		680.06	535.29	0.00	1,248.36	2.1	329.7		224.22	176.48	0.00	411.59		10.35	18.92	83.84	86.68	16-Jan-18 17:00:00		**234.57**	**195.40**	**83.84**	**498.27**
16-Jan-18 18:00:00	16-Jan-18 19:00:00		685.52	535.12	0.00	502.03	2.1	329.7		226.02	176.43	0.00	165.52	

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
18-Jan-18 21:00:00	18-Jan-18 22:00:00		1,170.27	1,370.62	0.00	2,137.34	2.1	329.7		385.84	451.89	0.00	704.68		10.35	18.92	83.84	86.68	18-Jan-18 21:00:00		**396.19**	**470.81**	**83.84**	**791.36**
18-Jan-18 22:00:00	18-Jan-18 23:00:00		1,849.08	1,371.19	0.00	2,131.91	2.1	329.7		609.64	452.08	0.00	702.89		10.35	18.92	83.84	86.68	18-Jan-18 22:00:00		**619.99**	**471.00**	**83.84**	**789.57**
18-Jan-18 23:00:00	19-Jan-18 00:00:00		1,891.84	1,366.56	0.00	2,124.84	2.1	329.7		623.74	450.55	0.00	700.56		10.35	18.92	83.84	86.68	18-Jan-18 23:00:00		**634.09**	**469.47**	**83.84**	**787.24**
19-Jan-18 00:00:00	19-Jan-18 01:00:00		1,774.82	1,364.81	0.00	2,111.78	2.1	329.7		585.16	449.98	0.00	696.26		10.35	18.92	83.84	86.68	19-Jan-18 00:00:00		**595.51**	**468.90**	**83.84**	**782.94**
19-Jan-18 01:00:00	19-Jan-18 02:00:00		1,802.43	1,369.52	0.00	2,132.09	2.1	329.7		594.26	451.53	0.00	702.95		10.35	18.92	83.84	86.68	19-Jan-18 01:00:00		**604.61**	**470.45**	**83.84**	**789.63**
19-Jan-18 02:00:00	19-Jan-18 03:00:00		761.87	491.52	1.56	2,014.25	2.1	329.7		251.19	162.05	0.52	664.10		10.35	18.92	83.84	86.68	19-Jan-18 02:00:00		**261.54**	**180.97**	**84.36**	**750.78**
19-Jan-18 03:00:00	19-Jan-18 04:00:00		738.34	0.00	0.00	1,985.89	2.1	329.7		243.43	0.00	0.00	654.75		10.35	18.92	83.84	86.68	19-Jan-18 03:00:00		**253.78**	**18.92**	**83.84**	**741.43**
19-Jan-18 04:00:00	19-Jan-18 05:00:00		655.52	72.51	204.22	1,284.04	2.1	329.7		216.12	23.91	67.33	423.35		10.35	18.92	83.84	86.68	19-Jan-18 04:00:00		**226.47**	**42.83**	**151.17**	**510.03**
19-Jan-18 05:00:00	19-Jan-18 06:00:00		7.71	691.67	38.34	566.73	2.1	329.7		2.54	228.04	12.64	186.85		10.35	18.92	83.84	86.68	19-Jan-18 05:00:00		**12.89**	**246.96**	**96.48**	**273.53**
19-Jan-18 06:00:00	19-Jan-18 07:00:00		0.00	0.00	0.00	861.62	2.1	329.7		0.00	0.00	0.00	284.08		10.35	18.92	83.84	86.68	19-Jan-18 06:00:00		**10.35**	**18.92**	**83.84**	**370.76**
19-Jan-18 07:00:00	19-Jan-18 08:00:00		0.00	987.80	0.00	1,066.55	2.1	329.7		0.00	325.68	0.00	351.64		10.35	18.92	83.84	86.68	19-Jan-18 07:00:00		**10.35**	**344.60**	**83.84**	**438.32**
19-Jan-18 08:00:00	19-Jan-18 09:00:00		286.58	1,327.22	0.00	998.08	2.1	329.7		94.49	437.58	0.00	329.07		10.35	18.92	83.84	86.68	19-Jan-18 08:00:00		**104.84**	**456.50**	**83.84**	**415.75**
19-Jan-18 09:00:00	19-Jan-18 10:00:00		807.76	1,336.49	0.00	483.21	2.1	329.7		266.32	440.64	0.00	159.31		10.35	18.92	83.84	86.68	19-Jan-18 09:00:00		**276.67**	**459.56**	**83.84**	**245.99**
19-Jan-18 10:00:00	19-Jan-18 11:00:00		1,358.77	1,337.20	0.00	407.46	2.1	329.7		447.99	440.87	0.00	134.34		10.35	18.92	83.84	86.68	19-Jan-18 10:00:00		**458.34**	**459.79**	**83.84**	**221.02**
19-Jan-18 11:00:00	19-Jan-18 12:00:00		1,064.96	1,341.58	0.00	444.35	2.1	329.7		351.12	442.32	0.00	146.50		10.35	18.92	83.84	86.68	19-Jan-18 11:00:00		**361.47**	**461.24**	**83.84**	**233.18**
19-Jan-18 12:00:00	19-Jan-18 13:00:00		1,564.43	1,597.99	0.00	279.73	2.1	329.7		515.79	526.86	0.00	92.23		10.35	18.92	83.84	86.68	19-Jan-18 12:00:00		**526.14**	**545.78**	**83.84**	**178.91**
19-Jan-18 13:00:00	19-Jan-18 14:00:00		1,562.67	1,638.03	0.00	328.54	2.1	329.7		515.21	540.06	0.00	108.32		10.35	18.92	83.84	86.68	19-Jan-18 13:00:00		**525.56**	**558.98**	**83.84**	**195.00**
19-Jan-18 14:00:00	19-Jan-18 15:00:00		1,586.01	1,634.50	0.00	416.41	2.1	329.7		522.91	538.89	0.00	137.29		10.35	18.92	83.84	86.68	19-Jan-18 14:00:00		**533.26**	**557.81**	**83.84**	**223.97**
19-Jan-18 15:00:00	19-Jan-18 16:00:00		1,591.24	1,633.33	0.00	393.89	2.1	329.7		524.63	538.51	0.00	129.86		10.35	18.92	83.84	86.68	19-Jan-18 15:00:00		**534.98**	**557.43**	**83.84**	**216.54**
19-Jan-18 16:00:00	19-Jan-18 17:00:00		1,598.09	1,633.84	0.00	376.33	2.1	329.7		526.89	538.68	0.00	124.08		10.35	18.92	83.84	86.68	19-Jan-18 16:00:00		**537.24**	**557.60**	**83.84**	**210.76**
19-Jan-18 17:00:00	19-Jan-18 18:00:00		1,602.54	1,632.88	0.00	325.90	2.1	329.7		528.36	538.36	0.00	107.45		10.35	18.92	83.84	86.68	19-Jan-18 17:00:00		**538.71**	**557.28**	**83.84**	**194.13**
19-Jan-18 18:00:00	19-Jan-18 19:00:00		1,611.55	1,634.99	0.00	245.72	2.1	329.7		531.33	539.06	0.00	81.01		10.35	18.92	83.84	86.68	19-Jan-18 18:00:00		**541.68**	**557.98**	**83.84**	**167.69**
19-Jan-18 19:00:00	19-Jan-18 20:00:00		1,609.44	1,637.12	0.00	243.54	2.1	329.7		530.63	539.76	0.00	80.30		10.35	18.92	83.84	86.68	19-Jan-18 19:00:00		**540.98**	**558.68**	**83.84**	**166.98**
19-Jan-18 20:00:00	19-Jan-18 21:00:00		1,466.12	1,639.00	0.00	243.56	2.1	329.7		483.38	540.38	0.00	80.30		10.35	18.92	83.84	86.68	19-Jan-18 20:00:00		**493.73**	**559.30**	**83.84**	**166.98**
19-Jan-18 21:00:00	19-Jan-18 22:00:00		1,014.63	1,101.81	0.00	244.94	2.1	329.7		334.52	363.27	0.00	80.76		10.35	18.92	83.84	86.68	19-Jan-18 21:00:00		**344.87**	**382.19**	**83.84**	**167.44**
19-Jan-18 22:00:00	19-Jan-18 23:00:00		960.02	1,014.38	0.00	238.10	2.1	329.7		316.52	334.44	0.00	78.50		10.35	18.92	83.84	86.68	19-Jan-18 22:00:00		**326.87**	**353.36**	**83.84**	**165.18**
19-Jan-18 23:00:00	20-Jan-18 00:00:00		604.59	1,015.28	0.00	234.93	2.1	329.7		199.33	334.74	0.00	77.46		10.35	18.92	83.84	86.68	19-Jan-18 23:00:00		**209.68**	**353.66**	**83.84**	**164.14**
20-Jan-18 00:00:00	20-Jan-18 01:00:00		417.56	1,035.52	0.00	235.17	2.1	329.7		137.67	341.41	0.00	77.53		10.35	18.92	83.84	86.68	20-Jan-18 00:00:00		**148.02**	**360.33**	**83.84**	**164.21**
20-Jan-18 01:00:00	20-Jan-18 02:00:00		415.97	1,051.15	0.00	235.41	2.1	329.7		137.15	346.56	0.00	77.61		10.35	18.92	83.84	86.68	20-Jan-18 01:00:00		**147.50**	**365.48**	**83.84**	**164.29**
20-Jan-18 02:00:00	20-Jan-18 03:00:00		407.77	1,051.68	0.00	236.85	2.1	329.7		134.44	346.74	0.00	78.09		10.35	18.92	83.84	86.68	20-Jan-18 02:00:00		**144.79**	**365.66**	**83.84**	**164.77**
20-Jan-18 03:00:00	20-Jan-18 04:00:00		397.39	1,054.97	0.00	237.55	2.1	329.7		131.02	347.82	0.00	78.32		10.35	18.92	83.84	86.68	20-Jan-18 03:00:00		**141.37**	**366.74**	**83.84**	**165.00**
20-Jan-18 04:00:00	20-Jan-18 05:00:00		851.64	1,053.16	0.00	238.83	2.1	329.7		280.79	347.23	0.00	78.74		10.35	18.92	83.84	86.68	20-Jan-18 04:00:00		**291.14**	**366.15**	**83.84**	**165.42**
20-Jan-18 05:00:00	20-Jan-18 06:00:00		1,270.07	1,057.26	0.00	238.24	2.1	329.7		418.74	348.58	0.00	78.55		10.35	18.92	83.84	86.68	20-Jan-18 05:00:00		**429.09**	**367.50**	**83.84**	**165.23**
20-Jan-18 06:00:00	20-Jan-18 07:00:00		1,241.63	1,050.88	0.00	241.64	2.1	329.7		409.37	346.47	0.00	79.67		10.35	18.92	83.84	86.68	20-Jan-18 06:00:00		**419.72**	**365.39**	**83.84**	**166.35**
20-Jan-18 07:00:00	20-Jan-18 08:00:00		1,344.00	1,052.98	0.00	551.45	2.1	329.7		443.12	347.17	0.00	181.81		10.35	18.92	83.84	86.68	20-Jan-18 07:00:00		**453.47**	**366.09**	**83.84**	**268.49**
20-Jan-18 08:00:00	20-Jan-18 09:00:00		1,332.04	1,052.50	0.00	9.35	2.1	329.7		439.17	347.01	0.00	3.08		10.35	18.92	83.84	86.68	20-Jan-18 08:00:00		**449.52**	**365.93**	**83.84**	**89.76**
20-Jan-18 09:00:00	20-Jan-18 10:00:00		1,305.93	1,053.46	0.00	10.37	2.1	329.7		430.57	347.33	0.00	3.42		10.35	18.92	83.84	86.68	20-Jan-18 09:00:00		**440.92**	**366.25**	**83.84**	**90.10**
20-Jan-18 10:00:00	20-Jan-18 11:00:00		1,298.55	1,050.12	0.00	11.38	2.1	329.7		428.13	346.23	0.00	3.75		10.35	18.92	83.84	86.68	20-Jan-18 10:00:00		**438.48**	**365.15**	**83.84**	**90.43**
20-Jan-18 11:00:00	20-Jan-18 12:00:00		1,285.90	1,050.25	0.00	12.35	2.1	329.7		423.96	346.27	0.00	4.07		10.35	18.92	83.84	86.68	20-Jan-18 11:00:00		**434.31**	**365.19**	**83.84**	**90.75**
20-Jan-18 12:00:00	20-Jan-18 13:00:00		1,321.97	1,049.15	0.00	9.45	2.1	329.7		435.85	345.90	0.00	3.12		10.35	18.92	83.84	86.68	20-Jan-18 12:00:00		**446.20**	**364.82**	**83.84**	**89.80**
20-Jan-18 13:00:00	20-Jan-18 14:00:00		1,309.22	1,045.60	0.00	7.63	2.1	329.7		431.65	344.74	0.00	2.51		10.35	18.92	83.84	86.68	20-Jan-18 13:00:00		**442.00**	**363.66**	**83.84**	**89.19**
20-Jan-18 14:00:00	20-Jan-18 15:00:00		1,340.03	1,043.67	0.00	7.19	2.1	329.7		441.81	344.10	0.00	2.37		10.35	18.92	83.84	86.68	20-Jan-18 14:00:00		**452.16**	**363.02**	**83.84**	**89.05**
20-Jan-18 15:00:00	20-Jan-18 16:00:00		1,412.51	1,067.35	0.00	6.75	2.1	329.7		465.71	351.91	0.00	2.23		10.35	18.92	83.84	86.68	20-Jan-18 15:00:00		**476.06**	**370.83**	**83.84**	**88.91**
20-Jan-18 16:00:00	20-Jan-18 17:00:00		1,395.70	1,074.62	0.00	6.42	2.1	329.7		460.16	354.30	0.00	2.12		10.35	18.92	83.84	86.68	20-Jan-18 16:00:00		**470.51**	**373.22**	**83.84**	**88.80**
20-Jan-18 17:00:00	20-Jan-18 18:00:00		1,618.38	1,079.58	0.00	6.72	2.1	329.7		533.58	355.94	0.00	2.21		10.35	18.92	83.84	86.68	20-Jan-18 17:00:00		**543.93**	**374.86**	**83.84**	**88.89**
20-Jan-18 18:00:00	20-Jan-18 19:00:00		1,672.22	1,067.33	0.00	7.11	2.1	329.7		551.33	351.90	0.00	2.34		10.35	18.92	83.84	86.68	20-Jan-18 18:00:00		**561.68**	**370.82**	**83.84**	**89.02**
20-Jan-18 19:00:00	20-Jan-18 20:00:00		1,706.01	1,393.34	0.00	7.55	2.1	329.7		562.47	459.39	0.00	2.49		10.35	18.92	83.84	86.68	20-Jan-18 19:00:00		**572.82**	**478.31**	**83.84**	**89.17**
20-Jan-18 20:00:00	20-Jan-18 21:00:00		1,674.16	1,394.67	0.00	7.32	2.1	329.7		551.97	459.82	0.00	2.41		10.35	18.92	83.84	86.68	20-Jan-18 20:00:00		**562.32**	**478.74**	**83.84**	**89.09**
20-Jan-18 21:00:00	20-Jan-18 22:00:00		1,676.79	1,397.05	0.00	8.04	2.1	329.7		552.84	460.61	0.00	2.65		10.35	18.92	83.84	86.68	20-Jan-18 21:00:00		**563.19**	**479.53**	**83.84**	**89.33**
20-Jan-18 22:00:00	20-Jan-18 23:00:00		1,655.92	1,399.44	0.00	7.44	2.1	329.7		545.96	461.40	0.00	2.45		10.35	18.92	83.84	86.68	20-Jan-18 22:00:00		**556.31**	**480.32**	**83.84**	**89.13**
20-Jan-18 23:00:00	21-Jan-18 00:00:00		1,672.02	1,371.07	0.00	8.68	2.1	329.7		551.27	452.04	0.00	2.86		10.35	18.92	83.84	86.68	20-Jan-18 23:00:00		**561.62**	**470.96**	**83.84**	**89.54**
21-Jan-18 00:00:00	21-Jan-18 01:00:00		1,687.86	1,034.44	0.00	9.73	2.1	329.7		556.49	341.06	0.00	3.21		10.35	18.92	83.84	86.68	21-Jan-18 00:00:00		**566.84**	**359.98**	**83.84**	**89.89**
21-Jan-18 01:00:00	21-Jan-18 02:00:00		1,656.02	1,032.27	0.00	9.36	2.1	329.7		545.99	340.34	0.00	3.09		10.35	18.92	83.84	86.68	21-Jan-18 01:00:00		**556.34**	**359.26**	**83.84**	**89.77**
21-Jan-18 02:00:00	21-Jan-18 03:00:00		1,646.11	1,031.32	0.00	9.00	2.1	329.7		542.72	340.03	0.00	2.97		10.35	18.92	83.84	86.68	21-Jan-18 02:00:00		**553.07**	**358.95**	**83.84**	**89.65**
21-Jan-18 03:00:00	21-Jan-18 04:00:00		1,643.12	1,030.37	0.00	8.64	2.1	329.7		541.74	339.71	0.00	2.85		10.35	18.92	83.84	86.68	21-Jan-18 03:00:00		**552.09**	**358.63**	**83.84**	**89.53**
21-Jan-18 04:00:00	21-Jan-18 05:00:00		1,643.54	1,034.87	0.00	8.58	2.1	329.7		541.87	341.20	0.00	2.83		10.35	18.92	83.84	86.68	21-Jan-18 04:00:00		**552.22**	**360.12**	**83.84**	**89.51**
21-Jan-18 05:00:00	21-Jan-18 06:00:00		1,646.50	1,033.06	0.00	8.66	2.1	329.7		542.85	340.60	0.00	2.85		10.35	18.92	83.84	86.68	21-Jan-18 05:00:00		**553.20**	**359.52**	**83.84**	**89.53**
21-Jan-18 06:00:00	21-Jan-18 07:00:00		1,653.29	1,035.27	0.00	8.64	2.1	329.7		545.09	341.33	0.00	2.85		10.35	18.92	83.84	86.68	21-Jan-18 06:00:00		**555.44**	**360.25**	**83.84**	**89.53**
21-Jan-18 07:00:00	21-Jan-18 08:00:00		1,663.50	1,031.44	0.00	8.26	2.1	329.7		548.46	340.07	0.00	2.72		10.35	18.92	83.84	86.68	21-Jan-18 07:00:00		**558.81**	**358.99**	**83.84**	**89.40**
21-Jan-18 08:00:00	21-Jan-18 09:00:00		1,661.80	1,034.39	0.00	8.01	2.1	329.7		547.89	341.04	0.00	2.64		10.35	18.92	83.84	86.68	21-Jan-18 08:00:00		**558.24**	**359.96**	**83.84**	**89.32**
21-Jan-18 09:00:00	21-Jan-18 10:00:00		1,713.84	1,080.08	0.00	7.76	2.1	329.7		565.05	356.10	0.00	2.56		10.35	18.92	83.84	86.68	21-Jan-18 09:00:00		**575.40**	**375.02**	**83.84**	**89.24**
21-Jan-18 10:00:00	21-Jan-18 11:00:00		1,722.19	1,078.56	0.00	7.38	2.1	329.7		567.81	355.60	0.00	2.43		10.35	18.92	83.84	86.68	21-Jan-18 10:00:00		**578.16**	**374.52**	**83.84**	**89.11**
21-Jan-18 11:00:00	21-Jan-18 12:00:00		1,736.72	1,078.65	0.00	7.03	2.1	329.7		572.60	355.63	0.00	2.32		10.35	18.92	83.84	86.68	21-Jan-18 11:00:00		**582.95**	**374.55**	**83.84**	**89.00**
21-Jan-18 12:00:00	21-Jan-18 13:00:00		1,730.54	1,079.91	0.00	6.73	2.1	329.7		570.56	356.05	0.00	2.22		10.35	18.92	83.84	86.68	21-Jan-18 12:00:00		**580.91**	**374.97**	**83.84**	**88.90**
21-Jan-18 13:00:00	21-Jan-18 14:00:00		1,717.05	1,087.83	0.00	6.42	2.1	329.7		566.11	358.66	0.00	2.12		10.35	18.92	83.84	86.68	21-Jan-18 13:00:00		**576.46**	**377.58**	**83.84**	**88.80**
21-Jan-18 14:00:00	21-Jan-18 15:00:00		1,715.72	1,088.06	0.00	7.27	2.1	329.7		565.67	358.73	0.00	2.40		10.35	18.92	83.84	86.68	21-Jan-18 14:00:00		**576.02**	**377.65**	**83.84**	**89.08**
21-Jan-18 15:00:00	21-Jan-18 16:00:00		1,692.49	1,046.94	0.00	10.31	2.1	329.7		558.01	345.18	0.00	3.40		10.35	18.92	83.84	86.68	21-Jan-18 15:00:00		**568.36**	**364.10**	**83.84**	**90.08**
21-Jan-18 16:00:00	21-Jan-18 17:00:00		1,705.87	1,077.12	0.00	10.61	2.1	329.7		562.43	355.13	0.00	3.50		10.35	18.92	83.84	86.68	21-Jan-18 16:00:00		**572.78**	**374.05**	**83.84**	**90.18**
21-Jan-18 17:00:00	21-Jan-18 18:00:00		1,709.26	1,075.59	0.00	9.57	2.1	329.7		563.54	354.62	0.00	3.16		10.35	18.92	83.84	86.68	21-Jan-18 17:00:00		**573.89**	**373.54**	**83.84**	**89.84**
21-Jan-18 18:00:00	21-Jan-18 19:00:00		1,706.81	1,077.87	0.00	8.54	2.1	329.7		562.73	355.37	0.00	2.82		10.35	18.92	83.84	86.68	21-Jan-18 18:00:00		**573.08**	**374.29**	**83.84**	**89.50**
21-Jan-18 19:00:00	21-Jan-18 20:00:00		976.96	1,076.24	0.00	7.81	2.1	329.7		322.10	354.84	0.00	2.58		10.35	18.92	83.84	86.68	21-Jan-18 19:00:00		**332.45**	**373.76**	**83.84**	**89.26**
21-Jan-18 20:00:00	21-Jan-18 21:00:00		1,251.21	593.33	0.00	7.88	2.1	329.7		412.52	195.62	0.00	2.60		10.35	18.92	83.84	86.68	21-Jan-18 20:00:00		**422.87**	**214.54**	**83.84**	**89.28**
21-Jan-18 21:00:00	21-Jan-18 22:00:00		1,260.45	533.15	0.00	7.90	2.1	329.7		415.57	175.78	0.00	2.60		10.35	18.92	83.84	86.68	21-Jan-18 21:00:00		**425.92**	**194.70**	**83.84**	**89.28**
21-Jan-18 22:00:00	21-Jan-18 23:00:00		1,439.30	827.00	0.00	8.86	2.1	329.7		474.54	272.66	0.00	2.92		10.35	18.92	83.84	86.68	21-Jan-18 22:00:00		**484.89**	**291.58**	**83.84**	**89.60**
21-Jan-18 23:00:00	22-Jan-18 00:00:00		1,366.52	848.15	0.00	10.32	2.1	329.7		450.54	279.63	0.00	3.40		10.35	18.92	83.84	86.68	21-Jan-18 23:00:00		**460.89**	**298.55**	**83.84**	**90.08**
22-Jan-18 00:00:00	22-Jan-18 01:00:00		1,313.77	1,077.49	0.00	10.11	2.1	329.7		433.15	355.25	0.00	3.33		10.35	18.92	83.84	86.68	22-Jan-18 00:00:00		**443.50**	**374.17**	**83.84**	**90.01**
22-Jan-18 01:00:00	22-Jan-18 02:00:00		1,310.65	1,111.06	0.00	9.48	2.1	329.7		432.12	366.32	0.00	3.12		10.35	18.92	83.84	86.68	22-Jan-18 01:00:00		**442.47**	**385.24**	**83.84**	**89.80**
22-Jan-18 02:00:00	22-Jan-18 03:00:00		1,295.93	1,108.64	0.00	8.84	2.1	329.7		427.27	365.52	0.00	2.91		10.35	18.92	83.84	86.68	22-Jan-18 02:00:00		**437.62**	**384.44**	**83.84**	**89.59**
22-Jan-18 03:00:00	22-Jan-18 04:00:00		1,282.01	1,110.17	0.00	8.52	2.1	329.7		422.68	366.02	0.00	2.81		10.35	18.92	83.84	86.68	22-Jan-18 03:00:00		**433.03**	**384.94**	**83.84**	**89.49**
22-Jan-18 04:00:00	22-Jan-18 05:00:00		1,280.86	1,111.59	0.00	8.54	2.1	329.7		422.30	366.49	0.00	2.81		10.35	18.92	83.84	86.68	22-Jan-18 04:00:00		**432.65**	**385.41**	**83.84**	**89.49**
22-Jan-18 05:00:00	22-Jan-18 06:00:00		1,283.25	1,111.83	0.00	8.56	2.1	329.7		423.09	366.57	0.00	2.82		10.35	18.92	83.84	86.68	22-Jan-18 05:00:00		**433.44**	**385.49**	**83.84**	**89.50**
22-Jan-18 06:00:00	22-Jan-18 07:00:00		1,276.93	1,110.46	0.00	8.51	2.1	329.7		421.00	366.12	0.00	2.81		10.35	18.92	83.84	86.68	22-Jan-18 06:00:00		**431.35**	**385.04**	**83.84**	**89.49**
22-Jan-18 07:00:00	22-Jan-18 08:00:00		1,268.32	1,112.79	0.00	8.41	2.1	329.7		418.17	366.89	0.00	2.77		10.35	18.92	83.84	86.68	22-Jan-18 07:00:00		**428.52**	**385.81**	**83.84**	**89.45**
22-Jan-18 08:00:00	22-Jan-18 09:00:00		1,257.22	1,114.26	0.00	8.30	2.1	329.7		414.50	367.37	0.00	2.74		10.35	18.92	83.84	86.68	22-Jan-18 08:00:00		**424.85**	**386.29**	**83.84**	**89.42**
22-Jan-18 09:00:00	22-Jan-18 10:00:00		1,147.15	1,110.56	0.00	8.22	2.1	329.7		378.21	366.15	0.00	2.71		10.35	18.92	83.84	86.68	22-Jan-18 09:00:00		**388.56**	**385.07**	**83.84**	**89.39**
22-Jan-18 10:00:00	22-Jan-18 11:00:00		931.99	1,112.15	0.00	8.11	2.1	329.7		307.28	366.68	0.00	2.67		10.35	18.92	83.84	86.68	22-Jan-18 10:00:00		**317.63**	**385.60**	**83.84**	**89.35**
22-Jan-18 11:00:00	22-Jan-18 12:00:00		1,003.45	1,010.27	0.00	7.74	2.1	329.7		330.84	333.09	0.00	2.55		10.35	18.92	83.84	86.68	22-Jan-18 11:00:00		**341.19**	**352.01**	**83.84**	**89.23**
22-Jan-18 12:00:00	22-Jan-18 13:00:00		1,080.53	466.53	0.00	7.38	2.1	329.7		356.25	153.81	0.00	2.43		10.35	18.92	83.84	86.68	22-Jan-18 12:00:00		**366.60**	**172.73**	**83.84**	**89.11**
22-Jan-18 13:00:00	22-Jan-18 14:00:00		925.81	274.76	0.00	7.02	2.1	329.7		305.24	90.59	0.00	2.31		10.35	18.92	83.84	86.68	22-Jan-18 13:00:00		**315.59**	**109.51**	**83.84**	**88.99**
22-Jan-18 14:00:00	22-Jan-18 15:00:00		1,272.09	140.58	0.00	6.94	2.1	329.7		419.41	46.35	0.00	2.29		10.35	18.92	83.84	86.68	22-Jan-18 14:00:00		**429.76**	**65.27**	**83.84**	**88.97**
22-Jan-18 15:00:00	22-Jan-18 16:00:00		1,627.19	173.45	0.00	7.01	2.1	329.7		536.48	57.19	0.00	2.31		10.35	18.92	83.84	86.68	22-Jan-18 15:00:00		**546.83**	**76.11**	**83.84**	**88.99**
22-Jan-18 16:00:00	22-Jan-18 17:00:00		1,708.34	214.33	0.00	7.07	2.1

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
24-Jan-18 20:00:00	24-Jan-18 21:00:00		22.83	0.00	0.00	7.63	2.1	329.7		7.53	0.00	0.00	2.52		10.35	18.92	83.84	86.68	24-Jan-18 20:00:00		17.88	18.92	83.84	89.20
24-Jan-18 21:00:00	24-Jan-18 22:00:00		21.88	0.00	0.00	7.69	2.1	329.7		7.21	0.00	0.00	2.53		10.35	18.92	83.84	86.68	24-Jan-18 21:00:00		17.56	18.92	83.84	89.21
24-Jan-18 22:00:00	24-Jan-18 23:00:00		14.80	0.00	0.00	36.07	2.1	329.7		4.88	0.00	0.00	11.89		10.35	18.92	83.84	86.68	24-Jan-18 22:00:00		15.23	18.92	83.84	98.57
24-Jan-18 23:00:00	25-Jan-18 00:00:00		10.21	0.00	0.00	7.91	2.1	329.7		3.37	0.00	0.00	2.61		10.35	18.92	83.84	86.68	24-Jan-18 23:00:00		13.72	18.92	83.84	89.29
25-Jan-18 00:00:00	25-Jan-18 01:00:00		8.05	0.00	0.00	8.24	2.1	329.7		2.66	0.00	0.00	2.72		10.35	18.92	83.84	86.68	25-Jan-18 00:00:00		13.01	18.92	83.84	89.40
25-Jan-18 01:00:00	25-Jan-18 02:00:00		7.03	0.00	0.00	8.58	2.1	329.7		2.32	0.00	0.00	2.83		10.35	18.92	83.84	86.68	25-Jan-18 01:00:00		12.67	18.92	83.84	89.51
25-Jan-18 02:00:00	25-Jan-18 03:00:00		7.68	0.00	0.00	8.88	2.1	329.7		2.53	0.00	0.00	2.93		10.35	18.92	83.84	86.68	25-Jan-18 02:00:00		12.88	18.92	83.84	89.61
25-Jan-18 03:00:00	25-Jan-18 04:00:00		2.63	0.00	0.00	9.07	2.1	329.7		0.87	0.00	0.00	2.99		10.35	18.92	83.84	86.68	25-Jan-18 03:00:00		11.22	18.92	83.84	89.67
25-Jan-18 04:00:00	25-Jan-18 05:00:00		16.19	0.00	0.00	54.61	2.1	329.7		5.34	0.00	0.00	18.01		10.35	18.92	83.84	86.68	25-Jan-18 04:00:00		15.69	18.92	83.84	104.69
25-Jan-18 05:00:00	25-Jan-18 06:00:00		26.17	0.00	0.00	9.27	2.1	329.7		8.63	0.00	0.00	3.06		10.35	18.92	83.84	86.68	25-Jan-18 05:00:00		18.98	18.92	83.84	89.74
25-Jan-18 06:00:00	25-Jan-18 07:00:00		23.77	0.00	0.00	9.34	2.1	329.7		7.84	0.00	0.00	3.08		10.35	18.92	83.84	86.68	25-Jan-18 06:00:00		18.19	18.92	83.84	89.76
25-Jan-18 07:00:00	25-Jan-18 08:00:00		19.04	0.00	0.00	9.40	2.1	329.7		6.28	0.00	0.00	3.10		10.35	18.92	83.84	86.68	25-Jan-18 07:00:00		16.63	18.92	83.84	89.78
25-Jan-18 08:00:00	25-Jan-18 09:00:00		7.85	0.00	0.00	9.14	2.1	329.7		2.59	0.00	0.00	3.01		10.35	18.92	83.84	86.68	25-Jan-18 08:00:00		12.94	18.92	83.84	89.69
25-Jan-18 09:00:00	25-Jan-18 10:00:00		4.45	0.00	0.00	8.75	2.1	329.7		1.47	0.00	0.00	2.88		10.35	18.92	83.84	86.68	25-Jan-18 09:00:00		11.82	18.92	83.84	89.56
25-Jan-18 10:00:00	25-Jan-18 11:00:00		6.50	0.00	0.00	26.88	2.1	329.7		2.14	0.00	0.00	8.86		10.35	18.92	83.84	86.68	25-Jan-18 10:00:00		12.49	18.92	83.84	95.54
25-Jan-18 11:00:00	25-Jan-18 12:00:00		2.49	0.00	0.00	8.78	2.1	329.7		0.82	0.00	0.00	2.89		10.35	18.92	83.84	86.68	25-Jan-18 11:00:00		11.17	18.92	83.84	89.57
25-Jan-18 12:00:00	25-Jan-18 13:00:00		5.43	0.00	0.00	8.45	2.1	329.7		1.79	0.00	0.00	2.79		10.35	18.92	83.84	86.68	25-Jan-18 12:00:00		12.14	18.92	83.84	89.47
25-Jan-18 13:00:00	25-Jan-18 14:00:00		0.35	0.00	0.00	8.12	2.1	329.7		0.12	0.00	0.00	2.68		10.35	18.92	83.84	86.68	25-Jan-18 13:00:00		10.47	18.92	83.84	89.36
25-Jan-18 14:00:00	25-Jan-18 15:00:00		3.13	0.00	0.00	7.79	2.1	329.7		1.03	0.00	0.00	2.57		10.35	18.92	83.84	86.68	25-Jan-18 14:00:00		11.38	18.92	83.84	89.25
25-Jan-18 15:00:00	25-Jan-18 16:00:00		8.23	0.00	0.00	7.61	2.1	329.7		2.71	0.00	0.00	2.51		10.35	18.92	83.84	86.68	25-Jan-18 15:00:00		13.06	18.92	83.84	89.19
25-Jan-18 16:00:00	25-Jan-18 17:00:00		9.73	0.00	0.00	9.50	2.1	329.7		3.21	0.00	0.00	3.13		10.35	18.92	83.84	86.68	25-Jan-18 16:00:00		13.56	18.92	83.84	89.81
25-Jan-18 17:00:00	25-Jan-18 18:00:00		11.62	0.00	0.00	7.82	2.1	329.7		3.83	0.00	0.00	2.58		10.35	18.92	83.84	86.68	25-Jan-18 17:00:00		14.18	18.92	83.84	89.26
25-Jan-18 18:00:00	25-Jan-18 19:00:00		12.08	0.00	0.00	8.04	2.1	329.7		3.98	0.00	0.00	2.65		10.35	18.92	83.84	86.68	25-Jan-18 18:00:00		14.33	18.92	83.84	89.33
25-Jan-18 19:00:00	25-Jan-18 20:00:00		6.44	0.00	0.00	8.26	2.1	329.7		2.12	0.00	0.00	2.72		10.35	18.92	83.84	86.68	25-Jan-18 19:00:00		12.47	18.92	83.84	89.40
25-Jan-18 20:00:00	25-Jan-18 21:00:00		1.74	0.00	0.00	8.47	2.1	329.7		0.58	0.00	0.00	2.79		10.35	18.92	83.84	86.68	25-Jan-18 20:00:00		10.93	18.92	83.84	89.47
25-Jan-18 21:00:00	25-Jan-18 22:00:00		4.27	0.00	0.00	8.64	2.1	329.7		1.41	0.00	0.00	2.85		10.35	18.92	83.84	86.68	25-Jan-18 21:00:00		11.76	18.92	83.84	89.53
25-Jan-18 22:00:00	25-Jan-18 23:00:00		2.41	0.00	0.00	38.98	2.1	329.7		0.79	0.00	0.00	12.85		10.35	18.92	83.84	86.68	25-Jan-18 22:00:00		11.14	18.92	83.84	99.53
25-Jan-18 23:00:00	26-Jan-18 00:00:00		3.25	0.00	0.00	8.78	2.1	329.7		1.07	0.00	0.00	2.90		10.35	18.92	83.84	86.68	25-Jan-18 23:00:00		11.42	18.92	83.84	89.58
26-Jan-18 00:00:00	26-Jan-18 01:00:00		3.01	0.00	0.00	8.92	2.1	329.7		0.99	0.00	0.00	2.94		10.35	18.92	83.84	86.68	26-Jan-18 00:00:00		11.34	18.92	83.84	89.62
26-Jan-18 01:00:00	26-Jan-18 02:00:00		3.27	0.00	0.00	9.06	2.1	329.7		1.08	0.00	0.00	2.99		10.35	18.92	83.84	86.68	26-Jan-18 01:00:00		11.43	18.92	83.84	89.67
26-Jan-18 02:00:00	26-Jan-18 03:00:00		13.19	0.00	0.00	9.17	2.1	329.7		4.35	0.00	0.00	3.02		10.35	18.92	83.84	86.68	26-Jan-18 02:00:00		14.70	18.92	83.84	89.70
26-Jan-18 03:00:00	26-Jan-18 04:00:00		22.14	0.00	0.00	9.19	2.1	329.7		7.30	0.00	0.00	3.03		10.35	18.92	83.84	86.68	26-Jan-18 03:00:00		17.65	18.92	83.84	89.71
26-Jan-18 04:00:00	26-Jan-18 05:00:00		11.10	0.00	0.00	32.72	2.1	329.7		3.66	0.00	0.00	10.79		10.35	18.92	83.84	86.68	26-Jan-18 04:00:00		14.01	18.92	83.84	97.47
26-Jan-18 05:00:00	26-Jan-18 06:00:00		4.51	0.00	0.00	9.10	2.1	329.7		1.49	0.00	0.00	3.00		10.35	18.92	83.84	86.68	26-Jan-18 05:00:00		11.84	18.92	83.84	89.68
26-Jan-18 06:00:00	26-Jan-18 07:00:00		11.82	0.00	0.00	9.12	2.1	329.7		3.90	0.00	0.00	3.01		10.35	18.92	83.84	86.68	26-Jan-18 06:00:00		14.25	18.92	83.84	89.69
26-Jan-18 07:00:00	26-Jan-18 08:00:00		12.91	0.00	0.00	9.13	2.1	329.7		4.26	0.00	0.00	3.01		10.35	18.92	83.84	86.68	26-Jan-18 07:00:00		14.61	18.92	83.84	89.69
26-Jan-18 08:00:00	26-Jan-18 09:00:00		10.47	0.00	0.00	9.00	2.1	329.7		3.45	0.00	0.00	2.97		10.35	18.92	83.84	86.68	26-Jan-18 08:00:00		13.80	18.92	83.84	89.65
26-Jan-18 09:00:00	26-Jan-18 10:00:00		9.32	0.00	0.00	8.61	2.1	329.7		3.07	0.00	0.00	2.84		10.35	18.92	83.84	86.68	26-Jan-18 09:00:00		13.42	18.92	83.84	89.52
26-Jan-18 10:00:00	26-Jan-18 11:00:00		4.36	0.00	0.00	103.53	2.1	329.7		1.44	0.00	0.00	34.13		10.35	18.92	83.84	86.68	26-Jan-18 10:00:00		11.79	18.92	83.84	120.81
26-Jan-18 11:00:00	26-Jan-18 12:00:00		4.21	0.00	0.00	8.27	2.1	329.7		1.39	0.00	0.00	2.73		10.35	18.92	83.84	86.68	26-Jan-18 11:00:00		11.74	18.92	83.84	89.41
26-Jan-18 12:00:00	26-Jan-18 13:00:00		0.34	0.00	0.00	7.99	2.1	329.7		0.11	0.00	0.00	2.63		10.35	18.92	83.84	86.68	26-Jan-18 12:00:00		10.46	18.92	83.84	89.31
26-Jan-18 13:00:00	26-Jan-18 14:00:00		3.70	0.00	0.00	7.71	2.1	329.7		1.22	0.00	0.00	2.54		10.35	18.92	83.84	86.68	26-Jan-18 13:00:00		11.57	18.92	83.84	89.22
26-Jan-18 14:00:00	26-Jan-18 15:00:00		17.48	0.00	0.00	7.52	2.1	329.7		5.76	0.00	0.00	2.48		10.35	18.92	83.84	86.68	26-Jan-18 14:00:00		16.11	18.92	83.84	89.16
26-Jan-18 15:00:00	26-Jan-18 16:00:00		18.02	0.00	0.00	7.54	2.1	329.7		5.94	0.00	0.00	2.49		10.35	18.92	83.84	86.68	26-Jan-18 15:00:00		16.29	18.92	83.84	89.17
26-Jan-18 16:00:00	26-Jan-18 17:00:00		17.79	0.00	0.00	7.58	2.1	329.7		5.87	0.00	0.00	2.50		10.35	18.92	83.84	86.68	26-Jan-18 16:00:00		16.22	18.92	83.84	89.18
26-Jan-18 17:00:00	26-Jan-18 18:00:00		21.51	0.00	0.00	7.61	2.1	329.7		7.09	0.00	0.00	2.51		10.35	18.92	83.84	86.68	26-Jan-18 17:00:00		17.44	18.92	83.84	89.19
26-Jan-18 18:00:00	26-Jan-18 19:00:00		21.59	0.00	0.00	7.66	2.1	329.7		7.12	0.00	0.00	2.53		10.35	18.92	83.84	86.68	26-Jan-18 18:00:00		17.47	18.92	83.84	89.21
26-Jan-18 19:00:00	26-Jan-18 20:00:00		17.59	0.00	0.00	7.77	2.1	329.7		5.80	0.00	0.00	2.56		10.35	18.92	83.84	86.68	26-Jan-18 19:00:00		16.15	18.92	83.84	89.24
26-Jan-18 20:00:00	26-Jan-18 21:00:00		10.81	0.00	0.00	7.89	2.1	329.7		3.56	0.00	0.00	2.60		10.35	18.92	83.84	86.68	26-Jan-18 20:00:00		13.91	18.92	83.84	89.28
26-Jan-18 21:00:00	26-Jan-18 22:00:00		3.37	0.00	0.00	8.01	2.1	329.7		1.11	0.00	0.00	2.64		10.35	18.92	83.84	86.68	26-Jan-18 21:00:00		11.46	18.92	83.84	89.32
26-Jan-18 22:00:00	26-Jan-18 23:00:00		0.10	0.00	0.00	9.55	2.1	329.7		0.03	0.00	0.00	3.15		10.35	18.92	83.84	86.68	26-Jan-18 22:00:00		10.38	18.92	83.84	89.83
26-Jan-18 23:00:00	27-Jan-18 00:00:00		0.46	0.00	0.00	8.20	2.1	329.7		0.15	0.00	0.00	2.70		10.35	18.92	83.84	86.68	26-Jan-18 23:00:00		10.50	18.92	83.84	89.38
27-Jan-18 00:00:00	27-Jan-18 01:00:00		0.00	0.00	0.00	8.16	2.1	329.7		0.00	0.00	0.00	2.69		10.35	18.92	83.84	86.68	27-Jan-18 00:00:00		10.35	18.92	83.84	89.37
27-Jan-18 01:00:00	27-Jan-18 02:00:00		0.42	0.00	0.00	8.13	2.1	329.7		0.14	0.00	0.00	2.68		10.35	18.92	83.84	86.68	27-Jan-18 01:00:00		10.49	18.92	83.84	89.36
27-Jan-18 02:00:00	27-Jan-18 03:00:00		0.32	0.00	0.00	8.10	2.1	329.7		0.10	0.00	0.00	2.67		10.35	18.92	83.84	86.68	27-Jan-18 02:00:00		10.45	18.92	83.84	89.35
27-Jan-18 03:00:00	27-Jan-18 04:00:00		0.21	0.00	0.00	8.08	2.1	329.7		0.07	0.00	0.00	2.66		10.35	18.92	83.84	86.68	27-Jan-18 03:00:00		10.42	18.92	83.84	89.34
27-Jan-18 04:00:00	27-Jan-18 05:00:00		0.09	0.00	0.00	29.38	2.1	329.7		0.03	0.00	0.00	9.69		10.35	18.92	83.84	86.68	27-Jan-18 04:00:00		10.38	18.92	83.84	96.37
27-Jan-18 05:00:00	27-Jan-18 06:00:00		0.01	0.00	0.00	8.36	2.1	329.7		0.00	0.44	0.00	2.76		10.35	18.92	83.84	86.68	27-Jan-18 05:00:00		10.35	18.92	83.84	89.44
27-Jan-18 06:00:00	27-Jan-18 07:00:00		0.00	0.00	0.00	46.24	2.1	329.7		0.00	0.00	0.00	15.25		10.35	18.92	83.84	86.68	27-Jan-18 06:00:00		10.35	18.92	83.84	101.93
27-Jan-18 07:00:00	27-Jan-18 08:00:00		0.00	0.00	0.00	8.35	2.1	329.7		0.00	0.00	0.00	2.75		10.35	18.92	83.84	86.68	27-Jan-18 07:00:00		10.35	18.92	83.84	89.43
27-Jan-18 08:00:00	27-Jan-18 09:00:00		0.00	0.00	0.00	8.21	2.1	329.7		0.00	0.00	0.00	2.71		10.35	18.92	83.84	86.68	27-Jan-18 08:00:00		10.35	18.92	83.84	89.39
27-Jan-18 09:00:00	27-Jan-18 10:00:00		0.00	0.00	0.00	8.08	2.1	329.7		0.00	0.00	0.00	2.66		10.35	18.92	83.84	86.68	27-Jan-18 09:00:00		10.35	18.92	83.84	89.34
27-Jan-18 10:00:00	27-Jan-18 11:00:00		0.00	0.00	0.00	81.74	2.1	329.7		0.00	0.00	0.00	26.95		10.35	18.92	83.84	86.68	27-Jan-18 10:00:00		10.35	18.92	83.84	113.63
27-Jan-18 11:00:00	27-Jan-18 12:00:00		0.00	0.00	0.00	7.64	2.1	329.7		0.00	0.00	0.00	2.52		10.35	18.92	83.84	86.68	27-Jan-18 11:00:00		10.35	18.92	83.84	89.20
27-Jan-18 12:00:00	27-Jan-18 13:00:00		7.86	0.00	0.00	7.39	2.1	329.7		2.59	0.00	0.00	2.44		10.35	18.92	83.84	86.68	27-Jan-18 12:00:00		12.94	18.92	83.84	89.12
27-Jan-18 13:00:00	27-Jan-18 14:00:00		6.36	0.00	0.00	7.14	2.1	329.7		2.10	0.00	0.00	2.35		10.35	18.92	83.84	86.68	27-Jan-18 13:00:00		12.45	18.92	83.84	89.03
27-Jan-18 14:00:00	27-Jan-18 15:00:00		18.85	0.00	0.00	6.95	2.1	329.7		6.22	0.00	0.00	2.29		10.35	18.92	83.84	86.68	27-Jan-18 14:00:00		16.57	18.92	83.84	88.97
27-Jan-18 15:00:00	27-Jan-18 16:00:00		18.34	0.00	0.00	14.26	2.1	329.7		6.05	0.00	0.00	4.70		10.35	18.92	83.84	86.68	27-Jan-18 15:00:00		16.40	18.92	83.84	91.38
27-Jan-18 16:00:00	27-Jan-18 17:00:00		19.51	0.00	0.00	13.98	2.1	329.7		6.43	0.00	0.00	4.61		10.35	18.92	83.84	86.68	27-Jan-18 16:00:00		16.78	18.92	83.84	91.29
27-Jan-18 17:00:00	27-Jan-18 18:00:00		19.20	0.00	0.00	6.91	2.1	329.7		6.33	0.00	0.00	2.28		10.35	18.92	83.84	86.68	27-Jan-18 17:00:00		16.68	18.92	83.84	88.96
27-Jan-18 18:00:00	27-Jan-18 19:00:00		19.72	0.00	0.00	6.97	2.1	329.7		6.50	0.00	0.00	2.30		10.35	18.92	83.84	86.68	27-Jan-18 18:00:00		16.85	18.92	83.84	88.98
27-Jan-18 19:00:00	27-Jan-18 20:00:00		21.19	0.00	0.00	7.02	2.1	329.7		6.99	0.00	0.00	2.32		10.35	18.92	83.84	86.68	27-Jan-18 19:00:00		17.34	18.92	83.84	89.00
27-Jan-18 20:00:00	27-Jan-18 21:00:00		19.96	0.00	0.00	7.20	2.1	329.7		6.58	0.00	0.00	2.37		10.35	18.92	83.84	86.68	27-Jan-18 20:00:00		16.93	18.92	83.84	89.05
27-Jan-18 21:00:00	27-Jan-18 22:00:00		21.56	0.00	0.00	15.16	2.1	329.7		7.11	0.00	0.00	5.00		10.35	18.92	83.84	86.68	27-Jan-18 21:00:00		17.46	18.92	83.84	91.68
27-Jan-18 22:00:00	27-Jan-18 23:00:00		21.98	0.00	0.00	7.44	2.1	329.7		7.25	0.00	0.00	2.45		10.35	18.92	83.84	86.68	27-Jan-18 22:00:00		17.60	18.92	83.84	89.13
27-Jan-18 23:00:00	28-Jan-18 00:00:00		22.09	0.00	0.00	7.44	2.1	329.7		7.28	0.00	0.00	2.45		10.35	18.92	83.84	86.68	27-Jan-18 23:00:00		17.63	18.92	83.84	89.13
28-Jan-18 00:00:00	28-Jan-18 01:00:00		21.59	0.00	0.00	7.44	2.1	329.7		7.12	0.00	0.00	2.45		10.35	18.92	83.84	86.68	28-Jan-18 00:00:00		17.47	18.92	83.84	89.13
28-Jan-18 01:00:00	28-Jan-18 02:00:00		20.91	0.00	0.00	7.44	2.1	329.7		6.90	0.00	0.00	2.45		10.35	18.92	83.84	86.68	28-Jan-18 01:00:00		17.25	18.92	83.84	89.13
28-Jan-18 02:00:00	28-Jan-18 03:00:00		19.15	0.00	0.00	7.45	2.1	329.7		6.31	0.00	0.00	2.46		10.35	18.92	83.84	86.68	28-Jan-18 02:00:00		16.66	18.92	83.84	89.14
28-Jan-18 03:00:00	28-Jan-18 04:00:00		20.02	0.00	0.00	10.57	2.1	329.7		6.60	0.00	0.00	3.48		10.35	18.92	83.84	86.68	28-Jan-18 03:00:00		16.95	18.92	83.84	90.16
28-Jan-18 04:00:00	28-Jan-18 05:00:00		20.82	0.00	0.00	7.42	2.1	329.7		6.86	0.00	0.00	2.45		10.35	18.92	83.84	86.68	28-Jan-18 04:00:00		17.21	18.92	83.84	89.13
28-Jan-18 05:00:00	28-Jan-18 06:00:00		21.85	0.00	0.00	7.44	2.1	329.7		7.20	0.00	0.00	2.45		10.35	18.92	83.84	86.68	28-Jan-18 05:00:00		17.55	18.92	83.84	89.13
28-Jan-18 06:00:00	28-Jan-18 07:00:00		21.02	0.00	0.00	7.45	2.1	329.7		6.93	0.00	0.00	2.46		10.35	18.92	83.84	86.68	28-Jan-18 06:00:00		17.28	18.92	83.84	89.14
28-Jan-18 07:00:00	28-Jan-18 08:00:00		21.23	0.00	0.00	7.48	2.1	329.7		7.00	0.00	0.00	2.47		10.35	18.92	83.84	86.68	28-Jan-18 07:00:00		17.35	18.92	83.84	89.15
28-Jan-18 08:00:00	28-Jan-18 09:00:00		21.69	0.00	0.00	7.68	2.1	329.7		7.15	0.00	0.00	2.53		10.35	18.92	83.84	86.68	28-Jan-18 08:00:00		17.50	18.92	83.84	89.21
28-Jan-18 09:00:00	28-Jan-18 10:00:00		21.05	0.00	0.00	41.18	2.1	329.7		6.94	0.00	0.00	13.58		10.35	18.92	83.84	86.68	28-Jan-18 09:00:00		17.29	18.92	83.84	100.26
28-Jan-18 10:00:00	28-Jan-18 11:00:00		22.07	0.00	0.00	7.74	2.1	329.7		7.28	0.00	0.00	2.55		10.35	18.92	83.84	86.68	28-Jan-18 10:00:00		17.63	18.92	83.84	89.23
28-Jan-18 11:00:00	28-Jan-18 12:00:00		20.43	0.00	0.00	7.58	2.1	329.7		6.74	0.00	0.00	2.50		10.35	18.92	83.84	86.68	28-Jan-18 11:00:00		17.09	18.92	83.84	89.18
28-Jan-18 12:00:00	28-Jan-18 13:00:00		20.03	0.00	0.00	7.43	2.1	329.7		6.60	0.00	0.00	2.45		10.35	18.92	83.84	86.68	28-Jan-18 12:00:00		16.95	18.92	83.84	89.13
28-Jan-18 13:00:00	28-Jan-18 14:00:00		20.02	0.00	0.00	7.30	2.1	329.7		6.60	0.00	0.00	2.41		10.35	18.92	83.84	86.68	28-Jan-18 13:00:00		16.95	18.92	83.84	89.09
28-Jan-18 14:00:00	28-Jan-18 15:00:00		20.02	0.00	0.00	7.37	2.1	329.7		6.60	0.00	0.00	2.43		10.35	18.92	83.84	86.68	28-Jan-18 14:00:00		16.95	18.92	83.84	89.11
28-Jan-18 15:00:00	28-Jan-18 16:00:00		18.87	0.00	0.00	10.34	2.1	329.7		6.22	0.00	0.00	3.41		10.35	18.92	83.84	86.68	28-Jan-18 15:00:00		16.57	18.92	83.84	90.09
28-Jan-18 16:00:00	28-Jan-18 17:00:00		19.37	0.00	0.00	7.55	2.1	329.7		6.39	0.00	0.00	2.49		10.35	18.92	83.84	86.68	28-Jan-18 16:00:00		16.74	18.92	83.84	89.17
28-Jan-18 17:00:00	28-Jan-18 18:00:00		20.17	0.00	0.00	7.41

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
30-Jan-18 19:00:00	30-Jan-18 20:00:00		1,346.34	797.17	233.88	392.34	2.1	329.7		443.89	262.83	77.11	129.35		10.35	18.92	83.84	86.68	30-Jan-18 19:00:00		454.24	281.75	160.95	216.03
30-Jan-18 20:00:00	30-Jan-18 21:00:00		1,363.97	798.63	233.22	386.03	2.1	329.7		449.70	263.31	76.89	127.27		10.35	18.92	83.84	86.68	30-Jan-18 20:00:00		460.05	282.23	160.73	213.95
30-Jan-18 21:00:00	30-Jan-18 22:00:00		1,365.09	795.64	232.56	383.66	2.1	329.7		450.07	262.32	76.67	126.49		10.35	18.92	83.84	86.68	30-Jan-18 21:00:00		460.42	281.24	160.51	213.17
30-Jan-18 22:00:00	30-Jan-18 23:00:00		1,083.04	798.20	231.25	385.93	2.1	329.7		357.08	263.17	76.24	127.24		10.35	18.92	83.84	86.68	30-Jan-18 22:00:00		367.43	282.09	160.08	213.92
30-Jan-18 23:00:00	31-Jan-18 00:00:00		1,032.97	800.82	234.21	389.92	2.1	329.7		340.57	264.03	77.22	128.56		10.35	18.92	83.84	86.68	30-Jan-18 23:00:00		350.92	282.95	161.06	215.24
31-Jan-18 00:00:00	31-Jan-18 01:00:00		1,039.05	798.56	233.94	372.09	2.1	329.7		342.57	263.29	77.13	122.68		10.35	18.92	83.84	86.68	31-Jan-18 00:00:00		352.92	282.21	160.97	209.36
31-Jan-18 01:00:00	31-Jan-18 02:00:00		1,054.22	799.51	233.44	375.44	2.1	329.7		347.57	263.60	76.97	123.78		10.35	18.92	83.84	86.68	31-Jan-18 01:00:00		357.92	282.52	160.81	210.46
31-Jan-18 02:00:00	31-Jan-18 03:00:00		1,066.49	801.69	232.94	374.13	2.1	329.7		351.62	264.32	76.80	123.35		10.35	18.92	83.84	86.68	31-Jan-18 02:00:00		361.97	283.24	160.64	210.03
31-Jan-18 03:00:00	31-Jan-18 04:00:00		1,053.17	802.22	232.43	372.14	2.1	329.7		347.23	264.49	76.63	122.70		10.35	18.92	83.84	86.68	31-Jan-18 03:00:00		357.58	283.41	160.47	209.38
31-Jan-18 04:00:00	31-Jan-18 05:00:00		1,037.15	801.25	230.42	371.15	2.1	329.7		341.95	264.17	75.97	122.37		10.35	18.92	83.84	86.68	31-Jan-18 04:00:00		352.30	283.09	159.81	209.05
31-Jan-18 05:00:00	31-Jan-18 06:00:00		1,048.56	803.19	228.38	373.65	2.1	329.7		345.71	264.81	75.30	123.19		10.35	18.92	83.84	86.68	31-Jan-18 05:00:00		356.06	283.73	159.14	209.87
31-Jan-18 06:00:00	31-Jan-18 07:00:00		1,036.55	795.37	227.03	371.82	2.1	329.7		341.75	262.23	74.85	122.59		10.35	18.92	83.84	86.68	31-Jan-18 06:00:00		352.10	281.15	158.69	209.27
31-Jan-18 07:00:00	31-Jan-18 08:00:00		1,038.11	798.35	225.62	370.29	2.1	329.7		342.27	263.22	74.39	122.09		10.35	18.92	83.84	86.68	31-Jan-18 07:00:00		352.62	282.14	158.23	208.77
31-Jan-18 08:00:00	31-Jan-18 09:00:00		1,036.98	797.81	217.18	364.78	2.1	329.7		341.89	263.04	71.60	120.27		10.35	18.92	83.84	86.68	31-Jan-18 08:00:00		352.24	281.96	155.44	206.95
31-Jan-18 09:00:00	31-Jan-18 10:00:00		1,081.41	825.88	208.61	387.98	2.1	329.7		356.54	272.29	68.78	127.92		10.35	18.92	83.84	86.68	31-Jan-18 09:00:00		366.89	291.21	152.62	214.60
31-Jan-18 10:00:00	31-Jan-18 11:00:00		1,097.54	825.39	287.50	330.87	2.1	329.7		361.86	272.13	94.79	109.09		10.35	18.92	83.84	86.68	31-Jan-18 10:00:00		372.21	291.05	178.63	195.77
31-Jan-18 11:00:00	31-Jan-18 12:00:00		1,018.97	658.10	283.76	324.09	2.1	329.7		335.95	216.98	93.56	106.85		10.35	18.92	83.84	86.68	31-Jan-18 11:00:00		346.30	235.90	177.40	193.53
31-Jan-18 12:00:00	31-Jan-18 13:00:00		998.55	491.15	281.59	286.73	2.1	329.7		329.22	161.93	92.84	94.53		10.35	18.92	83.84	86.68	31-Jan-18 12:00:00		339.57	180.85	176.68	181.21
31-Jan-18 13:00:00	31-Jan-18 14:00:00		988.49	490.12	279.73	284.38	2.1	329.7		325.90	161.59	92.23	93.76		10.35	18.92	83.84	86.68	31-Jan-18 13:00:00		336.25	180.51	176.07	180.44
31-Jan-18 14:00:00	31-Jan-18 15:00:00		832.94	491.12	278.31	282.40	2.1	329.7		274.62	161.92	91.76	93.11		10.35	18.92	83.84	86.68	31-Jan-18 14:00:00		284.97	180.84	175.60	179.79
31-Jan-18 15:00:00	31-Jan-18 16:00:00		715.31	499.60	206.10	284.93	2.1	329.7		235.84	164.72	67.95	93.94		10.35	18.92	83.84	86.68	31-Jan-18 15:00:00		246.19	183.64	151.79	180.62
31-Jan-18 16:00:00	31-Jan-18 17:00:00		1,013.09	506.19	0.00	286.76	2.1	329.7		334.02	166.89	0.00	94.55		10.35	18.92	83.84	86.68	31-Jan-18 16:00:00		344.37	185.81	83.84	181.23
31-Jan-18 17:00:00	31-Jan-18 18:00:00		1,023.34	496.84	0.00	298.31	2.1	329.7		337.39	163.81	0.00	98.35		10.35	18.92	83.84	86.68	31-Jan-18 17:00:00		347.74	182.73	83.84	185.03
31-Jan-18 18:00:00	31-Jan-18 19:00:00		1,030.72	498.71	0.00	12.16	2.1	329.7		339.83	164.43	0.00	4.01		10.35	18.92	83.84	86.68	31-Jan-18 18:00:00		350.18	183.35	83.84	90.69
31-Jan-18 19:00:00	31-Jan-18 20:00:00		1,035.61	493.19	0.00	7.89	2.1	329.7		341.44	162.60	0.00	2.60		10.35	18.92	83.84	86.68	31-Jan-18 19:00:00		351.79	181.52	83.84	89.28
31-Jan-18 20:00:00	31-Jan-18 21:00:00		1,038.64	490.37	0.00	8.32	2.1	329.7		342.44	161.68	0.00	2.74		10.35	18.92	83.84	86.68	31-Jan-18 20:00:00		352.79	180.60	83.84	89.42
31-Jan-18 21:00:00	31-Jan-18 22:00:00		1,036.41	485.21	0.00	61.04	2.1	329.7		341.71	159.97	0.00	20.13		10.35	18.92	83.84	86.68	31-Jan-18 21:00:00		352.06	178.89	83.84	106.81
31-Jan-18 22:00:00	31-Jan-18 23:00:00		1,041.00	427.78	0.00	8.62	2.1	329.7		343.22	141.04	0.00	2.84		10.35	18.92	83.84	86.68	31-Jan-18 22:00:00		353.57	159.96	83.84	89.52
31-Jan-18 23:00:00	01-Feb-18 00:00:00		1,033.58	0.00	0.00	55.10	2.1	329.7		340.77	0.00	0.00	18.17		10.35	18.92	83.84	86.68	31-Jan-18 23:00:00		351.12	18.92	83.84	104.85
01-Feb-18 00:00:00	01-Feb-18 01:00:00		1,033.33	0.00	0.00	8.65	2.1	329.7		340.69	0.00	0.00	2.85		10.35	18.92	83.84	86.68	01-Feb-18 00:00:00		351.04	18.92	83.84	89.53
01-Feb-18 01:00:00	01-Feb-18 02:00:00		1,034.45	0.00	0.00	8.72	2.1	329.7		341.06	0.00	0.00	2.88		10.35	18.92	83.84	86.68	01-Feb-18 01:00:00		351.41	18.92	83.84	89.56
01-Feb-18 02:00:00	01-Feb-18 03:00:00		1,041.64	0.00	0.00	8.80	2.1	329.7		343.43	0.00	0.00	2.90		10.35	18.92	83.84	86.68	01-Feb-18 02:00:00		353.78	18.92	83.84	89.58
01-Feb-18 03:00:00	01-Feb-18 04:00:00		1,025.19	0.00	0.00	8.87	2.1	329.7		338.00	0.00	0.00	2.92		10.35	18.92	83.84	86.68	01-Feb-18 03:00:00		348.35	18.92	83.84	89.60
01-Feb-18 04:00:00	01-Feb-18 05:00:00		1,022.46	0.00	0.00	8.89	2.1	329.7		337.10	0.00	0.00	2.93		10.35	18.92	83.84	86.68	01-Feb-18 04:00:00		347.45	18.92	83.84	89.61
01-Feb-18 05:00:00	01-Feb-18 06:00:00		1,027.90	0.00	0.00	18.34	2.1	329.7		338.90	0.00	0.00	6.05		10.35	18.92	83.84	86.68	01-Feb-18 05:00:00		349.25	18.92	83.84	92.73
01-Feb-18 06:00:00	01-Feb-18 07:00:00		709.26	0.00	0.00	8.84	2.1	329.7		233.84	0.00	0.00	2.92		10.35	18.92	83.84	86.68	01-Feb-18 06:00:00		244.19	18.92	83.84	89.60
01-Feb-18 07:00:00	01-Feb-18 08:00:00		705.49	0.00	0.00	8.80	2.1	329.7		232.60	0.00	0.00	2.90		10.35	18.92	83.84	86.68	01-Feb-18 07:00:00		242.95	18.92	83.84	89.58
01-Feb-18 08:00:00	01-Feb-18 09:00:00		674.26	0.00	0.00	34.11	2.1	329.7		222.31	0.00	0.00	11.25		10.35	18.92	83.84	86.68	01-Feb-18 08:00:00		232.66	18.92	83.84	97.93
01-Feb-18 09:00:00	01-Feb-18 10:00:00		660.66	0.00	0.00	8.51	2.1	329.7		217.82	0.00	0.00	2.81		10.35	18.92	83.84	86.68	01-Feb-18 09:00:00		228.17	18.92	83.84	89.49
01-Feb-18 10:00:00	01-Feb-18 11:00:00		655.71	0.00	0.00	8.30	2.1	329.7		216.19	0.00	0.00	2.74		10.35	18.92	83.84	86.68	01-Feb-18 10:00:00		226.54	18.92	83.84	89.42
01-Feb-18 11:00:00	01-Feb-18 12:00:00		652.11	0.00	0.00	11.45	2.1	329.7		215.00	0.00	0.00	3.77		10.35	18.92	83.84	86.68	01-Feb-18 11:00:00		225.35	18.92	83.84	90.45
01-Feb-18 12:00:00	01-Feb-18 13:00:00		661.45	0.00	0.00	8.85	2.1	329.7		218.08	0.00	0.00	2.92		10.35	18.92	83.84	86.68	01-Feb-18 12:00:00		228.43	18.92	83.84	89.60
01-Feb-18 13:00:00	01-Feb-18 14:00:00		674.80	0.00	0.00	8.38	2.1	329.7		222.48	0.00	0.00	2.76		10.35	18.92	83.84	86.68	01-Feb-18 13:00:00		232.83	18.92	83.84	89.44
01-Feb-18 14:00:00	01-Feb-18 15:00:00		671.84	0.00	0.00	7.90	2.1	329.7		221.51	0.00	0.00	2.61		10.35	18.92	83.84	86.68	01-Feb-18 14:00:00		231.86	18.92	83.84	89.29
01-Feb-18 15:00:00	01-Feb-18 16:00:00		671.51	0.00	0.00	7.45	2.1	329.7		221.40	0.00	0.00	2.46		10.35	18.92	83.84	86.68	01-Feb-18 15:00:00		231.75	18.92	83.84	89.14
01-Feb-18 16:00:00	01-Feb-18 17:00:00		681.99	0.00	0.00	7.32	2.1	329.7		224.85	0.00	0.00	2.41		10.35	18.92	83.84	86.68	01-Feb-18 16:00:00		235.20	18.92	83.84	89.09
01-Feb-18 17:00:00	01-Feb-18 18:00:00		733.56	0.00	0.00	9.16	2.1	329.7		241.86	0.00	0.00	3.02		10.35	18.92	83.84	86.68	01-Feb-18 17:00:00		252.21	18.92	83.84	89.70
01-Feb-18 18:00:00	01-Feb-18 19:00:00		708.92	0.00	0.00	7.35	2.1	329.7		233.73	0.00	0.00	2.42		10.35	18.92	83.84	86.68	01-Feb-18 18:00:00		244.08	18.92	83.84	89.10
01-Feb-18 19:00:00	01-Feb-18 20:00:00		643.34	0.00	0.00	7.32	2.1	329.7		212.11	0.00	0.00	2.41		10.35	18.92	83.84	86.68	01-Feb-18 19:00:00		222.46	18.92	83.84	89.09
01-Feb-18 20:00:00	01-Feb-18 21:00:00		637.56	0.00	0.00	7.28	2.1	329.7		210.20	0.00	0.00	2.40		10.35	18.92	83.84	86.68	01-Feb-18 20:00:00		220.55	18.92	83.84	89.08
01-Feb-18 21:00:00	01-Feb-18 22:00:00		637.74	0.00	0.00	7.27	2.1	329.7		210.26	0.00	0.00	2.40		10.35	18.92	83.84	86.68	01-Feb-18 21:00:00		220.61	18.92	83.84	89.08
01-Feb-18 22:00:00	01-Feb-18 23:00:00		642.47	0.00	0.00	7.38	2.1	329.7		211.82	0.00	0.00	2.43		10.35	18.92	83.84	86.68	01-Feb-18 22:00:00		222.17	18.92	83.84	89.11
01-Feb-18 23:00:00	02-Feb-18 00:00:00		637.40	0.00	0.00	43.42	2.1	329.7		210.15	0.00	0.00	14.31		10.35	18.92	83.84	86.68	01-Feb-18 23:00:00		220.50	18.92	83.84	100.99
02-Feb-18 00:00:00	02-Feb-18 01:00:00		645.58	0.00	0.00	7.55	2.1	329.7		212.85	0.00	0.00	2.49		10.35	18.92	83.84	86.68	02-Feb-18 00:00:00		223.20	18.92	83.84	89.17
02-Feb-18 01:00:00	02-Feb-18 02:00:00		644.03	0.00	0.00	15.41	2.1	329.7		212.34	0.00	0.00	5.08		10.35	18.92	83.84	86.68	02-Feb-18 01:00:00		222.69	18.92	83.84	91.76
02-Feb-18 02:00:00	02-Feb-18 03:00:00		647.53	0.00	0.00	7.84	2.1	329.7		213.49	0.00	0.00	2.58		10.35	18.92	83.84	86.68	02-Feb-18 02:00:00		223.84	18.92	83.84	89.26
02-Feb-18 03:00:00	02-Feb-18 04:00:00		795.93	0.00	0.00	7.94	2.1	329.7		262.42	0.00	0.00	2.62		10.35	18.92	83.84	86.68	02-Feb-18 03:00:00		272.77	18.92	83.84	89.30
02-Feb-18 04:00:00	02-Feb-18 05:00:00		767.32	0.00	0.00	8.05	2.1	329.7		252.99	0.00	0.00	2.65		10.35	18.92	83.84	86.68	02-Feb-18 04:00:00		263.34	18.92	83.84	89.33
02-Feb-18 05:00:00	02-Feb-18 06:00:00		814.98	0.00	0.00	40.89	2.1	329.7		268.70	0.00	0.00	13.48		10.35	18.92	83.84	86.68	02-Feb-18 05:00:00		279.05	18.92	83.84	100.16
02-Feb-18 06:00:00	02-Feb-18 07:00:00		1,105.44	0.00	0.00	8.40	2.1	329.7		364.46	0.00	0.00	2.77		10.35	18.92	83.84	86.68	02-Feb-18 06:00:00		374.81	18.92	83.84	89.45
02-Feb-18 07:00:00	02-Feb-18 08:00:00		1,233.55	0.00	0.00	14.61	2.1	329.7		406.70	0.00	0.00	4.82		10.35	18.92	83.84	86.68	02-Feb-18 07:00:00		417.05	18.92	83.84	91.50
02-Feb-18 08:00:00	02-Feb-18 09:00:00		1,233.42	0.00	0.00	8.52	2.1	329.7		406.66	0.00	0.00	2.81		10.35	18.92	83.84	86.68	02-Feb-18 08:00:00		417.01	18.92	83.84	89.49
02-Feb-18 09:00:00	02-Feb-18 10:00:00		1,234.87	0.00	0.00	8.40	2.1	329.7		407.14	0.00	0.00	2.77		10.35	18.92	83.84	86.68	02-Feb-18 09:00:00		417.49	18.92	83.84	89.45
02-Feb-18 10:00:00	02-Feb-18 11:00:00		1,235.99	0.00	0.00	8.27	2.1	329.7		407.51	0.00	0.00	2.73		10.35	18.92	83.84	86.68	02-Feb-18 10:00:00		417.86	18.92	83.84	89.41
02-Feb-18 11:00:00	02-Feb-18 12:00:00		1,165.27	0.00	0.00	10.81	2.1	329.7		384.19	0.00	0.00	3.56		10.35	18.92	83.84	86.68	02-Feb-18 11:00:00		394.54	18.92	83.84	90.24
02-Feb-18 12:00:00	02-Feb-18 13:00:00		927.88	0.00	0.00	8.11	2.1	329.7		305.92	0.00	0.00	2.68		10.35	18.92	83.84	86.68	02-Feb-18 12:00:00		316.27	18.92	83.84	89.36
02-Feb-18 13:00:00	02-Feb-18 14:00:00		626.06	0.00	0.00	8.11	2.1	329.7		206.41	0.00	0.00	2.67		10.35	18.92	83.84	86.68	02-Feb-18 13:00:00		216.76	18.92	83.84	89.35
02-Feb-18 14:00:00	02-Feb-18 15:00:00		623.90	0.00	0.00	8.10	2.1	329.7		205.70	0.00	0.00	2.67		10.35	18.92	83.84	86.68	02-Feb-18 14:00:00		216.05	18.92	83.84	89.35
02-Feb-18 15:00:00	02-Feb-18 16:00:00		622.22	0.00	0.00	8.06	2.1	329.7		205.15	0.00	0.00	2.66		10.35	18.92	83.84	86.68	02-Feb-18 15:00:00		215.50	18.92	83.84	89.34
02-Feb-18 16:00:00	02-Feb-18 17:00:00		633.63	0.00	0.00	8.05	2.1	329.7		208.91	0.00	0.00	2.66		10.35	18.92	83.84	86.68	02-Feb-18 16:00:00		219.26	18.92	83.84	89.34
02-Feb-18 17:00:00	02-Feb-18 18:00:00		633.69	0.00	0.00	110.55	2.1	329.7		208.93	0.00	0.00	36.45		10.35	18.92	83.84	86.68	02-Feb-18 17:00:00		219.28	18.92	83.84	123.13
02-Feb-18 18:00:00	02-Feb-18 19:00:00		639.63	0.00	0.00	8.37	2.1	329.7		210.89	0.00	0.00	2.76		10.35	18.92	83.84	86.68	02-Feb-18 18:00:00		221.24	18.92	83.84	89.44
02-Feb-18 19:00:00	02-Feb-18 20:00:00		717.12	0.00	0.00	40.24	2.1	329.7		236.44	0.00	0.00	13.27		10.35	18.92	83.84	86.68	02-Feb-18 19:00:00		246.79	18.92	83.84	99.95
02-Feb-18 20:00:00	02-Feb-18 21:00:00		798.98	0.00	0.00	8.98	2.1	329.7		263.42	0.00	0.00	2.96		10.35	18.92	83.84	86.68	02-Feb-18 20:00:00		273.77	18.92	83.84	89.64
02-Feb-18 21:00:00	02-Feb-18 22:00:00		851.78	0.00	0.00	9.23	2.1	329.7		280.83	0.00	0.00	3.04		10.35	18.92	83.84	86.68	02-Feb-18 21:00:00		291.18	18.92	83.84	89.72
02-Feb-18 22:00:00	02-Feb-18 23:00:00		927.98	0.00	0.00	9.49	2.1	329.7		305.96	0.00	0.00	3.13		10.35	18.92	83.84	86.68	02-Feb-18 22:00:00		316.31	18.92	83.84	89.81
02-Feb-18 23:00:00	03-Feb-18 00:00:00		942.57	0.00	0.00	9.73	2.1	329.7		310.76	0.00	0.00	3.21		10.35	18.92	83.84	86.68	02-Feb-18 23:00:00		321.11	18.92	83.84	89.89
03-Feb-18 00:00:00	03-Feb-18 01:00:00		980.52	0.00	0.00	9.58	2.1	329.7		323.28	0.00	0.00	3.16		10.35	18.92	83.84	86.68	03-Feb-18 00:00:00		333.63	18.92	83.84	89.84
03-Feb-18 01:00:00	03-Feb-18 02:00:00		975.04	0.00	0.00	9.57	2.1	329.7		321.47	0.00	0.00	3.16		10.35	18.92	83.84	86.68	03-Feb-18 01:00:00		331.82	18.92	83.84	89.84
03-Feb-18 02:00:00	03-Feb-18 03:00:00		921.92	0.00	0.00	9.56	2.1	329.7		303.96	0.00	0.00	3.15		10.35	18.92	83.84	86.68	03-Feb-18 02:00:00		314.31	18.92	83.84	89.83
03-Feb-18 03:00:00	03-Feb-18 04:00:00		826.69	0.00	0.00	38.02	2.1	329.7		272.56	0.00	0.00	12.53		10.35	18.92	83.84	86.68	03-Feb-18 03:00:00		282.91	18.92	83.84	99.21
03-Feb-18 04:00:00	03-Feb-18 05:00:00		833.20	0.00	0.00	9.67	2.1	329.7		274.71	0.00	0.00	3.19		10.35	18.92	83.84	86.68	03-Feb-18 04:00:00		285.06	18.92	83.84	89.87
03-Feb-18 05:00:00	03-Feb-18 06:00:00		825.06	0.00	0.00	59.97	2.1	329.7		272.02	0.00	0.00	19.77		10.35	18.92	83.84	86.68	03-Feb-18 05:00:00		282.37	18.92	83.84	106.45
03-Feb-18 06:00:00	03-Feb-18 07:00:00		915.67	0.00	0.00	9.83	2.1	329.7		301.90	0.00	0.00	3.24		10.35	18.92	83.84	86.68	03-Feb-18 06:00:00		312.25	18.92	83.84	89.92
03-Feb-18 07:00:00	03-Feb-18 08:00:00		1,058.22	0.00	0.00	9.96	2.1	329.7		348.89	0.00	0.00	3.28		10.35	18.92	83.84	86.68	03-Feb-18 07:00:00		359.24	18.92	83.84	89.96
03-Feb-18 08:00:00	03-Feb-18 09:00:00		847.90	0.00	0.00	10.09	2.1	329.7		279.55	0.00	0.00	3.33		10.35	18.92	83.84	86.68	03-Feb-18 08:00:00		289.90	18.92	83.84	90.01
03-Feb-18 09:00:00	03-Feb-18 10:00:00		530.28	0.00	0.00	10.15	2.1	329.7		174.83	0.00	0.00	3.35		10.35	18.92	83.84	86.68	03-Feb-18 09:00:00		185.18	18.92	83.84	90.03
03-Feb-18 10:00:00	03-Feb-18 11:00:00		236.00	0.00	0.00	9.72	2.1	329.7		77.81	0.00	0.00	3.20		10.35	18.92	83.84	86.68	03-Feb-18 10:00:00		88.16	18.92	83.84	89.88
03-Feb-18 11:00:00	03-Feb-18 12:00:00		0.00	0.00	0.00	9.21	2.1	329.7		0.00	0.00	0.00	3.04		10.35	18.92	83.84	86.68	03-Feb-18 11:00:00		10.35	18.92	83.84	89.72
03-Feb-18 12:00:00	03-Feb-18 13:00:00		0.30	0.00	0.00	86.69	2.1	329.7		0.10	0.00	0.00	28.58		10.35	18.92	83.84	86.68	03-Feb-18 12:00:00		10.45	18.92	83.84	115.26
03-Feb-18 13:00:00	03-Feb-18 14:00:00		4.87	0.00	0.00	8.73	2.1	329.7		1.61	0.00	0.00	2.88		10.35	18.92	83.84	86.68	03-Feb-18 13:00:00		11.96	18.92	83.84	89.56
03-Feb-18 14:00:00	03-Feb-18 15:00:00		7.60	0.00	0.00	8.58	2.1	329.7		2.51	0.00	0.00	2.83		10.35	18.92	83.84	86.68	03-Feb-18 14:00:00		12.86	18.92	83.84	89.51
03-Feb-18 15:00:00	03-Feb-18 16:00:00		0.14	0.00	0.00	8.43	2.1	329.7		0.05	0.00	0.00	2.78		10.35	18.92	83.84	86.68	03-Feb-18 15:00:00		10.40

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
05-Feb-18 18:00:00	05-Feb-18 19:00:00		28.38	0.00	0.00	8.26	2.1	329.7		9.36	0.00	0.00	2.72		10.35	18.92	83.84	86.68	05-Feb-18 18:00:00		**19.71**	**18.92**	**83.84**	**89.40**
05-Feb-18 19:00:00	05-Feb-18 20:00:00		26.98	0.00	0.00	8.04	2.1	329.7		8.90	0.00	0.00	2.65		10.35	18.92	83.84	86.68	05-Feb-18 19:00:00		**19.25**	**18.92**	**83.84**	**89.33**
05-Feb-18 20:00:00	05-Feb-18 21:00:00		9.87	0.00	0.00	34.89	2.1	329.7		3.25	0.00	0.00	11.50		10.35	18.92	83.84	86.68	05-Feb-18 20:00:00		**13.60**	**18.92**	**83.84**	**98.18**
05-Feb-18 21:00:00	05-Feb-18 22:00:00		0.00	0.00	0.00	8.27	2.1	329.7		0.00	0.00	0.00	2.73		10.35	18.92	83.84	86.68	05-Feb-18 21:00:00		**10.35**	**18.92**	**83.84**	**89.41**
05-Feb-18 22:00:00	05-Feb-18 23:00:00		0.73	0.00	0.00	8.37	2.1	329.7		0.24	0.00	0.00	2.76		10.35	18.92	83.84	86.68	05-Feb-18 22:00:00		**10.59**	**18.92**	**83.84**	**89.44**
05-Feb-18 23:00:00	06-Feb-18 00:00:00		12.01	0.00	0.00	8.47	2.1	329.7		3.96	0.00	0.00	2.79		10.35	18.92	83.84	86.68	05-Feb-18 23:00:00		**14.31**	**18.92**	**83.84**	**89.47**
06-Feb-18 00:00:00	06-Feb-18 01:00:00		5.82	0.00	0.00	8.59	2.1	329.7		1.92	0.00	0.00	2.83		10.35	18.92	83.84	86.68	06-Feb-18 00:00:00		**12.27**	**18.92**	**83.84**	**89.51**
06-Feb-18 01:00:00	06-Feb-18 02:00:00		4.13	0.00	0.00	8.77	2.1	329.7		1.36	0.00	0.00	2.89		10.35	18.92	83.84	86.68	06-Feb-18 01:00:00		**11.71**	**18.92**	**83.84**	**89.57**
06-Feb-18 02:00:00	06-Feb-18 03:00:00		2.21	0.00	0.00	8.87	2.1	329.7		0.73	0.00	0.00	2.92		10.35	18.92	83.84	86.68	06-Feb-18 02:00:00		**11.08**	**18.92**	**83.84**	**89.60**
06-Feb-18 03:00:00	06-Feb-18 04:00:00		0.38	0.00	0.00	8.96	2.1	329.7		0.13	0.00	0.00	2.96		10.35	18.92	83.84	86.68	06-Feb-18 03:00:00		**10.48**	**18.92**	**83.84**	**89.64**
06-Feb-18 04:00:00	06-Feb-18 05:00:00		0.00	0.00	0.00	9.05	2.1	329.7		0.00	0.00	0.00	2.99		10.35	18.92	83.84	86.68	06-Feb-18 04:00:00		**10.35**	**18.92**	**83.84**	**89.67**
06-Feb-18 05:00:00	06-Feb-18 06:00:00		0.29	0.00	0.00	8.99	2.1	329.7		0.09	0.00	0.00	2.96		10.35	18.92	83.84	86.68	06-Feb-18 05:00:00		**10.44**	**18.92**	**83.84**	**89.64**
06-Feb-18 06:00:00	06-Feb-18 07:00:00		0.00	0.00	0.00	8.84	2.1	329.7		0.00	0.00	0.00	2.92		10.35	18.92	83.84	86.68	06-Feb-18 06:00:00		**10.35**	**18.92**	**83.84**	**89.60**
06-Feb-18 07:00:00	06-Feb-18 08:00:00		0.00	0.00	0.00	8.70	2.1	329.7		0.00	0.00	0.00	2.87		10.35	18.92	83.84	86.68	06-Feb-18 07:00:00		**10.35**	**18.92**	**83.84**	**89.55**
06-Feb-18 08:00:00	06-Feb-18 09:00:00		0.00	0.00	0.00	43.19	2.1	329.7		0.00	0.00	0.00	14.24		10.35	18.92	83.84	86.68	06-Feb-18 08:00:00		**10.35**	**18.92**	**83.84**	**100.92**
06-Feb-18 09:00:00	06-Feb-18 10:00:00		0.21	0.00	0.00	8.25	2.1	329.7		0.07	0.00	0.00	2.72		10.35	18.92	83.84	86.68	06-Feb-18 09:00:00		**10.42**	**18.92**	**83.84**	**89.40**
06-Feb-18 10:00:00	06-Feb-18 11:00:00		4.47	0.00	0.00	7.94	2.1	329.7		1.47	0.00	0.00	2.62		10.35	18.92	83.84	86.68	06-Feb-18 10:00:00		**11.82**	**18.92**	**83.84**	**89.30**
06-Feb-18 11:00:00	06-Feb-18 12:00:00		0.04	0.00	0.00	7.62	2.1	329.7		0.01	0.00	0.00	2.51		10.35	18.92	83.84	86.68	06-Feb-18 11:00:00		**10.36**	**18.92**	**83.84**	**89.19**
06-Feb-18 12:00:00	06-Feb-18 13:00:00		9.51	0.00	0.00	7.26	2.1	329.7		3.14	0.00	0.00	2.39		10.35	18.92	83.84	86.68	06-Feb-18 12:00:00		**13.49**	**18.92**	**83.84**	**89.07**
06-Feb-18 13:00:00	06-Feb-18 14:00:00		15.58	0.00	0.00	6.98	2.1	329.7		5.14	0.00	0.00	2.30		10.35	18.92	83.84	86.68	06-Feb-18 13:00:00		**15.49**	**18.92**	**83.84**	**88.98**
06-Feb-18 14:00:00	06-Feb-18 15:00:00		25.86	0.00	0.00	6.92	2.1	329.7		8.53	0.00	0.00	2.28		10.35	18.92	83.84	86.68	06-Feb-18 14:00:00		**18.88**	**18.92**	**83.84**	**88.96**
06-Feb-18 15:00:00	06-Feb-18 16:00:00		20.33	0.00	0.00	6.86	2.1	329.7		6.70	0.00	0.00	2.26		10.35	18.92	83.84	86.68	06-Feb-18 15:00:00		**17.05**	**18.92**	**83.84**	**88.94**
06-Feb-18 16:00:00	06-Feb-18 17:00:00		17.94	0.00	0.00	6.81	2.1	329.7		5.91	0.00	0.00	2.25		10.35	18.92	83.84	86.68	06-Feb-18 16:00:00		**16.26**	**18.92**	**83.84**	**88.93**
06-Feb-18 17:00:00	06-Feb-18 18:00:00		17.81	0.00	0.00	6.86	2.1	329.7		5.87	0.00	0.00	2.26		10.35	18.92	83.84	86.68	06-Feb-18 17:00:00		**16.22**	**18.92**	**83.84**	**88.94**
06-Feb-18 18:00:00	06-Feb-18 19:00:00		11.88	0.00	0.00	6.90	2.1	329.7		3.92	0.00	0.00	2.28		10.35	18.92	83.84	86.68	06-Feb-18 18:00:00		**14.27**	**18.92**	**83.84**	**88.96**
06-Feb-18 19:00:00	06-Feb-18 20:00:00		9.48	0.00	0.00	6.95	2.1	329.7		3.13	0.00	0.00	2.29		10.35	18.92	83.84	86.68	06-Feb-18 19:00:00		**13.48**	**18.92**	**83.84**	**88.97**
06-Feb-18 20:00:00	06-Feb-18 21:00:00		9.25	0.00	0.00	7.03	2.1	329.7		3.05	0.00	0.00	2.32		10.35	18.92	83.84	86.68	06-Feb-18 20:00:00		**13.40**	**18.92**	**83.84**	**89.00**
06-Feb-18 21:00:00	06-Feb-18 22:00:00		8.42	0.00	0.00	7.30	2.1	329.7		2.78	0.00	0.00	2.41		10.35	18.92	83.84	86.68	06-Feb-18 21:00:00		**13.13**	**18.92**	**83.84**	**89.09**
06-Feb-18 22:00:00	06-Feb-18 23:00:00		7.67	0.00	0.00	7.53	2.1	329.7		2.53	0.00	0.00	2.48		10.35	18.92	83.84	86.68	06-Feb-18 22:00:00		**12.88**	**18.92**	**83.84**	**89.16**
06-Feb-18 23:00:00	07-Feb-18 00:00:00		3.13	0.00	0.00	7.75	2.1	329.7		1.03	0.00	0.00	2.56		10.35	18.92	83.84	86.68	06-Feb-18 23:00:00		**11.38**	**18.92**	**83.84**	**89.24**
07-Feb-18 00:00:00	07-Feb-18 01:00:00		2.92	0.00	0.00	7.97	2.1	329.7		0.96	0.00	0.00	2.63		10.35	18.92	83.84	86.68	07-Feb-18 00:00:00		**11.31**	**18.92**	**83.84**	**89.31**
07-Feb-18 01:00:00	07-Feb-18 02:00:00		4.02	0.00	0.00	8.03	2.1	329.7		1.33	0.00	0.00	2.65		10.35	18.92	83.84	86.68	07-Feb-18 01:00:00		**11.68**	**18.92**	**83.84**	**89.33**
07-Feb-18 02:00:00	07-Feb-18 03:00:00		1.91	0.00	0.00	8.05	2.1	329.7		0.63	0.00	0.00	2.66		10.35	18.92	83.84	86.68	07-Feb-18 02:00:00		**10.98**	**18.92**	**83.84**	**89.34**
07-Feb-18 03:00:00	07-Feb-18 04:00:00		3.31	0.00	0.00	8.08	2.1	329.7		1.09	0.00	0.00	2.66		10.35	18.92	83.84	86.68	07-Feb-18 03:00:00		**11.44**	**18.92**	**83.84**	**89.34**
07-Feb-18 04:00:00	07-Feb-18 05:00:00		4.28	0.00	0.00	8.11	2.1	329.7		1.41	0.00	0.00	2.67		10.35	18.92	83.84	86.68	07-Feb-18 04:00:00		**11.76**	**18.92**	**83.84**	**89.35**
07-Feb-18 05:00:00	07-Feb-18 06:00:00		5.20	0.00	0.00	8.09	2.1	329.7		1.71	0.00	0.00	2.67		10.35	18.92	83.84	86.68	07-Feb-18 05:00:00		**12.06**	**18.92**	**83.84**	**89.35**
07-Feb-18 06:00:00	07-Feb-18 07:00:00		4.59	0.00	0.00	8.07	2.1	329.7		1.51	0.00	0.00	2.66		10.35	18.92	83.84	86.68	07-Feb-18 06:00:00		**11.86**	**18.92**	**83.84**	**89.34**
07-Feb-18 07:00:00	07-Feb-18 08:00:00		3.58	0.00	0.00	51.49	2.1	329.7		1.18	0.00	0.00	16.98		10.35	18.92	83.84	86.68	07-Feb-18 07:00:00		**11.53**	**18.92**	**83.84**	**103.66**
07-Feb-18 08:00:00	07-Feb-18 09:00:00		364.19	0.00	0.00	103.09	2.1	329.7		120.07	0.00	0.00	33.99		10.35	18.92	83.84	86.68	07-Feb-18 08:00:00		**130.42**	**18.92**	**83.84**	**120.67**
07-Feb-18 09:00:00	07-Feb-18 10:00:00		411.45	0.00	0.00	7.35	2.1	329.7		135.65	0.00	0.00	2.42		10.35	18.92	83.84	86.68	07-Feb-18 09:00:00		**146.00**	**18.92**	**83.84**	**89.10**
07-Feb-18 10:00:00	07-Feb-18 11:00:00		427.43	0.00	0.00	7.21	2.1	329.7		140.92	0.00	0.00	2.38		10.35	18.92	83.84	86.68	07-Feb-18 10:00:00		**151.27**	**18.92**	**83.84**	**89.06**
07-Feb-18 11:00:00	07-Feb-18 12:00:00		434.68	0.00	0.00	7.06	2.1	329.7		143.31	0.00	0.00	2.33		10.35	18.92	83.84	86.68	07-Feb-18 11:00:00		**153.66**	**18.92**	**83.84**	**89.01**
07-Feb-18 12:00:00	07-Feb-18 13:00:00		427.35	0.00	0.00	7.13	2.1	329.7		140.90	0.00	0.00	2.35		10.35	18.92	83.84	86.68	07-Feb-18 12:00:00		**151.25**	**18.92**	**83.84**	**89.03**
07-Feb-18 13:00:00	07-Feb-18 14:00:00		159.95	0.00	0.00	56.25	2.1	329.7		52.74	0.00	0.00	18.55		10.35	18.92	83.84	86.68	07-Feb-18 13:00:00		**63.09**	**18.92**	**83.84**	**105.23**
07-Feb-18 14:00:00	07-Feb-18 15:00:00		0.00	0.00	0.00	8.07	2.1	329.7		0.00	0.00	0.00	2.66		10.35	18.92	83.84	86.68	07-Feb-18 14:00:00		**10.35**	**18.92**	**83.84**	**89.34**
07-Feb-18 15:00:00	07-Feb-18 16:00:00		0.00	0.00	0.00	7.70	2.1	329.7		0.00	0.00	0.00	2.54		10.35	18.92	83.84	86.68	07-Feb-18 15:00:00		**10.35**	**18.92**	**83.84**	**89.22**
07-Feb-18 16:00:00	07-Feb-18 17:00:00		0.00	0.00	0.00	7.34	2.1	329.7		0.00	0.00	0.00	2.42		10.35	18.92	83.84	86.68	07-Feb-18 16:00:00		**10.35**	**18.92**	**83.84**	**89.10**
07-Feb-18 17:00:00	07-Feb-18 18:00:00		0.00	0.00	0.00	7.10	2.1	329.7		0.00	0.00	0.00	2.34		10.35	18.92	83.84	86.68	07-Feb-18 17:00:00		**10.35**	**18.92**	**83.84**	**89.02**
07-Feb-18 18:00:00	07-Feb-18 19:00:00		0.00	0.00	0.00	7.19	2.1	329.7		0.00	0.00	0.00	2.37		10.35	18.92	83.84	86.68	07-Feb-18 18:00:00		**10.35**	**18.92**	**83.84**	**89.05**
07-Feb-18 19:00:00	07-Feb-18 20:00:00		0.00	0.00	0.00	7.29	2.1	329.7		0.00	0.00	0.00	2.40		10.35	18.92	83.84	86.68	07-Feb-18 19:00:00		**10.35**	**18.92**	**83.84**	**89.08**
07-Feb-18 20:00:00	07-Feb-18 21:00:00		0.00	0.00	0.00	7.38	2.1	329.7		0.00	0.00	0.00	2.43		10.35	18.92	83.84	86.68	07-Feb-18 20:00:00		**10.35**	**18.92**	**83.84**	**89.11**
07-Feb-18 21:00:00	07-Feb-18 22:00:00		0.00	0.00	0.00	7.46	2.1	329.7		0.00	0.00	0.00	2.46		10.35	18.92	83.84	86.68	07-Feb-18 21:00:00		**10.35**	**18.92**	**83.84**	**89.14**
07-Feb-18 22:00:00	07-Feb-18 23:00:00		0.00	0.00	0.00	7.47	2.1	329.7		0.00	0.00	0.00	2.46		10.35	18.92	83.84	86.68	07-Feb-18 22:00:00		**10.35**	**18.92**	**83.84**	**89.14**
07-Feb-18 23:00:00	08-Feb-18 00:00:00		0.00	0.00	0.00	7.47	2.1	329.7		0.00	0.00	0.00	2.46		10.35	18.92	83.84	86.68	07-Feb-18 23:00:00		**10.35**	**18.92**	**83.84**	**89.14**
08-Feb-18 00:00:00	08-Feb-18 01:00:00		0.00	0.00	0.00	9.61	2.1	329.7		0.00	0.00	0.00	3.17		10.35	18.92	83.84	86.68	08-Feb-18 00:00:00		**10.35**	**18.92**	**83.84**	**89.85**
08-Feb-18 01:00:00	08-Feb-18 02:00:00		0.00	0.00	0.00	69.94	2.1	329.7		0.00	0.00	0.00	23.06		10.35	18.92	83.84	86.68	08-Feb-18 01:00:00		**10.35**	**18.92**	**83.84**	**109.74**
08-Feb-18 02:00:00	08-Feb-18 03:00:00		0.00	0.00	0.00	7.60	2.1	329.7		0.00	0.00	0.00	2.51		10.35	18.92	83.84	86.68	08-Feb-18 02:00:00		**10.35**	**18.92**	**83.84**	**89.19**
08-Feb-18 03:00:00	08-Feb-18 04:00:00		0.00	0.00	0.00	7.65	2.1	329.7		0.00	0.00	0.00	2.52		10.35	18.92	83.84	86.68	08-Feb-18 03:00:00		**10.35**	**18.92**	**83.84**	**89.20**
08-Feb-18 04:00:00	08-Feb-18 05:00:00		0.88	0.00	0.00	7.69	2.1	329.7		0.29	0.00	0.00	2.54		10.35	18.92	83.84	86.68	08-Feb-18 04:00:00		**10.64**	**18.92**	**83.84**	**89.22**
08-Feb-18 05:00:00	08-Feb-18 06:00:00		2.33	0.00	0.00	8.07	2.1	329.7		0.77	0.00	0.00	2.66		10.35	18.92	83.84	86.68	08-Feb-18 05:00:00		**11.12**	**18.92**	**83.84**	**89.34**
08-Feb-18 06:00:00	08-Feb-18 07:00:00		2.84	0.00	0.00	54.46	2.1	329.7		0.94	0.00	0.00	17.96		10.35	18.92	83.84	86.68	08-Feb-18 06:00:00		**11.29**	**18.92**	**83.84**	**104.64**
08-Feb-18 07:00:00	08-Feb-18 08:00:00		0.71	0.00	0.00	8.60	2.1	329.7		0.23	0.00	0.00	2.84		10.35	18.92	83.84	86.68	08-Feb-18 07:00:00		**10.58**	**18.92**	**83.84**	**89.52**
08-Feb-18 08:00:00	08-Feb-18 09:00:00		1.18	0.00	0.00	8.61	2.1	329.7		0.39	0.00	0.00	2.84		10.35	18.92	83.84	86.68	08-Feb-18 08:00:00		**10.74**	**18.92**	**83.84**	**89.52**
08-Feb-18 09:00:00	08-Feb-18 10:00:00		6.87	0.00	0.00	8.61	2.1	329.7		2.27	0.00	0.00	2.84		10.35	18.92	83.84	86.68	08-Feb-18 09:00:00		**12.62**	**18.92**	**83.84**	**89.52**
08-Feb-18 10:00:00	08-Feb-18 11:00:00		2.28	0.00	0.00	8.52	2.1	329.7		0.75	0.00	0.00	2.81		10.35	18.92	83.84	86.68	08-Feb-18 10:00:00		**11.10**	**18.92**	**83.84**	**89.49**
08-Feb-18 11:00:00	08-Feb-18 12:00:00		131.03	0.00	0.00	8.38	2.1	329.7		43.20	0.00	0.00	2.76		10.35	18.92	83.84	86.68	08-Feb-18 11:00:00		**53.55**	**18.92**	**83.84**	**89.44**
08-Feb-18 12:00:00	08-Feb-18 13:00:00		724.17	0.00	0.00	8.24	2.1	329.7		238.76	0.00	0.00	2.72		10.35	18.92	83.84	86.68	08-Feb-18 12:00:00		**249.11**	**18.92**	**83.84**	**89.40**
08-Feb-18 13:00:00	08-Feb-18 14:00:00		720.20	0.00	0.00	8.09	2.1	329.7		237.45	0.00	0.00	2.67		10.35	18.92	83.84	86.68	08-Feb-18 13:00:00		**247.80**	**18.92**	**83.84**	**89.35**
08-Feb-18 14:00:00	08-Feb-18 15:00:00		1,150.10	0.00	0.00	7.98	2.1	329.7		379.19	0.00	0.00	2.63		10.35	18.92	83.84	86.68	08-Feb-18 14:00:00		**389.54**	**18.92**	**83.84**	**89.31**
08-Feb-18 15:00:00	08-Feb-18 16:00:00		1,135.85	173.21	0.00	7.89	2.1	329.7		374.49	57.11	0.00	2.60		10.35	18.92	83.84	86.68	08-Feb-18 15:00:00		**384.84**	**76.03**	**83.84**	**89.28**
08-Feb-18 16:00:00	08-Feb-18 17:00:00		1,155.60	828.61	0.00	7.80	2.1	329.7		381.00	273.19	0.00	2.57		10.35	18.92	83.84	86.68	08-Feb-18 16:00:00		**391.35**	**292.11**	**83.84**	**89.25**
08-Feb-18 17:00:00	08-Feb-18 18:00:00		1,187.04	847.23	0.00	7.71	2.1	329.7		391.37	279.33	0.00	2.54		10.35	18.92	83.84	86.68	08-Feb-18 17:00:00		**401.72**	**298.25**	**83.84**	**89.22**
08-Feb-18 18:00:00	08-Feb-18 19:00:00		1,195.53	849.11	0.00	7.80	2.1	329.7		394.17	279.95	0.00	2.57		10.35	18.92	83.84	86.68	08-Feb-18 18:00:00		**404.52**	**298.87**	**83.84**	**89.25**
08-Feb-18 19:00:00	08-Feb-18 20:00:00		1,199.42	848.40	0.00	8.00	2.1	329.7		395.45	279.72	0.00	2.64		10.35	18.92	83.84	86.68	08-Feb-18 19:00:00		**405.80**	**298.64**	**83.84**	**89.32**
08-Feb-18 20:00:00	08-Feb-18 21:00:00		1,192.87	848.19	0.00	8.21	2.1	329.7		393.29	279.65	0.00	2.71		10.35	18.92	83.84	86.68	08-Feb-18 20:00:00		**403.64**	**298.57**	**83.84**	**89.39**
08-Feb-18 21:00:00	08-Feb-18 22:00:00		1,154.69	719.61	0.00	8.43	2.1	329.7		380.70	237.26	0.00	2.78		10.35	18.92	83.84	86.68	08-Feb-18 21:00:00		**391.05**	**256.18**	**83.84**	**89.46**
08-Feb-18 22:00:00	08-Feb-18 23:00:00		1,132.73	302.23	0.00	8.64	2.1	329.7		373.46	99.65	0.00	2.85		10.35	18.92	83.84	86.68	08-Feb-18 22:00:00		**383.81**	**118.57**	**83.84**	**89.53**
08-Feb-18 23:00:00	09-Feb-18 00:00:00		1,190.03	424.39	0.00	8.71	2.1	329.7		392.35	139.92	0.00	2.87		10.35	18.92	83.84	86.68	08-Feb-18 23:00:00		**402.70**	**158.84**	**83.84**	**89.55**
09-Feb-18 00:00:00	09-Feb-18 01:00:00		1,188.06	516.09	0.00	8.77	2.1	329.7		391.70	170.15	0.00	2.89		10.35	18.92	83.84	86.68	09-Feb-18 00:00:00		**402.05**	**189.07**	**83.84**	**89.57**
09-Feb-18 01:00:00	09-Feb-18 19:00:00		954.16	435.30	0.00	8.82	2.1	329.7		314.59	143.52	0.00	2.91		10.35	18.92	83.84	86.68	09-Feb-18 01:00:00		**324.94**	**162.44**	**83.84**	**89.59**
09-Feb-18 02:00:00	09-Feb-18 03:00:00		877.87	475.71	0.00	8.72	2.1	329.7		289.43	156.84	0.00	2.88		10.35	18.92	83.84	86.68	09-Feb-18 02:00:00		**299.78**	**175.76**	**83.84**	**89.56**
09-Feb-18 03:00:00	09-Feb-18 04:00:00		664.84	399.69	0.00	8.86	2.1	329.7		219.20	131.78	0.00	2.92		10.35	18.92	83.84	86.68	09-Feb-18 03:00:00		**229.55**	**150.70**	**83.84**	**89.60**
09-Feb-18 04:00:00	09-Feb-18 05:00:00		410.47	138.66	0.00	9.00	2.1	329.7		135.33	45.71	0.00	2.97		10.35	18.92	83.84	86.68	09-Feb-18 04:00:00		**145.68**	**64.63**	**83.84**	**89.65**
09-Feb-18 05:00:00	09-Feb-18 06:00:00		1.12	0.00	0.00	9.14	2.1	329.7		0.37	0.00	0.00	3.01		10.35	18.92	83.84	86.68	09-Feb-18 05:00:00		**10.72**	**18.92**	**83.84**	**89.69**
09-Feb-18 06:00:00	09-Feb-18 07:00:00		242.29	337.80	0.00	9.12	2.1	329.7		79.88	111.37	0.00	3.01		10.35	18.92	83.84	86.68	09-Feb-18 06:00:00		**90.23**	**130.29**	**83.84**	**89.69**
09-Feb-18 07:00:00	09-Feb-18 08:00:00		756.87	801.02	0.00	8.99	2.1	329.7		249.54	264.10	0.00	2.96		10.35	18.92	83.84	86.68	09-Feb-18 07:00:00		**259.89**	**283.02**	**83.84**	**89.64**
09-Feb-18 08:00:00	09-Feb-18 09:00:00		862.03	799.40	0.00	8.86	2.1	329.7		284.21	263.56	0.00	2.92		10.35	18.92	83.84	86.68	09-Feb-18 08:00:00		**294.56**	**282.48**	**83.84**	**89.60**
09-Feb-18 09:00:00	09-Feb-18 10:00:00		870.17	717.57	0.00	118.70	2.1	329.7		286.90	236.58	0.00	39.13		10.35	18.92	83.84	86.68	09-Feb-18 09:00:00		**297.25**	**255.50**	**83.84**	**125.81**
09-Feb-18 10:00:00	09-Feb-18 11:00:00		572.02	461.08	0.00	8.48	2.1	329.7		188.60	152.02	0.00	2.80		10.35	18.92	83.84	86.68	09-Feb-18 10:00:00		**198.95**	**170.94**	**83.84**	**89.48**
09-Feb-18 11:00:00	09-Feb-18 12:00:00		0.84	218.13	0.00	8.11	2.1	329.7		0.28	71.92	0.00	2.67		10.35	18.92	83.84	86.68	09-Feb-18 11:00:00		**10.63**	**90.84**	**83.84**	**89.35**
09-Feb-18 12:00:00	09-Feb-18 13:00:00		0.07	215.24	0.00	7.73	2.1	329.7		0.02	70.96	0.00	2.55		10.35	18.92	83.84	86.68	09-Feb-18 12:00:00		**10.37**	**89.88**	**83.84**	**89.23**
09-Feb-18 13:00:00	09-Feb-18 14:00:00		0.97	101.84	0.00	7.51	2.1	329.7		0.32	33.58	0.00	2.48		10.35	18.92	83.84	86.68	09-Feb-18 13:00:00		**10.67**	**52.50**	**83.84**	**89.16**
09-Feb-18 14:00:00	09-Feb-18 15:00:00		4.29	0.00	0.00	63.94	2.1	329.7		1.42	0.00	0.00	21.08		10.35	18.92	83.84	86.68	09-Feb-18 14:00:00		**11.77**	**18.92**	**83.84**	**107.76**
09-Feb-18 15:00:00	09-Feb-18 16:00:00		9

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
11-Feb-18 17:00:00	11-Feb-18 18:00:00		4.57	0.00	0.00	7.10	2.1	329.7		1.51	0.00	0.00	2.34		10.35	18.92	83.84	86.68	11-Feb-18 17:00:00		11.86	18.92	83.84	89.02
11-Feb-18 18:00:00	11-Feb-18 19:00:00		4.78	0.00	0.00	10.77	2.1	329.7		1.58	0.00	0.00	3.55		10.35	18.92	83.84	86.68	11-Feb-18 18:00:00		11.93	18.92	83.84	90.23
11-Feb-18 19:00:00	11-Feb-18 20:00:00		2.73	0.00	0.00	7.24	2.1	329.7		0.90	0.00	0.00	2.39		10.35	18.92	83.84	86.68	11-Feb-18 19:00:00		11.25	18.92	83.84	89.07
11-Feb-18 20:00:00	11-Feb-18 21:00:00		2.23	0.00	0.00	7.31	2.1	329.7		0.73	0.00	0.00	2.41		10.35	18.92	83.84	86.68	11-Feb-18 20:00:00		11.08	18.92	83.84	89.09
11-Feb-18 21:00:00	11-Feb-18 22:00:00		2.12	0.00	0.00	7.39	2.1	329.7		0.70	0.00	0.00	2.44		10.35	18.92	83.84	86.68	11-Feb-18 21:00:00		11.05	18.92	83.84	89.12
11-Feb-18 22:00:00	11-Feb-18 23:00:00		2.00	0.00	0.00	7.46	2.1	329.7		0.66	0.00	0.00	2.46		10.35	18.92	83.84	86.68	11-Feb-18 22:00:00		11.01	18.92	83.84	89.14
11-Feb-18 23:00:00	12-Feb-18 00:00:00		1.98	0.00	0.00	7.56	2.1	329.7		0.65	0.00	0.00	2.49		10.35	18.92	83.84	86.68	11-Feb-18 23:00:00		11.00	18.92	83.84	89.17
12-Feb-18 00:00:00	12-Feb-18 01:00:00		1.84	0.00	0.00	7.66	2.1	329.7		0.61	0.00	0.00	2.53		10.35	18.92	83.84	86.68	12-Feb-18 00:00:00		10.96	18.92	83.84	89.21
12-Feb-18 01:00:00	12-Feb-18 02:00:00		1.68	0.00	0.00	7.76	2.1	329.7		0.55	0.00	0.00	2.56		10.35	18.92	83.84	86.68	12-Feb-18 01:00:00		10.90	18.92	83.84	89.24
12-Feb-18 02:00:00	12-Feb-18 03:00:00		1.51	0.00	0.00	7.88	2.1	329.7		0.50	0.00	0.00	2.60		10.35	18.92	83.84	86.68	12-Feb-18 02:00:00		10.85	18.92	83.84	89.28
12-Feb-18 03:00:00	12-Feb-18 04:00:00		1.58	0.00	0.00	7.94	2.1	329.7		0.52	0.00	0.00	2.62		10.35	18.92	83.84	86.68	12-Feb-18 03:00:00		10.87	18.92	83.84	89.30
12-Feb-18 04:00:00	12-Feb-18 05:00:00		1.41	0.00	0.00	8.00	2.1	329.7		0.46	0.00	0.00	2.64		10.35	18.92	83.84	86.68	12-Feb-18 04:00:00		10.81	18.92	83.84	89.32
12-Feb-18 05:00:00	12-Feb-18 06:00:00		1.19	0.00	0.00	8.06	2.1	329.7		0.39	0.00	0.00	2.66		10.35	18.92	83.84	86.68	12-Feb-18 05:00:00		10.74	18.92	83.84	89.34
12-Feb-18 06:00:00	12-Feb-18 07:00:00		0.97	0.00	0.00	7.98	2.1	329.7		0.32	0.00	0.00	2.63		10.35	18.92	83.84	86.68	12-Feb-18 06:00:00		10.67	18.92	83.84	89.31
12-Feb-18 07:00:00	12-Feb-18 08:00:00		0.71	0.00	0.00	7.90	2.1	329.7		0.23	0.00	0.00	2.61		10.35	18.92	83.84	86.68	12-Feb-18 07:00:00		10.58	18.92	83.84	89.29
12-Feb-18 08:00:00	12-Feb-18 09:00:00		0.36	0.00	0.00	7.86	2.1	329.7		0.12	0.00	0.00	2.59		10.35	18.92	83.84	86.68	12-Feb-18 08:00:00		10.47	18.92	83.84	89.27
12-Feb-18 09:00:00	12-Feb-18 10:00:00		0.19	0.00	0.00	7.81	2.1	329.7		0.06	0.00	0.00	2.58		10.35	18.92	83.84	86.68	12-Feb-18 09:00:00		10.41	18.92	83.84	89.26
12-Feb-18 10:00:00	12-Feb-18 11:00:00		0.63	0.00	0.00	7.88	2.1	329.7		0.21	0.00	0.00	2.60		10.35	18.92	83.84	86.68	12-Feb-18 10:00:00		10.56	18.92	83.84	89.28
12-Feb-18 11:00:00	12-Feb-18 12:00:00		0.38	0.00	0.00	7.88	2.1	329.7		0.13	0.00	0.00	2.60		10.35	18.92	83.84	86.68	12-Feb-18 11:00:00		10.48	18.92	83.84	89.28
12-Feb-18 12:00:00	12-Feb-18 13:00:00		0.31	0.00	0.00	7.83	2.1	329.7		0.10	0.00	0.00	2.58		10.35	18.92	83.84	86.68	12-Feb-18 12:00:00		10.45	18.92	83.84	89.26
12-Feb-18 13:00:00	12-Feb-18 14:00:00		0.16	0.00	0.00	7.78	2.1	329.7		0.05	0.00	0.00	2.56		10.35	18.92	83.84	86.68	12-Feb-18 13:00:00		10.40	18.92	83.84	89.24
12-Feb-18 14:00:00	12-Feb-18 15:00:00		0.00	0.00	0.00	7.61	2.1	329.7		0.00	0.00	0.00	2.51		10.35	18.92	83.84	86.68	12-Feb-18 14:00:00		10.35	18.92	83.84	89.19
12-Feb-18 15:00:00	12-Feb-18 16:00:00		0.09	0.00	0.00	7.62	2.1	329.7		0.03	0.00	0.00	2.51		10.35	18.92	83.84	86.68	12-Feb-18 15:00:00		10.38	18.92	83.84	89.19
12-Feb-18 16:00:00	12-Feb-18 17:00:00		0.18	0.00	0.00	7.68	2.1	329.7		0.06	0.00	0.00	2.53		10.35	18.92	83.84	86.68	12-Feb-18 16:00:00		10.41	18.92	83.84	89.21
12-Feb-18 17:00:00	12-Feb-18 18:00:00		0.07	0.00	0.00	7.75	2.1	329.7		0.02	0.00	0.00	2.56		10.35	18.92	83.84	86.68	12-Feb-18 17:00:00		10.37	18.92	83.84	89.24
12-Feb-18 18:00:00	12-Feb-18 19:00:00		0.13	0.00	0.00	7.76	2.1	329.7		0.04	0.00	0.00	2.56		10.35	18.92	83.84	86.68	12-Feb-18 18:00:00		10.39	18.92	83.84	89.24
12-Feb-18 19:00:00	12-Feb-18 20:00:00		0.41	0.00	0.00	7.95	2.1	329.7		0.14	0.00	0.00	2.62		10.35	18.92	83.84	86.68	12-Feb-18 19:00:00		10.49	18.92	83.84	89.30
12-Feb-18 20:00:00	12-Feb-18 21:00:00		0.38	0.00	0.00	8.19	2.1	329.7		0.13	0.00	0.00	2.70		10.35	18.92	83.84	86.68	12-Feb-18 20:00:00		10.48	18.92	83.84	89.38
12-Feb-18 21:00:00	12-Feb-18 22:00:00		0.93	0.00	0.00	8.42	2.1	329.7		0.31	0.00	0.00	2.78		10.35	18.92	83.84	86.68	12-Feb-18 21:00:00		10.66	18.92	83.84	89.46
12-Feb-18 22:00:00	12-Feb-18 23:00:00		1.48	0.00	0.00	8.57	2.1	329.7		0.49	0.00	0.00	2.83		10.35	18.92	83.84	86.68	12-Feb-18 22:00:00		10.84	18.92	83.84	89.51
12-Feb-18 23:00:00	13-Feb-18 00:00:00		7.52	0.00	0.00	8.71	2.1	329.7		2.48	0.00	0.00	2.87		10.35	18.92	83.84	86.68	12-Feb-18 23:00:00		12.83	18.92	83.84	89.55
13-Feb-18 00:00:00	13-Feb-18 01:00:00		14.09	0.00	0.00	8.88	2.1	329.7		4.64	0.00	0.00	2.93		10.35	18.92	83.84	86.68	13-Feb-18 00:00:00		14.99	18.92	83.84	89.61
13-Feb-18 01:00:00	13-Feb-18 02:00:00		8.86	0.00	0.00	9.04	2.1	329.7		2.92	0.00	0.00	2.98		10.35	18.92	83.84	86.68	13-Feb-18 01:00:00		13.27	18.92	83.84	89.66
13-Feb-18 02:00:00	13-Feb-18 03:00:00		14.87	0.00	0.00	9.18	2.1	329.7		4.90	0.00	0.00	3.03		10.35	18.92	83.84	86.68	13-Feb-18 02:00:00		15.25	18.92	83.84	89.71
13-Feb-18 03:00:00	13-Feb-18 04:00:00		7.71	0.00	0.00	9.17	2.1	329.7		2.54	0.00	0.00	3.02		10.35	18.92	83.84	86.68	13-Feb-18 03:00:00		12.89	18.92	83.84	89.70
13-Feb-18 04:00:00	13-Feb-18 05:00:00		17.51	0.00	0.00	9.15	2.1	329.7		5.77	0.00	0.00	3.02		10.35	18.92	83.84	86.68	13-Feb-18 04:00:00		16.12	18.92	83.84	89.70
13-Feb-18 05:00:00	13-Feb-18 06:00:00		14.11	0.00	0.00	9.13	2.1	329.7		4.65	0.00	0.00	3.01		10.35	18.92	83.84	86.68	13-Feb-18 05:00:00		15.00	18.92	83.84	89.69
13-Feb-18 06:00:00	13-Feb-18 07:00:00		11.42	0.00	0.00	9.06	2.1	329.7		3.77	0.00	0.00	2.99		10.35	18.92	83.84	86.68	13-Feb-18 06:00:00		14.12	18.92	83.84	89.67
13-Feb-18 07:00:00	13-Feb-18 08:00:00		13.22	0.00	0.00	8.98	2.1	329.7		4.36	0.00	0.00	2.96		10.35	18.92	83.84	86.68	13-Feb-18 07:00:00		14.71	18.92	83.84	89.64
13-Feb-18 08:00:00	13-Feb-18 09:00:00		19.32	0.00	0.00	8.92	2.1	329.7		6.37	0.00	0.00	2.94		10.35	18.92	83.84	86.68	13-Feb-18 08:00:00		16.72	18.92	83.84	89.62
13-Feb-18 09:00:00	13-Feb-18 10:00:00		11.42	0.00	0.00	8.86	2.1	329.7		3.77	0.00	0.00	2.92		10.35	18.92	83.84	86.68	13-Feb-18 09:00:00		14.12	18.92	83.84	89.60
13-Feb-18 10:00:00	13-Feb-18 11:00:00		9.24	0.00	0.00	8.77	2.1	329.7		3.05	0.00	0.00	2.89		10.35	18.92	83.84	86.68	13-Feb-18 10:00:00		13.40	18.92	83.84	89.57
13-Feb-18 11:00:00	13-Feb-18 12:00:00		9.62	0.00	0.00	8.71	2.1	329.7		3.17	0.00	0.00	2.87		10.35	18.92	83.84	86.68	13-Feb-18 11:00:00		13.52	18.92	83.84	89.55
13-Feb-18 12:00:00	13-Feb-18 13:00:00		10.00	0.00	0.00	8.66	2.1	329.7		3.30	0.00	0.00	2.86		10.35	18.92	83.84	86.68	13-Feb-18 12:00:00		13.65	18.92	83.84	89.54
13-Feb-18 13:00:00	13-Feb-18 14:00:00		10.06	0.00	0.00	8.62	2.1	329.7		3.32	0.00	0.00	2.84		10.35	18.92	83.84	86.68	13-Feb-18 13:00:00		13.67	18.92	83.84	89.52
13-Feb-18 14:00:00	13-Feb-18 15:00:00		9.67	0.00	0.00	8.53	2.1	329.7		3.19	0.00	0.00	2.81		10.35	18.92	83.84	86.68	13-Feb-18 14:00:00		13.54	18.92	83.84	89.49
13-Feb-18 15:00:00	13-Feb-18 16:00:00		9.41	0.00	0.00	8.43	2.1	329.7		3.10	0.00	0.00	2.78		10.35	18.92	83.84	86.68	13-Feb-18 15:00:00		13.45	18.92	83.84	89.46
13-Feb-18 16:00:00	13-Feb-18 17:00:00		8.71	0.00	0.00	8.35	2.1	329.7		2.87	0.00	0.00	2.75		10.35	18.92	83.84	86.68	13-Feb-18 16:00:00		13.22	18.92	83.84	89.43
13-Feb-18 17:00:00	13-Feb-18 18:00:00		8.42	0.00	0.00	8.27	2.1	329.7		2.78	0.00	0.00	2.73		10.35	18.92	83.84	86.68	13-Feb-18 17:00:00		13.13	18.92	83.84	89.41
13-Feb-18 18:00:00	13-Feb-18 19:00:00		9.18	0.00	0.00	8.19	2.1	329.7		3.03	0.00	0.00	2.70		10.35	18.92	83.84	86.68	13-Feb-18 18:00:00		13.38	18.92	83.84	89.38
13-Feb-18 19:00:00	13-Feb-18 20:00:00		9.65	0.00	0.00	8.30	2.1	329.7		3.18	0.00	0.00	2.74		10.35	18.92	83.84	86.68	13-Feb-18 19:00:00		13.53	18.92	83.84	89.42
13-Feb-18 20:00:00	13-Feb-18 21:00:00		9.67	0.00	0.00	8.43	2.1	329.7		3.19	0.00	0.00	2.78		10.35	18.92	83.84	86.68	13-Feb-18 20:00:00		13.54	18.92	83.84	89.46
13-Feb-18 21:00:00	13-Feb-18 22:00:00		9.72	0.00	0.00	8.57	2.1	329.7		3.20	0.00	0.00	2.82		10.35	18.92	83.84	86.68	13-Feb-18 21:00:00		13.55	18.92	83.84	89.50
13-Feb-18 22:00:00	13-Feb-18 23:00:00		9.77	0.00	0.00	8.67	2.1	329.7		3.22	0.00	0.00	2.86		10.35	18.92	83.84	86.68	13-Feb-18 22:00:00		13.57	18.92	83.84	89.54
13-Feb-18 23:00:00	14-Feb-18 00:00:00		11.73	0.00	0.00	8.70	2.1	329.7		3.87	0.00	0.00	2.87		10.35	18.92	83.84	86.68	13-Feb-18 23:00:00		14.22	18.92	83.84	89.55
14-Feb-18 00:00:00	14-Feb-18 01:00:00		2.60	0.00	0.00	8.72	2.1	329.7		0.86	0.00	0.00	2.88		10.35	18.92	83.84	86.68	14-Feb-18 00:00:00		11.21	18.92	83.84	89.56
14-Feb-18 01:00:00	14-Feb-18 02:00:00		7.54	0.00	0.00	8.74	2.1	329.7		2.48	0.00	0.00	2.88		10.35	18.92	83.84	86.68	14-Feb-18 01:00:00		12.83	18.92	83.84	89.56
14-Feb-18 02:00:00	14-Feb-18 03:00:00		10.67	0.00	0.00	12.89	2.1	329.7		3.52	0.00	0.00	4.25		10.35	18.92	83.84	86.68	14-Feb-18 02:00:00		13.87	18.92	83.84	90.93
14-Feb-18 03:00:00	14-Feb-18 04:00:00		14.44	0.00	0.00	8.75	2.1	329.7		4.76	0.00	0.00	2.89		10.35	18.92	83.84	86.68	14-Feb-18 03:00:00		15.11	18.92	83.84	89.57
14-Feb-18 04:00:00	14-Feb-18 05:00:00		22.77	0.00	0.00	8.79	2.1	329.7		7.51	0.00	0.00	2.90		10.35	18.92	83.84	86.68	14-Feb-18 04:00:00		17.86	18.92	83.84	89.58
14-Feb-18 05:00:00	14-Feb-18 06:00:00		17.15	0.00	0.00	8.83	2.1	329.7		5.66	0.00	0.00	2.91		10.35	18.92	83.84	86.68	14-Feb-18 05:00:00		16.01	18.92	83.84	89.59
14-Feb-18 06:00:00	14-Feb-18 07:00:00		13.92	0.00	0.00	8.84	2.1	329.7		4.59	0.00	0.00	2.91		10.35	18.92	83.84	86.68	14-Feb-18 06:00:00		14.94	18.92	83.84	89.59
14-Feb-18 07:00:00	14-Feb-18 08:00:00		2.69	0.00	0.00	8.81	2.1	329.7		0.89	0.00	0.00	2.91		10.35	18.92	83.84	86.68	14-Feb-18 07:00:00		11.24	18.92	83.84	89.59
14-Feb-18 08:00:00	14-Feb-18 09:00:00		0.00	0.00	0.00	8.79	2.1	329.7		0.00	0.00	0.00	2.90		10.35	18.92	83.84	86.68	14-Feb-18 08:00:00		10.35	18.92	83.84	89.58
14-Feb-18 09:00:00	14-Feb-18 10:00:00		0.00	0.00	0.00	8.76	2.1	329.7		0.00	0.00	0.00	2.89		10.35	18.92	83.84	86.68	14-Feb-18 09:00:00		10.35	18.92	83.84	89.57
14-Feb-18 10:00:00	14-Feb-18 11:00:00		0.60	0.00	0.00	8.67	2.1	329.7		0.20	0.00	0.00	2.86		10.35	18.92	83.84	86.68	14-Feb-18 10:00:00		10.55	18.92	83.84	89.54
14-Feb-18 11:00:00	14-Feb-18 12:00:00		12.85	0.00	0.00	8.34	2.1	329.7		4.24	0.00	0.00	2.75		10.35	18.92	83.84	86.68	14-Feb-18 11:00:00		14.59	18.92	83.84	89.43
14-Feb-18 12:00:00	14-Feb-18 13:00:00		10.26	0.00	0.00	7.99	2.1	329.7		3.38	0.00	0.00	2.64		10.35	18.92	83.84	86.68	14-Feb-18 12:00:00		13.73	18.92	83.84	89.32
14-Feb-18 13:00:00	14-Feb-18 14:00:00		11.47	0.00	0.00	8.90	2.1	329.7		3.78	0.00	0.00	2.94		10.35	18.92	83.84	86.68	14-Feb-18 13:00:00		14.13	18.92	83.84	89.62
14-Feb-18 14:00:00	14-Feb-18 15:00:00		17.03	0.00	0.00	7.56	2.1	329.7		5.61	0.00	0.00	2.49		10.35	18.92	83.84	86.68	14-Feb-18 14:00:00		15.96	18.92	83.84	89.17
14-Feb-18 15:00:00	14-Feb-18 16:00:00		12.15	0.00	0.00	7.54	2.1	329.7		4.01	0.00	0.00	2.49		10.35	18.92	83.84	86.68	14-Feb-18 15:00:00		14.36	18.92	83.84	89.17
14-Feb-18 16:00:00	14-Feb-18 17:00:00		2.32	0.00	0.00	7.51	2.1	329.7		0.76	0.00	0.00	2.48		10.35	18.92	83.84	86.68	14-Feb-18 16:00:00		11.11	18.92	83.84	89.16
14-Feb-18 17:00:00	14-Feb-18 18:00:00		10.04	0.00	0.00	7.49	2.1	329.7		3.31	0.00	0.00	2.47		10.35	18.92	83.84	86.68	14-Feb-18 17:00:00		13.66	18.92	83.84	89.15
14-Feb-18 18:00:00	14-Feb-18 19:00:00		17.14	0.00	0.00	7.51	2.1	329.7		5.65	0.00	0.00	2.48		10.35	18.92	83.84	86.68	14-Feb-18 18:00:00		16.00	18.92	83.84	89.16
14-Feb-18 19:00:00	14-Feb-18 20:00:00		7.81	0.00	0.00	14.62	2.1	329.7		2.57	0.00	0.00	4.82		10.35	18.92	83.84	86.68	14-Feb-18 19:00:00		12.92	18.92	83.84	91.50
14-Feb-18 20:00:00	14-Feb-18 21:00:00		6.38	0.00	0.00	7.57	2.1	329.7		2.11	0.00	0.00	2.50		10.35	18.92	83.84	86.68	14-Feb-18 20:00:00		12.46	18.92	83.84	89.18
14-Feb-18 21:00:00	14-Feb-18 22:00:00		6.31	0.00	0.00	7.70	2.1	329.7		2.08	0.00	0.00	2.54		10.35	18.92	83.84	86.68	14-Feb-18 21:00:00		12.43	18.92	83.84	89.22
14-Feb-18 22:00:00	14-Feb-18 23:00:00		6.23	0.00	0.00	7.84	2.1	329.7		2.05	0.00	0.00	2.58		10.35	18.92	83.84	86.68	14-Feb-18 22:00:00		12.40	18.92	83.84	89.26
14-Feb-18 23:00:00	15-Feb-18 00:00:00		6.10	0.00	0.00	7.97	2.1	329.7		2.01	0.00	0.00	2.63		10.35	18.92	83.84	86.68	14-Feb-18 23:00:00		12.36	18.92	83.84	89.31
15-Feb-18 00:00:00	15-Feb-18 01:00:00		6.19	0.00	0.00	7.98	2.1	329.7		2.04	0.00	0.00	2.63		10.35	18.92	83.84	86.68	15-Feb-18 00:00:00		12.39	18.92	83.84	89.31
15-Feb-18 01:00:00	15-Feb-18 02:00:00		4.96	0.00	0.00	7.96	2.1	329.7		1.64	0.00	0.00	2.63		10.35	18.92	83.84	86.68	15-Feb-18 01:00:00		11.99	18.92	83.84	89.31
15-Feb-18 02:00:00	15-Feb-18 03:00:00		4.83	0.00	0.00	7.94	2.1	329.7		1.59	0.00	0.00	2.62		10.35	18.92	83.84	86.68	15-Feb-18 02:00:00		11.94	18.92	83.84	89.30
15-Feb-18 03:00:00	15-Feb-18 04:00:00		4.92	0.00	0.00	7.95	2.1	329.7		1.62	0.00	0.00	2.62		10.35	18.92	83.84	86.68	15-Feb-18 03:00:00		11.97	18.92	83.84	89.30
15-Feb-18 04:00:00	15-Feb-18 05:00:00		5.09	0.00	0.00	8.03	2.1	329.7		1.68	0.00	0.00	2.65		10.35	18.92	83.84	86.68	15-Feb-18 04:00:00		12.03	18.92	83.84	89.33
15-Feb-18 05:00:00	15-Feb-18 06:00:00		12.67	0.00	0.00	8.03	2.1	329.7		4.18	0.00	0.00	2.65		10.35	18.92	83.84	86.68	15-Feb-18 05:00:00		14.53	18.92	83.84	89.33
15-Feb-18 06:00:00	15-Feb-18 07:00:00		15.67	0.00	0.00	8.03	2.1	329.7		5.17	0.00	0.00	2.65		10.35	18.92	83.84	86.68	15-Feb-18 06:00:00		15.52	18.92	83.84	89.33
15-Feb-18 07:00:00	15-Feb-18 08:00:00		20.63	0.00	0.00	8.03	2.1	329.7		6.80	0.00	0.00	2.65		10.35	18.92	83.84	86.68	15-Feb-18 07:00:00		17.15	18.92	83.84	89.33
15-Feb-18 08:00:00	15-Feb-18 09:00:00		20.46	0.00	0.00	7.98	2.1	329.7		6.75	0.00	0.00	2.63		10.35	18.92	83.84	86.68	15-Feb-18 08:00:00		17.10	18.92	83.84	89.31
15-Feb-18 09:00:00	15-Feb-18 10:00:00		16.34	0.00	0.00	7.89	2.1	329.7		5.39	0.00	0.00	2.60		10.35	18.92	83.84	86.68	15-Feb-18 09:00:00		15.74	18.92	83.84	89.28
15-Feb-18 10:00:00	15-Feb-18 11:00:00		0.31	0.00	0.00	7.80	2.1	329.7		0.10	0.00	0.00	2.57		10.35	18.92	83.84	86.68	15-Feb-18 10:00:00		10.45	18.92	83.84	89.25
15-Feb-18 11:00:00	15-Feb-18 12:00:00		1.18	0.00	0.00	7.72	2.1	329.7		0.39	0.00	0.00	2.54		10.35	18.92	83.84	86.68	15-Feb-18 11:00:00		10.74	18.92	83.84	89.22
15-Feb-18 12:00:00	15-Feb-18 13:00:00		3.99	0.00	0.00	7.55	2.1	329.7		1.32	0.00	0.00	2.49		10.35	18.92	83.84	86.68	15-Feb-18 12:00:00		11.67	18.92	83.84	89.17
15-Feb-18 13:00:00	15-Feb-18 14:00:00		2.31	0.00	0.00	18.13	2.1	329.7		0.76	0.00	0.00	5.98		10.35	18.92	83.84	86.68	15-Feb-18 13:00:00		11.11	18.92	83.84	92.66
15-Feb-18 14:00:00	15-Feb-18 15:00:00		3.87	0.00	0.00	7.16

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
17-Feb-18 16:00:00	17-Feb-18 17:00:00		0.00	0.00	0.00	8.26	2.1	329.7		0.00	0.00	0.00	2.72		10.35	18.92	83.84	86.68	17-Feb-18 16:00:00		10.35	18.92	83.84	89.40
17-Feb-18 17:00:00	17-Feb-18 18:00:00		0.00	0.00	0.00	8.14	2.1	329.7		0.00	0.00	0.00	2.68		10.35	18.92	83.84	86.68	17-Feb-18 17:00:00		10.35	18.92	83.84	89.36
17-Feb-18 18:00:00	17-Feb-18 19:00:00		0.11	0.00	0.00	8.01	2.1	329.7		0.04	0.00	0.00	2.64		10.35	18.92	83.84	86.68	17-Feb-18 18:00:00		10.39	18.92	83.84	89.32
17-Feb-18 19:00:00	17-Feb-18 20:00:00		16.83	0.00	0.00	8.06	2.1	329.7		5.55	0.00	0.00	2.66		10.35	18.92	83.84	86.68	17-Feb-18 19:00:00		15.90	18.92	83.84	89.34
17-Feb-18 20:00:00	17-Feb-18 21:00:00		33.14	0.00	0.00	8.10	2.1	329.7		10.92	0.00	0.00	2.67		10.35	18.92	83.84	86.68	17-Feb-18 20:00:00		21.27	18.92	83.84	89.35
17-Feb-18 21:00:00	17-Feb-18 22:00:00		34.04	0.00	0.00	8.14	2.1	329.7		11.22	0.00	0.00	2.68		10.35	18.92	83.84	86.68	17-Feb-18 21:00:00		21.57	18.92	83.84	89.36
17-Feb-18 22:00:00	17-Feb-18 23:00:00		31.45	0.00	0.00	8.14	2.1	329.7		10.37	0.00	0.00	2.68		10.35	18.92	83.84	86.68	17-Feb-18 22:00:00		20.72	18.92	83.84	89.36
17-Feb-18 23:00:00	18-Feb-18 00:00:00		30.46	0.00	0.00	8.14	2.1	329.7		10.04	0.00	0.00	2.69		10.35	18.92	83.84	86.68	17-Feb-18 23:00:00		20.39	18.92	83.84	89.37
18-Feb-18 00:00:00	18-Feb-18 01:00:00		29.16	0.00	0.00	8.15	2.1	329.7		9.61	0.00	0.00	2.69		10.35	18.92	83.84	86.68	18-Feb-18 00:00:00		19.96	18.92	83.84	89.37
18-Feb-18 01:00:00	18-Feb-18 02:00:00		25.08	0.00	0.00	8.16	2.1	329.7		8.27	0.00	0.00	2.69		10.35	18.92	83.84	86.68	18-Feb-18 01:00:00		18.62	18.92	83.84	89.37
18-Feb-18 02:00:00	18-Feb-18 03:00:00		21.50	0.00	0.00	8.23	2.1	329.7		7.09	0.00	0.00	2.71		10.35	18.92	83.84	86.68	18-Feb-18 02:00:00		17.44	18.92	83.84	89.39
18-Feb-18 03:00:00	18-Feb-18 04:00:00		38.08	0.00	0.00	8.31	2.1	329.7		12.55	0.00	0.00	2.74		10.35	18.92	83.84	86.68	18-Feb-18 03:00:00		22.90	18.92	83.84	89.42
18-Feb-18 04:00:00	18-Feb-18 05:00:00		31.78	0.00	0.00	8.40	2.1	329.7		10.48	0.00	0.00	2.77		10.35	18.92	83.84	86.68	18-Feb-18 04:00:00		20.83	18.92	83.84	89.45
18-Feb-18 05:00:00	18-Feb-18 06:00:00		29.38	0.00	0.00	8.49	2.1	329.7		9.69	0.00	0.00	2.80		10.35	18.92	83.84	86.68	18-Feb-18 05:00:00		20.04	18.92	83.84	89.48
18-Feb-18 06:00:00	18-Feb-18 07:00:00		23.94	0.00	0.00	8.50	2.1	329.7		7.89	0.00	0.00	2.80		10.35	18.92	83.84	86.68	18-Feb-18 06:00:00		18.24	18.92	83.84	89.48
18-Feb-18 07:00:00	18-Feb-18 08:00:00		16.46	0.00	0.00	8.43	2.1	329.7		5.43	0.00	0.00	2.78		10.35	18.92	83.84	86.68	18-Feb-18 07:00:00		15.78	18.92	83.84	89.46
18-Feb-18 08:00:00	18-Feb-18 09:00:00		18.78	0.00	0.00	8.35	2.1	329.7		6.19	0.00	0.00	2.75		10.35	18.92	83.84	86.68	18-Feb-18 08:00:00		16.54	18.92	83.84	89.43
18-Feb-18 09:00:00	18-Feb-18 10:00:00		18.40	0.00	0.00	8.29	2.1	329.7		6.07	0.00	0.00	2.73		10.35	18.92	83.84	86.68	18-Feb-18 09:00:00		16.42	18.92	83.84	89.41
18-Feb-18 10:00:00	18-Feb-18 11:00:00		17.30	0.00	0.00	8.21	2.1	329.7		5.70	0.00	0.00	2.71		10.35	18.92	83.84	86.68	18-Feb-18 10:00:00		16.05	18.92	83.84	89.39
18-Feb-18 11:00:00	18-Feb-18 12:00:00		17.68	0.00	0.00	8.10	2.1	329.7		5.83	0.00	0.00	2.67		10.35	18.92	83.84	86.68	18-Feb-18 11:00:00		16.18	18.92	83.84	89.35
18-Feb-18 12:00:00	18-Feb-18 13:00:00		14.44	0.00	0.00	8.00	2.1	329.7		4.76	0.00	0.00	2.64		10.35	18.92	83.84	86.68	18-Feb-18 12:00:00		15.11	18.92	83.84	89.32
18-Feb-18 13:00:00	18-Feb-18 14:00:00		16.25	0.00	0.00	7.90	2.1	329.7		5.36	0.00	0.00	2.60		10.35	18.92	83.84	86.68	18-Feb-18 13:00:00		15.71	18.92	83.84	89.28
18-Feb-18 14:00:00	18-Feb-18 15:00:00		6.72	0.00	0.00	7.87	2.1	329.7		2.21	0.00	0.00	2.60		10.35	18.92	83.84	86.68	18-Feb-18 14:00:00		12.56	18.92	83.84	89.28
18-Feb-18 15:00:00	18-Feb-18 16:00:00		8.25	0.00	0.00	7.84	2.1	329.7		2.72	0.00	0.00	2.59		10.35	18.92	83.84	86.68	18-Feb-18 15:00:00		13.07	18.92	83.84	89.27
18-Feb-18 16:00:00	18-Feb-18 17:00:00		7.05	0.00	0.00	7.82	2.1	329.7		2.32	0.00	0.00	2.58		10.35	18.92	83.84	86.68	18-Feb-18 16:00:00		12.67	18.92	83.84	89.26
18-Feb-18 17:00:00	18-Feb-18 18:00:00		6.32	0.00	0.00	7.80	2.1	329.7		2.09	0.00	0.00	2.57		10.35	18.92	83.84	86.68	18-Feb-18 17:00:00		12.44	18.92	83.84	89.25
18-Feb-18 18:00:00	18-Feb-18 19:00:00		1.37	0.00	0.00	7.93	2.1	329.7		0.45	0.00	0.00	2.61		10.35	18.92	83.84	86.68	18-Feb-18 18:00:00		10.80	18.92	83.84	89.29
18-Feb-18 19:00:00	18-Feb-18 20:00:00		1.27	0.00	0.00	8.09	2.1	329.7		0.42	0.00	0.00	2.67		10.35	18.92	83.84	86.68	18-Feb-18 19:00:00		10.77	18.92	83.84	89.35
18-Feb-18 20:00:00	18-Feb-18 21:00:00		0.49	0.00	0.00	8.24	2.1	329.7		0.16	0.00	0.00	2.72		10.35	18.92	83.84	86.68	18-Feb-18 20:00:00		10.51	18.92	83.84	89.40
18-Feb-18 21:00:00	18-Feb-18 22:00:00		0.59	0.00	0.00	8.36	2.1	329.7		0.19	0.00	0.00	2.76		10.35	18.92	83.84	86.68	18-Feb-18 21:00:00		10.54	18.92	83.84	89.44
18-Feb-18 22:00:00	18-Feb-18 23:00:00		1.08	0.00	0.00	8.31	2.1	329.7		0.36	0.00	0.00	2.74		10.35	18.92	83.84	86.68	18-Feb-18 22:00:00		10.71	18.92	83.84	89.42
18-Feb-18 23:00:00	19-Feb-18 00:00:00		1.77	0.00	0.00	8.41	2.1	329.7		0.59	0.00	0.00	2.77		10.35	18.92	83.84	86.68	18-Feb-18 23:00:00		10.94	18.92	83.84	89.45
19-Feb-18 00:00:00	19-Feb-18 01:00:00		2.50	0.00	0.00	8.52	2.1	329.7		0.82	0.00	0.00	2.81		10.35	18.92	83.84	86.68	19-Feb-18 00:00:00		11.17	18.92	83.84	89.49
19-Feb-18 01:00:00	19-Feb-18 02:00:00		5.72	0.00	0.00	8.61	2.1	329.7		1.89	0.00	0.00	2.84		10.35	18.92	83.84	86.68	19-Feb-18 01:00:00		12.24	18.92	83.84	89.52
19-Feb-18 02:00:00	19-Feb-18 03:00:00		18.99	0.00	0.00	8.63	2.1	329.7		6.26	0.00	0.00	2.85		10.35	18.92	83.84	86.68	19-Feb-18 02:00:00		16.61	18.92	83.84	89.53
19-Feb-18 03:00:00	19-Feb-18 04:00:00		7.36	0.00	0.00	8.65	2.1	329.7		2.43	0.00	0.00	2.85		10.35	18.92	83.84	86.68	19-Feb-18 03:00:00		12.78	18.92	83.84	89.53
19-Feb-18 04:00:00	19-Feb-18 05:00:00		6.41	0.00	0.00	8.68	2.1	329.7		2.11	0.00	0.00	2.86		10.35	18.92	83.84	86.68	19-Feb-18 04:00:00		12.46	18.92	83.84	89.54
19-Feb-18 05:00:00	19-Feb-18 06:00:00		7.13	0.00	0.00	8.68	2.1	329.7		2.35	0.00	0.00	2.86		10.35	18.92	83.84	86.68	19-Feb-18 05:00:00		12.70	18.92	83.84	89.54
19-Feb-18 06:00:00	19-Feb-18 07:00:00		6.44	0.00	0.00	8.64	2.1	329.7		2.12	0.00	0.00	2.85		10.35	18.92	83.84	86.68	19-Feb-18 06:00:00		12.47	18.92	83.84	89.53
19-Feb-18 07:00:00	19-Feb-18 08:00:00		5.82	0.00	0.00	8.66	2.1	329.7		1.92	0.00	0.00	2.86		10.35	18.92	83.84	86.68	19-Feb-18 07:00:00		12.27	18.92	83.84	89.54
19-Feb-18 08:00:00	19-Feb-18 09:00:00		4.84	0.00	0.00	8.69	2.1	329.7		1.60	0.00	0.00	2.87		10.35	18.92	83.84	86.68	19-Feb-18 08:00:00		11.95	18.92	83.84	89.55
19-Feb-18 09:00:00	19-Feb-18 10:00:00		14.62	0.00	0.00	8.71	2.1	329.7		4.82	0.00	0.00	2.87		10.35	18.92	83.84	86.68	19-Feb-18 09:00:00		15.17	18.92	83.84	89.55
19-Feb-18 10:00:00	19-Feb-18 11:00:00		24.90	0.00	0.00	8.61	2.1	329.7		8.21	0.00	0.00	2.84		10.35	18.92	83.84	86.68	19-Feb-18 10:00:00		18.56	18.92	83.84	89.52
19-Feb-18 11:00:00	19-Feb-18 12:00:00		25.85	0.00	0.00	8.51	2.1	329.7		8.52	0.00	0.00	2.81		10.35	18.92	83.84	86.68	19-Feb-18 11:00:00		18.87	18.92	83.84	89.49
19-Feb-18 12:00:00	19-Feb-18 13:00:00		25.76	0.00	0.00	8.41	2.1	329.7		8.49	0.00	0.00	2.77		10.35	18.92	83.84	86.68	19-Feb-18 12:00:00		18.84	18.92	83.84	89.45
19-Feb-18 13:00:00	19-Feb-18 14:00:00		25.18	0.00	0.00	8.30	2.1	329.7		8.30	0.00	0.00	2.74		10.35	18.92	83.84	86.68	19-Feb-18 13:00:00		18.65	18.92	83.84	89.42
19-Feb-18 14:00:00	19-Feb-18 15:00:00		25.09	0.00	0.00	8.12	2.1	329.7		8.27	0.00	0.00	2.68		10.35	18.92	83.84	86.68	19-Feb-18 14:00:00		18.62	18.92	83.84	89.36
19-Feb-18 15:00:00	19-Feb-18 16:00:00		14.82	0.00	0.00	7.96	2.1	329.7		4.89	0.00	0.00	2.63		10.35	18.92	83.84	86.68	19-Feb-18 15:00:00		15.24	18.92	83.84	89.31
19-Feb-18 16:00:00	19-Feb-18 17:00:00		7.08	0.00	0.00	7.81	2.1	329.7		2.34	0.00	0.00	2.57		10.35	18.92	83.84	86.68	19-Feb-18 16:00:00		12.69	18.92	83.84	89.25
19-Feb-18 17:00:00	19-Feb-18 18:00:00		26.73	0.00	0.00	7.64	2.1	329.7		8.81	0.00	0.00	2.52		10.35	18.92	83.84	86.68	19-Feb-18 17:00:00		19.16	18.92	83.84	89.20
19-Feb-18 18:00:00	19-Feb-18 19:00:00		26.92	0.00	0.00	7.56	2.1	329.7		8.88	0.00	0.00	2.49		10.35	18.92	83.84	86.68	19-Feb-18 18:00:00		19.23	18.92	83.84	89.17
19-Feb-18 19:00:00	19-Feb-18 20:00:00		25.57	0.00	0.00	7.72	2.1	329.7		8.43	0.00	0.00	2.55		10.35	18.92	83.84	86.68	19-Feb-18 19:00:00		18.78	18.92	83.84	89.23
19-Feb-18 20:00:00	19-Feb-18 21:00:00		24.91	0.00	0.00	7.88	2.1	329.7		8.21	0.00	0.00	2.60		10.35	18.92	83.84	86.68	19-Feb-18 20:00:00		18.56	18.92	83.84	89.28
19-Feb-18 21:00:00	19-Feb-18 22:00:00		24.25	0.00	0.00	8.04	2.1	329.7		7.99	0.00	0.00	2.65		10.35	18.92	83.84	86.68	19-Feb-18 21:00:00		18.34	18.92	83.84	89.33
19-Feb-18 22:00:00	19-Feb-18 23:00:00		23.47	0.00	0.00	8.20	2.1	329.7		7.74	0.00	0.00	2.70		10.35	18.92	83.84	86.68	19-Feb-18 22:00:00		18.09	18.92	83.84	89.38
19-Feb-18 23:00:00	20-Feb-18 00:00:00		23.68	0.00	0.00	8.29	2.1	329.7		7.81	0.00	0.00	2.73		10.35	18.92	83.84	86.68	19-Feb-18 23:00:00		18.16	18.92	83.84	89.41
20-Feb-18 00:00:00	20-Feb-18 01:00:00		24.48	0.00	0.00	8.38	2.1	329.7		8.07	0.00	0.00	2.76		10.35	18.92	83.84	86.68	20-Feb-18 00:00:00		18.42	18.92	83.84	89.44
20-Feb-18 01:00:00	20-Feb-18 02:00:00		25.32	0.00	0.00	8.47	2.1	329.7		8.35	0.00	0.00	2.79		10.35	18.92	83.84	86.68	20-Feb-18 01:00:00		18.70	18.92	83.84	89.47
20-Feb-18 02:00:00	20-Feb-18 03:00:00		28.12	0.00	0.00	8.42	2.1	329.7		9.27	0.00	0.00	2.78		10.35	18.92	83.84	86.68	20-Feb-18 02:00:00		19.62	18.92	83.84	89.46
20-Feb-18 03:00:00	20-Feb-18 04:00:00		29.34	0.00	0.00	8.27	2.1	329.7		9.67	0.00	0.00	2.73		10.35	18.92	83.84	86.68	20-Feb-18 03:00:00		20.02	18.92	83.84	89.41
20-Feb-18 04:00:00	20-Feb-18 05:00:00		28.04	0.00	0.00	8.12	2.1	329.7		9.24	0.00	0.00	2.68		10.35	18.92	83.84	86.68	20-Feb-18 04:00:00		19.59	18.92	83.84	89.36
20-Feb-18 05:00:00	20-Feb-18 06:00:00		27.20	0.00	0.00	7.96	2.1	329.7		8.97	0.00	0.00	2.63		10.35	18.92	83.84	86.68	20-Feb-18 05:00:00		19.32	18.92	83.84	89.31
20-Feb-18 06:00:00	20-Feb-18 07:00:00		19.32	0.00	0.00	7.79	2.1	329.7		6.37	0.00	0.00	2.57		10.35	18.92	83.84	86.68	20-Feb-18 06:00:00		16.72	18.92	83.84	89.25
20-Feb-18 07:00:00	20-Feb-18 08:00:00		18.86	0.00	0.00	49.32	2.1	329.7		6.22	0.00	0.00	16.26		10.35	18.92	83.84	86.68	20-Feb-18 07:00:00		16.57	18.92	83.84	102.94
20-Feb-18 08:00:00	20-Feb-18 09:00:00		17.47	0.00	0.00	20.56	2.1	329.7		5.76	0.00	0.00	6.78		10.35	18.92	83.84	86.68	20-Feb-18 08:00:00		16.11	18.92	83.84	93.46
20-Feb-18 09:00:00	20-Feb-18 10:00:00		18.91	0.00	0.00	7.69	2.1	329.7		6.23	0.00	0.00	2.54		10.35	18.92	83.84	86.68	20-Feb-18 09:00:00		16.58	18.92	83.84	89.22
20-Feb-18 10:00:00	20-Feb-18 11:00:00		20.08	0.00	0.00	7.64	2.1	329.7		6.62	0.00	0.00	2.52		10.35	18.92	83.84	86.68	20-Feb-18 10:00:00		16.97	18.92	83.84	89.20
20-Feb-18 11:00:00	20-Feb-18 12:00:00		8.76	0.00	0.00	7.60	2.1	329.7		2.89	0.00	0.00	2.50		10.35	18.92	83.84	86.68	20-Feb-18 11:00:00		13.24	18.92	83.84	89.18
20-Feb-18 12:00:00	20-Feb-18 13:00:00		4.45	0.00	0.00	7.23	2.1	329.7		1.47	0.00	0.00	2.38		10.35	18.92	83.84	86.68	20-Feb-18 12:00:00		11.82	18.92	83.84	89.06
20-Feb-18 13:00:00	20-Feb-18 14:00:00		0.75	0.00	0.00	7.08	2.1	329.7		0.25	0.00	0.00	2.33		10.35	18.92	83.84	86.68	20-Feb-18 13:00:00		10.60	18.92	83.84	89.01
20-Feb-18 14:00:00	20-Feb-18 15:00:00		0.11	0.00	0.00	6.97	2.1	329.7		0.04	0.00	0.00	2.30		10.35	18.92	83.84	86.68	20-Feb-18 14:00:00		10.39	18.92	83.84	88.98
20-Feb-18 15:00:00	20-Feb-18 16:00:00		0.12	0.00	0.00	6.87	2.1	329.7		0.04	0.00	0.00	2.26		10.35	18.92	83.84	86.68	20-Feb-18 15:00:00		10.39	18.92	83.84	88.94
20-Feb-18 16:00:00	20-Feb-18 17:00:00		0.39	0.00	0.00	7.44	2.1	329.7		0.13	0.00	0.00	2.45		10.35	18.92	83.84	86.68	20-Feb-18 16:00:00		10.48	18.92	83.84	89.13
20-Feb-18 17:00:00	20-Feb-18 18:00:00		0.95	0.00	0.00	6.86	2.1	329.7		0.31	0.00	0.00	2.26		10.35	18.92	83.84	86.68	20-Feb-18 17:00:00		10.66	18.92	83.84	88.94
20-Feb-18 18:00:00	20-Feb-18 19:00:00		2.22	0.00	0.00	25.00	2.1	329.7		0.73	0.00	0.00	8.24		10.35	18.92	83.84	86.68	20-Feb-18 18:00:00		11.08	18.92	83.84	94.92
20-Feb-18 19:00:00	20-Feb-18 20:00:00		6.77	0.00	0.00	7.13	2.1	329.7		2.23	0.00	0.00	2.35		10.35	18.92	83.84	86.68	20-Feb-18 19:00:00		12.58	18.92	83.84	89.03
20-Feb-18 20:00:00	20-Feb-18 21:00:00		6.20	0.00	0.00	7.30	2.1	329.7		2.04	0.00	0.00	2.41		10.35	18.92	83.84	86.68	20-Feb-18 20:00:00		12.39	18.92	83.84	89.09
20-Feb-18 21:00:00	20-Feb-18 22:00:00		6.20	0.00	0.00	7.46	2.1	329.7		2.04	0.00	0.00	2.46		10.35	18.92	83.84	86.68	20-Feb-18 21:00:00		12.39	18.92	83.84	89.14
20-Feb-18 22:00:00	20-Feb-18 23:00:00		4.31	0.00	0.00	7.57	2.1	329.7		1.42	0.00	0.00	2.50		10.35	18.92	83.84	86.68	20-Feb-18 22:00:00		11.77	18.92	83.84	89.18
20-Feb-18 23:00:00	21-Feb-18 00:00:00		3.42	0.00	0.00	7.55	2.1	329.7		1.13	0.00	0.00	2.49		10.35	18.92	83.84	86.68	20-Feb-18 23:00:00		11.48	18.92	83.84	89.17
21-Feb-18 00:00:00	21-Feb-18 01:00:00		2.23	0.00	0.00	7.53	2.1	329.7		0.74	0.00	0.00	2.48		10.35	18.92	83.84	86.68	21-Feb-18 00:00:00		11.09	18.92	83.84	89.16
21-Feb-18 01:00:00	21-Feb-18 02:00:00		2.64	0.00	0.00	7.50	2.1	329.7		0.87	0.00	0.00	2.47		10.35	18.92	83.84	86.68	21-Feb-18 01:00:00		11.22	18.92	83.84	89.15
21-Feb-18 02:00:00	21-Feb-18 03:00:00		3.45	0.00	0.00	7.54	2.1	329.7		1.14	0.00	0.00	2.49		10.35	18.92	83.84	86.68	21-Feb-18 02:00:00		11.49	18.92	83.84	89.17
21-Feb-18 03:00:00	21-Feb-18 04:00:00		5.93	0.00	0.00	7.55	2.1	329.7		1.95	0.00	0.00	2.49		10.35	18.92	83.84	86.68	21-Feb-18 03:00:00		12.30	18.92	83.84	89.17
21-Feb-18 04:00:00	21-Feb-18 05:00:00		0.19	0.00	0.00	7.53	2.1	329.7		0.06	0.00	0.00	2.48		10.35	18.92	83.84	86.68	21-Feb-18 04:00:00		10.41	18.92	83.84	89.16
21-Feb-18 05:00:00	21-Feb-18 06:00:00		0.46	0.00	0.00	7.51	2.1	329.7		0.15	0.00	0.00	2.48		10.35	18.92	83.84	86.68	21-Feb-18 05:00:00		10.50	18.92	83.84	89.16
21-Feb-18 06:00:00	21-Feb-18 07:00:00		0.74	0.00	0.00	7.40	2.1	329.7		0.24	0.00	0.00	2.44		10.35	18.92	83.84	86.68	21-Feb-18 06:00:00		10.59	18.92	83.84	89.12
21-Feb-18 07:00:00	21-Feb-18 08:00:00		0.97	0.00	0.00	7.38	2.1	329.7		0.32	0.00	0.00	2.43		10.35	18.92	83.84	86.68	21-Feb-18 07:00:00		10.67	18.92	83.84	89.11
21-Feb-18 08:00:00	21-Feb-18 09:00:00		0.56	0.00	0.00	7.41	2.1	329.7		0.18	0.00	0.00	2.44		10.35	18.92	83.84	86.68	21-Feb-18 08:00:00		10.53	18.92	83.84	89.12
21-Feb-18 09:00:00	21-Feb-18 10:00:00		0.26	0.00	0.00	7.45	2.1	329.7		0.09	0.00	0.00	2.46		10.35	18.92	83.84	86.68	21-Feb-18 09:00:00		10.44	18.92	83.84	89.14
21-Feb-18 10:00:00	21-Feb-18 11:00:00		0.00	0.00	0.00	7.44	2.1	329.7		0.00	0.00	0.00	2.45		10.35	18.92	83.84	86.68	21-Feb-18 10:00:00		10.35	18.92	83.84	89.13
21-Feb-18 11:00:00	21-Feb-18 12:00:00		0.11	0.00	0.00	7.33	2.1	329.7		0.03	0.00	0.00	2.42		10.35	18.92	83.84	86.68	21-Feb-18 11:00:00		10.38	18.92	83.84	89.10
21-Feb-18 12:00:00	21-Feb-18 13:00:00		10.24	0.00	0.00	7.22	2.1	329.7		3.38	0.00	0.00	2.38		10.35	18.92	83.84	86.68	21-Feb-18 12:00:00		13.73	18.92	83.84	89.06
21-Feb-18 13:00:00	21-Feb-18 14:00:00		3.80	0.00	0.00	7.11

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
23-Feb-18 15:00:00	23-Feb-18 16:00:00		4.12	0.00	0.00	7.00	2.1	329.7		1.36	0.00	0.00	2.31		10.35	18.92	83.84	86.68	23-Feb-18 15:00:00		11.71	18.92	83.84	88.99
23-Feb-18 16:00:00	23-Feb-18 17:00:00		23.66	0.00	0.00	7.03	2.1	329.7		7.80	0.00	0.00	2.32		10.35	18.92	83.84	86.68	23-Feb-18 16:00:00		18.15	18.92	83.84	89.00
23-Feb-18 17:00:00	23-Feb-18 18:00:00		16.20	0.00	0.00	7.17	2.1	329.7		5.34	0.00	0.00	2.37		10.35	18.92	83.84	86.68	23-Feb-18 17:00:00		15.69	18.92	83.84	89.05
23-Feb-18 18:00:00	23-Feb-18 19:00:00		5.42	0.00	0.00	7.33	2.1	329.7		1.79	0.00	0.00	2.42		10.35	18.92	83.84	86.68	23-Feb-18 18:00:00		12.14	18.92	83.84	89.10
23-Feb-18 19:00:00	23-Feb-18 20:00:00		6.59	0.00	0.00	7.49	2.1	329.7		2.17	0.00	0.00	2.47		10.35	18.92	83.84	86.68	23-Feb-18 19:00:00		12.52	18.92	83.84	89.15
23-Feb-18 20:00:00	23-Feb-18 21:00:00		7.33	0.00	0.00	7.59	2.1	329.7		2.42	0.00	0.00	2.50		10.35	18.92	83.84	86.68	23-Feb-18 20:00:00		12.77	18.92	83.84	89.18
23-Feb-18 21:00:00	23-Feb-18 22:00:00		0.09	0.00	0.00	7.69	2.1	329.7		0.03	0.00	0.00	2.54		10.35	18.92	83.84	86.68	23-Feb-18 21:00:00		10.38	18.92	83.84	89.22
23-Feb-18 22:00:00	23-Feb-18 23:00:00		1.01	0.00	0.00	7.84	2.1	329.7		0.33	0.00	0.00	2.58		10.35	18.92	83.84	86.68	23-Feb-18 22:00:00		10.68	18.92	83.84	89.26
23-Feb-18 23:00:00	24-Feb-18 00:00:00		1.25	0.00	0.00	7.99	2.1	329.7		0.41	0.00	0.00	2.63		10.35	18.92	83.84	86.68	23-Feb-18 23:00:00		10.76	18.92	83.84	89.31
24-Feb-18 00:00:00	24-Feb-18 01:00:00		0.88	0.00	0.00	8.25	2.1	329.7		0.29	0.00	0.00	2.72		10.35	18.92	83.84	86.68	24-Feb-18 00:00:00		10.64	18.92	83.84	89.40
24-Feb-18 01:00:00	24-Feb-18 02:00:00		0.53	0.00	0.00	8.37	2.1	329.7		0.18	0.00	0.00	2.76		10.35	18.92	83.84	86.68	24-Feb-18 01:00:00		10.53	18.92	83.84	89.44
24-Feb-18 02:00:00	24-Feb-18 03:00:00		0.18	0.00	0.00	8.35	2.1	329.7		0.06	0.00	0.00	2.75		10.35	18.92	83.84	86.68	24-Feb-18 02:00:00		10.41	18.92	83.84	89.43
24-Feb-18 03:00:00	24-Feb-18 04:00:00		0.24	0.00	0.00	8.33	2.1	329.7		0.08	0.00	0.00	2.75		10.35	18.92	83.84	86.68	24-Feb-18 03:00:00		10.43	18.92	83.84	89.43
24-Feb-18 04:00:00	24-Feb-18 05:00:00		0.00	0.00	0.00	8.34	2.1	329.7		0.00	0.00	0.00	2.75		10.35	18.92	83.84	86.68	24-Feb-18 04:00:00		10.35	18.92	83.84	89.43
24-Feb-18 05:00:00	24-Feb-18 06:00:00		0.00	0.00	0.00	8.39	2.1	329.7		0.00	0.00	0.00	2.76		10.35	18.92	83.84	86.68	24-Feb-18 05:00:00		10.35	18.92	83.84	89.44
24-Feb-18 06:00:00	24-Feb-18 07:00:00		0.21	0.00	0.00	8.42	2.1	329.7		0.07	0.00	0.00	2.78		10.35	18.92	83.84	86.68	24-Feb-18 06:00:00		10.42	18.92	83.84	89.46
24-Feb-18 07:00:00	24-Feb-18 08:00:00		0.00	0.00	0.00	8.45	2.1	329.7		0.00	0.00	0.00	2.79		10.35	18.92	83.84	86.68	24-Feb-18 07:00:00		10.35	18.92	83.84	89.47
24-Feb-18 08:00:00	24-Feb-18 09:00:00		0.00	0.00	0.00	8.39	2.1	329.7		0.00	0.00	0.00	2.76		10.35	18.92	83.84	86.68	24-Feb-18 08:00:00		10.35	18.92	83.84	89.44
24-Feb-18 09:00:00	24-Feb-18 10:00:00		0.11	0.00	0.00	8.14	2.1	329.7		0.04	0.00	0.00	2.68		10.35	18.92	83.84	86.68	24-Feb-18 09:00:00		10.39	18.92	83.84	89.36
24-Feb-18 10:00:00	24-Feb-18 11:00:00		0.00	0.00	0.00	7.93	2.1	329.7		0.00	0.00	0.00	2.61		10.35	18.92	83.84	86.68	24-Feb-18 10:00:00		10.35	18.92	83.84	89.29
24-Feb-18 11:00:00	24-Feb-18 12:00:00		0.00	0.00	0.00	7.71	2.1	329.7		0.00	0.00	0.00	2.54		10.35	18.92	83.84	86.68	24-Feb-18 11:00:00		10.35	18.92	83.84	89.22
24-Feb-18 12:00:00	24-Feb-18 13:00:00		0.00	0.00	0.00	7.54	2.1	329.7		0.00	0.00	0.00	2.49		10.35	18.92	83.84	86.68	24-Feb-18 12:00:00		10.35	18.92	83.84	89.17
24-Feb-18 13:00:00	24-Feb-18 14:00:00		0.61	0.00	0.00	7.42	2.1	329.7		0.20	0.00	0.00	2.45		10.35	18.92	83.84	86.68	24-Feb-18 13:00:00		10.55	18.92	83.84	89.13
24-Feb-18 14:00:00	24-Feb-18 15:00:00		1.80	0.00	0.00	7.28	2.1	329.7		0.59	0.00	0.00	2.40		10.35	18.92	83.84	86.68	24-Feb-18 14:00:00		10.94	18.92	83.84	89.08
24-Feb-18 15:00:00	24-Feb-18 16:00:00		0.27	0.00	0.00	7.14	2.1	329.7		0.09	0.00	0.00	2.36		10.35	18.92	83.84	86.68	24-Feb-18 15:00:00		10.44	18.92	83.84	89.04
24-Feb-18 16:00:00	24-Feb-18 17:00:00		0.00	0.00	0.00	7.05	2.1	329.7		0.00	0.00	0.00	2.33		10.35	18.92	83.84	86.68	24-Feb-18 16:00:00		10.35	18.92	83.84	89.01
24-Feb-18 17:00:00	24-Feb-18 18:00:00		0.00	0.00	0.00	7.08	2.1	329.7		0.00	0.00	0.00	2.33		10.35	18.92	83.84	86.68	24-Feb-18 17:00:00		10.35	18.92	83.84	89.01
24-Feb-18 18:00:00	24-Feb-18 19:00:00		0.25	0.00	0.00	7.09	2.1	329.7		0.08	0.00	0.00	2.34		10.35	18.92	83.84	86.68	24-Feb-18 18:00:00		10.43	18.92	83.84	89.02
24-Feb-18 19:00:00	24-Feb-18 20:00:00		0.00	0.00	0.00	7.10	2.1	329.7		0.00	0.00	0.00	2.34		10.35	18.92	83.84	86.68	24-Feb-18 19:00:00		10.35	18.92	83.84	89.02
24-Feb-18 20:00:00	24-Feb-18 21:00:00		0.00	0.00	0.00	7.18	2.1	329.7		0.00	0.00	0.00	2.37		10.35	18.92	83.84	86.68	24-Feb-18 20:00:00		10.35	18.92	83.84	89.05
24-Feb-18 21:00:00	24-Feb-18 22:00:00		0.00	0.00	0.00	7.38	2.1	329.7		0.00	0.00	0.00	2.43		10.35	18.92	83.84	86.68	24-Feb-18 21:00:00		10.35	18.92	83.84	89.11
24-Feb-18 22:00:00	24-Feb-18 23:00:00		0.00	0.00	0.00	7.56	2.1	329.7		0.00	0.00	0.00	2.49		10.35	18.92	83.84	86.68	24-Feb-18 22:00:00		10.35	18.92	83.84	89.17
24-Feb-18 23:00:00	25-Feb-18 00:00:00		0.58	0.00	0.00	7.75	2.1	329.7		0.19	0.00	0.00	2.55		10.35	18.92	83.84	86.68	24-Feb-18 23:00:00		10.54	18.92	83.84	89.23
25-Feb-18 00:00:00	25-Feb-18 01:00:00		2.64	0.00	0.00	7.92	2.1	329.7		0.87	0.00	0.00	2.61		10.35	18.92	83.84	86.68	25-Feb-18 00:00:00		11.22	18.92	83.84	89.29
25-Feb-18 01:00:00	25-Feb-18 02:00:00		0.07	0.00	0.00	7.98	2.1	329.7		0.02	0.00	0.00	2.63		10.35	18.92	83.84	86.68	25-Feb-18 01:00:00		10.37	18.92	83.84	89.31
25-Feb-18 02:00:00	25-Feb-18 03:00:00		1.57	0.00	0.00	8.00	2.1	329.7		0.52	0.00	0.00	2.64		10.35	18.92	83.84	86.68	25-Feb-18 02:00:00		10.87	18.92	83.84	89.32
25-Feb-18 03:00:00	25-Feb-18 04:00:00		1.82	0.00	0.00	8.02	2.1	329.7		0.60	0.00	0.00	2.65		10.35	18.92	83.84	86.68	25-Feb-18 03:00:00		10.95	18.92	83.84	89.33
25-Feb-18 04:00:00	25-Feb-18 05:00:00		0.00	0.00	0.00	8.05	2.1	329.7		0.00	0.00	0.00	2.65		10.35	18.92	83.84	86.68	25-Feb-18 04:00:00		10.35	18.92	83.84	89.33
25-Feb-18 05:00:00	25-Feb-18 06:00:00		0.00	0.00	0.00	8.05	2.1	329.7		0.00	0.00	0.00	2.66		10.35	18.92	83.84	86.68	25-Feb-18 05:00:00		10.35	18.92	83.84	89.34
25-Feb-18 06:00:00	25-Feb-18 07:00:00		0.00	0.00	0.00	8.05	2.1	329.7		0.00	0.00	0.00	2.66		10.35	18.92	83.84	86.68	25-Feb-18 06:00:00		10.35	18.92	83.84	89.34
25-Feb-18 07:00:00	25-Feb-18 08:00:00		0.00	0.00	0.00	8.05	2.1	329.7		0.00	0.00	0.00	2.66		10.35	18.92	83.84	86.68	25-Feb-18 07:00:00		10.35	18.92	83.84	89.34
25-Feb-18 08:00:00	25-Feb-18 09:00:00		0.00	0.00	0.00	8.08	2.1	329.7		0.00	0.00	0.00	2.66		10.35	18.92	83.84	86.68	25-Feb-18 08:00:00		10.35	18.92	83.84	89.34
25-Feb-18 09:00:00	25-Feb-18 10:00:00		0.00	0.00	0.00	8.12	2.1	329.7		0.00	0.00	0.00	2.68		10.35	18.92	83.84	86.68	25-Feb-18 09:00:00		10.35	18.92	83.84	89.36
25-Feb-18 10:00:00	25-Feb-18 11:00:00		0.06	0.00	0.00	8.15	2.1	329.7		0.02	0.00	0.00	2.69		10.35	18.92	83.84	86.68	25-Feb-18 10:00:00		10.37	18.92	83.84	89.37
25-Feb-18 11:00:00	25-Feb-18 12:00:00		1.01	0.00	0.00	8.18	2.1	329.7		0.33	0.00	0.00	2.70		10.35	18.92	83.84	86.68	25-Feb-18 11:00:00		10.68	18.92	83.84	89.38
25-Feb-18 12:00:00	25-Feb-18 13:00:00		0.00	0.00	0.00	8.19	2.1	329.7		0.00	0.00	0.00	2.70		10.35	18.92	83.84	86.68	25-Feb-18 12:00:00		10.35	18.92	83.84	89.38
25-Feb-18 13:00:00	25-Feb-18 14:00:00		0.00	0.00	0.00	8.08	2.1	329.7		0.00	0.00	0.00	2.66		10.35	18.92	83.84	86.68	25-Feb-18 13:00:00		10.35	18.92	83.84	89.34
25-Feb-18 14:00:00	25-Feb-18 15:00:00		0.00	0.00	0.00	7.94	2.1	329.7		0.00	0.00	0.00	2.62		10.35	18.92	83.84	86.68	25-Feb-18 14:00:00		10.35	18.92	83.84	89.30
25-Feb-18 15:00:00	25-Feb-18 16:00:00		5.98	0.00	0.00	7.80	2.1	329.7		1.97	0.00	0.00	2.57		10.35	18.92	83.84	86.68	25-Feb-18 15:00:00		12.32	18.92	83.84	89.25
25-Feb-18 16:00:00	25-Feb-18 17:00:00		8.60	0.00	0.00	7.77	2.1	329.7		2.83	0.00	0.00	2.56		10.35	18.92	83.84	86.68	25-Feb-18 16:00:00		13.18	18.92	83.84	89.24
25-Feb-18 17:00:00	25-Feb-18 18:00:00		9.40	0.00	0.00	7.90	2.1	329.7		3.10	0.00	0.00	2.60		10.35	18.92	83.84	86.68	25-Feb-18 17:00:00		13.45	18.92	83.84	89.28
25-Feb-18 18:00:00	25-Feb-18 19:00:00		3.97	0.00	0.00	7.95	2.1	329.7		1.31	0.00	0.00	2.62		10.35	18.92	83.84	86.68	25-Feb-18 18:00:00		11.66	18.92	83.84	89.30
25-Feb-18 19:00:00	25-Feb-18 20:00:00		0.00	0.00	0.00	7.99	2.1	329.7		0.00	0.00	0.00	2.63		10.35	18.92	83.84	86.68	25-Feb-18 19:00:00		10.35	18.92	83.84	89.31
25-Feb-18 20:00:00	25-Feb-18 21:00:00		0.07	0.00	0.00	8.04	2.1	329.7		0.02	0.00	0.00	2.65		10.35	18.92	83.84	86.68	25-Feb-18 20:00:00		10.37	18.92	83.84	89.33
25-Feb-18 21:00:00	25-Feb-18 22:00:00		0.00	0.00	0.00	8.16	2.1	329.7		0.00	0.00	0.00	2.69		10.35	18.92	83.84	86.68	25-Feb-18 21:00:00		10.35	18.92	83.84	89.37
25-Feb-18 22:00:00	25-Feb-18 23:00:00		0.00	0.00	0.00	8.29	2.1	329.7		0.00	0.00	0.00	2.73		10.35	18.92	83.84	86.68	25-Feb-18 22:00:00		10.35	18.92	83.84	89.41
25-Feb-18 23:00:00	26-Feb-18 00:00:00		0.00	0.00	0.00	8.43	2.1	329.7		0.00	0.00	0.00	2.78		10.35	18.92	83.84	86.68	25-Feb-18 23:00:00		10.35	18.92	83.84	89.46
26-Feb-18 00:00:00	26-Feb-18 01:00:00		0.00	0.00	0.00	8.49	2.1	329.7		0.00	0.00	0.00	2.80		10.35	18.92	83.84	86.68	26-Feb-18 00:00:00		10.35	18.92	83.84	89.48
26-Feb-18 01:00:00	26-Feb-18 02:00:00		0.00	0.00	0.00	8.36	2.1	329.7		0.00	0.00	0.00	2.76		10.35	18.92	83.84	86.68	26-Feb-18 01:00:00		10.35	18.92	83.84	89.44
26-Feb-18 02:00:00	26-Feb-18 03:00:00		0.00	0.00	0.00	8.26	2.1	329.7		0.00	0.00	0.00	2.72		10.35	18.92	83.84	86.68	26-Feb-18 02:00:00		10.35	18.92	83.84	89.40
26-Feb-18 03:00:00	26-Feb-18 04:00:00		0.00	0.00	0.00	8.16	2.1	329.7		0.00	0.00	0.00	2.69		10.35	18.92	83.84	86.68	26-Feb-18 03:00:00		10.35	18.92	83.84	89.37
26-Feb-18 04:00:00	26-Feb-18 05:00:00		0.10	0.00	0.00	8.13	2.1	329.7		0.03	0.00	0.00	2.68		10.35	18.92	83.84	86.68	26-Feb-18 04:00:00		10.38	18.92	83.84	89.36
26-Feb-18 05:00:00	26-Feb-18 06:00:00		0.87	0.00	0.00	8.28	2.1	329.7		0.29	0.00	0.00	2.73		10.35	18.92	83.84	86.68	26-Feb-18 05:00:00		10.64	18.92	83.84	89.41
26-Feb-18 06:00:00	26-Feb-18 07:00:00		1.82	0.00	0.00	8.40	2.1	329.7		0.60	0.00	0.00	2.77		10.35	18.92	83.84	86.68	26-Feb-18 06:00:00		10.95	18.92	83.84	89.45
26-Feb-18 07:00:00	26-Feb-18 08:00:00		0.22	0.00	0.00	8.52	2.1	329.7		0.07	0.00	0.00	2.81		10.35	18.92	83.84	86.68	26-Feb-18 07:00:00		10.42	18.92	83.84	89.49
26-Feb-18 08:00:00	26-Feb-18 09:00:00		0.00	0.00	0.00	8.59	2.1	329.7		0.00	0.00	0.00	2.83		10.35	18.92	83.84	86.68	26-Feb-18 08:00:00		10.35	18.92	83.84	89.51
26-Feb-18 09:00:00	26-Feb-18 10:00:00		0.00	0.00	0.00	8.51	2.1	329.7		0.00	0.00	0.00	2.81		10.35	18.92	83.84	86.68	26-Feb-18 09:00:00		10.35	18.92	83.84	89.49
26-Feb-18 10:00:00	26-Feb-18 11:00:00		0.34	0.00	0.00	8.42	2.1	329.7		0.11	0.00	0.00	2.78		10.35	18.92	83.84	86.68	26-Feb-18 10:00:00		10.46	18.92	83.84	89.46
26-Feb-18 11:00:00	26-Feb-18 12:00:00		0.00	0.00	0.00	8.33	2.1	329.7		0.00	0.00	0.00	2.75		10.35	18.92	83.84	86.68	26-Feb-18 11:00:00		10.35	18.92	83.84	89.43
26-Feb-18 12:00:00	26-Feb-18 13:00:00		0.00	0.00	0.00	8.21	2.1	329.7		0.00	0.00	0.00	2.71		10.35	18.92	83.84	86.68	26-Feb-18 12:00:00		10.35	18.92	83.84	89.39
26-Feb-18 13:00:00	26-Feb-18 14:00:00		0.00	0.00	0.00	8.13	2.1	329.7		0.00	0.00	0.00	2.68		10.35	18.92	83.84	86.68	26-Feb-18 13:00:00		10.35	18.92	83.84	89.36
26-Feb-18 14:00:00	26-Feb-18 15:00:00		0.00	0.00	0.00	8.10	2.1	329.7		0.00	0.00	0.00	2.67		10.35	18.92	83.84	86.68	26-Feb-18 14:00:00		10.35	18.92	83.84	89.35
26-Feb-18 15:00:00	26-Feb-18 16:00:00		0.00	0.00	0.00	8.08	2.1	329.7		0.00	0.00	0.00	2.66		10.35	18.92	83.84	86.68	26-Feb-18 15:00:00		10.35	18.92	83.84	89.34
26-Feb-18 16:00:00	26-Feb-18 17:00:00		0.00	0.00	0.00	8.06	2.1	329.7		0.00	0.00	0.00	2.66		10.35	18.92	83.84	86.68	26-Feb-18 16:00:00		10.35	18.92	83.84	89.34
26-Feb-18 17:00:00	26-Feb-18 18:00:00		0.00	0.00	0.00	8.28	2.1	329.7		0.00	0.00	0.00	2.73		10.35	18.92	83.84	86.68	26-Feb-18 17:00:00		10.35	18.92	83.84	89.41
26-Feb-18 18:00:00	26-Feb-18 19:00:00		0.62	0.00	0.00	8.58	2.1	329.7		0.21	0.00	0.00	2.83		10.35	18.92	83.84	86.68	26-Feb-18 18:00:00		10.56	18.92	83.84	89.51
26-Feb-18 19:00:00	26-Feb-18 20:00:00		4.98	0.00	0.00	8.87	2.1	329.7		1.64	0.00	0.00	2.93		10.35	18.92	83.84	86.68	26-Feb-18 19:00:00		11.99	18.92	83.84	89.61
26-Feb-18 20:00:00	26-Feb-18 21:00:00		26.18	0.00	0.00	9.17	2.1	329.7		8.63	0.00	0.00	3.02		10.35	18.92	83.84	86.68	26-Feb-18 20:00:00		18.98	18.92	83.84	89.70
26-Feb-18 21:00:00	26-Feb-18 22:00:00		25.05	0.00	0.00	9.33	2.1	329.7		8.26	0.00	0.00	3.08		10.35	18.92	83.84	86.68	26-Feb-18 21:00:00		18.61	18.92	83.84	89.76
26-Feb-18 22:00:00	26-Feb-18 23:00:00		37.16	0.00	0.00	9.43	2.1	329.7		12.25	0.00	0.00	3.11		10.35	18.92	83.84	86.68	26-Feb-18 22:00:00		22.60	18.92	83.84	89.79
26-Feb-18 23:00:00	27-Feb-18 00:00:00		32.86	0.00	0.00	9.52	2.1	329.7		10.83	0.00	0.00	3.14		10.35	18.92	83.84	86.68	26-Feb-18 23:00:00		21.18	18.92	83.84	89.82
27-Feb-18 00:00:00	27-Feb-18 01:00:00		20.68	0.00	0.00	9.59	2.1	329.7		6.82	0.00	0.00	3.16		10.35	18.92	83.84	86.68	27-Feb-18 00:00:00		17.17	18.92	83.84	89.84
27-Feb-18 01:00:00	27-Feb-18 02:00:00		24.78	0.00	0.00	9.62	2.1	329.7		8.17	0.00	0.00	3.17		10.35	18.92	83.84	86.68	27-Feb-18 01:00:00		18.52	18.92	83.84	89.85
27-Feb-18 02:00:00	27-Feb-18 03:00:00		20.40	0.00	0.00	9.69	2.1	329.7		6.73	0.00	0.00	3.20		10.35	18.92	83.84	86.68	27-Feb-18 02:00:00		17.08	18.92	83.84	89.88
27-Feb-18 03:00:00	27-Feb-18 04:00:00		19.87	0.00	0.00	9.76	2.1	329.7		6.55	0.00	0.00	3.22		10.35	18.92	83.84	86.68	27-Feb-18 03:00:00		16.90	18.92	83.84	89.90
27-Feb-18 04:00:00	27-Feb-18 05:00:00		13.50	0.00	0.00	9.84	2.1	329.7		4.45	0.00	0.00	3.24		10.35	18.92	83.84	86.68	27-Feb-18 04:00:00		14.80	18.92	83.84	89.92
27-Feb-18 05:00:00	27-Feb-18 06:00:00		1.44	0.00	0.00	9.90	2.1	329.7		0.47	0.00	0.00	3.27		10.35	18.92	83.84	86.68	27-Feb-18 05:00:00		10.82	18.92	83.84	89.95
27-Feb-18 06:00:00	27-Feb-18 07:00:00		17.34	0.00	0.00	9.96	2.1	329.7		5.72	0.00	0.00	3.28		10.35	18.92	83.84	86.68	27-Feb-18 06:00:00		16.07	18.92	83.84	89.96
27-Feb-18 07:00:00	27-Feb-18 08:00:00		16.36	0.00	0.00	10.01	2.1	329.7		5.39	0.00	0.00	3.30		10.35	18.92	83.84	86.68	27-Feb-18 07:00:00		15.74	18.92	83.84	89.98
27-Feb-18 08:00:00	27-Feb-18 09:00:00		6.94	0.00	0.00	10.00	2.1	329.7		2.29	0.00	0.00	3.30		10.35	18.92	83.84	86.68	27-Feb-18 08:00:00		12.64	18.92	83.84	89.98
27-Feb-18 09:00:00	27-Feb-18 10:00:00		4.41	0.00	0.00	9.61	2.1	329.7		1.45	0.00	0.00	3.17		10.35	18.92	83.84	86.68	27-Feb-18 09:00:00		11.80	18.92	83.84	89.85
27-Feb-18 10:00:00	27-Feb-18 11:00:00		5.43	0.00	0.00	9.17	2.1	329.7		1.79	0.00	0.00	3.02		10.35	18.92	83.84	86.68	27-Feb-18 10:00:00		12.14	18.92	83.84	89.70
27-Feb-18 11:00:00	27-Feb-18 12:00:00		15.97	0.00	0.00	8.74	2.1	329.7		5.26	0.00	0.00	2.88		10.35	18.92	83.84	86.68	27-Feb-18 11:00:00		15.61	18.92	83.84	89.56
27-Feb-18 12:00:00	27-Feb-18 13:00:00		26.57	0.00	0.00	8.32

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
01-Mar-18 14:00:00	01-Mar-18 15:00:00		0.20	0.00	0.00	8.04	2.1	329.7		0.07	0.00	0.00	2.65		10.35	18.92	83.84	86.68	01-Mar-18 14:00:00		10.42	18.92	83.84	89.33
01-Mar-18 15:00:00	01-Mar-18 16:00:00		0.16	0.00	0.00	8.06	2.1	329.7		0.05	0.00	0.00	2.66		10.35	18.92	83.84	86.68	01-Mar-18 15:00:00		10.40	18.92	83.84	89.34
01-Mar-18 16:00:00	01-Mar-18 17:00:00		0.16	0.00	0.00	8.35	2.1	329.7		0.05	0.00	0.00	2.75		10.35	18.92	83.84	86.68	01-Mar-18 16:00:00		10.40	18.92	83.84	89.43
01-Mar-18 17:00:00	01-Mar-18 18:00:00		0.00	0.00	0.00	9.26	2.1	329.7		0.00	0.00	0.00	3.05		10.35	18.92	83.84	86.68	01-Mar-18 17:00:00		10.35	18.92	83.84	89.73
01-Mar-18 18:00:00	01-Mar-18 19:00:00		0.00	0.00	0.00	10.65	2.1	329.7		0.00	0.00	0.00	3.51		10.35	18.92	83.84	86.68	01-Mar-18 18:00:00		10.35	18.92	83.84	90.19
01-Mar-18 19:00:00	01-Mar-18 20:00:00		0.00	0.00	0.00	8.95	2.1	329.7		0.00	0.00	0.00	2.95		10.35	18.92	83.84	86.68	01-Mar-18 19:00:00		10.35	18.92	83.84	89.63
01-Mar-18 20:00:00	01-Mar-18 21:00:00		0.00	0.00	0.00	9.00	2.1	329.7		0.00	0.00	0.00	2.97		10.35	18.92	83.84	86.68	01-Mar-18 20:00:00		10.35	18.92	83.84	89.65
01-Mar-18 21:00:00	01-Mar-18 22:00:00		0.00	0.00	0.00	9.05	2.1	329.7		0.00	0.00	0.00	2.98		10.35	18.92	83.84	86.68	01-Mar-18 21:00:00		10.35	18.92	83.84	89.66
01-Mar-18 22:00:00	01-Mar-18 23:00:00		0.00	0.00	0.00	9.08	2.1	329.7		0.00	0.00	0.00	2.99		10.35	18.92	83.84	86.68	01-Mar-18 22:00:00		10.35	18.92	83.84	89.67
01-Mar-18 23:00:00	02-Mar-18 00:00:00		0.15	0.00	0.00	9.09	2.1	329.7		0.05	0.00	0.00	3.00		10.35	18.92	83.84	86.68	01-Mar-18 23:00:00		10.40	18.92	83.84	89.68
02-Mar-18 00:00:00	02-Mar-18 01:00:00		0.00	0.00	0.00	9.91	2.1	329.7		0.00	0.00	0.00	3.27		10.35	18.92	83.84	86.68	02-Mar-18 00:00:00		10.35	18.92	83.84	89.95
02-Mar-18 01:00:00	02-Mar-18 02:00:00		0.00	0.00	0.00	10.07	2.1	329.7		0.00	0.00	0.00	3.32		10.35	18.92	83.84	86.68	02-Mar-18 01:00:00		10.35	18.92	83.84	90.00
02-Mar-18 02:00:00	02-Mar-18 03:00:00		0.25	0.00	0.00	9.92	2.1	329.7		0.08	0.00	0.00	3.27		10.35	18.92	83.84	86.68	02-Mar-18 02:00:00		10.43	18.92	83.84	89.95
02-Mar-18 03:00:00	02-Mar-18 04:00:00		3.61	0.00	0.00	9.77	2.1	329.7		1.19	0.00	0.00	3.22		10.35	18.92	83.84	86.68	02-Mar-18 03:00:00		11.54	18.92	83.84	89.90
02-Mar-18 04:00:00	02-Mar-18 05:00:00		7.00	0.00	0.00	9.58	2.1	329.7		2.31	0.00	0.00	3.16		10.35	18.92	83.84	86.68	02-Mar-18 04:00:00		12.66	18.92	83.84	89.84
02-Mar-18 05:00:00	02-Mar-18 06:00:00		12.70	0.00	0.00	9.33	2.1	329.7		4.19	0.00	0.00	3.08		10.35	18.92	83.84	86.68	02-Mar-18 05:00:00		14.54	18.92	83.84	89.76
02-Mar-18 06:00:00	02-Mar-18 07:00:00		11.75	0.00	0.00	9.29	2.1	329.7		3.87	0.00	0.00	3.06		10.35	18.92	83.84	86.68	02-Mar-18 06:00:00		14.22	18.92	83.84	89.74
02-Mar-18 07:00:00	02-Mar-18 08:00:00		11.33	0.00	0.00	9.25	2.1	329.7		3.73	0.00	0.00	3.05		10.35	18.92	83.84	86.68	02-Mar-18 07:00:00		14.08	18.92	83.84	89.73
02-Mar-18 08:00:00	02-Mar-18 09:00:00		10.64	0.00	0.00	9.20	2.1	329.7		3.51	0.00	0.00	3.03		10.35	18.92	83.84	86.68	02-Mar-18 08:00:00		13.86	18.92	83.84	89.71
02-Mar-18 09:00:00	02-Mar-18 10:00:00		9.91	0.00	0.00	9.07	2.1	329.7		3.27	0.00	0.00	2.99		10.35	18.92	83.84	86.68	02-Mar-18 09:00:00		13.62	18.92	83.84	89.67
02-Mar-18 10:00:00	02-Mar-18 11:00:00		9.72	0.00	0.00	8.90	2.1	329.7		3.20	0.00	0.00	2.93		10.35	18.92	83.84	86.68	02-Mar-18 10:00:00		13.55	18.92	83.84	89.61
02-Mar-18 11:00:00	02-Mar-18 12:00:00		7.85	0.00	0.00	8.73	2.1	329.7		2.59	0.00	0.00	2.88		10.35	18.92	83.84	86.68	02-Mar-18 11:00:00		12.94	18.92	83.84	89.56
02-Mar-18 12:00:00	02-Mar-18 13:00:00		0.00	0.00	0.00	8.55	2.1	329.7		0.00	0.00	0.00	2.82		10.35	18.92	83.84	86.68	02-Mar-18 12:00:00		10.35	18.92	83.84	89.50
02-Mar-18 13:00:00	02-Mar-18 14:00:00		0.00	0.00	0.00	8.39	2.1	329.7		0.00	0.00	0.00	2.77		10.35	18.92	83.84	86.68	02-Mar-18 13:00:00		10.35	18.92	83.84	89.45
02-Mar-18 14:00:00	02-Mar-18 15:00:00		0.10	0.00	0.00	8.31	2.1	329.7		0.03	0.00	0.00	2.74		10.35	18.92	83.84	86.68	02-Mar-18 14:00:00		10.38	18.92	83.84	89.42
02-Mar-18 15:00:00	02-Mar-18 16:00:00		0.44	0.00	0.00	8.22	2.1	329.7		0.15	0.00	0.00	2.71		10.35	18.92	83.84	86.68	02-Mar-18 15:00:00		10.50	18.92	83.84	89.39
02-Mar-18 16:00:00	02-Mar-18 17:00:00		0.00	0.00	0.00	8.14	2.1	329.7		0.00	0.00	0.00	2.68		10.35	18.92	83.84	86.68	02-Mar-18 16:00:00		10.35	18.92	83.84	89.36
02-Mar-18 17:00:00	02-Mar-18 18:00:00		0.00	0.00	0.00	8.21	2.1	329.7		0.00	0.00	0.00	2.71		10.35	18.92	83.84	86.68	02-Mar-18 17:00:00		10.35	18.92	83.84	89.39
02-Mar-18 18:00:00	02-Mar-18 19:00:00		0.00	0.00	0.00	8.36	2.1	329.7		0.00	0.00	0.00	2.75		10.35	18.92	83.84	86.68	02-Mar-18 18:00:00		10.35	18.92	83.84	89.43
02-Mar-18 19:00:00	02-Mar-18 20:00:00		0.00	0.00	0.00	8.50	2.1	329.7		0.00	0.00	0.00	2.80		10.35	18.92	83.84	86.68	02-Mar-18 19:00:00		10.35	18.92	83.84	89.48
02-Mar-18 20:00:00	02-Mar-18 21:00:00		0.00	0.00	0.00	8.66	2.1	329.7		0.00	0.00	0.00	2.85		10.35	18.92	83.84	86.68	02-Mar-18 20:00:00		10.35	18.92	83.84	89.53
02-Mar-18 21:00:00	02-Mar-18 22:00:00		0.00	0.00	0.00	9.10	2.1	329.7		0.00	0.00	0.00	3.00		10.35	18.92	83.84	86.68	02-Mar-18 21:00:00		10.35	18.92	83.84	89.68
02-Mar-18 22:00:00	02-Mar-18 23:00:00		3.14	0.00	0.00	13.77	2.1	329.7		1.03	0.00	0.00	4.54		10.35	18.92	83.84	86.68	02-Mar-18 22:00:00		11.38	18.92	83.84	91.22
02-Mar-18 23:00:00	03-Mar-18 00:00:00		24.48	0.00	0.00	10.06	2.1	329.7		8.07	0.00	0.00	3.32		10.35	18.92	83.84	86.68	02-Mar-18 23:00:00		18.42	18.92	83.84	90.00
03-Mar-18 00:00:00	03-Mar-18 01:00:00		16.88	0.00	0.00	9.77	2.1	329.7		5.57	0.00	0.00	3.22		10.35	18.92	83.84	86.68	03-Mar-18 00:00:00		15.92	18.92	83.84	89.90
03-Mar-18 01:00:00	03-Mar-18 02:00:00		13.72	0.00	0.00	9.47	2.1	329.7		4.52	0.00	0.00	3.12		10.35	18.92	83.84	86.68	03-Mar-18 01:00:00		14.87	18.92	83.84	89.80
03-Mar-18 02:00:00	03-Mar-18 03:00:00		15.98	0.00	0.00	9.19	2.1	329.7		5.27	0.00	0.00	3.03		10.35	18.92	83.84	86.68	03-Mar-18 02:00:00		15.62	18.92	83.84	89.71
03-Mar-18 03:00:00	03-Mar-18 04:00:00		22.74	0.00	0.00	9.18	2.1	329.7		7.50	0.00	0.00	3.03		10.35	18.92	83.84	86.68	03-Mar-18 03:00:00		17.85	18.92	83.84	89.71
03-Mar-18 04:00:00	03-Mar-18 05:00:00		21.64	0.00	0.00	9.25	2.1	329.7		7.13	0.00	0.00	3.05		10.35	18.92	83.84	86.68	03-Mar-18 04:00:00		17.48	18.92	83.84	89.73
03-Mar-18 05:00:00	03-Mar-18 06:00:00		24.20	0.00	0.00	9.33	2.1	329.7		7.98	0.00	0.00	3.07		10.35	18.92	83.84	86.68	03-Mar-18 05:00:00		18.33	18.92	83.84	89.75
03-Mar-18 06:00:00	03-Mar-18 07:00:00		25.30	0.00	0.00	9.35	2.1	329.7		8.34	0.00	0.00	3.08		10.35	18.92	83.84	86.68	03-Mar-18 06:00:00		18.69	18.92	83.84	89.76
03-Mar-18 07:00:00	03-Mar-18 08:00:00		6.87	0.00	0.00	9.06	2.1	329.7		2.26	0.00	0.00	2.99		10.35	18.92	83.84	86.68	03-Mar-18 07:00:00		12.61	18.92	83.84	89.67
03-Mar-18 08:00:00	03-Mar-18 09:00:00		4.58	0.00	0.00	8.81	2.1	329.7		1.51	0.00	0.00	2.90		10.35	18.92	83.84	86.68	03-Mar-18 08:00:00		11.86	18.92	83.84	89.58
03-Mar-18 09:00:00	03-Mar-18 10:00:00		6.63	0.00	0.00	8.56	2.1	329.7		2.19	0.00	0.00	2.82		10.35	18.92	83.84	86.68	03-Mar-18 09:00:00		12.54	18.92	83.84	89.50
03-Mar-18 10:00:00	03-Mar-18 11:00:00		10.62	0.00	0.00	8.28	2.1	329.7		3.50	0.00	0.00	2.73		10.35	18.92	83.84	86.68	03-Mar-18 10:00:00		13.85	18.92	83.84	89.41
03-Mar-18 11:00:00	03-Mar-18 12:00:00		15.06	0.00	0.00	7.99	2.1	329.7		4.96	0.00	0.00	2.64		10.35	18.92	83.84	86.68	03-Mar-18 11:00:00		15.31	18.92	83.84	89.32
03-Mar-18 12:00:00	03-Mar-18 13:00:00		17.13	0.00	0.00	7.81	2.1	329.7		5.65	0.00	0.00	2.58		10.35	18.92	83.84	86.68	03-Mar-18 12:00:00		16.00	18.92	83.84	89.26
03-Mar-18 13:00:00	03-Mar-18 14:00:00		10.01	0.00	0.00	7.63	2.1	329.7		3.30	0.00	0.00	2.52		10.35	18.92	83.84	86.68	03-Mar-18 13:00:00		13.65	18.92	83.84	89.20
03-Mar-18 14:00:00	03-Mar-18 15:00:00		6.87	0.00	0.00	7.48	2.1	329.7		2.27	0.00	0.00	2.47		10.35	18.92	83.84	86.68	03-Mar-18 14:00:00		12.62	18.92	83.84	89.15
03-Mar-18 15:00:00	03-Mar-18 16:00:00		2.26	0.00	0.00	7.48	2.1	329.7		0.74	0.00	0.00	2.47		10.35	18.92	83.84	86.68	03-Mar-18 15:00:00		11.09	18.92	83.84	89.15
03-Mar-18 16:00:00	03-Mar-18 17:00:00		1.33	0.00	0.00	7.45	2.1	329.7		0.44	0.00	0.00	2.45		10.35	18.92	83.84	86.68	03-Mar-18 16:00:00		10.79	18.92	83.84	89.13
03-Mar-18 17:00:00	03-Mar-18 18:00:00		0.91	0.00	0.00	7.41	2.1	329.7		0.30	0.00	0.00	2.44		10.35	18.92	83.84	86.68	03-Mar-18 17:00:00		10.65	18.92	83.84	89.12
03-Mar-18 18:00:00	03-Mar-18 19:00:00		0.50	0.00	0.00	7.41	2.1	329.7		0.16	0.00	0.00	2.44		10.35	18.92	83.84	86.68	03-Mar-18 18:00:00		10.51	18.92	83.84	89.12
03-Mar-18 19:00:00	03-Mar-18 20:00:00		0.10	0.00	0.00	7.61	2.1	329.7		0.03	0.00	0.00	2.51		10.35	18.92	83.84	86.68	03-Mar-18 19:00:00		10.38	18.92	83.84	89.19
03-Mar-18 20:00:00	03-Mar-18 21:00:00		49.32	0.00	0.00	7.82	2.1	329.7		16.26	0.00	0.00	2.58		10.35	18.92	83.84	86.68	03-Mar-18 20:00:00		26.61	18.92	83.84	89.26
03-Mar-18 21:00:00	03-Mar-18 22:00:00		508.98	0.00	0.00	8.02	2.1	329.7		167.81	0.00	0.00	2.65		10.35	18.92	83.84	86.68	03-Mar-18 21:00:00		178.16	18.92	83.84	89.33
03-Mar-18 22:00:00	03-Mar-18 23:00:00		1,149.95	0.00	0.00	8.19	2.1	329.7		379.14	0.00	0.00	2.70		10.35	18.92	83.84	86.68	03-Mar-18 22:00:00		389.49	18.92	83.84	89.38
03-Mar-18 23:00:00	04-Mar-18 00:00:00		856.98	0.00	0.00	8.22	2.1	329.7		282.55	0.00	0.00	2.71		10.35	18.92	83.84	86.68	03-Mar-18 23:00:00		292.90	18.92	83.84	89.39
04-Mar-18 00:00:00	04-Mar-18 01:00:00		946.64	0.00	0.00	8.39	2.1	329.7		312.11	0.00	0.00	2.77		10.35	18.92	83.84	86.68	04-Mar-18 00:00:00		322.46	18.92	83.84	89.45
04-Mar-18 01:00:00	04-Mar-18 02:00:00		1,166.02	0.00	0.00	8.56	2.1	329.7		384.44	0.00	0.00	2.82		10.35	18.92	83.84	86.68	04-Mar-18 01:00:00		394.79	18.92	83.84	89.50
04-Mar-18 02:00:00	04-Mar-18 03:00:00		1,691.17	0.00	0.00	8.73	2.1	329.7		557.58	0.00	0.00	2.88		10.35	18.92	83.84	86.68	04-Mar-18 02:00:00		567.93	18.92	83.84	89.56
04-Mar-18 03:00:00	04-Mar-18 04:00:00		1,395.73	0.00	0.00	8.81	2.1	329.7		460.17	0.00	0.00	2.91		10.35	18.92	83.84	86.68	04-Mar-18 03:00:00		470.52	18.92	83.84	89.59
04-Mar-18 04:00:00	04-Mar-18 05:00:00		1,343.39	0.00	0.00	8.79	2.1	329.7		442.92	0.00	0.00	2.90		10.35	18.92	83.84	86.68	04-Mar-18 04:00:00		453.27	18.92	83.84	89.58
04-Mar-18 05:00:00	04-Mar-18 06:00:00		1,467.54	0.00	0.00	8.76	2.1	329.7		483.85	0.00	0.00	2.89		10.35	18.92	83.84	86.68	04-Mar-18 05:00:00		494.20	18.92	83.84	89.57
04-Mar-18 06:00:00	04-Mar-18 07:00:00		477.28	0.00	0.00	8.72	2.1	329.7		157.36	0.00	0.00	2.87		10.35	18.92	83.84	86.68	04-Mar-18 06:00:00		167.71	18.92	83.84	89.55
04-Mar-18 07:00:00	04-Mar-18 08:00:00		13.78	0.00	0.00	8.53	2.1	329.7		4.54	0.00	0.00	2.81		10.35	18.92	83.84	86.68	04-Mar-18 07:00:00		14.89	18.92	83.84	89.49
04-Mar-18 08:00:00	04-Mar-18 09:00:00		19.13	0.00	0.00	8.38	2.1	329.7		6.31	0.00	0.00	2.76		10.35	18.92	83.84	86.68	04-Mar-18 08:00:00		16.66	18.92	83.84	89.44
04-Mar-18 09:00:00	04-Mar-18 10:00:00		18.52	0.00	0.00	8.22	2.1	329.7		6.11	0.00	0.00	2.71		10.35	18.92	83.84	86.68	04-Mar-18 09:00:00		16.46	18.92	83.84	89.39
04-Mar-18 10:00:00	04-Mar-18 11:00:00		15.66	0.00	0.00	8.06	2.1	329.7		5.16	0.00	0.00	2.66		10.35	18.92	83.84	86.68	04-Mar-18 10:00:00		15.51	18.92	83.84	89.34
04-Mar-18 11:00:00	04-Mar-18 12:00:00		12.87	0.00	0.00	7.90	2.1	329.7		4.24	0.00	0.00	2.60		10.35	18.92	83.84	86.68	04-Mar-18 11:00:00		14.59	18.92	83.84	89.28
04-Mar-18 12:00:00	04-Mar-18 13:00:00		7.13	0.00	0.00	7.76	2.1	329.7		2.35	0.00	0.00	2.56		10.35	18.92	83.84	86.68	04-Mar-18 12:00:00		12.70	18.92	83.84	89.24
04-Mar-18 13:00:00	04-Mar-18 14:00:00		9.54	0.00	0.00	7.63	2.1	329.7		3.15	0.00	0.00	2.51		10.35	18.92	83.84	86.68	04-Mar-18 13:00:00		13.50	18.92	83.84	89.19
04-Mar-18 14:00:00	04-Mar-18 15:00:00		5.73	0.00	0.00	9.91	2.1	329.7		1.89	0.00	0.00	3.27		10.35	18.92	83.84	86.68	04-Mar-18 14:00:00		12.24	18.92	83.84	89.95
04-Mar-18 15:00:00	04-Mar-18 16:00:00		6.02	0.00	0.00	37.00	2.1	329.7		1.99	0.00	0.00	12.20		10.35	18.92	83.84	86.68	04-Mar-18 15:00:00		12.34	18.92	83.84	98.88
04-Mar-18 16:00:00	04-Mar-18 17:00:00		6.55	0.00	0.00	7.48	2.1	329.7		2.16	0.00	0.00	2.47		10.35	18.92	83.84	86.68	04-Mar-18 16:00:00		12.51	18.92	83.84	89.15
04-Mar-18 17:00:00	04-Mar-18 18:00:00		11.62	0.00	0.00	7.46	2.1	329.7		3.83	0.00	0.00	2.46		10.35	18.92	83.84	86.68	04-Mar-18 17:00:00		14.18	18.92	83.84	89.14
04-Mar-18 18:00:00	04-Mar-18 19:00:00		12.46	0.00	0.00	7.43	2.1	329.7		4.11	0.00	0.00	2.45		10.35	18.92	83.84	86.68	04-Mar-18 18:00:00		14.46	18.92	83.84	89.13
04-Mar-18 19:00:00	04-Mar-18 20:00:00		3.99	0.00	0.00	7.67	2.1	329.7		1.32	0.00	0.00	2.53		10.35	18.92	83.84	86.68	04-Mar-18 19:00:00		11.67	18.92	83.84	89.21
04-Mar-18 20:00:00	04-Mar-18 21:00:00		11.87	0.00	0.00	7.96	2.1	329.7		3.91	0.00	0.00	2.62		10.35	18.92	83.84	86.68	04-Mar-18 20:00:00		14.26	18.92	83.84	89.30
04-Mar-18 21:00:00	04-Mar-18 22:00:00		13.85	0.00	0.00	8.23	2.1	329.7		4.57	0.00	0.00	2.72		10.35	18.92	83.84	86.68	04-Mar-18 21:00:00		14.92	18.92	83.84	89.40
04-Mar-18 22:00:00	04-Mar-18 23:00:00		16.78	0.00	0.00	8.51	2.1	329.7		5.53	0.00	0.00	2.81		10.35	18.92	83.84	86.68	04-Mar-18 22:00:00		15.88	18.92	83.84	89.49
04-Mar-18 23:00:00	05-Mar-18 00:00:00		11.31	0.00	0.00	8.71	2.1	329.7		3.73	0.00	0.00	2.87		10.35	18.92	83.84	86.68	04-Mar-18 23:00:00		14.08	18.92	83.84	89.55
05-Mar-18 00:00:00	05-Mar-18 01:00:00		21.07	0.00	0.00	8.85	2.1	329.7		6.95	0.00	0.00	2.92		10.35	18.92	83.84	86.68	05-Mar-18 00:00:00		17.30	18.92	83.84	89.60
05-Mar-18 01:00:00	05-Mar-18 02:00:00		14.93	0.00	0.00	9.00	2.1	329.7		4.92	0.00	0.00	2.97		10.35	18.92	83.84	86.68	05-Mar-18 01:00:00		15.27	18.92	83.84	89.65
05-Mar-18 02:00:00	05-Mar-18 03:00:00		14.85	0.00	0.00	9.14	2.1	329.7		4.90	0.00	0.00	3.01		10.35	18.92	83.84	86.68	05-Mar-18 02:00:00		15.25	18.92	83.84	89.69
05-Mar-18 03:00:00	05-Mar-18 04:00:00		21.20	0.00	0.00	9.21	2.1	329.7		6.99	0.00	0.00	3.04		10.35	18.92	83.84	86.68	05-Mar-18 03:00:00		17.34	18.92	83.84	89.72
05-Mar-18 04:00:00	05-Mar-18 05:00:00		24.13	0.00	0.00	9.24	2.1	329.7		7.96	0.00	0.00	3.05		10.35	18.92	83.84	86.68	05-Mar-18 04:00:00		18.31	18.92	83.84	89.73
05-Mar-18 05:00:00	05-Mar-18 06:00:00		19.95	0.00	0.00	9.28	2.1	329.7		6.58	0.00	0.00	3.06		10.35	18.92	83.84	86.68	05-Mar-18 05:00:00		16.93	18.92	83.84	89.74
05-Mar-18 06:00:00	05-Mar-18 07:00:00		21.51	0.00	0.00	9.31	2.1	329.7		7.09	0.00	0.00	3.07		10.35	18.92	83.84	86.68	05-Mar-18 06:00:00		17.44	18.92	83.84	89.75
05-Mar-18 07:00:00	05-Mar-18 08:00:00		40.38	0.00	0.00	9.17	2.1	329.7		13.31	0.00	0.00	3.02		10.35	18.92	83.84	86.68	05-Mar-18 07:00:00		23.66	18.92	83.84	89.70
05-Mar-18 08:00:00	05-Mar-18 09:00:00		30.21	0.00	0.00	8.88	2.1	329.7		9.96	0.00	0.00	2.93		10.35	18.92	83.84	86.68	05-Mar-18 08:00:00		20.31	18.92	83.84	89.61
05-Mar-18 09:00:00	05-Mar-18 10:00:00		16.68	0.00	0.00	8.59	2.1	329.7		5.50	0.00	0.00	2.83		10.35	18.92	83.84	86.68	05-Mar-18 09:00:00		15.85	18.92	83.84	89.51
05-Mar-18 10:00:00	05-Mar-18 11:00:00		202.73	0.00	0.00	8.31	2.1	329.7		66.84	0.00	0.00	2.74		10.35	18.92	83.84	86.68	05-Mar-18 10:00:00		77.19	18.92	83.84	89.42
05-Mar-18 11:00:00	05-Mar-18 12:00:00		6.46	0.00

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
07-Mar-18 13:00:00	07-Mar-18 14:00:00		0.00	0.00	0.00	8.28	2.1	329.7		0.00	0.00	0.00	2.73		10.35	18.92	83.84	86.68	07-Mar-18 13:00:00		10.35	18.92	83.84	89.41
07-Mar-18 14:00:00	07-Mar-18 15:00:00		0.00	0.00	0.00	8.37	2.1	329.7		0.00	0.00	0.00	2.76		10.35	18.92	83.84	86.68	07-Mar-18 14:00:00		10.35	18.92	83.84	89.44
07-Mar-18 15:00:00	07-Mar-18 16:00:00		1.67	0.00	0.00	8.46	2.1	329.7		0.55	0.00	0.00	2.79		10.35	18.92	83.84	86.68	07-Mar-18 15:00:00		10.90	18.92	83.84	89.47
07-Mar-18 16:00:00	07-Mar-18 17:00:00		1.61	0.00	0.00	8.51	2.1	329.7		0.53	0.00	0.00	2.81		10.35	18.92	83.84	86.68	07-Mar-18 16:00:00		10.88	18.92	83.84	89.49
07-Mar-18 17:00:00	07-Mar-18 18:00:00		1.14	0.00	0.00	8.56	2.1	329.7		0.38	0.00	0.00	2.82		10.35	18.92	83.84	86.68	07-Mar-18 17:00:00		10.73	18.92	83.84	89.50
07-Mar-18 18:00:00	07-Mar-18 19:00:00		0.68	0.00	0.00	8.61	2.1	329.7		0.22	0.00	0.00	2.84		10.35	18.92	83.84	86.68	07-Mar-18 18:00:00		10.57	18.92	83.84	89.52
07-Mar-18 19:00:00	07-Mar-18 20:00:00		0.21	0.00	0.00	8.66	2.1	329.7		0.07	0.00	0.00	2.85		10.35	18.92	83.84	86.68	07-Mar-18 19:00:00		10.42	18.92	83.84	89.53
07-Mar-18 20:00:00	07-Mar-18 21:00:00		0.00	0.00	0.00	8.52	2.1	329.7		0.00	0.00	0.00	2.81		10.35	18.92	83.84	86.68	07-Mar-18 20:00:00		10.35	18.92	83.84	89.49
07-Mar-18 21:00:00	07-Mar-18 22:00:00		0.00	0.00	0.00	8.36	2.1	329.7		0.00	0.00	0.00	2.76		10.35	18.92	83.84	86.68	07-Mar-18 21:00:00		10.35	18.92	83.84	89.44
07-Mar-18 22:00:00	07-Mar-18 23:00:00		1.62	0.00	0.00	8.19	2.1	329.7		0.53	0.00	0.00	2.70		10.35	18.92	83.84	86.68	07-Mar-18 22:00:00		10.88	18.92	83.84	89.38
07-Mar-18 23:00:00	08-Mar-18 00:00:00		1.53	0.00	0.00	8.24	2.1	329.7		0.51	0.00	0.00	2.72		10.35	18.92	83.84	86.68	07-Mar-18 23:00:00		10.86	18.92	83.84	89.40
08-Mar-18 00:00:00	08-Mar-18 01:00:00		8.22	0.00	0.00	8.47	2.1	329.7		2.71	0.00	0.00	2.79		10.35	18.92	83.84	86.68	08-Mar-18 00:00:00		13.06	18.92	83.84	89.47
08-Mar-18 01:00:00	08-Mar-18 02:00:00		6.99	0.00	0.00	8.68	2.1	329.7		2.31	0.00	0.00	2.86		10.35	18.92	83.84	86.68	08-Mar-18 01:00:00		12.66	18.92	83.84	89.54
08-Mar-18 02:00:00	08-Mar-18 03:00:00		20.43	0.00	0.00	8.88	2.1	329.7		6.74	0.00	0.00	2.93		10.35	18.92	83.84	86.68	08-Mar-18 02:00:00		17.09	18.92	83.84	89.61
08-Mar-18 03:00:00	08-Mar-18 04:00:00		17.27	0.00	0.00	9.21	2.1	329.7		5.69	0.00	0.00	3.04		10.35	18.92	83.84	86.68	08-Mar-18 03:00:00		16.04	18.92	83.84	89.72
08-Mar-18 04:00:00	08-Mar-18 05:00:00		17.25	0.00	0.00	9.38	2.1	329.7		5.69	0.00	0.00	3.09		10.35	18.92	83.84	86.68	08-Mar-18 04:00:00		16.04	18.92	83.84	89.77
08-Mar-18 05:00:00	08-Mar-18 06:00:00		14.81	0.00	0.00	9.51	2.1	329.7		4.88	0.00	0.00	3.13		10.35	18.92	83.84	86.68	08-Mar-18 05:00:00		15.23	18.92	83.84	89.81
08-Mar-18 06:00:00	08-Mar-18 07:00:00		14.29	0.00	0.00	9.63	2.1	329.7		4.71	0.00	0.00	3.17		10.35	18.92	83.84	86.68	08-Mar-18 06:00:00		15.06	18.92	83.84	89.85
08-Mar-18 07:00:00	08-Mar-18 08:00:00		14.62	0.00	0.00	9.87	2.1	329.7		4.82	0.00	0.00	3.25		10.35	18.92	83.84	86.68	08-Mar-18 07:00:00		15.17	18.92	83.84	89.93
08-Mar-18 08:00:00	08-Mar-18 09:00:00		14.96	0.00	0.00	9.59	2.1	329.7		4.93	0.00	0.00	3.16		10.35	18.92	83.84	86.68	08-Mar-18 08:00:00		15.28	18.92	83.84	89.84
08-Mar-18 09:00:00	08-Mar-18 10:00:00		10.72	0.00	0.00	9.20	2.1	329.7		3.53	0.00	0.00	3.03		10.35	18.92	83.84	86.68	08-Mar-18 09:00:00		13.88	18.92	83.84	89.71
08-Mar-18 10:00:00	08-Mar-18 11:00:00		4.87	0.00	0.00	8.81	2.1	329.7		1.61	0.00	0.00	2.91		10.35	18.92	83.84	86.68	08-Mar-18 10:00:00		11.96	18.92	83.84	89.59
08-Mar-18 11:00:00	08-Mar-18 12:00:00		18.62	0.00	0.00	8.58	2.1	329.7		6.14	0.00	0.00	2.83		10.35	18.92	83.84	86.68	08-Mar-18 11:00:00		16.49	18.92	83.84	89.51
08-Mar-18 12:00:00	08-Mar-18 13:00:00		24.40	0.00	0.00	8.59	2.1	329.7		8.05	0.00	0.00	2.83		10.35	18.92	83.84	86.68	08-Mar-18 12:00:00		18.40	18.92	83.84	89.51
08-Mar-18 13:00:00	08-Mar-18 14:00:00		23.88	0.00	0.00	8.59	2.1	329.7		7.87	0.00	0.00	2.83		10.35	18.92	83.84	86.68	08-Mar-18 13:00:00		18.22	18.92	83.84	89.51
08-Mar-18 14:00:00	08-Mar-18 15:00:00		0.70	0.00	0.00	8.60	2.1	329.7		0.23	0.00	0.00	2.83		10.35	18.92	83.84	86.68	08-Mar-18 14:00:00		10.58	18.92	83.84	89.51
08-Mar-18 15:00:00	08-Mar-18 16:00:00		2.64	0.00	0.00	8.74	2.1	329.7		0.87	0.00	0.00	2.88		10.35	18.92	83.84	86.68	08-Mar-18 15:00:00		11.22	18.92	83.84	89.56
08-Mar-18 16:00:00	08-Mar-18 17:00:00		7.40	0.00	0.00	8.62	2.1	329.7		2.44	0.00	0.00	2.84		10.35	18.92	83.84	86.68	08-Mar-18 16:00:00		12.79	18.92	83.84	89.52
08-Mar-18 17:00:00	08-Mar-18 18:00:00		4.02	0.00	0.00	8.42	2.1	329.7		1.33	0.00	0.00	2.78		10.35	18.92	83.84	86.68	08-Mar-18 17:00:00		11.68	18.92	83.84	89.46
08-Mar-18 18:00:00	08-Mar-18 19:00:00		8.03	0.00	0.00	8.23	2.1	329.7		2.65	0.00	0.00	2.71		10.35	18.92	83.84	86.68	08-Mar-18 18:00:00		13.00	18.92	83.84	89.39
08-Mar-18 19:00:00	08-Mar-18 20:00:00		7.56	0.00	0.00	8.07	2.1	329.7		2.49	0.00	0.00	2.66		10.35	18.92	83.84	86.68	08-Mar-18 19:00:00		12.84	18.92	83.84	89.34
08-Mar-18 20:00:00	08-Mar-18 21:00:00		4.38	0.00	0.00	8.19	2.1	329.7		1.44	0.00	0.00	2.70		10.35	18.92	83.84	86.68	08-Mar-18 20:00:00		11.79	18.92	83.84	89.38
08-Mar-18 21:00:00	08-Mar-18 22:00:00		1.22	0.00	0.00	8.34	2.1	329.7		0.40	0.00	0.00	2.75		10.35	18.92	83.84	86.68	08-Mar-18 21:00:00		10.75	18.92	83.84	89.43
08-Mar-18 22:00:00	08-Mar-18 23:00:00		0.53	0.00	0.00	8.50	2.1	329.7		0.17	0.00	0.00	2.80		10.35	18.92	83.84	86.68	08-Mar-18 22:00:00		10.52	18.92	83.84	89.48
08-Mar-18 23:00:00	09-Mar-18 00:00:00		3.31	0.00	0.00	8.77	2.1	329.7		1.09	0.00	0.00	2.89		10.35	18.92	83.84	86.68	08-Mar-18 23:00:00		11.44	18.92	83.84	89.57
09-Mar-18 00:00:00	09-Mar-18 01:00:00		1.24	0.00	0.00	9.06	2.1	329.7		0.41	0.00	0.00	2.99		10.35	18.92	83.84	86.68	09-Mar-18 00:00:00		10.76	18.92	83.84	89.67
09-Mar-18 01:00:00	09-Mar-18 02:00:00		21.43	0.00	0.00	9.31	2.1	329.7		7.07	0.00	0.00	3.07		10.35	18.92	83.84	86.68	09-Mar-18 01:00:00		17.42	18.92	83.84	89.75
09-Mar-18 02:00:00	09-Mar-18 03:00:00		24.15	0.00	0.00	9.57	2.1	329.7		7.96	0.00	0.00	3.15		10.35	18.92	83.84	86.68	09-Mar-18 02:00:00		18.31	18.92	83.84	89.83
09-Mar-18 03:00:00	09-Mar-18 04:00:00		21.79	0.00	0.00	9.94	2.1	329.7		7.18	0.00	0.00	3.28		10.35	18.92	83.84	86.68	09-Mar-18 03:00:00		17.53	18.92	83.84	89.96
09-Mar-18 04:00:00	09-Mar-18 05:00:00		17.88	0.00	0.00	10.07	2.1	329.7		5.89	0.00	0.00	3.32		10.35	18.92	83.84	86.68	09-Mar-18 04:00:00		16.24	18.92	83.84	90.00
09-Mar-18 05:00:00	09-Mar-18 06:00:00		23.25	0.00	0.00	10.12	2.1	329.7		7.66	0.00	0.00	3.33		10.35	18.92	83.84	86.68	09-Mar-18 05:00:00		18.01	18.92	83.84	90.01
09-Mar-18 06:00:00	09-Mar-18 07:00:00		35.92	0.00	0.00	10.16	2.1	329.7		11.84	0.00	0.00	3.35		10.35	18.92	83.84	86.68	09-Mar-18 06:00:00		22.19	18.92	83.84	90.03
09-Mar-18 07:00:00	09-Mar-18 08:00:00		26.85	0.00	0.00	10.14	2.1	329.7		8.85	0.00	0.00	3.34		10.35	18.92	83.84	86.68	09-Mar-18 07:00:00		19.20	18.92	83.84	90.02
09-Mar-18 08:00:00	09-Mar-18 09:00:00		24.09	0.00	0.00	9.81	2.1	329.7		7.94	0.00	0.00	3.23		10.35	18.92	83.84	86.68	09-Mar-18 08:00:00		18.29	18.92	83.84	89.91
09-Mar-18 09:00:00	09-Mar-18 10:00:00		24.87	0.00	0.00	9.44	2.1	329.7		8.20	0.00	0.00	3.11		10.35	18.92	83.84	86.68	09-Mar-18 09:00:00		18.55	18.92	83.84	89.79
09-Mar-18 10:00:00	09-Mar-18 11:00:00		20.52	0.00	0.00	9.07	2.1	329.7		6.76	0.00	0.00	2.99		10.35	18.92	83.84	86.68	09-Mar-18 10:00:00		17.11	18.92	83.84	89.67
09-Mar-18 11:00:00	09-Mar-18 12:00:00		11.84	0.00	0.00	8.69	2.1	329.7		3.90	0.00	0.00	2.86		10.35	18.92	83.84	86.68	09-Mar-18 11:00:00		14.25	18.92	83.84	89.54
09-Mar-18 12:00:00	09-Mar-18 13:00:00		16.09	0.00	0.00	8.45	2.1	329.7		5.30	0.00	0.00	2.79		10.35	18.92	83.84	86.68	09-Mar-18 12:00:00		15.65	18.92	83.84	89.47
09-Mar-18 13:00:00	09-Mar-18 14:00:00		1.44	0.00	0.00	8.23	2.1	329.7		0.47	0.00	0.00	2.71		10.35	18.92	83.84	86.68	09-Mar-18 13:00:00		10.82	18.92	83.84	89.39
09-Mar-18 14:00:00	09-Mar-18 15:00:00		5.22	0.00	0.00	8.02	2.1	329.7		1.72	0.00	0.00	2.64		10.35	18.92	83.84	86.68	09-Mar-18 14:00:00		12.07	18.92	83.84	89.32
09-Mar-18 15:00:00	09-Mar-18 16:00:00		31.47	0.00	0.00	7.69	2.1	329.7		10.38	0.00	0.00	2.53		10.35	18.92	83.84	86.68	09-Mar-18 15:00:00		20.73	18.92	83.84	89.21
09-Mar-18 16:00:00	09-Mar-18 17:00:00		24.61	0.00	0.00	7.58	2.1	329.7		8.12	0.00	0.00	2.50		10.35	18.92	83.84	86.68	09-Mar-18 16:00:00		18.47	18.92	83.84	89.18
09-Mar-18 17:00:00	09-Mar-18 18:00:00		19.86	0.00	0.00	7.55	2.1	329.7		6.55	0.00	0.00	2.49		10.35	18.92	83.84	86.68	09-Mar-18 17:00:00		16.90	18.92	83.84	89.17
09-Mar-18 18:00:00	09-Mar-18 19:00:00		19.65	0.00	0.00	7.53	2.1	329.7		6.48	0.00	0.00	2.48		10.35	18.92	83.84	86.68	09-Mar-18 18:00:00		16.83	18.92	83.84	89.16
09-Mar-18 19:00:00	09-Mar-18 20:00:00		19.43	0.00	0.00	7.62	2.1	329.7		6.41	0.00	0.00	2.51		10.35	18.92	83.84	86.68	09-Mar-18 19:00:00		16.76	18.92	83.84	89.19
09-Mar-18 20:00:00	09-Mar-18 21:00:00		19.01	0.00	0.00	7.76	2.1	329.7		6.27	0.00	0.00	2.56		10.35	18.92	83.84	86.68	09-Mar-18 20:00:00		16.62	18.92	83.84	89.24
09-Mar-18 21:00:00	09-Mar-18 22:00:00		18.04	0.00	0.00	7.86	2.1	329.7		5.95	0.00	0.00	2.59		10.35	18.92	83.84	86.68	09-Mar-18 21:00:00		16.30	18.92	83.84	89.27
09-Mar-18 22:00:00	09-Mar-18 23:00:00		13.94	0.00	0.00	7.95	2.1	329.7		4.60	0.00	0.00	2.62		10.35	18.92	83.84	86.68	09-Mar-18 22:00:00		14.95	18.92	83.84	89.30
09-Mar-18 23:00:00	10-Mar-18 00:00:00		6.65	0.00	0.00	8.09	2.1	329.7		2.19	0.00	0.00	2.67		10.35	18.92	83.84	86.68	09-Mar-18 23:00:00		12.54	18.92	83.84	89.35
10-Mar-18 00:00:00	10-Mar-18 01:00:00		1.45	0.00	0.00	8.24	2.1	329.7		0.48	0.00	0.00	2.72		10.35	18.92	83.84	86.68	10-Mar-18 00:00:00		10.83	18.92	83.84	89.40
10-Mar-18 01:00:00	10-Mar-18 02:00:00		1.80	0.00	0.00	8.39	2.1	329.7		0.59	0.00	0.00	2.77		10.35	18.92	83.84	86.68	10-Mar-18 01:00:00		10.94	18.92	83.84	89.45
10-Mar-18 02:00:00	10-Mar-18 03:00:00		2.15	0.00	0.00	8.53	2.1	329.7		0.71	0.00	0.00	2.81		10.35	18.92	83.84	86.68	10-Mar-18 02:00:00		11.06	18.92	83.84	89.49
10-Mar-18 03:00:00	10-Mar-18 04:00:00		3.49	0.00	0.00	8.67	2.1	329.7		1.15	0.00	0.00	2.86		10.35	18.92	83.84	86.68	10-Mar-18 03:00:00		11.50	18.92	83.84	89.54
10-Mar-18 04:00:00	10-Mar-18 05:00:00		1.17	0.00	0.00	8.62	2.1	329.7		0.39	0.00	0.00	2.84		10.35	18.92	83.84	86.68	10-Mar-18 04:00:00		10.74	18.92	83.84	89.52
10-Mar-18 05:00:00	10-Mar-18 06:00:00		0.41	0.00	0.00	8.53	2.1	329.7		0.14	0.00	0.00	2.81		10.35	18.92	83.84	86.68	10-Mar-18 05:00:00		10.49	18.92	83.84	89.49
10-Mar-18 06:00:00	10-Mar-18 07:00:00		0.00	0.00	0.00	8.44	2.1	329.7		0.00	0.00	0.00	2.78		10.35	18.92	83.84	86.68	10-Mar-18 06:00:00		10.35	18.92	83.84	89.46
10-Mar-18 07:00:00	10-Mar-18 08:00:00		0.00	0.00	0.00	8.25	2.1	329.7		0.00	0.00	0.00	2.72		10.35	18.92	83.84	86.68	10-Mar-18 07:00:00		10.35	18.92	83.84	89.40
10-Mar-18 08:00:00	10-Mar-18 09:00:00		0.00	0.00	0.00	7.91	2.1	329.7		0.00	0.00	0.00	2.61		10.35	18.92	83.84	86.68	10-Mar-18 08:00:00		10.35	18.92	83.84	89.29
10-Mar-18 09:00:00	10-Mar-18 10:00:00		0.02	0.00	0.00	7.57	2.1	329.7		0.01	0.00	0.00	2.49		10.35	18.92	83.84	86.68	10-Mar-18 09:00:00		10.36	18.92	83.84	89.17
10-Mar-18 10:00:00	10-Mar-18 11:00:00		4.12	0.00	0.00	7.22	2.1	329.7		1.36	0.00	0.00	2.38		10.35	18.92	83.84	86.68	10-Mar-18 10:00:00		11.71	18.92	83.84	89.06
10-Mar-18 11:00:00	10-Mar-18 12:00:00		11.46	0.00	0.00	6.96	2.1	329.7		3.78	0.00	0.00	2.29		10.35	18.92	83.84	86.68	10-Mar-18 11:00:00		14.13	18.92	83.84	88.97
10-Mar-18 12:00:00	10-Mar-18 13:00:00		9.41	0.00	0.00	6.95	2.1	329.7		3.10	0.00	0.00	2.29		10.35	18.92	83.84	86.68	10-Mar-18 12:00:00		13.45	18.92	83.84	88.97
10-Mar-18 13:00:00	10-Mar-18 14:00:00		19.80	0.00	0.00	6.96	2.1	329.7		6.53	0.00	0.00	2.29		10.35	18.92	83.84	86.68	10-Mar-18 13:00:00		16.88	18.92	83.84	88.97
10-Mar-18 14:00:00	10-Mar-18 15:00:00		23.33	0.00	0.00	6.96	2.1	329.7		7.69	0.00	0.00	2.30		10.35	18.92	83.84	86.68	10-Mar-18 14:00:00		18.04	18.92	83.84	88.98
10-Mar-18 15:00:00	10-Mar-18 16:00:00		22.49	0.00	0.00	6.93	2.1	329.7		7.41	0.00	0.00	2.28		10.35	18.92	83.84	86.68	10-Mar-18 15:00:00		17.76	18.92	83.84	88.96
10-Mar-18 16:00:00	10-Mar-18 17:00:00		21.08	0.00	0.00	6.90	2.1	329.7		6.95	0.00	0.00	2.27		10.35	18.92	83.84	86.68	10-Mar-18 16:00:00		17.30	18.92	83.84	88.95
10-Mar-18 17:00:00	10-Mar-18 18:00:00		16.30	0.00	0.00	6.88	2.1	329.7		5.38	0.00	0.00	2.27		10.35	18.92	83.84	86.68	10-Mar-18 17:00:00		15.73	18.92	83.84	88.95
10-Mar-18 18:00:00	10-Mar-18 19:00:00		0.97	0.00	0.00	6.87	2.1	329.7		0.32	0.00	0.00	2.27		10.35	18.92	83.84	86.68	10-Mar-18 18:00:00		10.67	18.92	83.84	88.95
10-Mar-18 19:00:00	10-Mar-18 20:00:00		190.71	0.00	0.00	6.96	2.1	329.7		62.88	0.00	0.00	2.29		10.35	18.92	83.84	86.68	10-Mar-18 19:00:00		73.23	18.92	83.84	88.97
10-Mar-18 20:00:00	10-Mar-18 21:00:00		348.75	0.00	0.00	7.12	2.1	329.7		114.98	0.00	0.00	2.35		10.35	18.92	83.84	86.68	10-Mar-18 20:00:00		125.33	18.92	83.84	89.03
10-Mar-18 21:00:00	10-Mar-18 22:00:00		381.56	0.00	0.00	7.25	2.1	329.7		125.80	0.00	0.00	2.39		10.35	18.92	83.84	86.68	10-Mar-18 21:00:00		136.15	18.92	83.84	89.07
10-Mar-18 22:00:00	10-Mar-18 23:00:00		420.67	0.00	0.00	7.38	2.1	329.7		138.69	0.00	0.00	2.43		10.35	18.92	83.84	86.68	10-Mar-18 22:00:00		149.04	18.92	83.84	89.11
10-Mar-18 23:00:00	11-Mar-18 00:00:00		538.37	0.00	0.00	7.49	2.1	329.7		177.50	0.00	0.00	2.47		10.35	18.92	83.84	86.68	10-Mar-18 23:00:00		187.85	18.92	83.84	89.15
11-Mar-18 00:00:00	11-Mar-18 01:00:00		610.95	0.00	0.00	7.52	2.1	329.7		201.43	0.00	0.00	2.48		10.35	18.92	83.84	86.68	11-Mar-18 00:00:00		211.78	18.92	83.84	89.16
11-Mar-18 01:00:00	11-Mar-18 03:00:00		616.02	0.00	0.00	7.55	2.1	329.7		203.10	0.00	0.00	2.49		10.35	18.92	83.84	86.68	11-Mar-18 01:00:00		213.45	18.92	83.84	89.17
11-Mar-18 03:00:00	11-Mar-18 04:00:00		1,168.88	0.00	0.00	7.57	2.1	329.7		385.38	0.00	0.00	2.50		10.35	18.92	83.84	86.68	11-Mar-18 03:00:00		395.73	18.92	83.84	89.18
11-Mar-18 04:00:00	11-Mar-18 05:00:00		1,286.15	0.00	0.00	7.58	2.1	329.7		424.04	0.00	0.00	2.50		10.35	18.92	83.84	86.68	11-Mar-18 04:00:00		434.39	18.92	83.84	89.18
11-Mar-18 05:00:00	11-Mar-18 06:00:00		1,284.57	0.00	0.00	7.60	2.1	329.7		423.52	0.00	0.00	2.50		10.35	18.92	83.84	86.68	11-Mar-18 05:00:00		433.87	18.92	83.84	89.18
11-Mar-18 06:00:00	11-Mar-18 07:00:00		1,286.99	0.00	0.00	7.61	2.1	329.7		424.32	0.00	0.00	2.51		10.35	18.92	83.84	86.68	11-Mar-18 06:00:00		434.67	18.92	83.84	89.19
11-Mar-18 07:00:00	11-Mar-18 08:00:00		1,289.21	0.00	0.00	7.62	2.1	329.7		425.05	0.00	0.00	2.51		10.35	18.92	83.84	86.68	11-Mar-18 07:00:00		435.40	18.92	83.84	89.19
11-Mar-18 08:00:00	11-Mar-18 09:00:00		1,150.30	0.00	0.00	7.72	2.1	329.7		379.25	0.00	0.00	2.55		10.35	18.92	83.84	86.68	11-Mar-18 08:00:00		389.60	18.92	83.84	89.23
11-Mar-18 09:00:00	11-Mar-18 10:00:00		295.18	0.00	0.00	7.84	2.1	329.7		97.32	0.00	0.00	2.59		10.35	18.92	83.84	86.68	11-Mar-18 09:00:00		107.67	18.92	83.84	89.27
11-Mar-18 10:00:00	11-Mar-18 11:00:00		109.96	0.00	0.00	7.96	2.1	329.7		36.25	0.00	0.00	2.62		10.35	18.92	83.84	86.68	11-Mar-18 10:00:00		46.60	18.92	83.84	89.30
11-Mar-18 11:00:00	11-Mar-18 12:00:00		110.44	0.00

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
13-Mar-18 13:00:00	13-Mar-18 14:00:00		0.00	0.00	0.00	8.19	2.1	329.7		0.00	0.00	0.00	2.70		10.35	18.92	83.84	86.68	13-Mar-18 13:00:00		10.35	18.92	83.84	89.38
13-Mar-18 14:00:00	13-Mar-18 15:00:00		0.00	0.00	0.00	8.14	2.1	329.7		0.00	0.00	0.00	2.69		10.35	18.92	83.84	86.68	13-Mar-18 14:00:00		10.35	18.92	83.84	89.37
13-Mar-18 15:00:00	13-Mar-18 16:00:00		0.00	0.00	0.00	8.09	2.1	329.7		0.00	0.00	0.00	2.67		10.35	18.92	83.84	86.68	13-Mar-18 15:00:00		10.35	18.92	83.84	89.35
13-Mar-18 16:00:00	13-Mar-18 17:00:00		2.01	0.00	0.00	8.01	2.1	329.7		0.66	0.00	0.00	2.64		10.35	18.92	83.84	86.68	13-Mar-18 16:00:00		11.01	18.92	83.84	89.32
13-Mar-18 17:00:00	13-Mar-18 18:00:00		8.11	0.00	0.00	7.92	2.1	329.7		2.67	0.00	0.00	2.61		10.35	18.92	83.84	86.68	13-Mar-18 17:00:00		13.02	18.92	83.84	89.29
13-Mar-18 18:00:00	13-Mar-18 19:00:00		17.18	0.00	0.00	7.84	2.1	329.7		5.66	0.00	0.00	2.59		10.35	18.92	83.84	86.68	13-Mar-18 18:00:00		16.01	18.92	83.84	89.27
13-Mar-18 19:00:00	13-Mar-18 20:00:00		15.79	0.00	0.00	7.73	2.1	329.7		5.21	0.00	0.00	2.55		10.35	18.92	83.84	86.68	13-Mar-18 19:00:00		15.56	18.92	83.84	89.23
13-Mar-18 20:00:00	13-Mar-18 21:00:00		12.60	0.00	0.00	7.74	2.1	329.7		4.16	0.00	0.00	2.55		10.35	18.92	83.84	86.68	13-Mar-18 20:00:00		14.51	18.92	83.84	89.23
13-Mar-18 21:00:00	13-Mar-18 22:00:00		3.06	0.00	0.00	7.82	2.1	329.7		1.01	0.00	0.00	2.58		10.35	18.92	83.84	86.68	13-Mar-18 21:00:00		11.36	18.92	83.84	89.26
13-Mar-18 22:00:00	13-Mar-18 23:00:00		5.39	0.00	0.00	7.91	2.1	329.7		1.78	0.00	0.00	2.61		10.35	18.92	83.84	86.68	13-Mar-18 22:00:00		12.13	18.92	83.84	89.29
13-Mar-18 23:00:00	14-Mar-18 00:00:00		2.12	0.00	0.00	7.98	2.1	329.7		0.70	0.00	0.00	2.63		10.35	18.92	83.84	86.68	13-Mar-18 23:00:00		11.05	18.92	83.84	89.31
14-Mar-18 00:00:00	14-Mar-18 01:00:00		7.05	0.00	0.00	8.03	2.1	329.7		2.32	0.00	0.00	2.65		10.35	18.92	83.84	86.68	14-Mar-18 00:00:00		12.67	18.92	83.84	89.33
14-Mar-18 01:00:00	14-Mar-18 02:00:00		5.20	0.00	0.00	8.09	2.1	329.7		1.71	0.00	0.00	2.67		10.35	18.92	83.84	86.68	14-Mar-18 01:00:00		12.06	18.92	83.84	89.35
14-Mar-18 02:00:00	14-Mar-18 03:00:00		2.93	0.00	0.00	8.16	2.1	329.7		0.97	0.00	0.00	2.69		10.35	18.92	83.84	86.68	14-Mar-18 02:00:00		11.32	18.92	83.84	89.37
14-Mar-18 03:00:00	14-Mar-18 04:00:00		0.71	0.00	0.00	8.21	2.1	329.7		0.24	0.00	0.00	2.71		10.35	18.92	83.84	86.68	14-Mar-18 03:00:00		10.59	18.92	83.84	89.39
14-Mar-18 04:00:00	14-Mar-18 05:00:00		0.47	0.00	0.00	8.30	2.1	329.7		0.16	0.00	0.00	2.74		10.35	18.92	83.84	86.68	14-Mar-18 04:00:00		10.51	18.92	83.84	89.42
14-Mar-18 05:00:00	14-Mar-18 06:00:00		0.23	0.00	0.00	8.43	2.1	329.7		0.08	0.00	0.00	2.78		10.35	18.92	83.84	86.68	14-Mar-18 05:00:00		10.43	18.92	83.84	89.46
14-Mar-18 06:00:00	14-Mar-18 07:00:00		0.02	0.00	0.00	8.56	2.1	329.7		0.01	0.00	0.00	2.82		10.35	18.92	83.84	86.68	14-Mar-18 06:00:00		10.36	18.92	83.84	89.50
14-Mar-18 07:00:00	14-Mar-18 08:00:00		0.00	0.00	0.00	8.69	2.1	329.7		0.00	0.00	0.00	2.87		10.35	18.92	83.84	86.68	14-Mar-18 07:00:00		10.35	18.92	83.84	89.55
14-Mar-18 08:00:00	14-Mar-18 09:00:00		0.00	0.00	0.00	8.64	2.1	329.7		0.00	0.00	0.00	2.85		10.35	18.92	83.84	86.68	14-Mar-18 08:00:00		10.35	18.92	83.84	89.53
14-Mar-18 09:00:00	14-Mar-18 10:00:00		0.00	0.00	0.00	8.50	2.1	329.7		0.00	0.00	0.00	2.80		10.35	18.92	83.84	86.68	14-Mar-18 09:00:00		10.35	18.92	83.84	89.48
14-Mar-18 10:00:00	14-Mar-18 11:00:00		0.00	0.00	0.00	8.37	2.1	329.7		0.00	0.00	0.00	2.76		10.35	18.92	83.84	86.68	14-Mar-18 10:00:00		10.35	18.92	83.84	89.44
14-Mar-18 11:00:00	14-Mar-18 12:00:00		0.00	0.00	0.00	8.20	2.1	329.7		0.00	0.00	0.00	2.70		10.35	18.92	83.84	86.68	14-Mar-18 11:00:00		10.35	18.92	83.84	89.38
14-Mar-18 12:00:00	14-Mar-18 13:00:00		0.00	0.00	0.00	8.11	2.1	329.7		0.00	0.00	0.00	2.67		10.35	18.92	83.84	86.68	14-Mar-18 12:00:00		10.35	18.92	83.84	89.35
14-Mar-18 13:00:00	14-Mar-18 14:00:00		0.00	0.00	0.00	8.13	2.1	329.7		0.00	0.00	0.00	2.68		10.35	18.92	83.84	86.68	14-Mar-18 13:00:00		10.35	18.92	83.84	89.36
14-Mar-18 14:00:00	14-Mar-18 15:00:00		7.50	0.00	0.00	8.16	2.1	329.7		2.47	0.00	0.00	2.69		10.35	18.92	83.84	86.68	14-Mar-18 14:00:00		12.82	18.92	83.84	89.37
14-Mar-18 15:00:00	14-Mar-18 16:00:00		15.48	0.00	0.00	8.18	2.1	329.7		5.10	0.00	0.00	2.70		10.35	18.92	83.84	86.68	14-Mar-18 15:00:00		15.45	18.92	83.84	89.38
14-Mar-18 16:00:00	14-Mar-18 17:00:00		1.36	0.00	0.00	8.22	2.1	329.7		0.45	0.00	0.00	2.71		10.35	18.92	83.84	86.68	14-Mar-18 16:00:00		10.80	18.92	83.84	89.39
14-Mar-18 17:00:00	14-Mar-18 18:00:00		1.16	0.00	0.00	8.28	2.1	329.7		0.38	0.00	0.00	2.73		10.35	18.92	83.84	86.68	14-Mar-18 17:00:00		10.73	18.92	83.84	89.41
14-Mar-18 18:00:00	14-Mar-18 19:00:00		1.93	0.00	0.00	8.34	2.1	329.7		0.64	0.00	0.00	2.75		10.35	18.92	83.84	86.68	14-Mar-18 18:00:00		10.99	18.92	83.84	89.43
14-Mar-18 19:00:00	14-Mar-18 20:00:00		2.32	0.00	0.00	8.33	2.1	329.7		0.76	0.00	0.00	2.75		10.35	18.92	83.84	86.68	14-Mar-18 19:00:00		11.11	18.92	83.84	89.43
14-Mar-18 20:00:00	14-Mar-18 21:00:00		3.50	0.00	0.00	8.27	2.1	329.7		1.15	0.00	0.00	2.73		10.35	18.92	83.84	86.68	14-Mar-18 20:00:00		11.50	18.92	83.84	89.41
14-Mar-18 21:00:00	14-Mar-18 22:00:00		3.45	0.00	0.00	8.32	2.1	329.7		1.14	0.00	0.00	2.74		10.35	18.92	83.84	86.68	14-Mar-18 21:00:00		11.49	18.92	83.84	89.42
14-Mar-18 22:00:00	14-Mar-18 23:00:00		1.19	0.00	0.00	8.37	2.1	329.7		0.39	0.00	0.00	2.76		10.35	18.92	83.84	86.68	14-Mar-18 22:00:00		10.74	18.92	83.84	89.44
14-Mar-18 23:00:00	15-Mar-18 00:00:00		0.95	0.00	0.00	8.36	2.1	329.7		0.31	0.00	0.00	2.76		10.35	18.92	83.84	86.68	14-Mar-18 23:00:00		10.66	18.92	83.84	89.44
15-Mar-18 00:00:00	15-Mar-18 01:00:00		14.35	0.00	0.00	8.42	2.1	329.7		4.73	0.00	0.00	2.77		10.35	18.92	83.84	86.68	15-Mar-18 00:00:00		15.08	18.92	83.84	89.45
15-Mar-18 01:00:00	15-Mar-18 02:00:00		30.51	0.00	0.00	8.64	2.1	329.7		10.06	0.00	0.00	2.85		10.35	18.92	83.84	86.68	15-Mar-18 01:00:00		20.41	18.92	83.84	89.53
15-Mar-18 02:00:00	15-Mar-18 03:00:00		30.89	0.00	0.00	8.86	2.1	329.7		10.19	0.00	0.00	2.92		10.35	18.92	83.84	86.68	15-Mar-18 02:00:00		20.54	18.92	83.84	89.60
15-Mar-18 03:00:00	15-Mar-18 04:00:00		32.23	0.00	0.00	9.05	2.1	329.7		10.63	0.00	0.00	2.99		10.35	18.92	83.84	86.68	15-Mar-18 03:00:00		20.98	18.92	83.84	89.67
15-Mar-18 04:00:00	15-Mar-18 05:00:00		36.09	0.00	0.00	9.10	2.1	329.7		11.90	0.00	0.00	3.00		10.35	18.92	83.84	86.68	15-Mar-18 04:00:00		22.25	18.92	83.84	89.68
15-Mar-18 05:00:00	15-Mar-18 06:00:00		31.24	0.00	0.00	9.14	2.1	329.7		10.30	0.00	0.00	3.01		10.35	18.92	83.84	86.68	15-Mar-18 05:00:00		20.65	18.92	83.84	89.69
15-Mar-18 06:00:00	15-Mar-18 07:00:00		23.28	0.00	0.00	9.19	2.1	329.7		7.67	0.00	0.00	3.03		10.35	18.92	83.84	86.68	15-Mar-18 06:00:00		18.02	18.92	83.84	89.71
15-Mar-18 07:00:00	15-Mar-18 08:00:00		27.67	0.00	0.00	9.19	2.1	329.7		9.12	0.00	0.00	3.03		10.35	18.92	83.84	86.68	15-Mar-18 07:00:00		19.47	18.92	83.84	89.71
15-Mar-18 08:00:00	15-Mar-18 09:00:00		30.50	0.00	0.00	8.92	2.1	329.7		10.05	0.00	0.00	2.94		10.35	18.92	83.84	86.68	15-Mar-18 08:00:00		20.40	18.92	83.84	89.62
15-Mar-18 09:00:00	15-Mar-18 10:00:00		14.56	0.00	0.00	8.62	2.1	329.7		4.80	0.00	0.00	2.84		10.35	18.92	83.84	86.68	15-Mar-18 09:00:00		15.15	18.92	83.84	89.52
15-Mar-18 10:00:00	15-Mar-18 11:00:00		12.21	0.00	0.00	8.32	2.1	329.7		4.03	0.00	0.00	2.74		10.35	18.92	83.84	86.68	15-Mar-18 10:00:00		14.38	18.92	83.84	89.42
15-Mar-18 11:00:00	15-Mar-18 12:00:00		21.69	0.00	0.00	8.00	2.1	329.7		7.15	0.00	0.00	2.64		10.35	18.92	83.84	86.68	15-Mar-18 11:00:00		17.50	18.92	83.84	89.32
15-Mar-18 12:00:00	15-Mar-18 13:00:00		33.02	0.00	0.00	7.67	2.1	329.7		10.89	0.00	0.00	2.53		10.35	18.92	83.84	86.68	15-Mar-18 12:00:00		21.24	18.92	83.84	89.21
15-Mar-18 13:00:00	15-Mar-18 14:00:00		41.44	0.00	0.00	7.38	2.1	329.7		13.66	0.00	0.00	2.43		10.35	18.92	83.84	86.68	15-Mar-18 13:00:00		24.01	18.92	83.84	89.11
15-Mar-18 14:00:00	15-Mar-18 15:00:00		25.74	0.00	0.00	7.09	2.1	329.7		8.49	0.00	0.00	2.34		10.35	18.92	83.84	86.68	15-Mar-18 14:00:00		18.84	18.92	83.84	89.02
15-Mar-18 15:00:00	15-Mar-18 16:00:00		23.58	0.00	0.00	6.88	2.1	329.7		7.78	0.00	0.00	2.27		10.35	18.92	83.84	86.68	15-Mar-18 15:00:00		18.13	18.92	83.84	88.95
15-Mar-18 16:00:00	15-Mar-18 17:00:00		28.69	0.00	0.00	6.95	2.1	329.7		9.46	0.00	0.00	2.29		10.35	18.92	83.84	86.68	15-Mar-18 16:00:00		19.81	18.92	83.84	88.97
15-Mar-18 17:00:00	15-Mar-18 18:00:00		30.28	0.00	0.00	6.96	2.1	329.7		9.98	0.00	0.00	2.29		10.35	18.92	83.84	86.68	15-Mar-18 17:00:00		20.33	18.92	83.84	88.97
15-Mar-18 18:00:00	15-Mar-18 19:00:00		6.43	0.00	0.00	6.97	2.1	329.7		2.12	0.00	0.00	2.30		10.35	18.92	83.84	86.68	15-Mar-18 18:00:00		12.47	18.92	83.84	88.98
15-Mar-18 19:00:00	15-Mar-18 20:00:00		0.82	0.00	0.00	6.99	2.1	329.7		0.27	0.00	0.00	2.31		10.35	18.92	83.84	86.68	15-Mar-18 19:00:00		10.62	18.92	83.84	88.99
15-Mar-18 20:00:00	15-Mar-18 21:00:00		0.54	0.00	0.00	7.14	2.1	329.7		0.18	0.00	0.00	2.35		10.35	18.92	83.84	86.68	15-Mar-18 20:00:00		10.53	18.92	83.84	89.03
15-Mar-18 21:00:00	15-Mar-18 22:00:00		0.26	0.00	0.00	7.29	2.1	329.7		0.09	0.00	0.00	2.40		10.35	18.92	83.84	86.68	15-Mar-18 21:00:00		10.44	18.92	83.84	89.08
15-Mar-18 22:00:00	15-Mar-18 23:00:00		1.87	0.00	0.00	7.44	2.1	329.7		0.62	0.00	0.00	2.45		10.35	18.92	83.84	86.68	15-Mar-18 22:00:00		10.97	18.92	83.84	89.13
15-Mar-18 23:00:00	16-Mar-18 00:00:00		1.44	0.00	0.00	7.58	2.1	329.7		0.48	0.00	0.00	2.50		10.35	18.92	83.84	86.68	15-Mar-18 23:00:00		10.83	18.92	83.84	89.18
16-Mar-18 00:00:00	16-Mar-18 01:00:00		0.20	0.00	0.00	7.59	2.1	329.7		0.07	0.00	0.00	2.50		10.35	18.92	83.84	86.68	16-Mar-18 00:00:00		10.42	18.92	83.84	89.18
16-Mar-18 01:00:00	16-Mar-18 02:00:00		0.59	0.00	0.00	7.56	2.1	329.7		0.19	0.00	0.00	2.49		10.35	18.92	83.84	86.68	16-Mar-18 01:00:00		10.54	18.92	83.84	89.17
16-Mar-18 02:00:00	16-Mar-18 03:00:00		11.15	0.00	0.00	7.53	2.1	329.7		3.68	0.00	0.00	2.48		10.35	18.92	83.84	86.68	16-Mar-18 02:00:00		14.03	18.92	83.84	89.16
16-Mar-18 03:00:00	16-Mar-18 04:00:00		21.03	0.00	0.00	7.51	2.1	329.7		6.93	0.00	0.00	2.48		10.35	18.92	83.84	86.68	16-Mar-18 03:00:00		17.28	18.92	83.84	89.16
16-Mar-18 04:00:00	16-Mar-18 05:00:00		11.40	0.00	0.00	7.66	2.1	329.7		3.76	0.00	0.00	2.53		10.35	18.92	83.84	86.68	16-Mar-18 04:00:00		14.11	18.92	83.84	89.21
16-Mar-18 05:00:00	16-Mar-18 06:00:00		10.42	0.00	0.00	7.83	2.1	329.7		3.44	0.00	0.00	2.58		10.35	18.92	83.84	86.68	16-Mar-18 05:00:00		13.79	18.92	83.84	89.26
16-Mar-18 06:00:00	16-Mar-18 07:00:00		10.20	0.00	0.00	8.01	2.1	329.7		3.36	0.00	0.00	2.64		10.35	18.92	83.84	86.68	16-Mar-18 06:00:00		13.71	18.92	83.84	89.32
16-Mar-18 07:00:00	16-Mar-18 08:00:00		7.64	0.00	0.00	8.13	2.1	329.7		2.52	0.00	0.00	2.68		10.35	18.92	83.84	86.68	16-Mar-18 07:00:00		12.87	18.92	83.84	89.36
16-Mar-18 08:00:00	16-Mar-18 09:00:00		34.09	0.00	0.00	7.84	2.1	329.7		11.24	0.00	0.00	2.58		10.35	18.92	83.84	86.68	16-Mar-18 08:00:00		21.59	18.92	83.84	89.26
16-Mar-18 09:00:00	16-Mar-18 10:00:00		34.78	0.00	0.00	7.52	2.1	329.7		11.47	0.00	0.00	2.48		10.35	18.92	83.84	86.68	16-Mar-18 09:00:00		21.82	18.92	83.84	89.16
16-Mar-18 10:00:00	16-Mar-18 11:00:00		30.41	0.00	0.00	7.21	2.1	329.7		10.03	0.00	0.00	2.38		10.35	18.92	83.84	86.68	16-Mar-18 10:00:00		20.38	18.92	83.84	89.06
16-Mar-18 11:00:00	16-Mar-18 12:00:00		20.93	0.00	0.00	6.91	2.1	329.7		6.90	0.00	0.00	2.28		10.35	18.92	83.84	86.68	16-Mar-18 11:00:00		17.25	18.92	83.84	88.96
16-Mar-18 12:00:00	16-Mar-18 13:00:00		16.05	0.00	0.00	6.74	2.1	329.7		5.29	0.00	0.00	2.22		10.35	18.92	83.84	86.68	16-Mar-18 12:00:00		15.64	18.92	83.84	88.90
16-Mar-18 13:00:00	16-Mar-18 14:00:00		31.54	0.00	0.00	6.59	2.1	329.7		10.40	0.00	0.00	2.17		10.35	18.92	83.84	86.68	16-Mar-18 13:00:00		20.75	18.92	83.84	88.85
16-Mar-18 14:00:00	16-Mar-18 15:00:00		0.86	0.00	0.00	6.44	2.1	329.7		0.28	0.00	0.00	2.12		10.35	18.92	83.84	86.68	16-Mar-18 14:00:00		10.63	18.92	83.84	88.80
16-Mar-18 15:00:00	16-Mar-18 16:00:00		3.30	0.00	0.00	6.28	2.1	329.7		1.09	0.00	0.00	2.07		10.35	18.92	83.84	86.68	16-Mar-18 15:00:00		11.44	18.92	83.84	88.75
16-Mar-18 16:00:00	16-Mar-18 17:00:00		8.01	0.00	0.00	6.17	2.1	329.7		2.64	0.00	0.00	2.03		10.35	18.92	83.84	86.68	16-Mar-18 16:00:00		12.99	18.92	83.84	88.71
16-Mar-18 17:00:00	16-Mar-18 18:00:00		1.56	0.00	0.00	6.11	2.1	329.7		0.51	0.00	0.00	2.01		10.35	18.92	83.84	86.68	16-Mar-18 17:00:00		10.86	18.92	83.84	88.69
16-Mar-18 18:00:00	16-Mar-18 19:00:00		20.11	0.00	0.00	6.05	2.1	329.7		6.63	0.00	0.00	1.99		10.35	18.92	83.84	86.68	16-Mar-18 18:00:00		16.98	18.92	83.84	88.67
16-Mar-18 19:00:00	16-Mar-18 20:00:00		1.40	0.00	0.00	6.00	2.1	329.7		0.46	0.00	0.00	1.98		10.35	18.92	83.84	86.68	16-Mar-18 19:00:00		10.81	18.92	83.84	88.66
16-Mar-18 20:00:00	16-Mar-18 21:00:00		2.49	0.00	0.00	6.25	2.1	329.7		0.82	0.00	0.00	2.06		10.35	18.92	83.84	86.68	16-Mar-18 20:00:00		11.17	18.92	83.84	88.74
16-Mar-18 21:00:00	16-Mar-18 22:00:00		6.38	0.00	0.00	6.62	2.1	329.7		2.10	0.00	0.00	2.18		10.35	18.92	83.84	86.68	16-Mar-18 21:00:00		12.45	18.92	83.84	88.86
16-Mar-18 22:00:00	16-Mar-18 23:00:00		11.33	0.00	0.00	7.00	2.1	329.7		3.74	0.00	0.00	2.31		10.35	18.92	83.84	86.68	16-Mar-18 22:00:00		14.09	18.92	83.84	88.99
16-Mar-18 23:00:00	17-Mar-18 00:00:00		24.96	0.00	0.00	7.37	2.1	329.7		8.23	0.00	0.00	2.43		10.35	18.92	83.84	86.68	16-Mar-18 23:00:00		18.58	18.92	83.84	89.11
17-Mar-18 00:00:00	17-Mar-18 01:00:00		36.86	0.00	0.00	7.58	2.1	329.7		12.15	0.00	0.00	2.50		10.35	18.92	83.84	86.68	17-Mar-18 00:00:00		22.50	18.92	83.84	89.18
17-Mar-18 01:00:00	17-Mar-18 02:00:00		39.80	0.00	0.00	7.73	2.1	329.7		13.12	0.00	0.00	2.55		10.35	18.92	83.84	86.68	17-Mar-18 01:00:00		23.47	18.92	83.84	89.23
17-Mar-18 02:00:00	17-Mar-18 03:00:00		38.38	0.00	0.00	7.87	2.1	329.7		12.65	0.00	0.00	2.59		10.35	18.92	83.84	86.68	17-Mar-18 02:00:00		23.00	18.92	83.84	89.27
17-Mar-18 03:00:00	17-Mar-18 04:00:00		22.92	0.00	0.00	8.01	2.1	329.7		7.56	0.00	0.00	2.64		10.35	18.92	83.84	86.68	17-Mar-18 03:00:00		17.91	18.92	83.84	89.32
17-Mar-18 04:00:00	17-Mar-18 05:00:00		27.93	0.00	0.00	8.10	2.1	329.7		9.21	0.00	0.00	2.67		10.35	18.92	83.84	86.68	17-Mar-18 04:00:00		19.56	18.92	83.84	89.35
17-Mar-18 05:00:00	17-Mar-18 06:00:00		37.96	0.00	0.00	8.13	2.1	329.7		12.52	0.00	0.00	2.68		10.35	18.92	83.84	86.68	17-Mar-18 05:00:00		22.87	18.92	83.84	89.36
17-Mar-18 06:00:00	17-Mar-18 07:00:00		44.77	0.00	0.00	8.17	2.1	329.7		14.76	0.00	0.00	2.69		10.35	18.92	83.84	86.68	17-Mar-18 06:00:00		25.11	18.92	83.84	89.37
17-Mar-18 07:00:00	17-Mar-18 08:00:00		42.84	0.00	0.00	8.23	2.1	329.7		14.12	0.00	0.00	2.71		10.35	18.92	83.84	86.68	17-Mar-18 07:00:00		24.47	18.92	83.84	89.39
17-Mar-18 08:00:00	17-Mar-18 09:00:00		36.47	0.00	0.00	8.17	2.1	329.7		12.02	0.00	0.00	2.69		10.35	18.92	83.84	86.68	17-Mar-18 08:00:00		22.37	18.92	83.84	89.37
17-Mar-18 09:00:00	17-Mar-18 10:00:00		39.19	0.00	0.00	7.96	2.1	329.7		12.92	0.00	0.00	2.62		10.35	18.92	83.84	86.68	17-Mar-18 09:00:00		23.27	18.92	83.84	89.30
17-Mar-18 10:00:00	17-Mar-18 11:00:00		39.62	0.00	0.00	7.74

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
19-Mar-18 12:00:00	19-Mar-18 13:00:00		23.44	0.00	0.00	7.38	2.1	329.7		7.73	0.00	0.00	2.43		10.35	18.92	83.84	86.68	19-Mar-18 12:00:00		18.08	18.92	83.84	89.11
19-Mar-18 13:00:00	19-Mar-18 14:00:00		21.98	0.00	0.00	7.23	2.1	329.7		7.25	0.00	0.00	2.38		10.35	18.92	83.84	86.68	19-Mar-18 13:00:00		17.60	18.92	83.84	89.06
19-Mar-18 14:00:00	19-Mar-18 15:00:00		21.36	0.00	0.00	7.07	2.1	329.7		7.04	0.00	0.00	2.33		10.35	18.92	83.84	86.68	19-Mar-18 14:00:00		17.39	18.92	83.84	89.01
19-Mar-18 15:00:00	19-Mar-18 16:00:00		7.35	0.00	0.00	6.92	2.1	329.7		2.42	0.00	0.00	2.28		10.35	18.92	83.84	86.68	19-Mar-18 15:00:00		12.77	18.92	83.84	88.96
19-Mar-18 16:00:00	19-Mar-18 17:00:00		1.28	0.00	0.00	6.80	2.1	329.7		0.42	0.00	0.00	2.24		10.35	18.92	83.84	86.68	19-Mar-18 16:00:00		10.77	18.92	83.84	88.92
19-Mar-18 17:00:00	19-Mar-18 18:00:00		14.79	0.00	0.00	6.80	2.1	329.7		4.88	0.00	0.00	2.24		10.35	18.92	83.84	86.68	19-Mar-18 17:00:00		15.23	18.92	83.84	88.92
19-Mar-18 18:00:00	19-Mar-18 19:00:00		10.16	0.00	0.00	6.79	2.1	329.7		3.35	0.00	0.00	2.24		10.35	18.92	83.84	86.68	19-Mar-18 18:00:00		13.70	18.92	83.84	88.92
19-Mar-18 19:00:00	19-Mar-18 20:00:00		7.25	0.00	0.00	6.76	2.1	329.7		2.39	0.00	0.00	2.23		10.35	18.92	83.84	86.68	19-Mar-18 19:00:00		12.74	18.92	83.84	88.91
19-Mar-18 20:00:00	19-Mar-18 21:00:00		7.27	0.00	0.00	6.66	2.1	329.7		2.40	0.00	0.00	2.20		10.35	18.92	83.84	86.68	19-Mar-18 20:00:00		12.75	18.92	83.84	88.88
19-Mar-18 21:00:00	19-Mar-18 22:00:00		6.65	0.00	0.00	6.87	2.1	329.7		2.19	0.00	0.00	2.26		10.35	18.92	83.84	86.68	19-Mar-18 21:00:00		12.54	18.92	83.84	88.94
19-Mar-18 22:00:00	19-Mar-18 23:00:00		6.33	0.00	0.00	7.07	2.1	329.7		2.09	0.00	0.00	2.33		10.35	18.92	83.84	86.68	19-Mar-18 22:00:00		12.44	18.92	83.84	89.01
19-Mar-18 23:00:00	20-Mar-18 00:00:00		6.00	0.00	0.00	7.27	2.1	329.7		1.98	0.00	0.00	2.40		10.35	18.92	83.84	86.68	19-Mar-18 23:00:00		12.33	18.92	83.84	89.08
20-Mar-18 00:00:00	20-Mar-18 01:00:00		5.82	0.00	0.00	7.36	2.1	329.7		1.92	0.00	0.00	2.43		10.35	18.92	83.84	86.68	20-Mar-18 00:00:00		12.27	18.92	83.84	89.11
20-Mar-18 01:00:00	20-Mar-18 02:00:00		6.38	0.00	0.00	7.43	2.1	329.7		2.10	0.00	0.00	2.45		10.35	18.92	83.84	86.68	20-Mar-18 01:00:00		12.45	18.92	83.84	89.13
20-Mar-18 02:00:00	20-Mar-18 03:00:00		6.95	0.00	0.00	7.50	2.1	329.7		2.29	0.00	0.00	2.47		10.35	18.92	83.84	86.68	20-Mar-18 02:00:00		12.64	18.92	83.84	89.15
20-Mar-18 03:00:00	20-Mar-18 04:00:00		6.55	0.00	0.00	7.55	2.1	329.7		2.16	0.00	0.00	2.49		10.35	18.92	83.84	86.68	20-Mar-18 03:00:00		12.51	18.92	83.84	89.17
20-Mar-18 04:00:00	20-Mar-18 05:00:00		6.87	0.00	0.00	7.49	2.1	329.7		2.27	0.00	0.00	2.47		10.35	18.92	83.84	86.68	20-Mar-18 04:00:00		12.62	18.92	83.84	89.15
20-Mar-18 05:00:00	20-Mar-18 06:00:00		7.20	0.00	0.00	7.48	2.1	329.7		2.37	0.00	0.00	2.47		10.35	18.92	83.84	86.68	20-Mar-18 05:00:00		12.72	18.92	83.84	89.15
20-Mar-18 06:00:00	20-Mar-18 07:00:00		8.07	0.00	0.00	7.47	2.1	329.7		2.66	0.00	0.00	2.46		10.35	18.92	83.84	86.68	20-Mar-18 06:00:00		13.01	18.92	83.84	89.14
20-Mar-18 07:00:00	20-Mar-18 08:00:00		6.78	0.00	0.00	7.46	2.1	329.7		2.23	0.00	0.00	2.46		10.35	18.92	83.84	86.68	20-Mar-18 07:00:00		12.58	18.92	83.84	89.14
20-Mar-18 08:00:00	20-Mar-18 09:00:00		6.69	0.00	0.00	7.41	2.1	329.7		2.20	0.00	0.00	2.44		10.35	18.92	83.84	86.68	20-Mar-18 08:00:00		12.55	18.92	83.84	89.12
20-Mar-18 09:00:00	20-Mar-18 10:00:00		6.60	0.00	0.00	7.43	2.1	329.7		2.18	0.00	0.00	2.45		10.35	18.92	83.84	86.68	20-Mar-18 09:00:00		12.53	18.92	83.84	89.13
20-Mar-18 10:00:00	20-Mar-18 11:00:00		6.30	0.00	0.00	7.45	2.1	329.7		2.08	0.00	0.00	2.46		10.35	18.92	83.84	86.68	20-Mar-18 10:00:00		12.43	18.92	83.84	89.14
20-Mar-18 11:00:00	20-Mar-18 12:00:00		10.22	0.00	0.00	7.47	2.1	329.7		3.37	0.00	0.00	2.46		10.35	18.92	83.84	86.68	20-Mar-18 11:00:00		13.72	18.92	83.84	89.14
20-Mar-18 12:00:00	20-Mar-18 13:00:00		7.86	0.00	0.00	7.34	2.1	329.7		2.59	0.00	0.00	2.42		10.35	18.92	83.84	86.68	20-Mar-18 12:00:00		12.94	18.92	83.84	89.10
20-Mar-18 13:00:00	20-Mar-18 14:00:00		5.23	0.00	0.00	7.11	2.1	329.7		1.72	0.00	0.00	2.35		10.35	18.92	83.84	86.68	20-Mar-18 13:00:00		12.07	18.92	83.84	89.03
20-Mar-18 14:00:00	20-Mar-18 15:00:00		4.79	0.00	0.00	6.88	2.1	329.7		1.58	0.00	0.00	2.27		10.35	18.92	83.84	86.68	20-Mar-18 14:00:00		11.93	18.92	83.84	88.95
20-Mar-18 15:00:00	20-Mar-18 16:00:00		0.57	0.00	0.00	6.65	2.1	329.7		0.19	0.00	0.00	2.19		10.35	18.92	83.84	86.68	20-Mar-18 15:00:00		10.54	18.92	83.84	88.87
20-Mar-18 16:00:00	20-Mar-18 17:00:00		0.00	0.00	0.00	6.75	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	20-Mar-18 16:00:00		10.35	18.92	83.84	88.90
20-Mar-18 17:00:00	20-Mar-18 18:00:00		0.00	0.00	0.00	7.04	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	20-Mar-18 17:00:00		10.35	18.92	83.84	89.00
20-Mar-18 18:00:00	20-Mar-18 19:00:00		0.20	0.00	0.00	7.34	2.1	329.7		0.07	0.00	0.00	2.42		10.35	18.92	83.84	86.68	20-Mar-18 18:00:00		10.42	18.92	83.84	89.10
20-Mar-18 19:00:00	20-Mar-18 20:00:00		0.58	0.00	0.00	7.64	2.1	329.7		0.19	0.00	0.00	2.52		10.35	18.92	83.84	86.68	20-Mar-18 19:00:00		10.54	18.92	83.84	89.20
20-Mar-18 20:00:00	20-Mar-18 21:00:00		2.10	0.00	0.00	14.63	2.1	329.7		0.69	0.00	0.00	4.82		10.35	18.92	83.84	86.68	20-Mar-18 20:00:00		11.04	18.92	83.84	91.50
20-Mar-18 21:00:00	20-Mar-18 22:00:00		17.29	0.00	0.00	8.15	2.1	329.7		5.70	0.00	0.00	2.69		10.35	18.92	83.84	86.68	20-Mar-18 21:00:00		16.05	18.92	83.84	89.37
20-Mar-18 22:00:00	20-Mar-18 23:00:00		27.34	0.00	0.00	8.33	2.1	329.7		9.02	0.00	0.00	2.75		10.35	18.92	83.84	86.68	20-Mar-18 22:00:00		19.37	18.92	83.84	89.43
20-Mar-18 23:00:00	21-Mar-18 00:00:00		17.98	0.00	0.00	8.51	2.1	329.7		5.93	0.00	0.00	2.81		10.35	18.92	83.84	86.68	20-Mar-18 23:00:00		16.28	18.92	83.84	89.49
21-Mar-18 00:00:00	21-Mar-18 01:00:00		39.48	0.00	0.00	8.63	2.1	329.7		13.02	0.00	0.00	2.85		10.35	18.92	83.84	86.68	21-Mar-18 00:00:00		23.37	18.92	83.84	89.53
21-Mar-18 01:00:00	21-Mar-18 02:00:00		42.26	0.00	0.00	8.66	2.1	329.7		13.93	0.00	0.00	2.86		10.35	18.92	83.84	86.68	21-Mar-18 01:00:00		24.28	18.92	83.84	89.54
21-Mar-18 02:00:00	21-Mar-18 03:00:00		21.05	0.00	0.00	8.70	2.1	329.7		6.94	0.00	0.00	2.87		10.35	18.92	83.84	86.68	21-Mar-18 02:00:00		17.29	18.92	83.84	89.55
21-Mar-18 03:00:00	21-Mar-18 04:00:00		19.81	0.00	0.00	8.73	2.1	329.7		6.53	0.00	0.00	2.88		10.35	18.92	83.84	86.68	21-Mar-18 03:00:00		16.88	18.92	83.84	89.56
21-Mar-18 04:00:00	21-Mar-18 05:00:00		10.73	0.00	0.00	8.73	2.1	329.7		3.54	0.00	0.00	2.88		10.35	18.92	83.84	86.68	21-Mar-18 04:00:00		13.89	18.92	83.84	89.56
21-Mar-18 05:00:00	21-Mar-18 06:00:00		10.36	0.00	0.00	8.66	2.1	329.7		3.41	0.00	0.00	2.85		10.35	18.92	83.84	86.68	21-Mar-18 05:00:00		13.76	18.92	83.84	89.53
21-Mar-18 06:00:00	21-Mar-18 07:00:00		12.80	0.00	0.00	8.59	2.1	329.7		4.22	0.00	0.00	2.83		10.35	18.92	83.84	86.68	21-Mar-18 06:00:00		14.57	18.92	83.84	89.51
21-Mar-18 07:00:00	21-Mar-18 08:00:00		14.04	0.00	0.00	8.52	2.1	329.7		4.63	0.00	0.00	2.81		10.35	18.92	83.84	86.68	21-Mar-18 07:00:00		14.98	18.92	83.84	89.49
21-Mar-18 08:00:00	21-Mar-18 09:00:00		12.21	0.00	0.00	8.39	2.1	329.7		4.03	0.00	0.00	2.77		10.35	18.92	83.84	86.68	21-Mar-18 08:00:00		14.38	18.92	83.84	89.45
21-Mar-18 09:00:00	21-Mar-18 10:00:00		11.42	0.00	0.00	8.50	2.1	329.7		3.76	0.00	0.00	2.80		10.35	18.92	83.84	86.68	21-Mar-18 09:00:00		14.11	18.92	83.84	89.48
21-Mar-18 10:00:00	21-Mar-18 11:00:00		10.62	0.00	0.00	8.65	2.1	329.7		3.50	0.00	0.00	2.85		10.35	18.92	83.84	86.68	21-Mar-18 10:00:00		13.85	18.92	83.84	89.53
21-Mar-18 11:00:00	21-Mar-18 12:00:00		9.75	0.00	0.00	8.79	2.1	329.7		3.22	0.00	0.00	2.90		10.35	18.92	83.84	86.68	21-Mar-18 11:00:00		13.57	18.92	83.84	89.58
21-Mar-18 12:00:00	21-Mar-18 13:00:00		8.29	0.00	0.00	8.80	2.1	329.7		2.73	0.00	0.00	2.90		10.35	18.92	83.84	86.68	21-Mar-18 12:00:00		13.08	18.92	83.84	89.58
21-Mar-18 13:00:00	21-Mar-18 14:00:00		5.51	0.00	0.00	8.69	2.1	329.7		1.82	0.00	0.00	2.86		10.35	18.92	83.84	86.68	21-Mar-18 13:00:00		12.17	18.92	83.84	89.54
21-Mar-18 14:00:00	21-Mar-18 15:00:00		17.81	0.00	0.00	8.58	2.1	329.7		5.87	0.00	0.00	2.83		10.35	18.92	83.84	86.68	21-Mar-18 14:00:00		16.22	18.92	83.84	89.51
21-Mar-18 15:00:00	21-Mar-18 16:00:00		15.90	0.00	0.00	8.47	2.1	329.7		5.24	0.00	0.00	2.79		10.35	18.92	83.84	86.68	21-Mar-18 15:00:00		15.59	18.92	83.84	89.47
21-Mar-18 16:00:00	21-Mar-18 17:00:00		2.00	0.00	0.00	8.40	2.1	329.7		0.66	0.00	0.00	2.77		10.35	18.92	83.84	86.68	21-Mar-18 16:00:00		11.01	18.92	83.84	89.45
21-Mar-18 17:00:00	21-Mar-18 18:00:00		0.53	0.00	0.00	8.51	2.1	329.7		0.18	0.00	0.00	2.81		10.35	18.92	83.84	86.68	21-Mar-18 17:00:00		10.53	18.92	83.84	89.49
21-Mar-18 18:00:00	21-Mar-18 19:00:00		0.65	0.00	0.00	8.64	2.1	329.7		0.21	0.00	0.00	2.85		10.35	18.92	83.84	86.68	21-Mar-18 18:00:00		10.56	18.92	83.84	89.53
21-Mar-18 19:00:00	21-Mar-18 20:00:00		0.77	0.00	0.00	8.77	2.1	329.7		0.25	0.00	0.00	2.89		10.35	18.92	83.84	86.68	21-Mar-18 19:00:00		10.60	18.92	83.84	89.57
21-Mar-18 20:00:00	21-Mar-18 21:00:00		0.93	0.00	0.00	8.79	2.1	329.7		0.31	0.00	0.00	2.90		10.35	18.92	83.84	86.68	21-Mar-18 20:00:00		10.66	18.92	83.84	89.58
21-Mar-18 21:00:00	21-Mar-18 22:00:00		1.33	0.00	0.00	8.74	2.1	329.7		0.44	0.00	0.00	2.88		10.35	18.92	83.84	86.68	21-Mar-18 21:00:00		10.79	18.92	83.84	89.56
21-Mar-18 22:00:00	21-Mar-18 23:00:00		6.00	0.00	0.00	8.71	2.1	329.7		1.98	0.00	0.00	2.87		10.35	18.92	83.84	86.68	21-Mar-18 22:00:00		12.33	18.92	83.84	89.55
21-Mar-18 23:00:00	22-Mar-18 00:00:00		10.50	0.00	0.00	8.68	2.1	329.7		3.46	0.00	0.00	2.86		10.35	18.92	83.84	86.68	21-Mar-18 23:00:00		13.81	18.92	83.84	89.54
22-Mar-18 00:00:00	22-Mar-18 01:00:00		5.86	0.00	0.00	8.80	2.1	329.7		1.93	0.00	0.00	2.90		10.35	18.92	83.84	86.68	22-Mar-18 00:00:00		12.28	18.92	83.84	89.58
22-Mar-18 01:00:00	22-Mar-18 02:00:00		23.59	0.00	0.00	9.05	2.1	329.7		7.78	0.00	0.00	2.98		10.35	18.92	83.84	86.68	22-Mar-18 01:00:00		18.13	18.92	83.84	89.66
22-Mar-18 02:00:00	22-Mar-18 03:00:00		40.35	0.00	0.00	9.29	2.1	329.7		13.30	0.00	0.00	3.06		10.35	18.92	83.84	86.68	22-Mar-18 02:00:00		23.65	18.92	83.84	89.74
22-Mar-18 03:00:00	22-Mar-18 04:00:00		9.69	0.00	0.00	9.53	2.1	329.7		3.20	0.00	0.00	3.14		10.35	18.92	83.84	86.68	22-Mar-18 03:00:00		13.55	18.92	83.84	89.82
22-Mar-18 04:00:00	22-Mar-18 05:00:00		15.67	0.00	0.00	9.59	2.1	329.7		5.17	0.00	0.00	3.16		10.35	18.92	83.84	86.68	22-Mar-18 04:00:00		15.52	18.92	83.84	89.84
22-Mar-18 05:00:00	22-Mar-18 06:00:00		17.13	0.00	0.00	9.58	2.1	329.7		5.65	0.00	0.00	3.16		10.35	18.92	83.84	86.68	22-Mar-18 05:00:00		16.00	18.92	83.84	89.84
22-Mar-18 06:00:00	22-Mar-18 07:00:00		18.42	0.00	0.00	9.62	2.1	329.7		6.07	0.00	0.00	3.17		10.35	18.92	83.84	86.68	22-Mar-18 06:00:00		16.42	18.92	83.84	89.85
22-Mar-18 07:00:00	22-Mar-18 08:00:00		13.41	0.00	0.00	9.65	2.1	329.7		4.42	0.00	0.00	3.18		10.35	18.92	83.84	86.68	22-Mar-18 07:00:00		14.77	18.92	83.84	89.86
22-Mar-18 08:00:00	22-Mar-18 09:00:00		0.28	0.00	0.00	9.65	2.1	329.7		0.09	0.00	0.00	3.18		10.35	18.92	83.84	86.68	22-Mar-18 08:00:00		10.44	18.92	83.84	89.86
22-Mar-18 09:00:00	22-Mar-18 10:00:00		2.05	0.00	0.00	9.21	2.1	329.7		0.67	0.00	0.00	3.04		10.35	18.92	83.84	86.68	22-Mar-18 09:00:00		11.02	18.92	83.84	89.72
22-Mar-18 10:00:00	22-Mar-18 11:00:00		12.16	0.00	0.00	8.71	2.1	329.7		4.01	0.00	0.00	2.87		10.35	18.92	83.84	86.68	22-Mar-18 10:00:00		14.36	18.92	83.84	89.55
22-Mar-18 11:00:00	22-Mar-18 12:00:00		31.21	0.00	0.00	8.21	2.1	329.7		10.29	0.00	0.00	2.71		10.35	18.92	83.84	86.68	22-Mar-18 11:00:00		20.64	18.92	83.84	89.39
22-Mar-18 12:00:00	22-Mar-18 13:00:00		9.86	0.00	0.00	7.94	2.1	329.7		3.25	0.00	0.00	2.62		10.35	18.92	83.84	86.68	22-Mar-18 12:00:00		13.60	18.92	83.84	89.30
22-Mar-18 13:00:00	22-Mar-18 14:00:00		18.81	0.00	0.00	7.75	2.1	329.7		6.20	0.00	0.00	2.55		10.35	18.92	83.84	86.68	22-Mar-18 13:00:00		16.55	18.92	83.84	89.23
22-Mar-18 14:00:00	22-Mar-18 15:00:00		30.03	0.00	0.00	7.50	2.1	329.7		9.90	0.00	0.00	2.47		10.35	18.92	83.84	86.68	22-Mar-18 14:00:00		20.25	18.92	83.84	89.15
22-Mar-18 15:00:00	22-Mar-18 16:00:00		32.53	0.00	0.00	7.26	2.1	329.7		10.73	0.00	0.00	2.39		10.35	18.92	83.84	86.68	22-Mar-18 15:00:00		21.08	18.92	83.84	89.07
22-Mar-18 16:00:00	22-Mar-18 17:00:00		46.26	0.00	0.00	7.16	2.1	329.7		15.25	0.00	0.00	2.36		10.35	18.92	83.84	86.68	22-Mar-18 16:00:00		25.60	18.92	83.84	89.04
22-Mar-18 17:00:00	22-Mar-18 18:00:00		54.83	0.00	0.00	7.15	2.1	329.7		18.08	0.00	0.00	2.36		10.35	18.92	83.84	86.68	22-Mar-18 17:00:00		28.43	18.92	83.84	89.04
22-Mar-18 18:00:00	22-Mar-18 19:00:00		27.37	0.00	0.00	7.11	2.1	329.7		9.02	0.00	0.00	2.34		10.35	18.92	83.84	86.68	22-Mar-18 18:00:00		19.37	18.92	83.84	89.02
22-Mar-18 19:00:00	22-Mar-18 20:00:00		1.04	0.00	0.00	7.07	2.1	329.7		0.34	0.00	0.00	2.33		10.35	18.92	83.84	86.68	22-Mar-18 19:00:00		10.69	18.92	83.84	89.01
22-Mar-18 20:00:00	22-Mar-18 21:00:00		6.25	0.00	0.00	7.09	2.1	329.7		2.06	0.00	0.00	2.34		10.35	18.92	83.84	86.68	22-Mar-18 20:00:00		12.41	18.92	83.84	89.02
22-Mar-18 21:00:00	22-Mar-18 22:00:00		18.99	0.00	0.00	7.32	2.1	329.7		6.26	0.00	0.00	2.41		10.35	18.92	83.84	86.68	22-Mar-18 21:00:00		16.61	18.92	83.84	89.09
22-Mar-18 22:00:00	22-Mar-18 23:00:00		5.34	0.00	0.00	7.58	2.1	329.7		1.76	0.00	0.00	2.50		10.35	18.92	83.84	86.68	22-Mar-18 22:00:00		12.11	18.92	83.84	89.18
22-Mar-18 23:00:00	23-Mar-18 00:00:00		1.09	0.00	0.00	7.83	2.1	329.7		0.36	0.00	0.00	2.58		10.35	18.92	83.84	86.68	22-Mar-18 23:00:00		10.71	18.92	83.84	89.26
23-Mar-18 00:00:00	23-Mar-18 01:00:00		1.29	0.00	0.00	8.10	2.1	329.7		0.42	0.00	0.00	2.67		10.35	18.92	83.84	86.68	23-Mar-18 00:00:00		10.77	18.92	83.84	89.35
23-Mar-18 01:00:00	23-Mar-18 02:00:00		6.89	0.00	0.00	8.14	2.1	329.7		2.27	0.00	0.00	2.68		10.35	18.92	83.84	86.68	23-Mar-18 01:00:00		12.62	18.92	83.84	89.36
23-Mar-18 02:00:00	23-Mar-18 03:00:00		10.59	0.00	0.00	8.13	2.1	329.7		3.49	0.00	0.00	2.68		10.35	18.92	83.84	86.68	23-Mar-18 02:00:00		13.84	18.92	83.84	89.36
23-Mar-18 03:00:00	23-Mar-18 04:00:00		9.40	0.00	0.00	8.13	2.1	329.7		3.10	0.00	0.00	2.68		10.35	18.92	83.84	86.68	23-Mar-18 03:00:00		13.45	18.92	83.84	89.36
23-Mar-18 04:00:00	23-Mar-18 05:00:00		25.82	0.00	0.00	8.15	2.1	329.7		8.51	0.00	0.00	2.69		10.35	18.92	83.84	86.68	23-Mar-18 04:00:00		18.86	18.92	83.84	89.37
23-Mar-18 05:00:00	23-Mar-18 06:00:00		31.44	0.00	0.00	8.26	2.1	329.7		10.36	0.00	0.00	2.72		10.35	18.92	83.84	86.68	23-Mar-18 05:00:00		20.71	18.92	83.84	89.40
23-Mar-18 06:00:00	23-Mar-18 07:00:00		23.99	0.00	0.00	8.38	2.1	329.7		7.91	0.00	0.00	2.76		10.35	18.92	83.84	86.68	23-Mar-18 06:00:00		18.26	18.92	83.84	89.44
23-Mar-18 07:00:00	23-Mar-18 08:00:00		13.82	0.00	0.00	8.51	2.1	329.7		4.56	0.00	0.00	2.80		10.35	18.92	83.84	86.68	23-Mar-18 07:00:00		14.91	18.92	83.84	89.48
23-Mar-18 08:00:00	23-Mar-18 09:00:00		1.78	0.00	0.00	8.61	2.1	329.7		0.59	0.00	0.00	2.84		10.35	18.92	83.84	86.68	23-Mar-18 08:00:00		10.94	18.92	83.84	89.52
23-Mar-18 09:00:00	23-Mar-18 10:00:00		0.17	0.00	0.00	8.38

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
25-Mar-18 11:00:00	25-Mar-18 12:00:00		0.00	0.00	0.00	8.15	2.1	329.7		0.00	0.00	0.00	2.69		10.35	18.92	83.84	86.68	25-Mar-18 11:00:00		10.35	18.92	83.84	89.37
25-Mar-18 12:00:00	25-Mar-18 13:00:00		0.00	0.00	0.00	8.08	2.1	329.7		0.00	0.00	0.00	2.67		10.35	18.92	83.84	86.68	25-Mar-18 12:00:00		10.35	18.92	83.84	89.35
25-Mar-18 13:00:00	25-Mar-18 14:00:00		0.00	0.00	0.00	7.92	2.1	329.7		0.00	0.00	0.00	2.61		10.35	18.92	83.84	86.68	25-Mar-18 13:00:00		10.35	18.92	83.84	89.29
25-Mar-18 14:00:00	25-Mar-18 15:00:00		0.00	0.00	0.00	7.77	2.1	329.7		0.00	0.00	0.00	2.56		10.35	18.92	83.84	86.68	25-Mar-18 14:00:00		10.35	18.92	83.84	89.24
25-Mar-18 15:00:00	25-Mar-18 16:00:00		8.59	0.00	0.00	7.62	2.1	329.7		2.83	0.00	0.00	2.51		10.35	18.92	83.84	86.68	25-Mar-18 15:00:00		13.18	18.92	83.84	89.19
25-Mar-18 16:00:00	25-Mar-18 17:00:00		14.42	0.00	0.00	7.51	2.1	329.7		4.75	0.00	0.00	2.48		10.35	18.92	83.84	86.68	25-Mar-18 16:00:00		15.10	18.92	83.84	89.16
25-Mar-18 17:00:00	25-Mar-18 18:00:00		12.16	0.00	0.00	7.60	2.1	329.7		4.01	0.00	0.00	2.51		10.35	18.92	83.84	86.68	25-Mar-18 17:00:00		14.36	18.92	83.84	89.19
25-Mar-18 18:00:00	25-Mar-18 19:00:00		2.53	0.00	0.00	7.72	2.1	329.7		0.84	0.00	0.00	2.54		10.35	18.92	83.84	86.68	25-Mar-18 18:00:00		11.19	18.92	83.84	89.22
25-Mar-18 19:00:00	25-Mar-18 20:00:00		2.45	0.00	0.00	6.99	2.1	329.7		0.81	0.00	0.00	2.30		10.35	18.92	83.84	86.68	25-Mar-18 19:00:00		11.16	18.92	83.84	88.98
25-Mar-18 20:00:00	25-Mar-18 21:00:00		4.39	0.00	0.00	6.93	2.1	329.7		1.45	0.00	0.00	2.28		10.35	18.92	83.84	86.68	25-Mar-18 20:00:00		11.80	18.92	83.84	88.96
25-Mar-18 21:00:00	25-Mar-18 22:00:00		4.05	0.00	0.00	7.14	2.1	329.7		1.34	0.00	0.00	2.35		10.35	18.92	83.84	86.68	25-Mar-18 21:00:00		11.69	18.92	83.84	89.03
25-Mar-18 22:00:00	25-Mar-18 23:00:00		3.28	0.00	0.00	7.35	2.1	329.7		1.08	0.00	0.00	2.42		10.35	18.92	83.84	86.68	25-Mar-18 22:00:00		11.43	18.92	83.84	89.10
25-Mar-18 23:00:00	26-Mar-18 00:00:00		2.51	0.00	0.00	7.55	2.1	329.7		0.83	0.00	0.00	2.49		10.35	18.92	83.84	86.68	25-Mar-18 23:00:00		11.18	18.92	83.84	89.17
26-Mar-18 00:00:00	26-Mar-18 01:00:00		1.49	0.00	0.00	7.75	2.1	329.7		0.49	0.00	0.00	2.55		10.35	18.92	83.84	86.68	26-Mar-18 00:00:00		10.84	18.92	83.84	89.23
26-Mar-18 01:00:00	26-Mar-18 02:00:00		0.90	0.00	0.00	7.95	2.1	329.7		0.30	0.00	0.00	2.62		10.35	18.92	83.84	86.68	26-Mar-18 01:00:00		10.65	18.92	83.84	89.30
26-Mar-18 02:00:00	26-Mar-18 03:00:00		0.35	0.00	0.00	8.14	2.1	329.7		0.11	0.00	0.00	2.69		10.35	18.92	83.84	86.68	26-Mar-18 02:00:00		10.46	18.92	83.84	89.37
26-Mar-18 03:00:00	26-Mar-18 04:00:00		12.34	0.00	0.00	8.47	2.1	329.7		4.07	0.00	0.00	2.79		10.35	18.92	83.84	86.68	26-Mar-18 03:00:00		14.42	18.92	83.84	89.47
26-Mar-18 04:00:00	26-Mar-18 05:00:00		6.92	0.00	0.00	8.54	2.1	329.7		2.28	0.00	0.00	2.82		10.35	18.92	83.84	86.68	26-Mar-18 04:00:00		12.63	18.92	83.84	89.50
26-Mar-18 05:00:00	26-Mar-18 06:00:00		5.06	0.00	0.00	8.57	2.1	329.7		1.67	0.00	0.00	2.83		10.35	18.92	83.84	86.68	26-Mar-18 05:00:00		12.02	18.92	83.84	89.51
26-Mar-18 06:00:00	26-Mar-18 07:00:00		15.65	0.00	0.00	8.61	2.1	329.7		5.16	0.00	0.00	2.84		10.35	18.92	83.84	86.68	26-Mar-18 06:00:00		15.51	18.92	83.84	89.52
26-Mar-18 07:00:00	26-Mar-18 08:00:00		21.04	0.00	0.00	8.51	2.1	329.7		6.94	0.00	0.00	2.80		10.35	18.92	83.84	86.68	26-Mar-18 07:00:00		17.29	18.92	83.84	89.48
26-Mar-18 08:00:00	26-Mar-18 09:00:00		25.17	0.00	0.00	8.39	2.1	329.7		8.30	0.00	0.00	2.77		10.35	18.92	83.84	86.68	26-Mar-18 08:00:00		18.65	18.92	83.84	89.45
26-Mar-18 09:00:00	26-Mar-18 10:00:00		29.63	0.00	0.00	8.29	2.1	329.7		9.77	0.00	0.00	2.73		10.35	18.92	83.84	86.68	26-Mar-18 09:00:00		20.12	18.92	83.84	89.41
26-Mar-18 10:00:00	26-Mar-18 11:00:00		32.50	0.00	0.00	8.19	2.1	329.7		10.72	0.00	0.00	2.70		10.35	18.92	83.84	86.68	26-Mar-18 10:00:00		21.07	18.92	83.84	89.38
26-Mar-18 11:00:00	26-Mar-18 12:00:00		33.63	0.00	0.00	7.99	2.1	329.7		11.09	0.00	0.00	2.63		10.35	18.92	83.84	86.68	26-Mar-18 11:00:00		21.44	18.92	83.84	89.31
26-Mar-18 12:00:00	26-Mar-18 13:00:00		31.95	0.00	0.00	7.79	2.1	329.7		10.53	0.00	0.00	2.57		10.35	18.92	83.84	86.68	26-Mar-18 12:00:00		20.88	18.92	83.84	89.25
26-Mar-18 13:00:00	26-Mar-18 14:00:00		5.19	0.00	0.00	7.61	2.1	329.7		1.71	0.00	0.00	2.51		10.35	18.92	83.84	86.68	26-Mar-18 13:00:00		12.06	18.92	83.84	89.19
26-Mar-18 14:00:00	26-Mar-18 15:00:00		4.17	0.00	0.00	7.43	2.1	329.7		1.38	0.00	0.00	2.45		10.35	18.92	83.84	86.68	26-Mar-18 14:00:00		11.73	18.92	83.84	89.13
26-Mar-18 15:00:00	26-Mar-18 16:00:00		4.67	0.00	0.00	7.45	2.1	329.7		1.54	0.00	0.00	2.46		10.35	18.92	83.84	86.68	26-Mar-18 15:00:00		11.89	18.92	83.84	89.14
26-Mar-18 16:00:00	26-Mar-18 17:00:00		4.97	0.00	0.00	7.46	2.1	329.7		1.64	0.00	0.00	2.46		10.35	18.92	83.84	86.68	26-Mar-18 16:00:00		11.99	18.92	83.84	89.14
26-Mar-18 17:00:00	26-Mar-18 18:00:00		4.20	0.00	0.00	7.45	2.1	329.7		1.38	0.00	0.00	2.46		10.35	18.92	83.84	86.68	26-Mar-18 17:00:00		11.73	18.92	83.84	89.14
26-Mar-18 18:00:00	26-Mar-18 19:00:00		18.22	0.00	0.00	7.43	2.1	329.7		6.01	0.00	0.00	2.45		10.35	18.92	83.84	86.68	26-Mar-18 18:00:00		16.36	18.92	83.84	89.13
26-Mar-18 19:00:00	26-Mar-18 20:00:00		19.07	0.00	0.00	7.19	2.1	329.7		6.29	0.00	0.00	2.37		10.35	18.92	83.84	86.68	26-Mar-18 19:00:00		16.64	18.92	83.84	89.05
26-Mar-18 20:00:00	26-Mar-18 21:00:00		18.81	0.00	0.00	7.27	2.1	329.7		6.20	0.00	0.00	2.40		10.35	18.92	83.84	86.68	26-Mar-18 20:00:00		16.55	18.92	83.84	89.08
26-Mar-18 21:00:00	26-Mar-18 22:00:00		18.74	0.00	0.00	7.43	2.1	329.7		6.18	0.00	0.00	2.45		10.35	18.92	83.84	86.68	26-Mar-18 21:00:00		16.53	18.92	83.84	89.13
26-Mar-18 22:00:00	26-Mar-18 23:00:00		19.19	0.00	0.00	7.59	2.1	329.7		6.33	0.00	0.00	2.50		10.35	18.92	83.84	86.68	26-Mar-18 22:00:00		16.68	18.92	83.84	89.18
26-Mar-18 23:00:00	27-Mar-18 00:00:00		19.47	0.00	0.00	7.76	2.1	329.7		6.42	0.00	0.00	2.56		10.35	18.92	83.84	86.68	26-Mar-18 23:00:00		16.77	18.92	83.84	89.24
27-Mar-18 00:00:00	27-Mar-18 01:00:00		19.75	0.00	0.00	7.76	2.1	329.7		6.51	0.00	0.00	2.56		10.35	18.92	83.84	86.68	27-Mar-18 00:00:00		16.86	18.92	83.84	89.24
27-Mar-18 01:00:00	27-Mar-18 02:00:00		19.81	0.00	0.00	7.73	2.1	329.7		6.53	0.00	0.00	2.55		10.35	18.92	83.84	86.68	27-Mar-18 01:00:00		16.88	18.92	83.84	89.23
27-Mar-18 02:00:00	27-Mar-18 03:00:00		19.21	0.00	0.00	7.69	2.1	329.7		6.33	0.00	0.00	2.54		10.35	18.92	83.84	86.68	27-Mar-18 02:00:00		16.68	18.92	83.84	89.22
27-Mar-18 03:00:00	27-Mar-18 04:00:00		18.57	0.00	0.00	7.76	2.1	329.7		6.12	0.00	0.00	2.56		10.35	18.92	83.84	86.68	27-Mar-18 03:00:00		16.47	18.92	83.84	89.24
27-Mar-18 04:00:00	27-Mar-18 05:00:00		17.64	0.00	0.00	7.87	2.1	329.7		5.82	0.00	0.00	2.60		10.35	18.92	83.84	86.68	27-Mar-18 04:00:00		16.17	18.92	83.84	89.28
27-Mar-18 05:00:00	27-Mar-18 06:00:00		3.69	0.00	0.00	7.97	2.1	329.7		1.22	0.00	0.00	2.63		10.35	18.92	83.84	86.68	27-Mar-18 05:00:00		11.57	18.92	83.84	89.31
27-Mar-18 06:00:00	27-Mar-18 07:00:00		3.32	0.00	0.00	8.08	2.1	329.7		1.09	0.00	0.00	2.66		10.35	18.92	83.84	86.68	27-Mar-18 06:00:00		11.44	18.92	83.84	89.34
27-Mar-18 07:00:00	27-Mar-18 08:00:00		1.59	0.00	0.00	8.09	2.1	329.7		0.52	0.00	0.00	2.67		10.35	18.92	83.84	86.68	27-Mar-18 07:00:00		10.87	18.92	83.84	89.35
27-Mar-18 08:00:00	27-Mar-18 09:00:00		3.21	0.00	0.00	8.02	2.1	329.7		1.06	0.00	0.00	2.65		10.35	18.92	83.84	86.68	27-Mar-18 08:00:00		11.41	18.92	83.84	89.33
27-Mar-18 09:00:00	27-Mar-18 10:00:00		0.00	0.00	0.00	7.96	2.1	329.7		0.00	0.00	0.00	2.62		10.35	18.92	83.84	86.68	27-Mar-18 09:00:00		10.35	18.92	83.84	89.30
27-Mar-18 10:00:00	27-Mar-18 11:00:00		0.00	0.00	0.00	7.89	2.1	329.7		0.00	0.00	0.00	2.60		10.35	18.92	83.84	86.68	27-Mar-18 10:00:00		10.35	18.92	83.84	89.28
27-Mar-18 11:00:00	27-Mar-18 12:00:00		0.00	0.00	0.00	7.68	2.1	329.7		0.00	0.00	0.00	2.53		10.35	18.92	83.84	86.68	27-Mar-18 11:00:00		10.35	18.92	83.84	89.21
27-Mar-18 12:00:00	27-Mar-18 13:00:00		0.00	0.00	0.00	7.64	2.1	329.7		0.00	0.00	0.00	2.52		10.35	18.92	83.84	86.68	27-Mar-18 12:00:00		10.35	18.92	83.84	89.20
27-Mar-18 13:00:00	27-Mar-18 14:00:00		0.00	0.00	0.00	7.65	2.1	329.7		0.00	0.00	0.00	2.52		10.35	18.92	83.84	86.68	27-Mar-18 13:00:00		10.35	18.92	83.84	89.20
27-Mar-18 14:00:00	27-Mar-18 15:00:00		0.00	0.00	0.00	7.66	2.1	329.7		0.00	0.00	0.00	2.53		10.35	18.92	83.84	86.68	27-Mar-18 14:00:00		10.35	18.92	83.84	89.21
27-Mar-18 15:00:00	27-Mar-18 16:00:00		0.00	0.00	0.00	7.62	2.1	329.7		0.00	0.00	0.00	2.51		10.35	18.92	83.84	86.68	27-Mar-18 15:00:00		10.35	18.92	83.84	89.19
27-Mar-18 16:00:00	27-Mar-18 17:00:00		0.00	0.00	0.00	7.58	2.1	329.7		0.00	0.00	0.00	2.50		10.35	18.92	83.84	86.68	27-Mar-18 16:00:00		10.35	18.92	83.84	89.18
27-Mar-18 17:00:00	27-Mar-18 18:00:00		0.00	0.00	0.00	7.55	2.1	329.7		0.00	0.00	0.00	2.49		10.35	18.92	83.84	86.68	27-Mar-18 17:00:00		10.35	18.92	83.84	89.17
27-Mar-18 18:00:00	27-Mar-18 19:00:00		0.00	0.00	0.00	7.52	2.1	329.7		0.00	0.00	0.00	2.48		10.35	18.92	83.84	86.68	27-Mar-18 18:00:00		10.35	18.92	83.84	89.16
27-Mar-18 19:00:00	27-Mar-18 20:00:00		0.00	0.00	0.00	7.49	2.1	329.7		0.00	0.00	0.00	2.47		10.35	18.92	83.84	86.68	27-Mar-18 19:00:00		10.35	18.92	83.84	89.15
27-Mar-18 20:00:00	27-Mar-18 21:00:00		0.00	0.00	0.00	7.50	2.1	329.7		0.00	0.00	0.00	2.47		10.35	18.92	83.84	86.68	27-Mar-18 20:00:00		10.35	18.92	83.84	89.15
27-Mar-18 21:00:00	27-Mar-18 22:00:00		0.00	0.00	0.00	7.52	2.1	329.7		0.00	0.00	0.00	2.48		10.35	18.92	83.84	86.68	27-Mar-18 21:00:00		10.35	18.92	83.84	89.16
27-Mar-18 22:00:00	27-Mar-18 23:00:00		0.00	0.00	0.00	7.54	2.1	329.7		0.00	0.00	0.00	2.49		10.35	18.92	83.84	86.68	27-Mar-18 22:00:00		10.35	18.92	83.84	89.17
27-Mar-18 23:00:00	28-Mar-18 00:00:00		0.00	0.00	0.00	7.54	2.1	329.7		0.00	0.00	0.00	2.49		10.35	18.92	83.84	86.68	27-Mar-18 23:00:00		10.35	18.92	83.84	89.17
28-Mar-18 00:00:00	28-Mar-18 01:00:00		0.00	0.00	0.00	7.54	2.1	329.7		0.00	0.00	0.00	2.49		10.35	18.92	83.84	86.68	28-Mar-18 00:00:00		10.35	18.92	83.84	89.17
28-Mar-18 01:00:00	28-Mar-18 02:00:00		0.00	0.00	0.00	7.56	2.1	329.7		0.00	0.00	0.00	2.49		10.35	18.92	83.84	86.68	28-Mar-18 01:00:00		10.35	18.92	83.84	89.17
28-Mar-18 02:00:00	28-Mar-18 03:00:00		0.00	0.00	0.00	7.57	2.1	329.7		0.00	0.00	0.00	2.50		10.35	18.92	83.84	86.68	28-Mar-18 02:00:00		10.35	18.92	83.84	89.18
28-Mar-18 03:00:00	28-Mar-18 04:00:00		0.00	0.00	0.00	7.56	2.1	329.7		0.00	0.00	0.00	2.49		10.35	18.92	83.84	86.68	28-Mar-18 03:00:00		10.35	18.92	83.84	89.17
28-Mar-18 04:00:00	28-Mar-18 05:00:00		0.00	0.00	0.00	7.57	2.1	329.7		0.00	0.00	0.00	2.49		10.35	18.92	83.84	86.68	28-Mar-18 04:00:00		10.35	18.92	83.84	89.17
28-Mar-18 05:00:00	28-Mar-18 06:00:00		0.00	0.00	0.00	7.58	2.1	329.7		0.00	0.00	0.00	2.50		10.35	18.92	83.84	86.68	28-Mar-18 05:00:00		10.35	18.92	83.84	89.18
28-Mar-18 06:00:00	28-Mar-18 07:00:00		0.00	0.00	0.00	7.60	2.1	329.7		0.00	0.00	0.00	2.50		10.35	18.92	83.84	86.68	28-Mar-18 06:00:00		10.35	18.92	83.84	89.18
28-Mar-18 07:00:00	28-Mar-18 08:00:00		0.00	0.00	0.00	7.63	2.1	329.7		0.00	0.00	0.00	2.52		10.35	18.92	83.84	86.68	28-Mar-18 07:00:00		10.35	18.92	83.84	89.20
28-Mar-18 08:00:00	28-Mar-18 09:00:00		0.00	0.00	0.00	7.53	2.1	329.7		0.00	0.00	0.00	2.48		10.35	18.92	83.84	86.68	28-Mar-18 08:00:00		10.35	18.92	83.84	89.16
28-Mar-18 09:00:00	28-Mar-18 10:00:00		0.00	0.00	0.00	7.40	2.1	329.7		0.00	0.00	0.00	2.44		10.35	18.92	83.84	86.68	28-Mar-18 09:00:00		10.35	18.92	83.84	89.12
28-Mar-18 10:00:00	28-Mar-18 11:00:00		0.91	0.00	0.00	7.26	2.1	329.7		0.30	0.00	0.00	2.39		10.35	18.92	83.84	86.68	28-Mar-18 10:00:00		10.65	18.92	83.84	89.07
28-Mar-18 11:00:00	28-Mar-18 12:00:00		11.04	0.00	0.00	7.14	2.1	329.7		3.64	0.00	0.00	2.35		10.35	18.92	83.84	86.68	28-Mar-18 11:00:00		13.99	18.92	83.84	89.03
28-Mar-18 12:00:00	28-Mar-18 13:00:00		14.40	0.00	0.00	6.96	2.1	329.7		4.75	0.00	0.00	2.29		10.35	18.92	83.84	86.68	28-Mar-18 12:00:00		15.10	18.92	83.84	88.97
28-Mar-18 13:00:00	28-Mar-18 14:00:00		7.22	0.00	0.00	6.76	2.1	329.7		2.38	0.00	0.00	2.23		10.35	18.92	83.84	86.68	28-Mar-18 13:00:00		12.73	18.92	83.84	88.91
28-Mar-18 14:00:00	28-Mar-18 15:00:00		0.31	0.00	0.00	6.56	2.1	329.7		0.10	0.00	0.00	2.16		10.35	18.92	83.84	86.68	28-Mar-18 14:00:00		10.45	18.92	83.84	88.84
28-Mar-18 15:00:00	28-Mar-18 16:00:00		0.32	0.00	0.00	6.25	2.1	329.7		0.10	0.00	0.00	2.06		10.35	18.92	83.84	86.68	28-Mar-18 15:00:00		10.45	18.92	83.84	88.74
28-Mar-18 16:00:00	28-Mar-18 17:00:00		0.72	0.00	0.00	6.07	2.1	329.7		0.24	0.00	0.00	2.00		10.35	18.92	83.84	86.68	28-Mar-18 16:00:00		10.59	18.92	83.84	88.68
28-Mar-18 17:00:00	28-Mar-18 18:00:00		0.00	0.00	0.00	5.97	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	28-Mar-18 17:00:00		10.35	18.92	83.84	88.65
28-Mar-18 18:00:00	28-Mar-18 19:00:00		0.00	0.00	0.00	5.86	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	28-Mar-18 18:00:00		10.35	18.92	83.84	88.61
28-Mar-18 19:00:00	28-Mar-18 20:00:00		0.07	0.00	0.00	5.87	2.1	329.7		0.02	0.00	0.00	1.93		10.35	18.92	83.84	86.68	28-Mar-18 19:00:00		10.37	18.92	83.84	88.61
28-Mar-18 20:00:00	28-Mar-18 21:00:00		0.00	0.00	0.00	6.02	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	28-Mar-18 20:00:00		10.35	18.92	83.84	88.67
28-Mar-18 21:00:00	28-Mar-18 22:00:00		0.07	0.00	0.00	6.16	2.1	329.7		0.02	0.00	0.00	2.03		10.35	18.92	83.84	86.68	28-Mar-18 21:00:00		10.37	18.92	83.84	88.71
28-Mar-18 22:00:00	28-Mar-18 23:00:00		0.00	0.00	0.00	6.30	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	28-Mar-18 22:00:00		10.35	18.92	83.84	88.76
28-Mar-18 23:00:00	29-Mar-18 00:00:00		5.35	0.00	0.00	6.38	2.1	329.7		1.76	0.00	0.00	2.10		10.35	18.92	83.84	86.68	28-Mar-18 23:00:00		12.11	18.92	83.84	88.78
29-Mar-18 00:00:00	29-Mar-18 01:00:00		0.00	0.00	0.00	6.46	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	29-Mar-18 00:00:00		10.35	18.92	83.84	88.81
29-Mar-18 01:00:00	29-Mar-18 02:00:00		1.35	0.00	0.00	6.57	2.1	329.7		0.45	0.00	0.00	2.17		10.35	18.92	83.84	86.68	29-Mar-18 01:00:00		10.80	18.92	83.84	88.85
29-Mar-18 02:00:00	29-Mar-18 03:00:00		0.00	0.00	0.00	6.68	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	29-Mar-18 02:00:00		10.35	18.92	83.84	88.88
29-Mar-18 03:00:00	29-Mar-18 04:00:00		0.00	0.00	0.00	6.78	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	29-Mar-18 03:00:00		10.35	18.92	83.84	88.92
29-Mar-18 04:00:00	29-Mar-18 05:00:00		0.00	0.00	0.00	6.83	2.1	329.7		0.00	0.00	0.00	2.25		10.35	18.92	83.84	86.68	29-Mar-18 04:00:00		10.35	18.92	83.84	88.93
29-Mar-18 05:00:00	29-Mar-18 06:00:00		1.30	0.00	0.00	6.88	2.1	329.7		0.43	0.00	0.00	2.27		10.35	18.92	83.84	86.68	29-Mar-18 05:00:00		10.78	18.92	83.84	88.95
29-Mar-18 06:00:00	29-Mar-18 07:00:00		11.37	0.00	0.00	6.92	2.1	329.7		3.75	0.00	0.00	2.28		10.35	18.92	83.84	86.68	29-Mar-18 06:00:00		14.10	18.92	83.84	88.96
29-Mar-18 07:00:00	29-Mar-18 08:00:00		6.00	0.00	0.00	6.94	2.1	329.7		1.98	0.00	0.00	2.29		10.35	18.92	83.84	86.68	29-Mar-18 07:00:00		12.33	18.92	83.84	88.97
29-Mar-18 08:00:00	29-Mar-18 09:00:00		22.09	0.00	0.00	6.82

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
31-Mar-18 10:00:00	31-Mar-18 11:00:00		11.32	0.00	0.00	7.76	2.1	329.7		3.73	0.00	0.00	2.56		10.35	18.92	83.84	86.68	31-Mar-18 10:00:00		14.08	18.92	83.84	89.24
31-Mar-18 11:00:00	31-Mar-18 12:00:00		5.23	0.00	0.00	7.55	2.1	329.7		1.72	0.00	0.00	2.49		10.35	18.92	83.84	86.68	31-Mar-18 11:00:00		12.07	18.92	83.84	89.17
31-Mar-18 12:00:00	31-Mar-18 13:00:00		3.18	0.00	0.00	7.33	2.1	329.7		1.05	0.00	0.00	2.42		10.35	18.92	83.84	86.68	31-Mar-18 12:00:00		11.40	18.92	83.84	89.10
31-Mar-18 13:00:00	31-Mar-18 14:00:00		8.92	0.00	0.00	7.12	2.1	329.7		2.94	0.00	0.00	2.35		10.35	18.92	83.84	86.68	31-Mar-18 13:00:00		13.29	18.92	83.84	89.03
31-Mar-18 14:00:00	31-Mar-18 15:00:00		13.16	0.00	0.00	6.90	2.1	329.7		4.34	0.00	0.00	2.28		10.35	18.92	83.84	86.68	31-Mar-18 14:00:00		14.69	18.92	83.84	88.96
31-Mar-18 15:00:00	31-Mar-18 16:00:00		26.40	0.00	0.00	6.74	2.1	329.7		8.71	0.00	0.00	2.22		10.35	18.92	83.84	86.68	31-Mar-18 15:00:00		19.06	18.92	83.84	88.90
31-Mar-18 16:00:00	31-Mar-18 17:00:00		33.97	0.00	0.00	6.67	2.1	329.7		11.20	0.00	0.00	2.20		10.35	18.92	83.84	86.68	31-Mar-18 16:00:00		21.55	18.92	83.84	88.88
31-Mar-18 17:00:00	31-Mar-18 18:00:00		15.76	0.00	0.00	6.59	2.1	329.7		5.20	0.00	0.00	2.17		10.35	18.92	83.84	86.68	31-Mar-18 17:00:00		15.55	18.92	83.84	88.85
31-Mar-18 18:00:00	31-Mar-18 19:00:00		1.91	0.00	0.00	6.50	2.1	329.7		0.63	0.00	0.00	2.14		10.35	18.92	83.84	86.68	31-Mar-18 18:00:00		10.98	18.92	83.84	88.82
31-Mar-18 19:00:00	31-Mar-18 20:00:00		1.26	0.00	0.00	6.49	2.1	329.7		0.41	0.00	0.00	2.14		10.35	18.92	83.84	86.68	31-Mar-18 19:00:00		10.76	18.92	83.84	88.82
31-Mar-18 20:00:00	31-Mar-18 21:00:00		0.76	0.00	0.00	6.71	2.1	329.7		0.25	0.00	0.00	2.21		10.35	18.92	83.84	86.68	31-Mar-18 20:00:00		10.60	18.92	83.84	88.89
31-Mar-18 21:00:00	31-Mar-18 22:00:00		0.27	0.00	0.00	6.93	2.1	329.7		0.09	0.00	0.00	2.28		10.35	18.92	83.84	86.68	31-Mar-18 21:00:00		10.44	18.92	83.84	88.96
31-Mar-18 22:00:00	31-Mar-18 23:00:00		11.12	0.00	0.00	7.15	2.1	329.7		3.67	0.00	0.00	2.36		10.35	18.92	83.84	86.68	31-Mar-18 22:00:00		14.02	18.92	83.84	89.04
31-Mar-18 23:00:00	01-Apr-18 00:00:00		19.91	0.00	0.00	7.38	2.1	329.7		6.57	0.00	0.00	2.43		10.35	18.92	83.84	86.68	31-Mar-18 23:00:00		16.92	18.92	83.84	89.11
01-Apr-18 00:00:00	01-Apr-18 01:00:00		9.36	0.00	0.00	7.55	2.1	329.7		3.09	0.00	0.00	2.49		10.35	18.92	83.84	86.68	01-Apr-18 00:00:00		13.44	18.92	83.84	89.17
01-Apr-18 01:00:00	01-Apr-18 02:00:00		12.18	0.00	0.00	7.67	2.1	329.7		4.01	0.00	0.00	2.53		10.35	18.92	83.84	86.68	01-Apr-18 01:00:00		14.36	18.92	83.84	89.21
01-Apr-18 02:00:00	01-Apr-18 03:00:00		13.72	0.00	0.00	7.80	2.1	329.7		4.52	0.00	0.00	2.57		10.35	18.92	83.84	86.68	01-Apr-18 02:00:00		14.87	18.92	83.84	89.25
01-Apr-18 03:00:00	01-Apr-18 04:00:00		3.40	0.00	0.00	7.97	2.1	329.7		1.12	0.00	0.00	2.63		10.35	18.92	83.84	86.68	01-Apr-18 03:00:00		11.47	18.92	83.84	89.31
01-Apr-18 04:00:00	01-Apr-18 05:00:00		4.94	0.00	0.00	8.04	2.1	329.7		1.63	0.00	0.00	2.65		10.35	18.92	83.84	86.68	01-Apr-18 04:00:00		11.98	18.92	83.84	89.33
01-Apr-18 05:00:00	01-Apr-18 06:00:00		1.69	0.00	0.00	8.05	2.1	329.7		0.56	0.00	0.00	2.65		10.35	18.92	83.84	86.68	01-Apr-18 05:00:00		10.91	18.92	83.84	89.33
01-Apr-18 06:00:00	01-Apr-18 07:00:00		1.90	0.00	0.00	8.05	2.1	329.7		0.63	0.00	0.00	2.65		10.35	18.92	83.84	86.68	01-Apr-18 06:00:00		10.98	18.92	83.84	89.33
01-Apr-18 07:00:00	01-Apr-18 08:00:00		12.69	0.00	0.00	8.04	2.1	329.7		4.18	0.00	0.00	2.65		10.35	18.92	83.84	86.68	01-Apr-18 07:00:00		14.53	18.92	83.84	89.33
01-Apr-18 08:00:00	01-Apr-18 09:00:00		16.71	0.00	0.00	7.81	2.1	329.7		5.51	0.00	0.00	2.57		10.35	18.92	83.84	86.68	01-Apr-18 08:00:00		15.86	18.92	83.84	89.25
01-Apr-18 09:00:00	01-Apr-18 10:00:00		15.14	0.00	0.00	7.52	2.1	329.7		4.99	0.00	0.00	2.48		10.35	18.92	83.84	86.68	01-Apr-18 09:00:00		15.34	18.92	83.84	89.16
01-Apr-18 10:00:00	01-Apr-18 11:00:00		3.35	0.00	0.00	7.24	2.1	329.7		1.10	0.00	0.00	2.39		10.35	18.92	83.84	86.68	01-Apr-18 10:00:00		11.45	18.92	83.84	89.07
01-Apr-18 11:00:00	01-Apr-18 12:00:00		12.61	0.00	0.00	6.96	2.1	329.7		4.16	0.00	0.00	2.30		10.35	18.92	83.84	86.68	01-Apr-18 11:00:00		14.51	18.92	83.84	88.98
01-Apr-18 12:00:00	01-Apr-18 13:00:00		17.98	0.00	0.00	6.76	2.1	329.7		5.93	0.00	0.00	2.23		10.35	18.92	83.84	86.68	01-Apr-18 12:00:00		16.28	18.92	83.84	88.91
01-Apr-18 13:00:00	01-Apr-18 14:00:00		3.03	0.00	0.00	6.57	2.1	329.7		1.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	01-Apr-18 13:00:00		11.35	18.92	83.84	88.85
01-Apr-18 14:00:00	01-Apr-18 15:00:00		0.12	0.00	0.00	6.38	2.1	329.7		0.04	0.00	0.00	2.10		10.35	18.92	83.84	86.68	01-Apr-18 14:00:00		10.39	18.92	83.84	88.78
01-Apr-18 15:00:00	01-Apr-18 16:00:00		0.81	0.00	0.00	6.21	2.1	329.7		0.27	0.00	0.00	2.05		10.35	18.92	83.84	86.68	01-Apr-18 15:00:00		10.62	18.92	83.84	88.73
01-Apr-18 16:00:00	01-Apr-18 17:00:00		0.00	0.00	0.00	6.12	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	01-Apr-18 16:00:00		10.35	18.92	83.84	88.70
01-Apr-18 17:00:00	01-Apr-18 18:00:00		0.00	0.00	0.00	6.04	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	01-Apr-18 17:00:00		10.35	18.92	83.84	88.67
01-Apr-18 18:00:00	01-Apr-18 19:00:00		0.00	0.00	0.00	5.96	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	01-Apr-18 18:00:00		10.35	18.92	83.84	88.64
01-Apr-18 19:00:00	01-Apr-18 20:00:00		0.00	0.00	0.00	6.00	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	01-Apr-18 19:00:00		10.35	18.92	83.84	88.66
01-Apr-18 20:00:00	01-Apr-18 21:00:00		0.02	0.00	0.00	6.23	2.1	329.7		0.01	0.00	0.00	2.05		10.35	18.92	83.84	86.68	01-Apr-18 20:00:00		10.36	18.92	83.84	88.73
01-Apr-18 21:00:00	01-Apr-18 22:00:00		0.06	0.00	0.00	6.37	2.1	329.7		0.02	0.00	0.00	2.10		10.35	18.92	83.84	86.68	01-Apr-18 21:00:00		10.37	18.92	83.84	88.78
01-Apr-18 22:00:00	01-Apr-18 23:00:00		0.25	0.00	0.00	6.52	2.1	329.7		0.08	0.00	0.00	2.15		10.35	18.92	83.84	86.68	01-Apr-18 22:00:00		10.43	18.92	83.84	88.83
01-Apr-18 23:00:00	02-Apr-18 00:00:00		0.00	0.00	0.00	6.66	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	01-Apr-18 23:00:00		10.35	18.92	83.84	88.88
02-Apr-18 00:00:00	02-Apr-18 01:00:00		0.00	0.00	0.00	6.71	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	02-Apr-18 00:00:00		10.35	18.92	83.84	88.89
02-Apr-18 01:00:00	02-Apr-18 02:00:00		0.00	0.00	0.00	6.73	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	02-Apr-18 01:00:00		10.35	18.92	83.84	88.90
02-Apr-18 02:00:00	02-Apr-18 03:00:00		0.00	0.00	0.00	6.75	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	02-Apr-18 02:00:00		10.35	18.92	83.84	88.90
02-Apr-18 03:00:00	02-Apr-18 04:00:00		0.00	0.00	0.00	6.81	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	02-Apr-18 03:00:00		10.35	18.92	83.84	88.92
02-Apr-18 04:00:00	02-Apr-18 05:00:00		0.00	0.00	0.00	6.95	2.1	329.7		0.00	0.00	0.00	2.29		10.35	18.92	83.84	86.68	02-Apr-18 04:00:00		10.35	18.92	83.84	88.97
02-Apr-18 05:00:00	02-Apr-18 06:00:00		5.25	0.00	0.00	7.05	2.1	329.7		1.73	0.00	0.00	2.33		10.35	18.92	83.84	86.68	02-Apr-18 05:00:00		12.08	18.92	83.84	89.01
02-Apr-18 06:00:00	02-Apr-18 07:00:00		6.18	0.00	0.00	7.16	2.1	329.7		2.04	0.00	0.00	2.36		10.35	18.92	83.84	86.68	02-Apr-18 06:00:00		12.39	18.92	83.84	89.04
02-Apr-18 07:00:00	02-Apr-18 08:00:00		2.22	0.00	0.00	7.31	2.1	329.7		0.73	0.00	0.00	2.41		10.35	18.92	83.84	86.68	02-Apr-18 07:00:00		11.08	18.92	83.84	89.09
02-Apr-18 08:00:00	02-Apr-18 09:00:00		13.99	0.00	0.00	7.29	2.1	329.7		4.61	0.00	0.00	2.40		10.35	18.92	83.84	86.68	02-Apr-18 08:00:00		14.96	18.92	83.84	89.08
02-Apr-18 09:00:00	02-Apr-18 10:00:00		16.90	0.00	0.00	7.16	2.1	329.7		5.57	0.00	0.00	2.36		10.35	18.92	83.84	86.68	02-Apr-18 09:00:00		15.92	18.92	83.84	89.04
02-Apr-18 10:00:00	02-Apr-18 11:00:00		7.29	0.00	0.00	7.02	2.1	329.7		2.40	0.00	0.00	2.31		10.35	18.92	83.84	86.68	02-Apr-18 10:00:00		12.75	18.92	83.84	88.99
02-Apr-18 11:00:00	02-Apr-18 12:00:00		0.00	0.00	0.00	6.88	2.1	329.7		0.00	0.00	0.00	2.27		10.35	18.92	83.84	86.68	02-Apr-18 11:00:00		10.35	18.92	83.84	88.95
02-Apr-18 12:00:00	02-Apr-18 13:00:00		0.00	0.00	0.00	6.66	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	02-Apr-18 12:00:00		10.35	18.92	83.84	88.88
02-Apr-18 13:00:00	02-Apr-18 14:00:00		1.94	0.00	0.00	6.44	2.1	329.7		0.64	0.00	0.00	2.12		10.35	18.92	83.84	86.68	02-Apr-18 13:00:00		10.99	18.92	83.84	88.80
02-Apr-18 14:00:00	02-Apr-18 15:00:00		0.98	0.00	0.00	6.21	2.1	329.7		0.32	0.00	0.00	2.05		10.35	18.92	83.84	86.68	02-Apr-18 14:00:00		10.67	18.92	83.84	88.73
02-Apr-18 15:00:00	02-Apr-18 16:00:00		0.25	0.00	0.00	6.01	2.1	329.7		0.08	0.00	0.00	1.98		10.35	18.92	83.84	86.68	02-Apr-18 15:00:00		10.43	18.92	83.84	88.66
02-Apr-18 16:00:00	02-Apr-18 17:00:00		1.82	0.00	0.00	5.94	2.1	329.7		0.60	0.00	0.00	1.96		10.35	18.92	83.84	86.68	02-Apr-18 16:00:00		10.95	18.92	83.84	88.64
02-Apr-18 17:00:00	02-Apr-18 18:00:00		0.17	0.00	0.00	5.86	2.1	329.7		0.06	0.00	0.00	1.93		10.35	18.92	83.84	86.68	02-Apr-18 17:00:00		10.41	18.92	83.84	88.61
02-Apr-18 18:00:00	02-Apr-18 19:00:00		0.00	0.00	0.00	5.78	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	02-Apr-18 18:00:00		10.35	18.92	83.84	88.59
02-Apr-18 19:00:00	02-Apr-18 20:00:00		0.00	0.00	0.00	5.73	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	02-Apr-18 19:00:00		10.35	18.92	83.84	88.57
02-Apr-18 20:00:00	02-Apr-18 21:00:00		0.00	0.00	0.00	5.85	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	02-Apr-18 20:00:00		10.35	18.92	83.84	88.61
02-Apr-18 21:00:00	02-Apr-18 22:00:00		0.00	0.00	0.00	6.01	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	02-Apr-18 21:00:00		10.35	18.92	83.84	88.66
02-Apr-18 22:00:00	02-Apr-18 23:00:00		1.03	0.00	0.00	6.17	2.1	329.7		0.34	0.00	0.00	2.03		10.35	18.92	83.84	86.68	02-Apr-18 22:00:00		10.69	18.92	83.84	88.71
02-Apr-18 23:00:00	03-Apr-18 00:00:00		0.00	0.00	0.00	6.33	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	02-Apr-18 23:00:00		10.35	18.92	83.84	88.77
03-Apr-18 00:00:00	03-Apr-18 01:00:00		0.48	0.00	0.00	6.55	2.1	329.7		0.16	0.00	0.00	2.16		10.35	18.92	83.84	86.68	03-Apr-18 00:00:00		10.51	18.92	83.84	88.84
03-Apr-18 01:00:00	03-Apr-18 02:00:00		0.00	0.00	0.00	6.79	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	03-Apr-18 01:00:00		10.35	18.92	83.84	88.92
03-Apr-18 02:00:00	03-Apr-18 03:00:00		0.08	0.00	0.00	7.04	2.1	329.7		0.03	0.00	0.00	2.32		10.35	18.92	83.84	86.68	03-Apr-18 02:00:00		10.38	18.92	83.84	89.00
03-Apr-18 03:00:00	03-Apr-18 04:00:00		5.42	0.00	0.00	7.21	2.1	329.7		1.79	0.00	0.00	2.38		10.35	18.92	83.84	86.68	03-Apr-18 03:00:00		12.14	18.92	83.84	89.06
03-Apr-18 04:00:00	03-Apr-18 05:00:00		6.05	0.00	0.00	7.22	2.1	329.7		1.99	0.00	0.00	2.38		10.35	18.92	83.84	86.68	03-Apr-18 04:00:00		12.34	18.92	83.84	89.06
03-Apr-18 05:00:00	03-Apr-18 06:00:00		4.03	0.00	0.00	7.30	2.1	329.7		1.33	0.00	0.00	2.41		10.35	18.92	83.84	86.68	03-Apr-18 05:00:00		11.68	18.92	83.84	89.09
03-Apr-18 06:00:00	03-Apr-18 07:00:00		27.26	0.00	0.00	7.38	2.1	329.7		8.99	0.00	0.00	2.43		10.35	18.92	83.84	86.68	03-Apr-18 06:00:00		19.34	18.92	83.84	89.11
03-Apr-18 07:00:00	03-Apr-18 08:00:00		34.95	0.00	0.00	7.46	2.1	329.7		11.52	0.00	0.00	2.46		10.35	18.92	83.84	86.68	03-Apr-18 07:00:00		21.87	18.92	83.84	89.14
03-Apr-18 08:00:00	03-Apr-18 09:00:00		31.45	0.00	0.00	7.39	2.1	329.7		10.37	0.00	0.00	2.44		10.35	18.92	83.84	86.68	03-Apr-18 08:00:00		20.72	18.92	83.84	89.12
03-Apr-18 09:00:00	03-Apr-18 10:00:00		23.94	0.00	0.00	7.25	2.1	329.7		7.89	0.00	0.00	2.39		10.35	18.92	83.84	86.68	03-Apr-18 09:00:00		18.24	18.92	83.84	89.07
03-Apr-18 10:00:00	03-Apr-18 11:00:00		22.01	0.00	0.00	7.11	2.1	329.7		7.26	0.00	0.00	2.34		10.35	18.92	83.84	86.68	03-Apr-18 10:00:00		17.61	18.92	83.84	89.02
03-Apr-18 11:00:00	03-Apr-18 12:00:00		21.86	0.00	0.00	6.94	2.1	329.7		7.21	0.00	0.00	2.29		10.35	18.92	83.84	86.68	03-Apr-18 11:00:00		17.56	18.92	83.84	88.97
03-Apr-18 12:00:00	03-Apr-18 13:00:00		21.14	0.00	0.00	6.68	2.1	329.7		6.97	0.00	0.00	2.20		10.35	18.92	83.84	86.68	03-Apr-18 12:00:00		17.32	18.92	83.84	88.88
03-Apr-18 13:00:00	03-Apr-18 14:00:00		1.98	0.00	0.00	6.42	2.1	329.7		0.65	0.00	0.00	2.12		10.35	18.92	83.84	86.68	03-Apr-18 13:00:00		11.00	18.92	83.84	88.80
03-Apr-18 14:00:00	03-Apr-18 15:00:00		0.07	0.00	0.00	6.17	2.1	329.7		0.02	0.00	0.00	2.03		10.35	18.92	83.84	86.68	03-Apr-18 14:00:00		10.37	18.92	83.84	88.71
03-Apr-18 15:00:00	03-Apr-18 16:00:00		0.00	0.00	0.00	5.99	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	03-Apr-18 15:00:00		10.35	18.92	83.84	88.65
03-Apr-18 16:00:00	03-Apr-18 17:00:00		0.00	0.00	0.00	6.01	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	03-Apr-18 16:00:00		10.35	18.92	83.84	88.66
03-Apr-18 17:00:00	03-Apr-18 18:00:00		0.37	0.00	0.00	5.96	2.1	329.7		0.12	0.00	0.00	1.97		10.35	18.92	83.84	86.68	03-Apr-18 17:00:00		10.47	18.92	83.84	88.65
03-Apr-18 18:00:00	03-Apr-18 19:00:00		0.91	0.00	0.00	5.91	2.1	329.7		0.30	0.00	0.00	1.95		10.35	18.92	83.84	86.68	03-Apr-18 18:00:00		10.65	18.92	83.84	88.63
03-Apr-18 19:00:00	03-Apr-18 20:00:00		0.00	0.00	0.00	5.87	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	03-Apr-18 19:00:00		10.35	18.92	83.84	88.62
03-Apr-18 20:00:00	03-Apr-18 21:00:00		0.13	0.00	0.00	5.94	2.1	329.7		0.04	0.00	0.00	1.96		10.35	18.92	83.84	86.68	03-Apr-18 20:00:00		10.39	18.92	83.84	88.64
03-Apr-18 21:00:00	03-Apr-18 22:00:00		0.00	0.00	0.00	6.07	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	03-Apr-18 21:00:00		10.35	18.92	83.84	88.68
03-Apr-18 22:00:00	03-Apr-18 23:00:00		0.50	0.00	0.00	6.19	2.1	329.7		0.17	0.00	0.00	2.04		10.35	18.92	83.84	86.68	03-Apr-18 22:00:00		10.52	18.92	83.84	88.72
03-Apr-18 23:00:00	04-Apr-18 00:00:00		0.30	0.00	0.00	6.32	2.1	329.7		0.10	0.00	0.00	2.08		10.35	18.92	83.84	86.68	03-Apr-18 23:00:00		10.45	18.92	83.84	88.76
04-Apr-18 00:00:00	04-Apr-18 01:00:00		0.71	0.00	0.00	6.47	2.1	329.7		0.23	0.00	0.00	2.13		10.35	18.92	83.84	86.68	04-Apr-18 00:00:00		10.58	18.92	83.84	88.81
04-Apr-18 01:00:00	04-Apr-18 02:00:00		1.53	0.00	0.00	6.62	2.1	329.7		0.51	0.00	0.00	2.18		10.35	18.92	83.84	86.68	04-Apr-18 01:00:00		10.86	18.92	83.84	88.86
04-Apr-18 02:00:00	04-Apr-18 03:00:00		0.00	0.00	0.00	6.78	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	04-Apr-18 02:00:00		10.35	18.92	83.84	88.92
04-Apr-18 03:00:00	04-Apr-18 04:00:00		0.00	0.00	0.00	6.92	2.1	329.7		0.00	0.00	0.00	2.28		10.35	18.92	83.84	86.68	04-Apr-18 03:00:00		10.35	18.92	83.84	88.96
04-Apr-18 04:00:00	04-Apr-18 05:00:00		0.00	0.00	0.00	6.95	2.1	329.7		0.00	0.00	0.00	2.29		10.35	18.92	83.84	86.68	04-Apr-18 04:00:00		10.35	18.92	83.84	88.97
04-Apr-18 05:00:00	04-Apr-18 06:00:00		0.01	0.00	0.00	7.00	2.1	329.7		0.00	0.00	0.00	2.31		10.35	18.92	83.84	86.68	04-Apr-18 05:00:00		10.35	18.92	83.84	88.99
04-Apr-18 06:00:00	04-Apr-18 07:00:00		0.63	0.00	0.00	7.05	2.1	329.7		0.21	0.00	0.00	2.32		10.35	18.92	83.84	86.68	04-Apr-18 06:00:00		10.56	18.92	83.84	89.00
04-Apr-18 07:00:00	04-Apr-18 08:00:00		3.10	0.00	0.00	7.08

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
06-Apr-18 09:00:00	06-Apr-18 10:00:00		1,056.47	453.10	0.00	7.68	2.1	329.7		348.32	149.39	0.00	2.53		10.35	18.92	83.84	86.68	06-Apr-18 09:00:00		358.67	168.31	83.84	89.21
06-Apr-18 10:00:00	06-Apr-18 11:00:00		324.38	453.80	0.00	7.41	2.1	329.7		106.95	149.62	0.00	2.44		10.35	18.92	83.84	86.68	06-Apr-18 10:00:00		117.30	168.54	83.84	89.12
06-Apr-18 11:00:00	06-Apr-18 12:00:00		73.48	450.42	0.00	7.15	2.1	329.7		24.23	148.50	0.00	2.36		10.35	18.92	83.84	86.68	06-Apr-18 11:00:00		34.58	167.42	83.84	89.04
06-Apr-18 12:00:00	06-Apr-18 13:00:00		8.79	451.73	0.00	6.93	2.1	329.7		2.90	148.93	0.00	2.28		10.35	18.92	83.84	86.68	06-Apr-18 12:00:00		13.25	167.85	83.84	88.96
06-Apr-18 13:00:00	06-Apr-18 14:00:00		7.93	450.50	0.00	6.75	2.1	329.7		2.61	148.53	0.00	2.23		10.35	18.92	83.84	86.68	06-Apr-18 13:00:00		12.96	167.45	83.84	88.91
06-Apr-18 14:00:00	06-Apr-18 15:00:00		6.37	459.77	0.00	6.58	2.1	329.7		2.10	151.59	0.00	2.17		10.35	18.92	83.84	86.68	06-Apr-18 14:00:00		12.45	170.51	83.84	88.85
06-Apr-18 15:00:00	06-Apr-18 16:00:00		356.88	446.34	0.00	6.43	2.1	329.7		117.66	147.16	0.00	2.12		10.35	18.92	83.84	86.68	06-Apr-18 15:00:00		128.01	166.08	83.84	88.80
06-Apr-18 16:00:00	06-Apr-18 17:00:00		110.11	451.65	0.00	6.44	2.1	329.7		36.30	148.91	0.00	2.12		10.35	18.92	83.84	86.68	06-Apr-18 16:00:00		46.65	167.83	83.84	88.80
06-Apr-18 17:00:00	06-Apr-18 18:00:00		0.00	452.25	0.00	6.28	2.1	329.7		0.00	149.11	0.00	2.07		10.35	18.92	83.84	86.68	06-Apr-18 17:00:00		10.35	168.03	83.84	88.75
06-Apr-18 18:00:00	06-Apr-18 19:00:00		0.00	448.39	0.00	6.11	2.1	329.7		0.00	147.84	0.00	2.02		10.35	18.92	83.84	86.68	06-Apr-18 18:00:00		10.35	166.76	83.84	88.70
06-Apr-18 19:00:00	06-Apr-18 20:00:00		0.00	450.76	0.00	5.97	2.1	329.7		0.00	148.62	0.00	1.97		10.35	18.92	83.84	86.68	06-Apr-18 19:00:00		10.35	167.54	83.84	88.65
06-Apr-18 20:00:00	06-Apr-18 21:00:00		0.00	452.31	0.00	6.04	2.1	329.7		0.00	149.13	0.00	1.99		10.35	18.92	83.84	86.68	06-Apr-18 20:00:00		10.35	168.05	83.84	88.67
06-Apr-18 21:00:00	06-Apr-18 22:00:00		0.00	449.90	0.00	6.11	2.1	329.7		0.00	148.33	0.00	2.01		10.35	18.92	83.84	86.68	06-Apr-18 21:00:00		10.35	167.25	83.84	88.69
06-Apr-18 22:00:00	06-Apr-18 23:00:00		0.00	452.32	0.00	6.18	2.1	329.7		0.00	149.13	0.00	2.04		10.35	18.92	83.84	86.68	06-Apr-18 22:00:00		10.35	168.05	83.84	88.72
06-Apr-18 23:00:00	07-Apr-18 00:00:00		0.00	452.89	0.00	6.26	2.1	329.7		0.00	149.32	0.00	2.06		10.35	18.92	83.84	86.68	06-Apr-18 23:00:00		10.35	168.24	83.84	88.74
07-Apr-18 00:00:00	07-Apr-18 01:00:00		0.00	448.12	0.00	6.51	2.1	329.7		0.00	147.75	0.00	2.15		10.35	18.92	83.84	86.68	07-Apr-18 00:00:00		10.35	166.67	83.84	88.83
07-Apr-18 01:00:00	07-Apr-18 02:00:00		0.00	439.77	0.00	6.72	2.1	329.7		0.00	144.99	0.00	2.22		10.35	18.92	83.84	86.68	07-Apr-18 01:00:00		10.35	163.91	83.84	88.90
07-Apr-18 02:00:00	07-Apr-18 03:00:00		0.00	408.55	0.00	6.94	2.1	329.7		0.00	134.70	0.00	2.29		10.35	18.92	83.84	86.68	07-Apr-18 02:00:00		10.35	153.62	83.84	88.97
07-Apr-18 03:00:00	07-Apr-18 04:00:00		0.33	407.32	0.00	7.16	2.1	329.7		0.11	134.29	0.00	2.36		10.35	18.92	83.84	86.68	07-Apr-18 03:00:00		10.46	153.21	83.84	89.04
07-Apr-18 04:00:00	07-Apr-18 05:00:00		10.90	405.65	0.00	7.32	2.1	329.7		3.59	133.74	0.00	2.41		10.35	18.92	83.84	86.68	07-Apr-18 04:00:00		13.94	152.66	83.84	89.09
07-Apr-18 05:00:00	07-Apr-18 06:00:00		16.09	406.11	0.00	7.37	2.1	329.7		5.30	133.89	0.00	2.43		10.35	18.92	83.84	86.68	07-Apr-18 05:00:00		15.65	152.81	83.84	89.11
07-Apr-18 06:00:00	07-Apr-18 07:00:00		2.55	408.10	0.00	7.42	2.1	329.7		0.84	134.55	0.00	2.45		10.35	18.92	83.84	86.68	07-Apr-18 06:00:00		11.19	153.47	83.84	89.13
07-Apr-18 07:00:00	07-Apr-18 08:00:00		2.27	403.63	0.00	7.49	2.1	329.7		0.75	133.08	0.00	2.47		10.35	18.92	83.84	86.68	07-Apr-18 07:00:00		11.10	152.00	83.84	89.15
07-Apr-18 08:00:00	07-Apr-18 09:00:00		6.51	418.72	0.00	7.62	2.1	329.7		2.15	138.05	0.00	2.51		10.35	18.92	83.84	86.68	07-Apr-18 08:00:00		12.50	156.97	83.84	89.19
07-Apr-18 09:00:00	07-Apr-18 10:00:00		1.16	401.56	0.00	7.60	2.1	329.7		0.38	132.39	0.00	2.51		10.35	18.92	83.84	86.68	07-Apr-18 09:00:00		10.73	151.31	83.84	89.19
07-Apr-18 10:00:00	07-Apr-18 11:00:00		0.95	410.35	0.00	7.58	2.1	329.7		0.31	135.29	0.00	2.50		10.35	18.92	83.84	86.68	07-Apr-18 10:00:00		10.66	154.21	83.84	89.18
07-Apr-18 11:00:00	07-Apr-18 12:00:00		0.74	423.43	0.00	7.55	2.1	329.7		0.25	139.60	0.00	2.49		10.35	18.92	83.84	86.68	07-Apr-18 11:00:00		10.60	158.52	83.84	89.17
07-Apr-18 12:00:00	07-Apr-18 13:00:00		0.61	398.90	0.00	7.39	2.1	329.7		0.20	131.52	0.00	2.44		10.35	18.92	83.84	86.68	07-Apr-18 12:00:00		10.55	150.44	83.84	89.12
07-Apr-18 13:00:00	07-Apr-18 14:00:00		0.71	405.45	0.00	7.25	2.1	329.7		0.23	133.68	0.00	2.39		10.35	18.92	83.84	86.68	07-Apr-18 13:00:00		10.58	152.60	83.84	89.07
07-Apr-18 14:00:00	07-Apr-18 15:00:00		0.46	408.56	0.00	7.10	2.1	329.7		0.15	134.70	0.00	2.34		10.35	18.92	83.84	86.68	07-Apr-18 14:00:00		10.50	153.62	83.84	89.02
07-Apr-18 15:00:00	07-Apr-18 16:00:00		0.20	403.53	0.00	6.95	2.1	329.7		0.07	133.05	0.00	2.29		10.35	18.92	83.84	86.68	07-Apr-18 15:00:00		10.42	151.97	83.84	88.97
07-Apr-18 16:00:00	07-Apr-18 17:00:00		0.41	398.85	0.00	7.03	2.1	329.7		0.14	131.50	0.00	2.32		10.35	18.92	83.84	86.68	07-Apr-18 16:00:00		10.49	150.42	83.84	89.00
07-Apr-18 17:00:00	07-Apr-18 18:00:00		0.56	412.20	0.00	7.22	2.1	329.7		0.18	135.90	0.00	2.38		10.35	18.92	83.84	86.68	07-Apr-18 17:00:00		10.53	154.82	83.84	89.06
07-Apr-18 18:00:00	07-Apr-18 19:00:00		1.23	403.94	0.00	7.42	2.1	329.7		0.41	133.18	0.00	2.45		10.35	18.92	83.84	86.68	07-Apr-18 18:00:00		10.76	152.10	83.84	89.13
07-Apr-18 19:00:00	07-Apr-18 20:00:00		1.87	688.41	0.00	7.64	2.1	329.7		0.62	226.97	0.00	2.52		10.35	18.92	83.84	86.68	07-Apr-18 19:00:00		10.97	245.89	83.84	89.20
07-Apr-18 20:00:00	07-Apr-18 21:00:00		2.62	821.84	0.00	7.94	2.1	329.7		0.86	270.96	0.00	2.62		10.35	18.92	83.84	86.68	07-Apr-18 20:00:00		11.21	289.88	83.84	89.30
07-Apr-18 21:00:00	07-Apr-18 22:00:00		4.22	793.94	0.00	8.14	2.1	329.7		1.39	261.76	0.00	2.68		10.35	18.92	83.84	86.68	07-Apr-18 21:00:00		11.74	280.68	83.84	89.36
07-Apr-18 22:00:00	07-Apr-18 23:00:00		2.09	793.48	0.00	8.35	2.1	329.7		0.69	261.61	0.00	2.75		10.35	18.92	83.84	86.68	07-Apr-18 22:00:00		11.04	280.53	83.84	89.43
07-Apr-18 23:00:00	08-Apr-18 00:00:00		2.05	815.25	0.00	8.56	2.1	329.7		0.68	268.79	0.00	2.82		10.35	18.92	83.84	86.68	07-Apr-18 23:00:00		11.03	287.71	83.84	89.50
08-Apr-18 00:00:00	08-Apr-18 01:00:00		0.63	980.10	0.00	8.70	2.1	329.7		0.21	323.14	0.00	2.87		10.35	18.92	83.84	86.68	08-Apr-18 00:00:00		10.56	342.06	83.84	89.55
08-Apr-18 01:00:00	08-Apr-18 02:00:00		1.43	917.04	0.00	8.68	2.1	329.7		0.47	302.35	0.00	2.86		10.35	18.92	83.84	86.68	08-Apr-18 01:00:00		10.82	321.27	83.84	89.54
08-Apr-18 02:00:00	08-Apr-18 03:00:00		3.44	941.94	0.00	8.66	2.1	329.7		1.13	310.56	0.00	2.85		10.35	18.92	83.84	86.68	08-Apr-18 02:00:00		11.48	329.48	83.84	89.53
08-Apr-18 03:00:00	08-Apr-18 04:00:00		14.50	942.98	0.00	8.64	2.1	329.7		4.78	310.90	0.00	2.85		10.35	18.92	83.84	86.68	08-Apr-18 03:00:00		15.13	329.82	83.84	89.53
08-Apr-18 04:00:00	08-Apr-18 05:00:00		25.19	944.89	0.00	8.62	2.1	329.7		8.31	311.53	0.00	2.84		10.35	18.92	83.84	86.68	08-Apr-18 04:00:00		18.66	330.45	83.84	89.52
08-Apr-18 05:00:00	08-Apr-18 06:00:00		32.77	907.17	0.00	8.51	2.1	329.7		10.80	299.09	0.00	2.81		10.35	18.92	83.84	86.68	08-Apr-18 05:00:00		21.15	318.01	83.84	89.49
08-Apr-18 06:00:00	08-Apr-18 07:00:00		33.66	907.70	0.00	8.40	2.1	329.7		11.10	299.27	0.00	2.77		10.35	18.92	83.84	86.68	08-Apr-18 06:00:00		21.45	318.19	83.84	89.45
08-Apr-18 07:00:00	08-Apr-18 08:00:00		33.85	14.15	0.00	8.28	2.1	329.7		11.16	4.67	0.00	2.73		10.35	18.92	83.84	86.68	08-Apr-18 07:00:00		21.51	23.59	83.84	89.41
08-Apr-18 08:00:00	08-Apr-18 09:00:00		28.72	0.00	0.00	8.04	2.1	329.7		9.47	0.00	0.00	2.65		10.35	18.92	83.84	86.68	08-Apr-18 08:00:00		19.82	18.92	83.84	89.33
08-Apr-18 09:00:00	08-Apr-18 10:00:00		32.71	0.00	0.00	7.87	2.1	329.7		10.79	0.00	0.00	2.59		10.35	18.92	83.84	86.68	08-Apr-18 09:00:00		21.14	18.92	83.84	89.27
08-Apr-18 10:00:00	08-Apr-18 11:00:00		32.12	0.00	0.00	7.70	2.1	329.7		10.59	0.00	0.00	2.54		10.35	18.92	83.84	86.68	08-Apr-18 10:00:00		20.94	18.92	83.84	89.22
08-Apr-18 11:00:00	08-Apr-18 12:00:00		31.34	0.00	0.00	7.54	2.1	329.7		10.33	0.00	0.00	2.49		10.35	18.92	83.84	86.68	08-Apr-18 11:00:00		20.68	18.92	83.84	89.17
08-Apr-18 12:00:00	08-Apr-18 13:00:00		29.78	0.00	0.00	7.47	2.1	329.7		9.82	0.00	0.00	2.46		10.35	18.92	83.84	86.68	08-Apr-18 12:00:00		20.17	18.92	83.84	89.14
08-Apr-18 13:00:00	08-Apr-18 14:00:00		19.10	0.00	0.00	7.30	2.1	329.7		6.30	0.00	0.00	2.41		10.35	18.92	83.84	86.68	08-Apr-18 13:00:00		16.65	18.92	83.84	89.09
08-Apr-18 14:00:00	08-Apr-18 15:00:00		12.70	0.00	0.00	7.14	2.1	329.7		4.19	0.00	0.00	2.35		10.35	18.92	83.84	86.68	08-Apr-18 14:00:00		14.54	18.92	83.84	89.03
08-Apr-18 15:00:00	08-Apr-18 16:00:00		1.03	0.00	0.00	6.99	2.1	329.7		0.34	0.00	0.00	2.30		10.35	18.92	83.84	86.68	08-Apr-18 15:00:00		10.69	18.92	83.84	88.98
08-Apr-18 16:00:00	08-Apr-18 17:00:00		1.05	0.00	0.00	7.06	2.1	329.7		0.34	0.00	0.00	2.33		10.35	18.92	83.84	86.68	08-Apr-18 16:00:00		10.69	18.92	83.84	89.01
08-Apr-18 17:00:00	08-Apr-18 18:00:00		1.64	0.00	0.00	7.03	2.1	329.7		0.54	0.00	0.00	2.32		10.35	18.92	83.84	86.68	08-Apr-18 17:00:00		10.89	18.92	83.84	89.00
08-Apr-18 18:00:00	08-Apr-18 19:00:00		1.12	0.00	0.00	7.01	2.1	329.7		0.37	0.00	0.00	2.31		10.35	18.92	83.84	86.68	08-Apr-18 18:00:00		10.72	18.92	83.84	88.99
08-Apr-18 19:00:00	08-Apr-18 20:00:00		0.61	0.00	0.00	6.98	2.1	329.7		0.20	0.00	0.00	2.30		10.35	18.92	83.84	86.68	08-Apr-18 19:00:00		10.55	18.92	83.84	88.98
08-Apr-18 20:00:00	08-Apr-18 21:00:00		0.12	0.00	0.00	7.09	2.1	329.7		0.04	0.00	0.00	2.34		10.35	18.92	83.84	86.68	08-Apr-18 20:00:00		10.39	18.92	83.84	89.02
08-Apr-18 21:00:00	08-Apr-18 22:00:00		0.00	0.00	0.00	7.23	2.1	329.7		0.00	0.00	0.00	2.38		10.35	18.92	83.84	86.68	08-Apr-18 21:00:00		10.35	18.92	83.84	89.06
08-Apr-18 22:00:00	08-Apr-18 23:00:00		0.00	0.00	0.00	7.37	2.1	329.7		0.00	0.00	0.00	2.43		10.35	18.92	83.84	86.68	08-Apr-18 22:00:00		10.35	18.92	83.84	89.11
08-Apr-18 23:00:00	09-Apr-18 00:00:00		0.00	0.00	0.00	7.52	2.1	329.7		0.00	0.00	0.00	2.48		10.35	18.92	83.84	86.68	08-Apr-18 23:00:00		10.35	18.92	83.84	89.16
09-Apr-18 00:00:00	09-Apr-18 01:00:00		0.00	0.00	0.00	7.64	2.1	329.7		0.00	0.00	0.00	2.52		10.35	18.92	83.84	86.68	09-Apr-18 00:00:00		10.35	18.92	83.84	89.20
09-Apr-18 01:00:00	09-Apr-18 02:00:00		0.00	0.00	0.00	7.74	2.1	329.7		0.00	0.00	0.00	2.55		10.35	18.92	83.84	86.68	09-Apr-18 01:00:00		10.35	18.92	83.84	89.23
09-Apr-18 02:00:00	09-Apr-18 03:00:00		0.00	0.00	0.00	7.83	2.1	329.7		0.00	0.00	0.00	2.58		10.35	18.92	83.84	86.68	09-Apr-18 02:00:00		10.35	18.92	83.84	89.26
09-Apr-18 03:00:00	09-Apr-18 04:00:00		0.00	0.00	0.00	7.92	2.1	329.7		0.00	0.00	0.00	2.61		10.35	18.92	83.84	86.68	09-Apr-18 03:00:00		10.35	18.92	83.84	89.29
09-Apr-18 04:00:00	09-Apr-18 05:00:00		0.00	0.00	0.00	7.73	2.1	329.7		0.00	0.00	0.00	2.55		10.35	18.92	83.84	86.68	09-Apr-18 04:00:00		10.35	18.92	83.84	89.23
09-Apr-18 05:00:00	09-Apr-18 06:00:00		127.37	0.00	0.00	7.72	2.1	329.7		41.99	0.00	0.00	2.55		10.35	18.92	83.84	86.68	09-Apr-18 05:00:00		52.34	18.92	83.84	89.23
09-Apr-18 06:00:00	09-Apr-18 07:00:00		370.01	0.00	0.00	7.71	2.1	329.7		121.99	0.00	0.00	2.54		10.35	18.92	83.84	86.68	09-Apr-18 06:00:00		132.34	18.92	83.84	89.22
09-Apr-18 07:00:00	09-Apr-18 08:00:00		512.90	0.00	0.00	7.70	2.1	329.7		169.10	0.00	0.00	2.54		10.35	18.92	83.84	86.68	09-Apr-18 07:00:00		179.45	18.92	83.84	89.22
09-Apr-18 08:00:00	09-Apr-18 09:00:00		624.23	61.93	0.00	7.72	2.1	329.7		205.81	20.42	0.00	2.54		10.35	18.92	83.84	86.68	09-Apr-18 08:00:00		216.16	39.34	83.84	89.22
09-Apr-18 09:00:00	09-Apr-18 10:00:00		608.70	187.95	0.00	7.78	2.1	329.7		200.69	61.97	0.00	2.57		10.35	18.92	83.84	86.68	09-Apr-18 09:00:00		211.04	80.89	83.84	89.25
09-Apr-18 10:00:00	09-Apr-18 11:00:00		678.53	0.00	0.00	7.85	2.1	329.7		223.71	0.00	0.00	2.59		10.35	18.92	83.84	86.68	09-Apr-18 10:00:00		234.06	18.92	83.84	89.27
09-Apr-18 11:00:00	09-Apr-18 12:00:00		711.95	0.00	0.00	7.91	2.1	329.7		234.73	0.00	0.00	2.61		10.35	18.92	83.84	86.68	09-Apr-18 11:00:00		245.08	18.92	83.84	89.29
09-Apr-18 12:00:00	09-Apr-18 13:00:00		615.29	0.00	0.00	7.92	2.1	329.7		202.86	0.00	0.00	2.61		10.35	18.92	83.84	86.68	09-Apr-18 12:00:00		213.21	18.92	83.84	89.29
09-Apr-18 13:00:00	09-Apr-18 14:00:00		668.67	0.00	0.00	7.66	2.1	329.7		220.46	0.00	0.00	2.52		10.35	18.92	83.84	86.68	09-Apr-18 13:00:00		230.81	18.92	83.84	89.20
09-Apr-18 14:00:00	09-Apr-18 15:00:00		764.51	0.00	0.00	7.40	2.1	329.7		252.06	0.00	0.00	2.44		10.35	18.92	83.84	86.68	09-Apr-18 14:00:00		262.41	18.92	83.84	89.12
09-Apr-18 15:00:00	09-Apr-18 16:00:00		887.47	0.00	0.00	7.14	2.1	329.7		292.60	0.00	0.00	2.35		10.35	18.92	83.84	86.68	09-Apr-18 15:00:00		302.95	18.92	83.84	89.03
09-Apr-18 16:00:00	09-Apr-18 17:00:00		776.84	0.00	0.00	6.98	2.1	329.7		256.12	0.00	0.00	2.30		10.35	18.92	83.84	86.68	09-Apr-18 16:00:00		266.47	18.92	83.84	88.98
09-Apr-18 17:00:00	09-Apr-18 18:00:00		42.78	0.00	0.00	6.92	2.1	329.7		14.10	0.00	0.00	2.28		10.35	18.92	83.84	86.68	09-Apr-18 17:00:00		24.45	18.92	83.84	88.96
09-Apr-18 18:00:00	09-Apr-18 19:00:00		3.54	0.00	0.00	6.86	2.1	329.7		1.17	0.00	0.00	2.26		10.35	18.92	83.84	86.68	09-Apr-18 18:00:00		11.52	18.92	83.84	88.94
09-Apr-18 19:00:00	09-Apr-18 20:00:00		6.81	0.00	0.00	6.80	2.1	329.7		2.25	0.00	0.00	2.24		10.35	18.92	83.84	86.68	09-Apr-18 19:00:00		12.60	18.92	83.84	88.92
09-Apr-18 20:00:00	09-Apr-18 21:00:00		2.34	0.00	0.00	6.81	2.1	329.7		0.77	0.00	0.00	2.24		10.35	18.92	83.84	86.68	09-Apr-18 20:00:00		11.12	18.92	83.84	88.92
09-Apr-18 21:00:00	09-Apr-18 22:00:00		2.23	0.00	0.00	6.91	2.1	329.7		0.74	0.00	0.00	2.28		10.35	18.92	83.84	86.68	09-Apr-18 21:00:00		11.09	18.92	83.84	88.96
09-Apr-18 22:00:00	09-Apr-18 23:00:00		2.32	0.00	0.00	7.02	2.1	329.7		0.76	0.00	0.00	2.31		10.35	18.92	83.84	86.68	09-Apr-18 22:00:00		11.11	18.92	83.84	88.99
09-Apr-18 23:00:00	10-Apr-18 00:00:00		1.75	0.00	0.00	7.13	2.1	329.7		0.58	0.00	0.00	2.35		10.35	18.92	83.84	86.68	09-Apr-18 23:00:00		10.93	18.92	83.84	89.03
10-Apr-18 00:00:00	10-Apr-18 01:00:00		1.36	0.00	0.00	7.01	2.1	329.7		0.45	0.00	0.00	2.31		10.35	18.92	83.84	86.68	10-Apr-18 00:00:00		10.80	18.92	83.84	88.99
10-Apr-18 01:00:00	10-Apr-18 02:00:00		1.27	0.00	0.00	6.90	2.1	329.7		0.42	0.00	0.00	2.28		10.35	18.92	83.84	86.68	10-Apr-18 01:00:00		10.77	18.92	83.84	88.96
10-Apr-18 02:00:00	10-Apr-18 03:00:00		1.55	0.00	0.00	6.80	2.1	329.7		0.51	0.00	0.00	2.24		10.35	18.92	83.84	86.68	10-Apr-18 02:00:00		10.86	18.92	83.84	88.92
10-Apr-18 03:00:00	10-Apr-18 04:00:00		1.42	0.00	0.00	6.69	2.1	329.7		0.47	0.00	0.00	2.21		10.35	18.92	83.84	86.68	10-Apr-18 03:00:00		10.82	18.92	83.84	88.89
10-Apr-18 04:00:00	10-Apr-18 05:00:00		1.27	0.00	0.00	6.72	2.1	329.7		0.42	0.00	0.00	2.21		10.35	18.92	83.84	86.68	10-Apr-18 04:00:00		10.77	18.92	83.84	88.89
10-Apr-18 05:00:00	10-Apr-18 06:00:00		1.12	0.00	0.00	6.79	2.1	329.7		0.37	0.00	0.00	2.24		10.35	18.92	83.84	86.68	10-Apr-18 05:00:00		10.72	18.92	83.84	88.92
10-Apr-18 06:00:00	10-Apr-18 07:00:00		0.98	0.00	0.00	6.86

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
12-Apr-18 08:00:00	12-Apr-18 09:00:00		0.18	0.00	0.00	7.15	2.1	329.7		0.06	0.00	0.00	2.36		10.35	18.92	83.84	86.68	12-Apr-18 08:00:00		**10.41**	**18.92**	**83.84**	**89.04**
12-Apr-18 09:00:00	12-Apr-18 10:00:00		0.00	0.00	0.00	7.02	2.1	329.7		0.00	0.00	0.00	2.31		10.35	18.92	83.84	86.68	12-Apr-18 09:00:00		**10.35**	**18.92**	**83.84**	**88.99**
12-Apr-18 10:00:00	12-Apr-18 11:00:00		0.17	0.00	0.00	6.91	2.1	329.7		0.06	0.00	0.00	2.28		10.35	18.92	83.84	86.68	12-Apr-18 10:00:00		**10.41**	**18.92**	**83.84**	**88.96**
12-Apr-18 11:00:00	12-Apr-18 12:00:00		3.66	0.00	0.00	6.62	2.1	329.7		1.21	0.00	0.00	2.18		10.35	18.92	83.84	86.68	12-Apr-18 11:00:00		**11.56**	**18.92**	**83.84**	**88.86**
12-Apr-18 12:00:00	12-Apr-18 13:00:00		7.08	0.00	0.00	6.31	2.1	329.7		2.34	0.00	0.00	2.08		10.35	18.92	83.84	86.68	12-Apr-18 12:00:00		**12.69**	**18.92**	**83.84**	**88.76**
12-Apr-18 13:00:00	12-Apr-18 14:00:00		4.78	0.00	0.00	6.00	2.1	329.7		1.58	0.00	0.00	1.98		10.35	18.92	83.84	86.68	12-Apr-18 13:00:00		**11.93**	**18.92**	**83.84**	**88.66**
12-Apr-18 14:00:00	12-Apr-18 15:00:00		0.56	0.00	0.00	5.81	2.1	329.7		0.19	0.00	0.00	1.92		10.35	18.92	83.84	86.68	12-Apr-18 14:00:00		**10.54**	**18.92**	**83.84**	**88.60**
12-Apr-18 15:00:00	12-Apr-18 16:00:00		0.00	0.00	0.00	5.78	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	12-Apr-18 15:00:00		**10.35**	**18.92**	**83.84**	**88.59**
12-Apr-18 16:00:00	12-Apr-18 17:00:00		0.00	0.00	0.00	5.75	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	12-Apr-18 16:00:00		**10.35**	**18.92**	**83.84**	**88.57**
12-Apr-18 17:00:00	12-Apr-18 18:00:00		0.00	0.00	0.00	5.71	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	12-Apr-18 17:00:00		**10.35**	**18.92**	**83.84**	**88.56**
12-Apr-18 18:00:00	12-Apr-18 19:00:00		0.00	0.00	0.00	5.63	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	12-Apr-18 18:00:00		**10.35**	**18.92**	**83.84**	**88.54**
12-Apr-18 19:00:00	12-Apr-18 20:00:00		0.00	0.00	0.00	5.66	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	12-Apr-18 19:00:00		**10.35**	**18.92**	**83.84**	**88.55**
12-Apr-18 20:00:00	12-Apr-18 21:00:00		0.00	0.00	0.00	5.72	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	12-Apr-18 20:00:00		**10.35**	**18.92**	**83.84**	**88.57**
12-Apr-18 21:00:00	12-Apr-18 22:00:00		0.00	0.00	0.00	5.78	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	12-Apr-18 21:00:00		**10.35**	**18.92**	**83.84**	**88.58**
12-Apr-18 22:00:00	12-Apr-18 23:00:00		0.00	0.00	0.00	6.01	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	12-Apr-18 22:00:00		**10.35**	**18.92**	**83.84**	**88.66**
12-Apr-18 23:00:00	13-Apr-18 00:00:00		0.00	0.00	0.00	6.20	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	12-Apr-18 23:00:00		**10.35**	**18.92**	**83.84**	**88.73**
13-Apr-18 00:00:00	13-Apr-18 01:00:00		0.00	0.00	0.00	6.36	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	13-Apr-18 00:00:00		**10.35**	**18.92**	**83.84**	**88.78**
13-Apr-18 01:00:00	13-Apr-18 02:00:00		1.74	0.00	0.00	6.52	2.1	329.7		0.57	0.00	0.00	2.15		10.35	18.92	83.84	86.68	13-Apr-18 01:00:00		**10.92**	**18.92**	**83.84**	**88.83**
13-Apr-18 02:00:00	13-Apr-18 03:00:00		1.58	0.00	0.00	6.62	2.1	329.7		0.52	0.00	0.00	2.18		10.35	18.92	83.84	86.68	13-Apr-18 02:00:00		**10.87**	**18.92**	**83.84**	**88.86**
13-Apr-18 03:00:00	13-Apr-18 04:00:00		1.89	0.00	0.00	6.70	2.1	329.7		0.62	0.00	0.00	2.21		10.35	18.92	83.84	86.68	13-Apr-18 03:00:00		**10.97**	**18.92**	**83.84**	**88.89**
13-Apr-18 04:00:00	13-Apr-18 05:00:00		5.43	0.00	0.00	6.79	2.1	329.7		1.79	0.00	0.00	2.24		10.35	18.92	83.84	86.68	13-Apr-18 04:00:00		**12.14**	**18.92**	**83.84**	**88.92**
13-Apr-18 05:00:00	13-Apr-18 06:00:00		2.92	0.00	0.00	6.89	2.1	329.7		0.96	0.00	0.00	2.27		10.35	18.92	83.84	86.68	13-Apr-18 05:00:00		**11.31**	**18.92**	**83.84**	**88.95**
13-Apr-18 06:00:00	13-Apr-18 07:00:00		10.33	0.00	0.00	6.96	2.1	329.7		3.41	0.00	0.00	2.29		10.35	18.92	83.84	86.68	13-Apr-18 06:00:00		**13.76**	**18.92**	**83.84**	**88.97**
13-Apr-18 07:00:00	13-Apr-18 08:00:00		9.42	0.00	0.00	6.92	2.1	329.7		3.10	0.00	0.00	2.28		10.35	18.92	83.84	86.68	13-Apr-18 07:00:00		**13.45**	**18.92**	**83.84**	**88.96**
13-Apr-18 08:00:00	13-Apr-18 09:00:00		23.50	0.00	0.00	6.88	2.1	329.7		7.75	0.00	0.00	2.27		10.35	18.92	83.84	86.68	13-Apr-18 08:00:00		**18.10**	**18.92**	**83.84**	**88.95**
13-Apr-18 09:00:00	13-Apr-18 10:00:00		21.32	0.00	0.00	6.83	2.1	329.7		7.03	0.00	0.00	2.25		10.35	18.92	83.84	86.68	13-Apr-18 09:00:00		**17.38**	**18.92**	**83.84**	**88.93**
13-Apr-18 10:00:00	13-Apr-18 11:00:00		7.40	0.00	0.00	6.69	2.1	329.7		2.44	0.00	0.00	2.21		10.35	18.92	83.84	86.68	13-Apr-18 10:00:00		**12.79**	**18.92**	**83.84**	**88.89**
13-Apr-18 11:00:00	13-Apr-18 12:00:00		0.65	0.00	0.00	6.39	2.1	329.7		0.21	0.00	0.00	2.11		10.35	18.92	83.84	86.68	13-Apr-18 11:00:00		**10.56**	**18.92**	**83.84**	**88.79**
13-Apr-18 12:00:00	13-Apr-18 13:00:00		0.42	0.00	0.00	6.09	2.1	329.7		0.14	0.00	0.00	2.01		10.35	18.92	83.84	86.68	13-Apr-18 12:00:00		**10.49**	**18.92**	**83.84**	**88.69**
13-Apr-18 13:00:00	13-Apr-18 14:00:00		0.00	0.00	0.00	5.79	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	13-Apr-18 13:00:00		**10.35**	**18.92**	**83.84**	**88.59**
13-Apr-18 14:00:00	13-Apr-18 15:00:00		0.00	0.00	0.00	5.66	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	13-Apr-18 14:00:00		**10.35**	**18.92**	**83.84**	**88.55**
13-Apr-18 15:00:00	13-Apr-18 16:00:00		0.00	0.00	0.00	5.64	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	13-Apr-18 15:00:00		**10.35**	**18.92**	**83.84**	**88.54**
13-Apr-18 16:00:00	13-Apr-18 17:00:00		0.00	0.00	0.00	5.59	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	13-Apr-18 16:00:00		**10.35**	**18.92**	**83.84**	**88.52**
13-Apr-18 17:00:00	13-Apr-18 18:00:00		0.00	0.00	0.00	5.55	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	13-Apr-18 17:00:00		**10.35**	**18.92**	**83.84**	**88.51**
13-Apr-18 18:00:00	13-Apr-18 19:00:00		0.00	0.00	0.00	5.45	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	13-Apr-18 18:00:00		**10.35**	**18.92**	**83.84**	**88.48**
13-Apr-18 19:00:00	13-Apr-18 20:00:00		0.00	0.00	0.00	5.50	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	13-Apr-18 19:00:00		**10.35**	**18.92**	**83.84**	**88.49**
13-Apr-18 20:00:00	13-Apr-18 21:00:00		0.00	0.00	0.00	5.59	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	13-Apr-18 20:00:00		**10.35**	**18.92**	**83.84**	**88.52**
13-Apr-18 21:00:00	13-Apr-18 22:00:00		0.00	0.00	0.00	5.67	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	13-Apr-18 21:00:00		**10.35**	**18.92**	**83.84**	**88.55**
13-Apr-18 22:00:00	13-Apr-18 23:00:00		0.00	0.00	0.00	5.89	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	13-Apr-18 22:00:00		**10.35**	**18.92**	**83.84**	**88.62**
13-Apr-18 23:00:00	14-Apr-18 00:00:00		0.00	0.00	0.00	6.05	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	13-Apr-18 23:00:00		**10.35**	**18.92**	**83.84**	**88.67**
14-Apr-18 00:00:00	14-Apr-18 01:00:00		0.00	0.00	0.00	6.16	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	14-Apr-18 00:00:00		**10.35**	**18.92**	**83.84**	**88.71**
14-Apr-18 01:00:00	14-Apr-18 02:00:00		0.00	0.00	0.00	6.27	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	14-Apr-18 01:00:00		**10.35**	**18.92**	**83.84**	**88.75**
14-Apr-18 02:00:00	14-Apr-18 03:00:00		0.00	0.00	0.00	6.36	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	14-Apr-18 02:00:00		**10.35**	**18.92**	**83.84**	**88.78**
14-Apr-18 03:00:00	14-Apr-18 04:00:00		0.00	0.00	0.00	6.40	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	14-Apr-18 03:00:00		**10.35**	**18.92**	**83.84**	**88.79**
14-Apr-18 04:00:00	14-Apr-18 05:00:00		0.00	0.00	0.00	6.44	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	14-Apr-18 04:00:00		**10.35**	**18.92**	**83.84**	**88.80**
14-Apr-18 05:00:00	14-Apr-18 06:00:00		0.00	0.00	0.00	6.47	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	14-Apr-18 05:00:00		**10.35**	**18.92**	**83.84**	**88.81**
14-Apr-18 06:00:00	14-Apr-18 07:00:00		0.00	0.00	0.00	6.40	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	14-Apr-18 06:00:00		**10.35**	**18.92**	**83.84**	**88.79**
14-Apr-18 07:00:00	14-Apr-18 08:00:00		0.00	0.00	0.00	6.44	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	14-Apr-18 07:00:00		**10.35**	**18.92**	**83.84**	**88.80**
14-Apr-18 08:00:00	14-Apr-18 09:00:00		0.00	0.00	0.00	6.42	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	14-Apr-18 08:00:00		**10.35**	**18.92**	**83.84**	**88.80**
14-Apr-18 09:00:00	14-Apr-18 10:00:00		0.00	0.00	0.00	6.40	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	14-Apr-18 09:00:00		**10.35**	**18.92**	**83.84**	**88.79**
14-Apr-18 10:00:00	14-Apr-18 11:00:00		0.00	0.00	0.00	6.39	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	14-Apr-18 10:00:00		**10.35**	**18.92**	**83.84**	**88.79**
14-Apr-18 11:00:00	14-Apr-18 12:00:00		0.00	0.00	0.00	6.18	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	14-Apr-18 11:00:00		**10.35**	**18.92**	**83.84**	**88.72**
14-Apr-18 12:00:00	14-Apr-18 13:00:00		0.00	0.00	0.00	5.94	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	14-Apr-18 12:00:00		**10.35**	**18.92**	**83.84**	**88.64**
14-Apr-18 13:00:00	14-Apr-18 14:00:00		2.57	0.00	0.00	5.71	2.1	329.7		0.85	0.00	0.00	1.88		10.35	18.92	83.84	86.68	14-Apr-18 13:00:00		**11.20**	**18.92**	**83.84**	**88.56**
14-Apr-18 14:00:00	14-Apr-18 15:00:00		0.83	0.00	0.00	5.47	2.1	329.7		0.28	0.00	0.00	1.80		10.35	18.92	83.84	86.68	14-Apr-18 14:00:00		**10.63**	**18.92**	**83.84**	**88.48**
14-Apr-18 15:00:00	14-Apr-18 16:00:00		0.95	0.00	0.00	5.38	2.1	329.7		0.31	0.00	0.00	1.77		10.35	18.92	83.84	86.68	14-Apr-18 15:00:00		**10.66**	**18.92**	**83.84**	**88.45**
14-Apr-18 16:00:00	14-Apr-18 17:00:00		2.10	0.00	0.00	5.49	2.1	329.7		0.69	0.00	0.00	1.81		10.35	18.92	83.84	86.68	14-Apr-18 16:00:00		**11.04**	**18.92**	**83.84**	**88.49**
14-Apr-18 17:00:00	14-Apr-18 18:00:00		9.31	0.00	0.00	5.59	2.1	329.7		3.07	0.00	0.00	1.84		10.35	18.92	83.84	86.68	14-Apr-18 17:00:00		**13.42**	**18.92**	**83.84**	**88.52**
14-Apr-18 18:00:00	14-Apr-18 19:00:00		20.49	0.00	0.00	5.70	2.1	329.7		6.76	0.00	0.00	1.88		10.35	18.92	83.84	86.68	14-Apr-18 18:00:00		**17.11**	**18.92**	**83.84**	**88.56**
14-Apr-18 19:00:00	14-Apr-18 20:00:00		18.06	0.00	0.00	5.62	2.1	329.7		5.95	0.00	0.00	1.85		10.35	18.92	83.84	86.68	14-Apr-18 19:00:00		**16.30**	**18.92**	**83.84**	**88.53**
14-Apr-18 20:00:00	14-Apr-18 21:00:00		18.49	0.00	0.00	5.69	2.1	329.7		6.10	0.00	0.00	1.88		10.35	18.92	83.84	86.68	14-Apr-18 20:00:00		**16.45**	**18.92**	**83.84**	**88.56**
14-Apr-18 21:00:00	14-Apr-18 22:00:00		10.71	0.00	0.00	130.57	2.1	329.7		3.53	0.00	0.00	43.05		10.35	18.92	83.84	86.68	14-Apr-18 21:00:00		**13.88**	**18.92**	**83.84**	**129.73**
14-Apr-18 22:00:00	14-Apr-18 23:00:00		9.15	0.00	0.00	280.39	2.1	329.7		3.02	0.00	0.00	92.44		10.35	18.92	83.84	86.68	14-Apr-18 22:00:00		**13.37**	**18.92**	**83.84**	**179.12**
14-Apr-18 23:00:00	15-Apr-18 00:00:00		6.57	0.00	0.00	103.64	2.1	329.7		2.17	0.00	0.00	34.17		10.35	18.92	83.84	86.68	14-Apr-18 23:00:00		**12.52**	**18.92**	**83.84**	**120.85**
15-Apr-18 00:00:00	15-Apr-18 01:00:00		0.84	0.00	0.00	5.84	2.1	329.7		0.28	0.00	0.00	1.93		10.35	18.92	83.84	86.68	15-Apr-18 00:00:00		**10.63**	**18.92**	**83.84**	**88.61**
15-Apr-18 01:00:00	15-Apr-18 02:00:00		3.25	0.00	0.00	6.01	2.1	329.7		1.07	0.00	0.00	1.98		10.35	18.92	83.84	86.68	15-Apr-18 01:00:00		**11.42**	**18.92**	**83.84**	**88.66**
15-Apr-18 02:00:00	15-Apr-18 03:00:00		1.76	0.00	0.00	6.19	2.1	329.7		0.58	0.00	0.00	2.04		10.35	18.92	83.84	86.68	15-Apr-18 02:00:00		**10.93**	**18.92**	**83.84**	**88.72**
15-Apr-18 03:00:00	15-Apr-18 04:00:00		0.46	0.00	0.00	6.34	2.1	329.7		0.15	0.00	0.00	2.09		10.35	18.92	83.84	86.68	15-Apr-18 03:00:00		**10.50**	**18.92**	**83.84**	**88.77**
15-Apr-18 04:00:00	15-Apr-18 05:00:00		0.00	0.00	0.00	6.47	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	15-Apr-18 04:00:00		**10.35**	**18.92**	**83.84**	**88.81**
15-Apr-18 05:00:00	15-Apr-18 06:00:00		0.00	0.00	0.00	6.59	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	15-Apr-18 05:00:00		**10.35**	**18.92**	**83.84**	**88.85**
15-Apr-18 06:00:00	15-Apr-18 07:00:00		0.00	0.00	0.00	6.72	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	15-Apr-18 06:00:00		**10.35**	**18.92**	**83.84**	**88.90**
15-Apr-18 07:00:00	15-Apr-18 08:00:00		0.00	0.00	0.00	6.70	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	15-Apr-18 07:00:00		**10.35**	**18.92**	**83.84**	**88.89**
15-Apr-18 08:00:00	15-Apr-18 09:00:00		0.00	0.00	0.00	6.56	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	15-Apr-18 08:00:00		**10.35**	**18.92**	**83.84**	**88.84**
15-Apr-18 09:00:00	15-Apr-18 10:00:00		0.00	0.00	0.00	6.49	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	15-Apr-18 09:00:00		**10.35**	**18.92**	**83.84**	**88.82**
15-Apr-18 10:00:00	15-Apr-18 11:00:00		0.00	0.00	0.00	6.41	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	15-Apr-18 10:00:00		**10.35**	**18.92**	**83.84**	**88.79**
15-Apr-18 11:00:00	15-Apr-18 12:00:00		0.00	0.00	0.00	6.29	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	15-Apr-18 11:00:00		**10.35**	**18.92**	**83.84**	**88.75**
15-Apr-18 12:00:00	15-Apr-18 13:00:00		0.00	0.00	0.00	6.19	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	15-Apr-18 12:00:00		**10.35**	**18.92**	**83.84**	**88.72**
15-Apr-18 13:00:00	15-Apr-18 14:00:00		0.00	0.00	0.00	6.15	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	15-Apr-18 13:00:00		**10.35**	**18.92**	**83.84**	**88.71**
15-Apr-18 14:00:00	15-Apr-18 15:00:00		0.16	0.00	0.00	6.10	2.1	329.7		0.05	0.00	0.00	2.01		10.35	18.92	83.84	86.68	15-Apr-18 14:00:00		**10.40**	**18.92**	**83.84**	**88.69**
15-Apr-18 15:00:00	15-Apr-18 16:00:00		0.00	0.00	0.00	6.01	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	15-Apr-18 15:00:00		**10.35**	**18.92**	**83.84**	**88.66**
15-Apr-18 16:00:00	15-Apr-18 17:00:00		0.00	0.00	0.00	6.05	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	15-Apr-18 16:00:00		**10.35**	**18.92**	**83.84**	**88.67**
15-Apr-18 17:00:00	15-Apr-18 18:00:00		0.00	0.00	0.00	6.15	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	15-Apr-18 17:00:00		**10.35**	**18.92**	**83.84**	**88.71**
15-Apr-18 18:00:00	15-Apr-18 19:00:00		0.00	0.00	0.00	6.26	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	15-Apr-18 18:00:00		**10.35**	**18.92**	**83.84**	**88.74**
15-Apr-18 19:00:00	15-Apr-18 20:00:00		0.00	0.00	0.00	6.47	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	15-Apr-18 19:00:00		**10.35**	**18.92**	**83.84**	**88.81**
15-Apr-18 20:00:00	15-Apr-18 21:00:00		0.00	0.00	0.00	6.88	2.1	329.7		0.00	0.00	0.00	2.27		10.35	18.92	83.84	86.68	15-Apr-18 20:00:00		**10.35**	**18.92**	**83.84**	**88.95**
15-Apr-18 21:00:00	15-Apr-18 22:00:00		0.00	0.00	0.00	7.27	2.1	329.7		0.00	0.00	0.00	2.40		10.35	18.92	83.84	86.68	15-Apr-18 21:00:00		**10.35**	**18.92**	**83.84**	**89.08**
15-Apr-18 22:00:00	15-Apr-18 23:00:00		0.38	0.00	0.00	7.67	2.1	329.7		0.13	0.00	0.00	2.53		10.35	18.92	83.84	86.68	15-Apr-18 22:00:00		**10.48**	**18.92**	**83.84**	**89.21**
15-Apr-18 23:00:00	16-Apr-18 00:00:00		0.37	0.00	0.00	7.98	2.1	329.7		0.12	0.00	0.00	2.63		10.35	18.92	83.84	86.68	15-Apr-18 23:00:00		**10.47**	**18.92**	**83.84**	**89.31**
16-Apr-18 00:00:00	16-Apr-18 01:00:00		1.10	0.00	0.00	8.12	2.1	329.7		0.36	0.00	0.00	2.68		10.35	18.92	83.84	86.68	16-Apr-18 00:00:00		**10.71**	**18.92**	**83.84**	**89.36**
16-Apr-18 01:00:00	16-Apr-18 02:00:00		5.06	0.00	0.00	8.25	2.1	329.7		1.67	0.00	0.00	2.72		10.35	18.92	83.84	86.68	16-Apr-18 01:00:00		**12.02**	**18.92**	**83.84**	**89.40**
16-Apr-18 02:00:00	16-Apr-18 03:00:00		6.70	0.00	0.00	8.38	2.1	329.7		2.21	0.00	0.00	2.76		10.35	18.92	83.84	86.68	16-Apr-18 02:00:00		**12.56**	**18.92**	**83.84**	**89.44**
16-Apr-18 03:00:00	16-Apr-18 04:00:00		21.20	0.00	0.00	8.54	2.1	329.7		6.99	0.00	0.00	2.82		10.35	18.92	83.84	86.68	16-Apr-18 03:00:00		**17.34**	**18.92**	**83.84**	**89.50**
16-Apr-18 04:00:00	16-Apr-18 05:00:00		6.24	0.00	0.00	8.61	2.1	329.7		2.06	0.00	0.00	2.84		10.35	18.92	83.84	86.68	16-Apr-18 04:00:00		**12.41**	**18.92**	**83.84**	**89.52**
16-Apr-18 05:00:00	16-Apr-18 06:00:00		14.35	0.00	0.00	8.62

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10³ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
18-Apr-18 07:00:00	18-Apr-18 08:00:00		1,153.65	971.49	0.00	6.72	2.1	329.7		380.36	320.30	0.00	2.22		10.35	18.92	83.84	86.68	18-Apr-18 07:00:00		**390.71**	**339.22**	**83.84**	**88.90**
18-Apr-18 08:00:00	18-Apr-18 09:00:00		1,152.76	969.88	0.00	6.40	2.1	329.7		380.07	319.77	0.00	2.11		10.35	18.92	83.84	86.68	18-Apr-18 08:00:00		**390.42**	**338.69**	**83.84**	**88.79**
18-Apr-18 09:00:00	18-Apr-18 10:00:00		1,149.74	968.87	0.00	6.11	2.1	329.7		379.07	319.44	0.00	2.01		10.35	18.92	83.84	86.68	18-Apr-18 09:00:00		**389.42**	**338.36**	**83.84**	**88.69**
18-Apr-18 10:00:00	18-Apr-18 11:00:00		1,150.63	970.53	0.00	5.83	2.1	329.7		379.36	319.98	0.00	1.92		10.35	18.92	83.84	86.68	18-Apr-18 10:00:00		**389.71**	**338.90**	**83.84**	**88.60**
18-Apr-18 11:00:00	18-Apr-18 12:00:00		1,111.18	970.41	0.00	5.64	2.1	329.7		366.36	319.94	0.00	1.86		10.35	18.92	83.84	86.68	18-Apr-18 11:00:00		**376.71**	**338.86**	**83.84**	**88.54**
18-Apr-18 12:00:00	18-Apr-18 13:00:00		9.08	622.14	0.00	5.58	2.1	329.7		2.99	205.12	0.00	1.84		10.35	18.92	83.84	86.68	18-Apr-18 12:00:00		**13.34**	**224.04**	**83.84**	**88.52**
18-Apr-18 13:00:00	18-Apr-18 14:00:00		0.00	26.56	0.00	5.42	2.1	329.7		0.00	8.76	0.00	1.79		10.35	18.92	83.84	86.68	18-Apr-18 13:00:00		**10.35**	**27.68**	**83.84**	**88.47**
18-Apr-18 14:00:00	18-Apr-18 15:00:00		0.00	0.00	0.00	5.27	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	18-Apr-18 14:00:00		**10.35**	**18.92**	**83.84**	**88.42**
18-Apr-18 15:00:00	18-Apr-18 16:00:00		9.78	0.00	0.00	5.08	2.1	329.7		3.22	0.00	0.00	1.68		10.35	18.92	83.84	86.68	18-Apr-18 15:00:00		**13.57**	**18.92**	**83.84**	**88.36**
18-Apr-18 16:00:00	18-Apr-18 17:00:00		0.00	0.00	0.00	5.05	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	18-Apr-18 16:00:00		**10.35**	**18.92**	**83.84**	**88.35**
18-Apr-18 17:00:00	18-Apr-18 18:00:00		281.51	0.00	0.00	5.12	2.1	329.7		92.81	0.00	0.00	1.69		10.35	18.92	83.84	86.68	18-Apr-18 17:00:00		**103.16**	**18.92**	**83.84**	**88.37**
18-Apr-18 18:00:00	18-Apr-18 19:00:00		783.63	0.00	0.00	5.19	2.1	329.7		258.36	0.00	0.00	1.71		10.35	18.92	83.84	86.68	18-Apr-18 18:00:00		**268.71**	**18.92**	**83.84**	**88.39**
18-Apr-18 19:00:00	18-Apr-18 20:00:00		615.97	0.00	0.00	5.23	2.1	329.7		203.09	0.00	0.00	1.72		10.35	18.92	83.84	86.68	18-Apr-18 19:00:00		**213.44**	**18.92**	**83.84**	**88.40**
18-Apr-18 20:00:00	18-Apr-18 21:00:00		143.56	0.00	0.00	5.33	2.1	329.7		47.33	0.00	0.00	1.76		10.35	18.92	83.84	86.68	18-Apr-18 20:00:00		**57.68**	**18.92**	**83.84**	**88.44**
18-Apr-18 21:00:00	18-Apr-18 22:00:00		0.15	0.00	0.00	5.50	2.1	329.7		0.05	0.00	0.00	1.81		10.35	18.92	83.84	86.68	18-Apr-18 21:00:00		**10.40**	**18.92**	**83.84**	**88.49**
18-Apr-18 22:00:00	18-Apr-18 23:00:00		0.00	0.00	0.00	5.67	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	18-Apr-18 22:00:00		**10.35**	**18.92**	**83.84**	**88.55**
18-Apr-18 23:00:00	19-Apr-18 00:00:00		10.66	0.00	0.00	5.81	2.1	329.7		3.52	0.00	0.00	1.92		10.35	18.92	83.84	86.68	18-Apr-18 23:00:00		**13.87**	**18.92**	**83.84**	**88.60**
19-Apr-18 00:00:00	19-Apr-18 01:00:00		9.86	0.00	0.00	5.92	2.1	329.7		3.25	0.00	0.00	1.95		10.35	18.92	83.84	86.68	19-Apr-18 00:00:00		**13.60**	**18.92**	**83.84**	**88.63**
19-Apr-18 01:00:00	19-Apr-18 02:00:00		11.02	0.00	0.00	6.06	2.1	329.7		3.63	0.00	0.00	2.00		10.35	18.92	83.84	86.68	19-Apr-18 01:00:00		**13.98**	**18.92**	**83.84**	**88.68**
19-Apr-18 02:00:00	19-Apr-18 03:00:00		11.21	0.00	0.00	6.21	2.1	329.7		3.70	0.00	0.00	2.05		10.35	18.92	83.84	86.68	19-Apr-18 02:00:00		**14.05**	**18.92**	**83.84**	**88.73**
19-Apr-18 03:00:00	19-Apr-18 04:00:00		11.74	0.00	0.00	6.34	2.1	329.7		3.87	0.00	0.00	2.09		10.35	18.92	83.84	86.68	19-Apr-18 03:00:00		**14.22**	**18.92**	**83.84**	**88.77**
19-Apr-18 04:00:00	19-Apr-18 05:00:00		2.16	0.00	0.00	6.46	2.1	329.7		0.71	0.00	0.00	2.13		10.35	18.92	83.84	86.68	19-Apr-18 04:00:00		**11.06**	**18.92**	**83.84**	**88.81**
19-Apr-18 05:00:00	19-Apr-18 06:00:00		8.76	0.00	0.00	6.60	2.1	329.7		2.89	0.00	0.00	2.18		10.35	18.92	83.84	86.68	19-Apr-18 05:00:00		**13.24**	**18.92**	**83.84**	**88.86**
19-Apr-18 06:00:00	19-Apr-18 07:00:00		2.84	0.00	0.00	6.73	2.1	329.7		0.94	0.00	0.00	2.22		10.35	18.92	83.84	86.68	19-Apr-18 06:00:00		**11.29**	**18.92**	**83.84**	**88.90**
19-Apr-18 07:00:00	19-Apr-18 08:00:00		0.00	0.00	0.00	6.86	2.1	329.7		0.00	0.00	0.00	2.26		10.35	18.92	83.84	86.68	19-Apr-18 07:00:00		**10.35**	**18.92**	**83.84**	**88.94**
19-Apr-18 08:00:00	19-Apr-18 09:00:00		0.00	0.00	0.00	6.88	2.1	329.7		0.00	0.00	0.00	2.27		10.35	18.92	83.84	86.68	19-Apr-18 08:00:00		**10.35**	**18.92**	**83.84**	**88.95**
19-Apr-18 09:00:00	19-Apr-18 10:00:00		0.00	0.00	0.00	6.88	2.1	329.7		0.00	0.00	0.00	2.27		10.35	18.92	83.84	86.68	19-Apr-18 09:00:00		**10.35**	**18.92**	**83.84**	**88.95**
19-Apr-18 10:00:00	19-Apr-18 11:00:00		0.00	0.00	0.00	6.70	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	19-Apr-18 10:00:00		**10.35**	**18.92**	**83.84**	**88.89**
19-Apr-18 11:00:00	19-Apr-18 12:00:00		0.00	0.00	0.00	6.14	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	19-Apr-18 11:00:00		**10.35**	**18.92**	**83.84**	**88.70**
19-Apr-18 12:00:00	19-Apr-18 13:00:00		0.00	0.00	0.00	5.89	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	19-Apr-18 12:00:00		**10.35**	**18.92**	**83.84**	**88.62**
19-Apr-18 13:00:00	19-Apr-18 14:00:00		383.22	0.00	0.00	5.64	2.1	329.7		126.35	0.00	0.00	1.86		10.35	18.92	83.84	86.68	19-Apr-18 13:00:00		**136.70**	**18.92**	**83.84**	**88.54**
19-Apr-18 14:00:00	19-Apr-18 15:00:00		827.25	0.00	0.00	5.40	2.1	329.7		272.75	0.00	0.00	1.78		10.35	18.92	83.84	86.68	19-Apr-18 14:00:00		**283.10**	**18.92**	**83.84**	**88.46**
19-Apr-18 15:00:00	19-Apr-18 16:00:00		906.39	0.00	0.00	5.40	2.1	329.7		298.84	0.00	0.00	1.78		10.35	18.92	83.84	86.68	19-Apr-18 15:00:00		**309.19**	**18.92**	**83.84**	**88.46**
19-Apr-18 16:00:00	19-Apr-18 17:00:00		908.13	0.00	0.00	5.51	2.1	329.7		299.41	0.00	0.00	1.82		10.35	18.92	83.84	86.68	19-Apr-18 16:00:00		**309.76**	**18.92**	**83.84**	**88.50**
19-Apr-18 17:00:00	19-Apr-18 18:00:00		911.01	0.00	0.00	5.61	2.1	329.7		300.36	0.00	0.00	1.85		10.35	18.92	83.84	86.68	19-Apr-18 17:00:00		**310.71**	**18.92**	**83.84**	**88.53**
19-Apr-18 18:00:00	19-Apr-18 19:00:00		911.50	0.00	0.00	5.75	2.1	329.7		300.52	0.00	0.00	1.90		10.35	18.92	83.84	86.68	19-Apr-18 18:00:00		**310.87**	**18.92**	**83.84**	**88.58**
19-Apr-18 19:00:00	19-Apr-18 20:00:00		826.37	0.00	0.00	6.06	2.1	329.7		272.45	0.00	0.00	2.00		10.35	18.92	83.84	86.68	19-Apr-18 19:00:00		**282.80**	**18.92**	**83.84**	**88.68**
19-Apr-18 20:00:00	19-Apr-18 21:00:00		760.76	0.00	0.00	6.33	2.1	329.7		250.82	0.00	0.00	2.09		10.35	18.92	83.84	86.68	19-Apr-18 20:00:00		**261.17**	**18.92**	**83.84**	**88.77**
19-Apr-18 21:00:00	19-Apr-18 22:00:00		555.38	0.00	0.00	6.59	2.1	329.7		183.11	0.00	0.00	2.17		10.35	18.92	83.84	86.68	19-Apr-18 21:00:00		**193.46**	**18.92**	**83.84**	**88.85**
19-Apr-18 22:00:00	19-Apr-18 23:00:00		311.14	0.00	0.00	6.83	2.1	329.7		102.58	0.00	0.00	2.25		10.35	18.92	83.84	86.68	19-Apr-18 22:00:00		**112.93**	**18.92**	**83.84**	**88.93**
19-Apr-18 23:00:00	20-Apr-18 00:00:00		243.60	0.00	0.00	6.97	2.1	329.7		80.32	0.00	0.00	2.30		10.35	18.92	83.84	86.68	19-Apr-18 23:00:00		**90.67**	**18.92**	**83.84**	**88.98**
20-Apr-18 00:00:00	20-Apr-18 01:00:00		8.87	0.00	0.00	7.19	2.1	329.7		2.92	0.00	0.00	2.37		10.35	18.92	83.84	86.68	20-Apr-18 00:00:00		**13.27**	**18.92**	**83.84**	**89.05**
20-Apr-18 01:00:00	20-Apr-18 02:00:00		5.99	0.00	0.00	7.42	2.1	329.7		1.98	0.00	0.00	2.45		10.35	18.92	83.84	86.68	20-Apr-18 01:00:00		**12.33**	**18.92**	**83.84**	**89.13**
20-Apr-18 02:00:00	20-Apr-18 03:00:00		0.65	0.00	0.00	7.63	2.1	329.7		0.21	0.00	0.00	2.52		10.35	18.92	83.84	86.68	20-Apr-18 02:00:00		**10.56**	**18.92**	**83.84**	**89.20**
20-Apr-18 03:00:00	20-Apr-18 04:00:00		2.12	0.00	0.00	7.76	2.1	329.7		0.70	0.00	0.00	2.56		10.35	18.92	83.84	86.68	20-Apr-18 03:00:00		**11.05**	**18.92**	**83.84**	**89.24**
20-Apr-18 04:00:00	20-Apr-18 05:00:00		7.80	0.00	0.00	7.85	2.1	329.7		2.57	0.00	0.00	2.59		10.35	18.92	83.84	86.68	20-Apr-18 04:00:00		**12.92**	**18.92**	**83.84**	**89.27**
20-Apr-18 05:00:00	20-Apr-18 06:00:00		7.13	0.00	0.00	7.94	2.1	329.7		2.35	0.00	0.00	2.62		10.35	18.92	83.84	86.68	20-Apr-18 05:00:00		**12.70**	**18.92**	**83.84**	**89.30**
20-Apr-18 06:00:00	20-Apr-18 07:00:00		14.56	0.00	0.00	8.03	2.1	329.7		4.80	0.00	0.00	2.65		10.35	18.92	83.84	86.68	20-Apr-18 06:00:00		**15.15**	**18.92**	**83.84**	**89.33**
20-Apr-18 07:00:00	20-Apr-18 08:00:00		25.62	0.00	0.00	7.93	2.1	329.7		8.45	0.00	0.00	2.61		10.35	18.92	83.84	86.68	20-Apr-18 07:00:00		**18.80**	**18.92**	**83.84**	**89.29**
20-Apr-18 08:00:00	20-Apr-18 09:00:00		35.95	0.00	0.00	7.70	2.1	329.7		11.85	0.00	0.00	2.54		10.35	18.92	83.84	86.68	20-Apr-18 08:00:00		**22.20**	**18.92**	**83.84**	**89.22**
20-Apr-18 09:00:00	20-Apr-18 10:00:00		32.48	0.00	0.00	7.46	2.1	329.7		10.71	0.00	0.00	2.46		10.35	18.92	83.84	86.68	20-Apr-18 09:00:00		**21.06**	**18.92**	**83.84**	**89.14**
20-Apr-18 10:00:00	20-Apr-18 11:00:00		7.04	0.00	0.00	7.22	2.1	329.7		2.32	0.00	0.00	2.38		10.35	18.92	83.84	86.68	20-Apr-18 10:00:00		**12.67**	**18.92**	**83.84**	**89.06**
20-Apr-18 11:00:00	20-Apr-18 12:00:00		1.50	0.00	0.00	6.94	2.1	329.7		0.50	0.00	0.00	2.29		10.35	18.92	83.84	86.68	20-Apr-18 11:00:00		**10.85**	**18.92**	**83.84**	**88.97**
20-Apr-18 12:00:00	20-Apr-18 13:00:00		1.38	0.00	0.00	6.70	2.1	329.7		0.45	0.00	0.00	2.21		10.35	18.92	83.84	86.68	20-Apr-18 12:00:00		**10.80**	**18.92**	**83.84**	**88.89**
20-Apr-18 13:00:00	20-Apr-18 14:00:00		5.68	0.00	0.00	6.46	2.1	329.7		1.87	0.00	0.00	2.13		10.35	18.92	83.84	86.68	20-Apr-18 13:00:00		**12.22**	**18.92**	**83.84**	**88.81**
20-Apr-18 14:00:00	20-Apr-18 15:00:00		14.93	0.00	0.00	6.20	2.1	329.7		4.92	0.00	0.00	2.04		10.35	18.92	83.84	86.68	20-Apr-18 14:00:00		**15.27**	**18.92**	**83.84**	**88.72**
20-Apr-18 15:00:00	20-Apr-18 16:00:00		18.23	0.00	0.00	5.94	2.1	329.7		6.01	0.00	0.00	1.96		10.35	18.92	83.84	86.68	20-Apr-18 15:00:00		**16.36**	**18.92**	**83.84**	**88.64**
20-Apr-18 16:00:00	20-Apr-18 17:00:00		12.69	0.00	0.00	5.85	2.1	329.7		4.18	0.00	0.00	1.93		10.35	18.92	83.84	86.68	20-Apr-18 16:00:00		**14.53**	**18.92**	**83.84**	**88.61**
20-Apr-18 17:00:00	20-Apr-18 18:00:00		6.78	0.00	0.00	5.75	2.1	329.7		2.23	0.00	0.00	1.90		10.35	18.92	83.84	86.68	20-Apr-18 17:00:00		**12.58**	**18.92**	**83.84**	**88.58**
20-Apr-18 18:00:00	20-Apr-18 19:00:00		11.63	0.00	0.00	5.67	2.1	329.7		3.83	0.00	0.00	1.87		10.35	18.92	83.84	86.68	20-Apr-18 18:00:00		**14.18**	**18.92**	**83.84**	**88.55**
20-Apr-18 19:00:00	20-Apr-18 20:00:00		27.26	0.00	0.00	5.82	2.1	329.7		8.99	0.00	0.00	1.92		10.35	18.92	83.84	86.68	20-Apr-18 19:00:00		**19.34**	**18.92**	**83.84**	**88.60**
20-Apr-18 20:00:00	20-Apr-18 21:00:00		18.58	0.00	0.00	6.11	2.1	329.7		6.12	0.00	0.00	2.01		10.35	18.92	83.84	86.68	20-Apr-18 20:00:00		**16.47**	**18.92**	**83.84**	**88.69**
20-Apr-18 21:00:00	20-Apr-18 22:00:00		9.48	0.00	0.00	6.40	2.1	329.7		3.13	0.00	0.00	2.11		10.35	18.92	83.84	86.68	20-Apr-18 21:00:00		**13.48**	**18.92**	**83.84**	**88.79**
20-Apr-18 22:00:00	20-Apr-18 23:00:00		4.37	0.00	0.00	6.73	2.1	329.7		1.44	0.00	0.00	2.22		10.35	18.92	83.84	86.68	20-Apr-18 22:00:00		**11.79**	**18.92**	**83.84**	**88.90**
20-Apr-18 23:00:00	21-Apr-18 00:00:00		2.00	0.00	0.00	7.09	2.1	329.7		0.66	0.00	0.00	2.34		10.35	18.92	83.84	86.68	20-Apr-18 23:00:00		**11.01**	**18.92**	**83.84**	**89.02**
21-Apr-18 00:00:00	21-Apr-18 01:00:00		2.10	0.00	0.00	7.15	2.1	329.7		0.69	0.00	0.00	2.36		10.35	18.92	83.84	86.68	21-Apr-18 00:00:00		**11.04**	**18.92**	**83.84**	**89.04**
21-Apr-18 01:00:00	21-Apr-18 02:00:00		1.79	0.00	0.00	7.21	2.1	329.7		0.59	0.00	0.00	2.38		10.35	18.92	83.84	86.68	21-Apr-18 01:00:00		**10.94**	**18.92**	**83.84**	**89.06**
21-Apr-18 02:00:00	21-Apr-18 03:00:00		3.40	0.00	0.00	7.30	2.1	329.7		1.12	0.00	0.00	2.41		10.35	18.92	83.84	86.68	21-Apr-18 02:00:00		**11.47**	**18.92**	**83.84**	**89.09**
21-Apr-18 03:00:00	21-Apr-18 04:00:00		1.72	0.00	0.00	7.47	2.1	329.7		0.57	0.00	0.00	2.46		10.35	18.92	83.84	86.68	21-Apr-18 03:00:00		**10.92**	**18.92**	**83.84**	**89.14**
21-Apr-18 04:00:00	21-Apr-18 05:00:00		0.67	0.00	0.00	7.50	2.1	329.7		0.22	0.00	0.00	2.47		10.35	18.92	83.84	86.68	21-Apr-18 04:00:00		**10.57**	**18.92**	**83.84**	**89.15**
21-Apr-18 05:00:00	21-Apr-18 06:00:00		6.10	0.00	0.00	7.53	2.1	329.7		2.01	0.00	0.00	2.48		10.35	18.92	83.84	86.68	21-Apr-18 05:00:00		**12.36**	**18.92**	**83.84**	**89.16**
21-Apr-18 06:00:00	21-Apr-18 07:00:00		29.09	0.00	0.00	7.56	2.1	329.7		9.59	0.00	0.00	2.49		10.35	18.92	83.84	86.68	21-Apr-18 06:00:00		**19.94**	**18.92**	**83.84**	**89.17**
21-Apr-18 07:00:00	21-Apr-18 08:00:00		36.02	0.00	0.00	7.36	2.1	329.7		11.88	0.00	0.00	2.43		10.35	18.92	83.84	86.68	21-Apr-18 07:00:00		**22.23**	**18.92**	**83.84**	**89.11**
21-Apr-18 08:00:00	21-Apr-18 09:00:00		34.10	0.00	0.00	7.03	2.1	329.7		11.24	0.00	0.00	2.32		10.35	18.92	83.84	86.68	21-Apr-18 08:00:00		**21.59**	**18.92**	**83.84**	**89.00**
21-Apr-18 09:00:00	21-Apr-18 10:00:00		25.08	0.00	0.00	6.70	2.1	329.7		8.27	0.00	0.00	2.21		10.35	18.92	83.84	86.68	21-Apr-18 09:00:00		**18.62**	**18.92**	**83.84**	**88.89**
21-Apr-18 10:00:00	21-Apr-18 11:00:00		2.53	0.00	0.00	6.38	2.1	329.7		0.83	0.00	0.00	2.10		10.35	18.92	83.84	86.68	21-Apr-18 10:00:00		**11.18**	**18.92**	**83.84**	**88.78**
21-Apr-18 11:00:00	21-Apr-18 12:00:00		0.74	0.00	0.00	6.27	2.1	329.7		0.24	0.00	0.00	2.07		10.35	18.92	83.84	86.68	21-Apr-18 11:00:00		**10.59**	**18.92**	**83.84**	**88.75**
21-Apr-18 12:00:00	21-Apr-18 13:00:00		4.58	0.00	0.00	6.13	2.1	329.7		1.51	0.00	0.00	2.02		10.35	18.92	83.84	86.68	21-Apr-18 12:00:00		**11.86**	**18.92**	**83.84**	**88.70**
21-Apr-18 13:00:00	21-Apr-18 14:00:00		6.09	0.00	0.00	5.99	2.1	329.7		2.01	0.00	0.00	1.97		10.35	18.92	83.84	86.68	21-Apr-18 13:00:00		**12.36**	**18.92**	**83.84**	**88.65**
21-Apr-18 14:00:00	21-Apr-18 15:00:00		6.67	0.00	0.00	5.85	2.1	329.7		2.20	0.00	0.00	1.93		10.35	18.92	83.84	86.68	21-Apr-18 14:00:00		**12.55**	**18.92**	**83.84**	**88.61**
21-Apr-18 15:00:00	21-Apr-18 16:00:00		0.05	0.00	0.00	5.76	2.1	329.7		0.02	0.00	0.00	1.90		10.35	18.92	83.84	86.68	21-Apr-18 15:00:00		**10.37**	**18.92**	**83.84**	**88.58**
21-Apr-18 16:00:00	21-Apr-18 17:00:00		5.08	0.00	0.00	5.68	2.1	329.7		1.67	0.00	0.00	1.87		10.35	18.92	83.84	86.68	21-Apr-18 16:00:00		**12.02**	**18.92**	**83.84**	**88.55**
21-Apr-18 17:00:00	21-Apr-18 18:00:00		7.27	0.00	0.00	5.61	2.1	329.7		2.40	0.00	0.00	1.85		10.35	18.92	83.84	86.68	21-Apr-18 17:00:00		**12.75**	**18.92**	**83.84**	**88.53**
21-Apr-18 18:00:00	21-Apr-18 19:00:00		5.16	0.00	0.00	5.58	2.1	329.7		1.70	0.00	0.00	1.84		10.35	18.92	83.84	86.68	21-Apr-18 18:00:00		**12.05**	**18.92**	**83.84**	**88.52**
21-Apr-18 19:00:00	21-Apr-18 20:00:00		6.12	0.00	0.00	5.92	2.1	329.7		2.02	0.00	0.00	1.95		10.35	18.92	83.84	86.68	21-Apr-18 19:00:00		**12.37**	**18.92**	**83.84**	**88.63**
21-Apr-18 20:00:00	21-Apr-18 21:00:00		6.97	0.00	0.00	6.05	2.1	329.7		2.30	0.00	0.00	1.99		10.35	18.92	83.84	86.68	21-Apr-18 20:00:00		**12.65**	**18.92**	**83.84**	**88.67**
21-Apr-18 21:00:00	21-Apr-18 22:00:00		7.82	0.00	0.00	6.18	2.1	329.7		2.58	0.00	0.00	2.04		10.35	18.92	83.84	86.68	21-Apr-18 21:00:00		**12.93**	**18.92**	**83.84**	**88.72**
21-Apr-18 22:00:00	21-Apr-18 23:00:00		5.28	0.00	0.00	6.31	2.1	329.7		1.74	0.00	0.00	2.08		10.35	18.92	83.84	86.68	21-Apr-18 22:00:00		**12.09**	**18.92**	**83.84**	**88.76**
21-Apr-18 23:00:00	22-Apr-18 00:00:00		7.17	0.00	0.00	6.46	2.1	329.7		2.36	0.00	0.00	2.13		10.35	18.92	83.84	86.68	21-Apr-18 23:00:00		**12.71**	**18.92**	**83.84**	**88.81**
22-Apr-18 00:00:00	22-Apr-18 01:00:00		7.09	0.00	0.00	6.63	2.1	329.7		2.34	0.00	0.00	2.18		10.35	18.92	83.84	86.68	22-Apr-18 00:00:00		**12.69**	**18.92**	**83.84**	**88.86**
22-Apr-18 01:00:00	22-Apr-18 02:00:00		5.09	0.00	0.00	6.79	2.1	329.7		1.68	0.00	0.00	2.24		10.35	18.92	83.84	86.68	22-Apr-18 01:00:00		**12.03**	**18.92**	**83.84**	**88.92**
22-Apr-18 02:00:00	22-Apr-18 03:00:00		7.85	0.00	0.00	6.95	2.1	329.7		2.59	0.00	0.00	2.29		10.35	18.92	83.84	86.68	22-Apr-18 02:00:00		**12.94**	**18.92**	**83.84**	**88.97**
22-Apr-18 03:00:00	22-Apr-18 04:00:00		4.04	0.00	0.00	6.95	2.1	329.7		1.33	0.00	0.00	2.29		10.35	18.92	83.84	86.68	22-Apr-18 03:00:00		**11.68**	**18.92**	**83.84**	**88.97**
22-Apr-18 04:00:00	22-Apr-18 05:00:00		2.40	0.00	0.00

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
24-Apr-18 06:00:00	24-Apr-18 07:00:00		11.43	0.00	0.00	6.36	2.1	329.7		3.77	0.00	0.00	2.10		10.35	18.92	83.84	86.68	24-Apr-18 06:00:00		**14.12**	**18.92**	**83.84**	**88.78**
24-Apr-18 07:00:00	24-Apr-18 08:00:00		11.66	0.00	0.00	6.38	2.1	329.7		3.85	0.00	0.00	2.10		10.35	18.92	83.84	86.68	24-Apr-18 07:00:00		**14.20**	**18.92**	**83.84**	**88.78**
24-Apr-18 08:00:00	24-Apr-18 09:00:00		11.70	0.00	0.00	6.36	2.1	329.7		3.86	0.00	0.00	2.10		10.35	18.92	83.84	86.68	24-Apr-18 08:00:00		**14.21**	**18.92**	**83.84**	**88.78**
24-Apr-18 09:00:00	24-Apr-18 10:00:00		13.71	0.00	0.00	6.35	2.1	329.7		4.52	0.00	0.00	2.09		10.35	18.92	83.84	86.68	24-Apr-18 09:00:00		**14.87**	**18.92**	**83.84**	**88.77**
24-Apr-18 10:00:00	24-Apr-18 11:00:00		25.57	0.00	0.00	6.33	2.1	329.7		8.43	0.00	0.00	2.09		10.35	18.92	83.84	86.68	24-Apr-18 10:00:00		**18.78**	**18.92**	**83.84**	**88.77**
24-Apr-18 11:00:00	24-Apr-18 12:00:00		9.60	0.00	0.00	6.16	2.1	329.7		3.17	0.00	0.00	2.03		10.35	18.92	83.84	86.68	24-Apr-18 11:00:00		**13.52**	**18.92**	**83.84**	**88.71**
24-Apr-18 12:00:00	24-Apr-18 13:00:00		6.08	0.00	0.00	5.89	2.1	329.7		2.01	0.00	0.00	1.94		10.35	18.92	83.84	86.68	24-Apr-18 12:00:00		**12.36**	**18.92**	**83.84**	**88.62**
24-Apr-18 13:00:00	24-Apr-18 14:00:00		3.32	0.00	0.00	5.62	2.1	329.7		1.10	0.00	0.00	1.85		10.35	18.92	83.84	86.68	24-Apr-18 13:00:00		**11.45**	**18.92**	**83.84**	**88.53**
24-Apr-18 14:00:00	24-Apr-18 15:00:00		0.85	0.00	0.00	5.35	2.1	329.7		0.28	0.00	0.00	1.76		10.35	18.92	83.84	86.68	24-Apr-18 14:00:00		**10.63**	**18.92**	**83.84**	**88.44**
24-Apr-18 15:00:00	24-Apr-18 16:00:00		0.58	0.00	0.00	5.39	2.1	329.7		0.19	0.00	0.00	1.78		10.35	18.92	83.84	86.68	24-Apr-18 15:00:00		**10.54**	**18.92**	**83.84**	**88.46**
24-Apr-18 16:00:00	24-Apr-18 17:00:00		0.32	0.00	0.00	5.55	2.1	329.7		0.11	0.00	0.00	1.83		10.35	18.92	83.84	86.68	24-Apr-18 16:00:00		**10.46**	**18.92**	**83.84**	**88.51**
24-Apr-18 17:00:00	24-Apr-18 18:00:00		0.07	0.00	0.00	5.70	2.1	329.7		0.02	0.00	0.00	1.88		10.35	18.92	83.84	86.68	24-Apr-18 17:00:00		**10.37**	**18.92**	**83.84**	**88.56**
24-Apr-18 18:00:00	24-Apr-18 19:00:00		0.26	0.00	0.00	5.85	2.1	329.7		0.09	0.00	0.00	1.93		10.35	18.92	83.84	86.68	24-Apr-18 18:00:00		**10.44**	**18.92**	**83.84**	**88.61**
24-Apr-18 19:00:00	24-Apr-18 20:00:00		0.00	0.00	0.00	5.89	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	24-Apr-18 19:00:00		**10.35**	**18.92**	**83.84**	**88.62**
24-Apr-18 20:00:00	24-Apr-18 21:00:00		0.00	0.00	0.00	5.86	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	24-Apr-18 20:00:00		**10.35**	**18.92**	**83.84**	**88.61**
24-Apr-18 21:00:00	24-Apr-18 22:00:00		0.00	0.00	0.00	5.84	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	24-Apr-18 21:00:00		**10.35**	**18.92**	**83.84**	**88.60**
24-Apr-18 22:00:00	24-Apr-18 23:00:00		0.00	0.00	0.00	5.81	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	24-Apr-18 22:00:00		**10.35**	**18.92**	**83.84**	**88.60**
24-Apr-18 23:00:00	25-Apr-18 00:00:00		0.00	0.00	0.00	5.99	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	24-Apr-18 23:00:00		**10.35**	**18.92**	**83.84**	**88.66**
25-Apr-18 00:00:00	25-Apr-18 01:00:00		0.00	0.00	0.00	6.26	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	25-Apr-18 00:00:00		**10.35**	**18.92**	**83.84**	**88.74**
25-Apr-18 01:00:00	25-Apr-18 02:00:00		0.00	0.00	0.00	6.53	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	25-Apr-18 01:00:00		**10.35**	**18.92**	**83.84**	**88.83**
25-Apr-18 02:00:00	25-Apr-18 03:00:00		0.00	0.00	0.00	6.79	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	25-Apr-18 02:00:00		**10.35**	**18.92**	**83.84**	**88.92**
25-Apr-18 03:00:00	25-Apr-18 04:00:00		0.35	0.00	0.00	6.87	2.1	329.7		0.11	0.00	0.00	2.27		10.35	18.92	83.84	86.68	25-Apr-18 03:00:00		**10.46**	**18.92**	**83.84**	**88.95**
25-Apr-18 04:00:00	25-Apr-18 05:00:00		1.23	0.00	0.00	6.79	2.1	329.7		0.41	0.00	0.00	2.24		10.35	18.92	83.84	86.68	25-Apr-18 04:00:00		**10.76**	**18.92**	**83.84**	**88.92**
25-Apr-18 05:00:00	25-Apr-18 06:00:00		1.11	0.00	0.00	6.72	2.1	329.7		0.37	0.00	0.00	2.21		10.35	18.92	83.84	86.68	25-Apr-18 05:00:00		**10.72**	**18.92**	**83.84**	**88.89**
25-Apr-18 06:00:00	25-Apr-18 07:00:00		0.42	0.00	0.00	6.64	2.1	329.7		0.14	0.00	0.00	2.19		10.35	18.92	83.84	86.68	25-Apr-18 06:00:00		**10.49**	**18.92**	**83.84**	**88.87**
25-Apr-18 07:00:00	25-Apr-18 08:00:00		0.00	0.00	0.00	6.48	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	25-Apr-18 07:00:00		**10.35**	**18.92**	**83.84**	**88.82**
25-Apr-18 08:00:00	25-Apr-18 09:00:00		0.00	0.00	0.00	6.23	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	25-Apr-18 08:00:00		**10.35**	**18.92**	**83.84**	**88.73**
25-Apr-18 09:00:00	25-Apr-18 10:00:00		0.00	0.00	0.00	5.98	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	25-Apr-18 09:00:00		**10.35**	**18.92**	**83.84**	**88.65**
25-Apr-18 10:00:00	25-Apr-18 11:00:00		0.04	0.00	0.00	5.73	2.1	329.7		0.01	0.00	0.00	1.89		10.35	18.92	83.84	86.68	25-Apr-18 10:00:00		**10.36**	**18.92**	**83.84**	**88.57**
25-Apr-18 11:00:00	25-Apr-18 12:00:00		0.77	0.00	0.00	5.39	2.1	329.7		0.25	0.00	0.00	1.78		10.35	18.92	83.84	86.68	25-Apr-18 11:00:00		**10.60**	**18.92**	**83.84**	**88.46**
25-Apr-18 12:00:00	25-Apr-18 13:00:00		1.73	0.00	0.00	5.36	2.1	329.7		0.57	0.00	0.00	1.77		10.35	18.92	83.84	86.68	25-Apr-18 12:00:00		**10.92**	**18.92**	**83.84**	**88.45**
25-Apr-18 13:00:00	25-Apr-18 14:00:00		2.19	0.00	0.00	5.34	2.1	329.7		0.72	0.00	0.00	1.76		10.35	18.92	83.84	86.68	25-Apr-18 13:00:00		**11.07**	**18.92**	**83.84**	**88.44**
25-Apr-18 14:00:00	25-Apr-18 15:00:00		0.00	0.00	0.00	5.32	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	25-Apr-18 14:00:00		**10.35**	**18.92**	**83.84**	**88.43**
25-Apr-18 15:00:00	25-Apr-18 16:00:00		0.00	0.00	0.00	5.17	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	25-Apr-18 15:00:00		**10.35**	**18.92**	**83.84**	**88.39**
25-Apr-18 16:00:00	25-Apr-18 17:00:00		0.00	0.00	0.00	5.07	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	25-Apr-18 16:00:00		**10.35**	**18.92**	**83.84**	**88.35**
25-Apr-18 17:00:00	25-Apr-18 18:00:00		0.00	0.00	0.00	4.98	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	25-Apr-18 17:00:00		**10.35**	**18.92**	**83.84**	**88.32**
25-Apr-18 18:00:00	25-Apr-18 19:00:00		0.00	0.00	0.00	4.89	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	25-Apr-18 18:00:00		**10.35**	**18.92**	**83.84**	**88.29**
25-Apr-18 19:00:00	25-Apr-18 20:00:00		0.00	0.00	0.00	4.81	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	25-Apr-18 19:00:00		**10.35**	**18.92**	**83.84**	**88.27**
25-Apr-18 20:00:00	25-Apr-18 21:00:00		0.00	0.00	0.00	4.92	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	25-Apr-18 20:00:00		**10.35**	**18.92**	**83.84**	**88.30**
25-Apr-18 21:00:00	25-Apr-18 22:00:00		0.00	0.00	0.00	5.05	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	25-Apr-18 21:00:00		**10.35**	**18.92**	**83.84**	**88.34**
25-Apr-18 22:00:00	25-Apr-18 23:00:00		0.00	0.00	0.00	5.17	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	25-Apr-18 22:00:00		**10.35**	**18.92**	**83.84**	**88.38**
25-Apr-18 23:00:00	26-Apr-18 00:00:00		0.00	0.00	0.00	5.33	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	25-Apr-18 23:00:00		**10.35**	**18.92**	**83.84**	**88.44**
26-Apr-18 00:00:00	26-Apr-18 01:00:00		0.00	0.00	0.00	5.46	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	26-Apr-18 00:00:00		**10.35**	**18.92**	**83.84**	**88.48**
26-Apr-18 01:00:00	26-Apr-18 02:00:00		0.00	0.00	0.00	5.59	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	26-Apr-18 01:00:00		**10.35**	**18.92**	**83.84**	**88.52**
26-Apr-18 02:00:00	26-Apr-18 03:00:00		0.00	0.00	0.00	5.71	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	26-Apr-18 02:00:00		**10.35**	**18.92**	**83.84**	**88.56**
26-Apr-18 03:00:00	26-Apr-18 04:00:00		0.00	0.00	0.00	5.93	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	26-Apr-18 03:00:00		**10.35**	**18.92**	**83.84**	**88.63**
26-Apr-18 04:00:00	26-Apr-18 05:00:00		0.00	0.00	0.00	6.05	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	26-Apr-18 04:00:00		**10.35**	**18.92**	**83.84**	**88.67**
26-Apr-18 05:00:00	26-Apr-18 06:00:00		0.00	0.00	0.00	6.16	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	26-Apr-18 05:00:00		**10.35**	**18.92**	**83.84**	**88.71**
26-Apr-18 06:00:00	26-Apr-18 07:00:00		0.27	0.00	0.00	6.27	2.1	329.7		0.09	0.00	0.00	2.07		10.35	18.92	83.84	86.68	26-Apr-18 06:00:00		**10.44**	**18.92**	**83.84**	**88.75**
26-Apr-18 07:00:00	26-Apr-18 08:00:00		0.89	0.00	0.00	6.32	2.1	329.7		0.29	0.00	0.00	2.08		10.35	18.92	83.84	86.68	26-Apr-18 07:00:00		**10.64**	**18.92**	**83.84**	**88.76**
26-Apr-18 08:00:00	26-Apr-18 09:00:00		1.56	0.00	0.00	6.18	2.1	329.7		0.51	0.00	0.00	2.04		10.35	18.92	83.84	86.68	26-Apr-18 08:00:00		**10.86**	**18.92**	**83.84**	**88.72**
26-Apr-18 09:00:00	26-Apr-18 10:00:00		2.23	0.00	0.00	6.03	2.1	329.7		0.73	0.00	0.00	1.99		10.35	18.92	83.84	86.68	26-Apr-18 09:00:00		**11.08**	**18.92**	**83.84**	**88.67**
26-Apr-18 10:00:00	26-Apr-18 11:00:00		3.30	0.00	0.00	5.88	2.1	329.7		1.09	0.00	0.00	1.94		10.35	18.92	83.84	86.68	26-Apr-18 10:00:00		**11.44**	**18.92**	**83.84**	**88.62**
26-Apr-18 11:00:00	26-Apr-18 12:00:00		1.16	0.00	0.00	5.73	2.1	329.7		0.38	0.00	0.00	1.89		10.35	18.92	83.84	86.68	26-Apr-18 11:00:00		**10.73**	**18.92**	**83.84**	**88.57**
26-Apr-18 12:00:00	26-Apr-18 13:00:00		0.01	0.00	0.00	5.78	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	26-Apr-18 12:00:00		**10.35**	**18.92**	**83.84**	**88.58**
26-Apr-18 13:00:00	26-Apr-18 14:00:00		0.00	0.00	0.00	5.67	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	26-Apr-18 13:00:00		**10.35**	**18.92**	**83.84**	**88.55**
26-Apr-18 14:00:00	26-Apr-18 15:00:00		0.00	0.00	0.00	5.52	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	26-Apr-18 14:00:00		**10.35**	**18.92**	**83.84**	**88.50**
26-Apr-18 15:00:00	26-Apr-18 16:00:00		0.00	0.00	0.00	5.38	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	26-Apr-18 15:00:00		**10.35**	**18.92**	**83.84**	**88.45**
26-Apr-18 16:00:00	26-Apr-18 17:00:00		0.00	0.00	0.00	5.54	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	26-Apr-18 16:00:00		**10.35**	**18.92**	**83.84**	**88.51**
26-Apr-18 17:00:00	26-Apr-18 18:00:00		0.00	0.00	0.00	5.93	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	26-Apr-18 17:00:00		**10.35**	**18.92**	**83.84**	**88.64**
26-Apr-18 18:00:00	26-Apr-18 19:00:00		0.00	0.00	0.00	6.30	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	26-Apr-18 18:00:00		**10.35**	**18.92**	**83.84**	**88.76**
26-Apr-18 19:00:00	26-Apr-18 20:00:00		0.00	0.00	0.00	6.67	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	26-Apr-18 19:00:00		**10.35**	**18.92**	**83.84**	**88.88**
26-Apr-18 20:00:00	26-Apr-18 21:00:00		0.00	0.00	0.00	6.85	2.1	329.7		0.00	0.00	0.00	2.26		10.35	18.92	83.84	86.68	26-Apr-18 20:00:00		**10.35**	**18.92**	**83.84**	**88.94**
26-Apr-18 21:00:00	26-Apr-18 22:00:00		0.00	0.00	0.00	6.72	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	26-Apr-18 21:00:00		**10.35**	**18.92**	**83.84**	**88.89**
26-Apr-18 22:00:00	26-Apr-18 23:00:00		0.26	0.00	0.00	6.58	2.1	329.7		0.08	0.00	0.00	2.17		10.35	18.92	83.84	86.68	26-Apr-18 22:00:00		**10.43**	**18.92**	**83.84**	**88.85**
26-Apr-18 23:00:00	27-Apr-18 00:00:00		0.09	0.00	0.00	6.43	2.1	329.7		0.03	0.00	0.00	2.12		10.35	18.92	83.84	86.68	26-Apr-18 23:00:00		**10.38**	**18.92**	**83.84**	**88.80**
27-Apr-18 00:00:00	27-Apr-18 01:00:00		0.12	0.00	0.00	6.33	2.1	329.7		0.04	0.00	0.00	2.09		10.35	18.92	83.84	86.68	27-Apr-18 00:00:00		**10.39**	**18.92**	**83.84**	**88.77**
27-Apr-18 01:00:00	27-Apr-18 02:00:00		2.67	0.00	0.00	6.33	2.1	329.7		0.88	0.00	0.00	2.09		10.35	18.92	83.84	86.68	27-Apr-18 01:00:00		**11.23**	**18.92**	**83.84**	**88.77**
27-Apr-18 02:00:00	27-Apr-18 03:00:00		2.12	0.00	0.00	6.35	2.1	329.7		0.70	0.00	0.00	2.09		10.35	18.92	83.84	86.68	27-Apr-18 02:00:00		**11.05**	**18.92**	**83.84**	**88.77**
27-Apr-18 03:00:00	27-Apr-18 04:00:00		20.92	0.00	0.00	6.36	2.1	329.7		6.90	0.00	0.00	2.10		10.35	18.92	83.84	86.68	27-Apr-18 03:00:00		**17.25**	**18.92**	**83.84**	**88.78**
27-Apr-18 04:00:00	27-Apr-18 05:00:00		16.97	0.00	0.00	6.45	2.1	329.7		5.59	0.00	0.00	2.13		10.35	18.92	83.84	86.68	27-Apr-18 04:00:00		**15.94**	**18.92**	**83.84**	**88.81**
27-Apr-18 05:00:00	27-Apr-18 06:00:00		17.17	0.00	0.00	6.50	2.1	329.7		5.66	0.00	0.00	2.14		10.35	18.92	83.84	86.68	27-Apr-18 05:00:00		**16.01**	**18.92**	**83.84**	**88.82**
27-Apr-18 06:00:00	27-Apr-18 07:00:00		8.28	0.00	0.00	6.53	2.1	329.7		2.73	0.00	0.00	2.15		10.35	18.92	83.84	86.68	27-Apr-18 06:00:00		**13.08**	**18.92**	**83.84**	**88.83**
27-Apr-18 07:00:00	27-Apr-18 08:00:00		6.40	0.00	0.00	6.56	2.1	329.7		2.11	0.00	0.00	2.16		10.35	18.92	83.84	86.68	27-Apr-18 07:00:00		**12.46**	**18.92**	**83.84**	**88.84**
27-Apr-18 08:00:00	27-Apr-18 09:00:00		4.53	0.00	0.00	6.64	2.1	329.7		1.49	0.00	0.00	2.19		10.35	18.92	83.84	86.68	27-Apr-18 08:00:00		**11.84**	**18.92**	**83.84**	**88.87**
27-Apr-18 09:00:00	27-Apr-18 10:00:00		4.12	0.00	0.00	6.59	2.1	329.7		1.36	0.00	0.00	2.17		10.35	18.92	83.84	86.68	27-Apr-18 09:00:00		**11.71**	**18.92**	**83.84**	**88.85**
27-Apr-18 10:00:00	27-Apr-18 11:00:00		3.71	0.00	0.00	6.53	2.1	329.7		1.22	0.00	0.00	2.15		10.35	18.92	83.84	86.68	27-Apr-18 10:00:00		**11.57**	**18.92**	**83.84**	**88.83**
27-Apr-18 11:00:00	27-Apr-18 12:00:00		3.56	0.00	0.00	6.47	2.1	329.7		1.17	0.00	0.00	2.13		10.35	18.92	83.84	86.68	27-Apr-18 11:00:00		**11.52**	**18.92**	**83.84**	**88.81**
27-Apr-18 12:00:00	27-Apr-18 13:00:00		4.65	0.00	0.00	6.35	2.1	329.7		1.53	0.00	0.00	2.09		10.35	18.92	83.84	86.68	27-Apr-18 12:00:00		**11.88**	**18.92**	**83.84**	**88.77**
27-Apr-18 13:00:00	27-Apr-18 14:00:00		15.89	0.00	0.00	6.19	2.1	329.7		5.24	0.00	0.00	2.04		10.35	18.92	83.84	86.68	27-Apr-18 13:00:00		**15.59**	**18.92**	**83.84**	**88.72**
27-Apr-18 14:00:00	27-Apr-18 15:00:00		1.04	0.00	0.00	6.03	2.1	329.7		0.34	0.00	0.00	1.99		10.35	18.92	83.84	86.68	27-Apr-18 14:00:00		**10.69**	**18.92**	**83.84**	**88.67**
27-Apr-18 15:00:00	27-Apr-18 16:00:00		3.22	0.00	0.00	5.88	2.1	329.7		1.06	0.00	0.00	1.94		10.35	18.92	83.84	86.68	27-Apr-18 15:00:00		**11.41**	**18.92**	**83.84**	**88.62**
27-Apr-18 16:00:00	27-Apr-18 17:00:00		0.07	0.00	0.00	5.77	2.1	329.7		0.02	0.00	0.00	1.90		10.35	18.92	83.84	86.68	27-Apr-18 16:00:00		**10.37**	**18.92**	**83.84**	**88.58**
27-Apr-18 17:00:00	27-Apr-18 18:00:00		0.08	0.00	0.00	5.71	2.1	329.7		0.03	0.00	0.00	1.88		10.35	18.92	83.84	86.68	27-Apr-18 17:00:00		**10.38**	**18.92**	**83.84**	**88.56**
27-Apr-18 18:00:00	27-Apr-18 19:00:00		0.00	0.00	0.00	5.66	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	27-Apr-18 18:00:00		**10.35**	**18.92**	**83.84**	**88.55**
27-Apr-18 19:00:00	27-Apr-18 20:00:00		0.00	0.00	0.00	5.60	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	27-Apr-18 19:00:00		**10.35**	**18.92**	**83.84**	**88.53**
27-Apr-18 20:00:00	27-Apr-18 21:00:00		0.00	0.00	0.00	5.72	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	27-Apr-18 20:00:00		**10.35**	**18.92**	**83.84**	**88.57**
27-Apr-18 21:00:00	27-Apr-18 22:00:00		0.00	0.00	0.00	5.87	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	27-Apr-18 21:00:00		**10.35**	**18.92**	**83.84**	**88.61**
27-Apr-18 22:00:00	27-Apr-18 23:00:00		0.00	0.00	0.00	5.98	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	27-Apr-18 22:00:00		**10.35**	**18.92**	**83.84**	**88.65**
27-Apr-18 23:00:00	28-Apr-18 00:00:00		0.19	0.00	0.00	6.10	2.1	329.7		0.06	0.00	0.00	2.01		10.35	18.92	83.84	86.68	27-Apr-18 23:00:00		**10.41**	**18.92**	**83.84**	**88.69**
28-Apr-18 00:00:00	28-Apr-18 01:00:00		0.23	0.00	0.00	6.21	2.1	329.7		0.08	0.00	0.00	2.05		10.35	18.92	83.84	86.68	28-Apr-18 00:00:00		**10.43**	**18.92**	**83.84**	**88.73**
28-Apr-18 01:00:00	28-Apr-18 02:00:00		0.88	0.00	0.00	6.22	2.1	329.7		0.29	0.00	0.00	2.05		10.35	18.92	83.84	86.68	28-Apr-18 01:00:00		**10.64**	**18.92**	**83.84**	**88.73**
28-Apr-18 02:00:00	28-Apr-18 03:00:00		5.93	0.00	0.00	6.21	2.1	329.7		1.96	0.00	0.00	2.05		10.35	18.92	83.84	86.68	28-Apr-18 02:00:00		**12.31**	**18.92**	**83.84**	**88.73**
28-Apr-18 03:00:00	28-Apr-18 04:00:00		3.36	0.00	0.00	6.21

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
30-Apr-18 05:00:00	30-Apr-18 06:00:00		7.06	0.00	0.00	7.07	2.1	329.7		2.33	0.00	0.00	2.33		10.35	18.92	83.84	86.68	30-Apr-18 05:00:00		12.68	18.92	83.84	89.01
30-Apr-18 06:00:00	30-Apr-18 07:00:00		13.70	0.00	0.00	7.05	2.1	329.7		4.52	0.00	0.00	2.33		10.35	18.92	83.84	86.68	30-Apr-18 06:00:00		14.87	18.92	83.84	89.01
30-Apr-18 07:00:00	30-Apr-18 08:00:00		1.79	0.00	0.00	7.04	2.1	329.7		0.59	0.00	0.00	2.32		10.35	18.92	83.84	86.68	30-Apr-18 07:00:00		10.94	18.92	83.84	89.00
30-Apr-18 08:00:00	30-Apr-18 09:00:00		0.74	0.00	0.00	6.91	2.1	329.7		0.24	0.00	0.00	2.28		10.35	18.92	83.84	86.68	30-Apr-18 08:00:00		10.59	18.92	83.84	88.96
30-Apr-18 09:00:00	30-Apr-18 10:00:00		7.12	0.00	0.00	6.53	2.1	329.7		2.35	0.00	0.00	2.15		10.35	18.92	83.84	86.68	30-Apr-18 09:00:00		12.70	18.92	83.84	88.83
30-Apr-18 10:00:00	30-Apr-18 11:00:00		6.28	0.00	0.00	6.15	2.1	329.7		2.07	0.00	0.00	2.03		10.35	18.92	83.84	86.68	30-Apr-18 10:00:00		12.42	18.92	83.84	88.71
30-Apr-18 11:00:00	30-Apr-18 12:00:00		19.36	0.00	0.00	5.77	2.1	329.7		6.38	0.00	0.00	1.90		10.35	18.92	83.84	86.68	30-Apr-18 11:00:00		16.73	18.92	83.84	88.58
30-Apr-18 12:00:00	30-Apr-18 13:00:00		9.62	0.00	0.00	5.42	2.1	329.7		3.17	0.00	0.00	1.79		10.35	18.92	83.84	86.68	30-Apr-18 12:00:00		13.52	18.92	83.84	88.47
30-Apr-18 13:00:00	30-Apr-18 14:00:00		8.58	0.00	0.00	5.37	2.1	329.7		2.83	0.00	0.00	1.77		10.35	18.92	83.84	86.68	30-Apr-18 13:00:00		13.18	18.92	83.84	88.45
30-Apr-18 14:00:00	30-Apr-18 15:00:00		7.63	0.00	0.00	5.37	2.1	329.7		2.51	0.00	0.00	1.77		10.35	18.92	83.84	86.68	30-Apr-18 14:00:00		12.86	18.92	83.84	88.45
30-Apr-18 15:00:00	30-Apr-18 16:00:00		0.22	0.00	0.00	5.37	2.1	329.7		0.07	0.00	0.00	1.77		10.35	18.92	83.84	86.68	30-Apr-18 15:00:00		10.42	18.92	83.84	88.45
30-Apr-18 16:00:00	30-Apr-18 17:00:00		0.00	0.00	0.00	5.21	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	30-Apr-18 16:00:00		10.35	18.92	83.84	88.40
30-Apr-18 17:00:00	30-Apr-18 18:00:00		0.94	0.00	0.00	5.09	2.1	329.7		0.31	0.00	0.00	1.68		10.35	18.92	83.84	86.68	30-Apr-18 17:00:00		10.66	18.92	83.84	88.36
30-Apr-18 18:00:00	30-Apr-18 19:00:00		0.30	0.00	0.00	5.06	2.1	329.7		0.10	0.00	0.00	1.67		10.35	18.92	83.84	86.68	30-Apr-18 18:00:00		10.45	18.92	83.84	88.35
30-Apr-18 19:00:00	30-Apr-18 20:00:00		0.00	0.00	0.00	5.03	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	30-Apr-18 19:00:00		10.35	18.92	83.84	88.34
30-Apr-18 20:00:00	30-Apr-18 21:00:00		0.00	0.00	0.00	5.17	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	30-Apr-18 20:00:00		10.35	18.92	83.84	88.38
30-Apr-18 21:00:00	30-Apr-18 22:00:00		0.00	0.00	0.00	5.46	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	30-Apr-18 21:00:00		10.35	18.92	83.84	88.48
30-Apr-18 22:00:00	30-Apr-18 23:00:00		0.00	0.00	0.00	5.69	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	30-Apr-18 22:00:00		10.35	18.92	83.84	88.56
30-Apr-18 23:00:00	01-May-18 00:00:00		2.30	0.00	0.00	5.92	2.1	329.7		0.76	0.00	0.00	1.95		10.35	18.92	83.84	86.68	30-Apr-18 23:00:00		11.11	18.92	83.84	88.63
01-May-18 00:00:00	01-May-18 01:00:00		10.56	0.00	0.00	6.19	2.1	329.7		3.48	0.00	0.00	2.04		10.35	18.92	83.84	86.68	01-May-18 00:00:00		13.83	18.92	83.84	88.72
01-May-18 01:00:00	01-May-18 02:00:00		20.83	0.00	0.00	6.36	2.1	329.7		6.87	0.00	0.00	2.10		10.35	18.92	83.84	86.68	01-May-18 01:00:00		17.22	18.92	83.84	88.78
01-May-18 02:00:00	01-May-18 03:00:00		18.18	0.00	0.00	6.49	2.1	329.7		6.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	01-May-18 02:00:00		16.35	18.92	83.84	88.82
01-May-18 03:00:00	01-May-18 04:00:00		15.81	0.00	0.00	6.61	2.1	329.7		5.21	0.00	0.00	2.18		10.35	18.92	83.84	86.68	01-May-18 03:00:00		15.56	18.92	83.84	88.86
01-May-18 04:00:00	01-May-18 05:00:00		11.26	0.00	0.00	6.75	2.1	329.7		3.71	0.00	0.00	2.23		10.35	18.92	83.84	86.68	01-May-18 04:00:00		14.06	18.92	83.84	88.91
01-May-18 05:00:00	01-May-18 06:00:00		1.18	0.00	0.00	6.73	2.1	329.7		0.39	0.00	0.00	2.22		10.35	18.92	83.84	86.68	01-May-18 05:00:00		10.74	18.92	83.84	88.90
01-May-18 06:00:00	01-May-18 07:00:00		1.94	0.00	0.00	6.66	2.1	329.7		0.64	0.00	0.00	2.19		10.35	18.92	83.84	86.68	01-May-18 06:00:00		10.99	18.92	83.84	88.87
01-May-18 07:00:00	01-May-18 08:00:00		6.57	0.00	0.00	6.59	2.1	329.7		2.17	0.00	0.00	2.17		10.35	18.92	83.84	86.68	01-May-18 07:00:00		12.52	18.92	83.84	88.85
01-May-18 08:00:00	01-May-18 09:00:00		5.81	0.00	0.00	6.51	2.1	329.7		1.92	0.00	0.00	2.15		10.35	18.92	83.84	86.68	01-May-18 08:00:00		12.27	18.92	83.84	88.83
01-May-18 09:00:00	01-May-18 10:00:00		3.90	0.00	0.00	6.22	2.1	329.7		1.28	0.00	0.00	2.05		10.35	18.92	83.84	86.68	01-May-18 09:00:00		11.63	18.92	83.84	88.73
01-May-18 10:00:00	01-May-18 11:00:00		9.61	0.00	0.00	5.88	2.1	329.7		3.17	0.00	0.00	1.94		10.35	18.92	83.84	86.68	01-May-18 10:00:00		13.52	18.92	83.84	88.62
01-May-18 11:00:00	01-May-18 12:00:00		3.08	0.00	0.00	5.53	2.1	329.7		1.01	0.00	0.00	1.82		10.35	18.92	83.84	86.68	01-May-18 11:00:00		11.36	18.92	83.84	88.50
01-May-18 12:00:00	01-May-18 13:00:00		0.83	0.00	0.00	5.25	2.1	329.7		0.27	0.00	0.00	1.73		10.35	18.92	83.84	86.68	01-May-18 12:00:00		10.62	18.92	83.84	88.41
01-May-18 13:00:00	01-May-18 14:00:00		2.09	0.00	0.00	5.12	2.1	329.7		0.69	0.00	0.00	1.69		10.35	18.92	83.84	86.68	01-May-18 13:00:00		11.04	18.92	83.84	88.37
01-May-18 14:00:00	01-May-18 15:00:00		1.47	0.00	0.00	5.00	2.1	329.7		0.49	0.00	0.00	1.65		10.35	18.92	83.84	86.68	01-May-18 14:00:00		10.84	18.92	83.84	88.33
01-May-18 15:00:00	01-May-18 16:00:00		3.99	0.00	0.00	4.87	2.1	329.7		1.31	0.00	0.00	1.60		10.35	18.92	83.84	86.68	01-May-18 15:00:00		11.66	18.92	83.84	88.28
01-May-18 16:00:00	01-May-18 17:00:00		23.15	0.00	0.00	4.70	2.1	329.7		7.63	0.00	0.00	1.55		10.35	18.92	83.84	86.68	01-May-18 16:00:00		17.98	18.92	83.84	88.23
01-May-18 17:00:00	01-May-18 18:00:00		45.36	0.00	0.00	4.60	2.1	329.7		14.96	0.00	0.00	1.52		10.35	18.92	83.84	86.68	01-May-18 17:00:00		25.31	18.92	83.84	88.20
01-May-18 18:00:00	01-May-18 19:00:00		27.42	0.00	0.00	4.54	2.1	329.7		9.04	0.00	0.00	1.50		10.35	18.92	83.84	86.68	01-May-18 18:00:00		19.39	18.92	83.84	88.18
01-May-18 19:00:00	01-May-18 20:00:00		28.36	0.00	0.00	4.48	2.1	329.7		9.35	0.00	0.00	1.48		10.35	18.92	83.84	86.68	01-May-18 19:00:00		19.70	18.92	83.84	88.16
01-May-18 20:00:00	01-May-18 21:00:00		16.36	0.00	0.00	4.49	2.1	329.7		5.39	0.00	0.00	1.48		10.35	18.92	83.84	86.68	01-May-18 20:00:00		15.74	18.92	83.84	88.16
01-May-18 21:00:00	01-May-18 22:00:00		0.36	0.00	0.00	4.81	2.1	329.7		0.12	0.00	0.00	1.59		10.35	18.92	83.84	86.68	01-May-18 21:00:00		10.47	18.92	83.84	88.27
01-May-18 22:00:00	01-May-18 23:00:00		0.34	0.00	0.00	5.17	2.1	329.7		0.11	0.00	0.00	1.71		10.35	18.92	83.84	86.68	01-May-18 22:00:00		10.46	18.92	83.84	88.39
01-May-18 23:00:00	02-May-18 00:00:00		0.97	0.00	0.00	5.54	2.1	329.7		0.32	0.00	0.00	1.83		10.35	18.92	83.84	86.68	01-May-18 23:00:00		10.67	18.92	83.84	88.51
02-May-18 00:00:00	02-May-18 01:00:00		1.59	0.00	0.00	5.83	2.1	329.7		0.52	0.00	0.00	1.92		10.35	18.92	83.84	86.68	02-May-18 00:00:00		10.87	18.92	83.84	88.60
02-May-18 01:00:00	02-May-18 02:00:00		1.87	0.00	0.00	5.94	2.1	329.7		0.62	0.00	0.00	1.96		10.35	18.92	83.84	86.68	02-May-18 01:00:00		10.97	18.92	83.84	88.64
02-May-18 02:00:00	02-May-18 03:00:00		1.23	0.00	0.00	6.07	2.1	329.7		0.40	0.00	0.00	2.00		10.35	18.92	83.84	86.68	02-May-18 02:00:00		10.75	18.92	83.84	88.68
02-May-18 03:00:00	02-May-18 04:00:00		2.92	0.00	0.00	6.19	2.1	329.7		0.96	0.00	0.00	2.04		10.35	18.92	83.84	86.68	02-May-18 03:00:00		11.31	18.92	83.84	88.72
02-May-18 04:00:00	02-May-18 05:00:00		7.16	0.00	0.00	6.34	2.1	329.7		2.36	0.00	0.00	2.09		10.35	18.92	83.84	86.68	02-May-18 04:00:00		12.71	18.92	83.84	88.77
02-May-18 05:00:00	02-May-18 06:00:00		12.58	0.00	0.00	6.41	2.1	329.7		4.15	0.00	0.00	2.11		10.35	18.92	83.84	86.68	02-May-18 05:00:00		14.50	18.92	83.84	88.79
02-May-18 06:00:00	02-May-18 07:00:00		13.53	0.00	0.00	6.43	2.1	329.7		4.46	0.00	0.00	2.12		10.35	18.92	83.84	86.68	02-May-18 06:00:00		14.81	18.92	83.84	88.80
02-May-18 07:00:00	02-May-18 08:00:00		14.42	0.00	0.00	6.46	2.1	329.7		4.75	0.00	0.00	2.13		10.35	18.92	83.84	86.68	02-May-18 07:00:00		15.10	18.92	83.84	88.81
02-May-18 08:00:00	02-May-18 09:00:00		1.42	0.00	0.00	6.36	2.1	329.7		0.47	0.00	0.00	2.10		10.35	18.92	83.84	86.68	02-May-18 08:00:00		10.82	18.92	83.84	88.78
02-May-18 09:00:00	02-May-18 10:00:00		2.75	0.00	0.00	6.04	2.1	329.7		0.91	0.00	0.00	1.99		10.35	18.92	83.84	86.68	02-May-18 09:00:00		11.26	18.92	83.84	88.67
02-May-18 10:00:00	02-May-18 11:00:00		2.35	0.00	0.00	5.73	2.1	329.7		0.78	0.00	0.00	1.89		10.35	18.92	83.84	86.68	02-May-18 10:00:00		11.13	18.92	83.84	88.57
02-May-18 11:00:00	02-May-18 12:00:00		0.62	0.00	0.00	5.43	2.1	329.7		0.20	0.00	0.00	1.79		10.35	18.92	83.84	86.68	02-May-18 11:00:00		10.55	18.92	83.84	88.47
02-May-18 12:00:00	02-May-18 13:00:00		1.37	0.00	0.00	5.17	2.1	329.7		0.45	0.00	0.00	1.70		10.35	18.92	83.84	86.68	02-May-18 12:00:00		10.80	18.92	83.84	88.38
02-May-18 13:00:00	02-May-18 14:00:00		1.04	0.00	0.00	5.03	2.1	329.7		0.34	0.00	0.00	1.66		10.35	18.92	83.84	86.68	02-May-18 13:00:00		10.69	18.92	83.84	88.34
02-May-18 14:00:00	02-May-18 15:00:00		2.09	0.00	0.00	4.90	2.1	329.7		0.69	0.00	0.00	1.61		10.35	18.92	83.84	86.68	02-May-18 14:00:00		11.04	18.92	83.84	88.29
02-May-18 15:00:00	02-May-18 16:00:00		29.05	0.00	0.00	4.76	2.1	329.7		9.58	0.00	0.00	1.57		10.35	18.92	83.84	86.68	02-May-18 15:00:00		19.93	18.92	83.84	88.25
02-May-18 16:00:00	02-May-18 17:00:00		0.54	0.00	0.00	4.71	2.1	329.7		0.18	0.00	0.00	1.55		10.35	18.92	83.84	86.68	02-May-18 16:00:00		10.53	18.92	83.84	88.23
02-May-18 17:00:00	02-May-18 18:00:00		0.68	0.00	0.00	4.79	2.1	329.7		0.23	0.00	0.00	1.58		10.35	18.92	83.84	86.68	02-May-18 17:00:00		10.58	18.92	83.84	88.26
02-May-18 18:00:00	02-May-18 19:00:00		0.00	0.00	0.00	4.83	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	02-May-18 18:00:00		10.35	18.92	83.84	88.27
02-May-18 19:00:00	02-May-18 20:00:00		0.00	0.00	0.00	4.87	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	02-May-18 19:00:00		10.35	18.92	83.84	88.29
02-May-18 20:00:00	02-May-18 21:00:00		0.30	0.00	0.00	4.81	2.1	329.7		0.10	0.00	0.00	1.59		10.35	18.92	83.84	86.68	02-May-18 20:00:00		10.45	18.92	83.84	88.27
02-May-18 21:00:00	02-May-18 22:00:00		9.03	0.00	0.00	4.92	2.1	329.7		2.98	0.00	0.00	1.62		10.35	18.92	83.84	86.68	02-May-18 21:00:00		13.33	18.92	83.84	88.30
02-May-18 22:00:00	02-May-18 23:00:00		1.00	0.00	0.00	5.15	2.1	329.7		0.33	0.00	0.00	1.70		10.35	18.92	83.84	86.68	02-May-18 22:00:00		10.68	18.92	83.84	88.38
02-May-18 23:00:00	03-May-18 00:00:00		1.28	0.00	0.00	5.38	2.1	329.7		0.42	0.00	0.00	1.78		10.35	18.92	83.84	86.68	02-May-18 23:00:00		10.77	18.92	83.84	88.46
03-May-18 00:00:00	03-May-18 01:00:00		0.18	0.00	0.00	5.64	2.1	329.7		0.06	0.00	0.00	1.86		10.35	18.92	83.84	86.68	03-May-18 00:00:00		10.41	18.92	83.84	88.54
03-May-18 01:00:00	03-May-18 02:00:00		0.11	0.00	0.00	5.79	2.1	329.7		0.04	0.00	0.00	1.91		10.35	18.92	83.84	86.68	03-May-18 01:00:00		10.39	18.92	83.84	88.59
03-May-18 02:00:00	03-May-18 03:00:00		0.05	0.00	0.00	5.88	2.1	329.7		0.02	0.00	0.00	1.94		10.35	18.92	83.84	86.68	03-May-18 02:00:00		10.37	18.92	83.84	88.62
03-May-18 03:00:00	03-May-18 04:00:00		0.04	0.00	0.00	5.97	2.1	329.7		0.01	0.00	0.00	1.97		10.35	18.92	83.84	86.68	03-May-18 03:00:00		10.36	18.92	83.84	88.65
03-May-18 04:00:00	03-May-18 05:00:00		0.18	0.00	0.00	6.13	2.1	329.7		0.06	0.00	0.00	2.02		10.35	18.92	83.84	86.68	03-May-18 04:00:00		10.41	18.92	83.84	88.70
03-May-18 05:00:00	03-May-18 06:00:00		0.50	0.00	0.00	6.25	2.1	329.7		0.17	0.00	0.00	2.06		10.35	18.92	83.84	86.68	03-May-18 05:00:00		10.52	18.92	83.84	88.74
03-May-18 06:00:00	03-May-18 07:00:00		0.07	0.00	0.00	6.29	2.1	329.7		0.02	0.00	0.00	2.07		10.35	18.92	83.84	86.68	03-May-18 06:00:00		10.37	18.92	83.84	88.75
03-May-18 07:00:00	03-May-18 08:00:00		3.61	0.00	0.00	6.33	2.1	329.7		1.19	0.00	0.00	2.09		10.35	18.92	83.84	86.68	03-May-18 07:00:00		11.54	18.92	83.84	88.77
03-May-18 08:00:00	03-May-18 09:00:00		6.07	0.00	0.00	6.33	2.1	329.7		2.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	03-May-18 08:00:00		12.35	18.92	83.84	88.77
03-May-18 09:00:00	03-May-18 10:00:00		3.29	0.00	0.00	6.09	2.1	329.7		1.08	0.00	0.00	2.01		10.35	18.92	83.84	86.68	03-May-18 09:00:00		11.43	18.92	83.84	88.69
03-May-18 10:00:00	03-May-18 11:00:00		1.22	0.00	0.00	5.81	2.1	329.7		0.40	0.00	0.00	1.92		10.35	18.92	83.84	86.68	03-May-18 10:00:00		10.75	18.92	83.84	88.60
03-May-18 11:00:00	03-May-18 12:00:00		0.52	0.00	0.00	5.54	2.1	329.7		0.17	0.00	0.00	1.83		10.35	18.92	83.84	86.68	03-May-18 11:00:00		10.52	18.92	83.84	88.51
03-May-18 12:00:00	03-May-18 13:00:00		0.40	0.00	0.00	5.27	2.1	329.7		0.13	0.00	0.00	1.74		10.35	18.92	83.84	86.68	03-May-18 12:00:00		10.48	18.92	83.84	88.42
03-May-18 13:00:00	03-May-18 14:00:00		0.00	0.00	0.00	5.07	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	03-May-18 13:00:00		10.35	18.92	83.84	88.35
03-May-18 14:00:00	03-May-18 15:00:00		8.00	0.00	0.00	4.90	2.1	329.7		2.64	0.00	0.00	1.62		10.35	18.92	83.84	86.68	03-May-18 14:00:00		12.99	18.92	83.84	88.30
03-May-18 15:00:00	03-May-18 16:00:00		2.48	0.00	0.00	4.73	2.1	329.7		0.82	0.00	0.00	1.56		10.35	18.92	83.84	86.68	03-May-18 15:00:00		11.17	18.92	83.84	88.24
03-May-18 16:00:00	03-May-18 17:00:00		9.50	0.00	0.00	4.59	2.1	329.7		3.13	0.00	0.00	1.51		10.35	18.92	83.84	86.68	03-May-18 16:00:00		13.48	18.92	83.84	88.19
03-May-18 17:00:00	03-May-18 18:00:00		0.00	0.00	0.00	4.58	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	03-May-18 17:00:00		10.35	18.92	83.84	88.19
03-May-18 18:00:00	03-May-18 19:00:00		0.00	0.00	0.00	4.58	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	03-May-18 18:00:00		10.35	18.92	83.84	88.19
03-May-18 19:00:00	03-May-18 20:00:00		0.14	0.00	0.00	4.58	2.1	329.7		0.05	0.00	0.00	1.51		10.35	18.92	83.84	86.68	03-May-18 19:00:00		10.40	18.92	83.84	88.19
03-May-18 20:00:00	03-May-18 21:00:00		0.00	0.00	0.00	4.62	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	03-May-18 20:00:00		10.35	18.92	83.84	88.20
03-May-18 21:00:00	03-May-18 22:00:00		0.13	0.00	0.00	4.86	2.1	329.7		0.04	0.00	0.00	1.60		10.35	18.92	83.84	86.68	03-May-18 21:00:00		10.39	18.92	83.84	88.28
03-May-18 22:00:00	03-May-18 23:00:00		0.67	0.00	0.00	5.12	2.1	329.7		0.22	0.00	0.00	1.69		10.35	18.92	83.84	86.68	03-May-18 22:00:00		10.57	18.92	83.84	88.37
03-May-18 23:00:00	04-May-18 00:00:00		1.41	0.00	0.00	5.38	2.1	329.7		0.46	0.00	0.00	1.77		10.35	18.92	83.84	86.68	03-May-18 23:00:00		10.81	18.92	83.84	88.45
04-May-18 00:00:00	04-May-18 01:00:00		1.02	0.00	0.00	5.63	2.1	329.7		0.34	0.00	0.00	1.86		10.35	18.92	83.84	86.68	04-May-18 00:00:00		10.69	18.92	83.84	88.54
04-May-18 01:00:00	04-May-18 02:00:00		0.63	0.00	0.00	5.81	2.1	329.7		0.21	0.00	0.00	1.92		10.35	18.92	83.84	86.68	04-May-18 01:00:00		10.56	18.92	83.84	88.60
04-May-18 02:00:00	04-May-18 03:00:00		0.24	0.00	0.00	5.97	2.1	329.7		0.08	0.00	0.00	1.97		10.35	18.92	83.84	86.68	04-May-18 02:00:00		10.43	18.92	83.84	88.65
04-May-18 03:00:00	04-May-18 04:00:00		0.00	0.00	0.00	6.12	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	04-May-18 03:00:00		10.35	18.92	83.84	88.70
04-May-18 04:00:00	04-May-18 05:00:00		0.00	0.00	0.00	6.24	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	04-May-18 04:00:00		10.35	18.92	83.84	88.74
04-May-18 05:00:00	04-May-18 06:00:00		0.00

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
06-May-18 04:00:00	06-May-18 05:00:00		1,856.26	0.00	0.00	5.72	2.1	329.7		612.01	0.00	0.00	1.89		10.35	18.92	83.84	86.68	06-May-18 04:00:00		622.36	18.92	83.84	88.57
06-May-18 05:00:00	06-May-18 06:00:00		1,565.42	0.00	0.00	5.77	2.1	329.7		516.12	0.00	0.00	1.90		10.35	18.92	83.84	86.68	06-May-18 05:00:00		526.47	18.92	83.84	88.58
06-May-18 06:00:00	06-May-18 07:00:00		1,448.25	0.00	0.00	5.78	2.1	329.7		477.49	0.00	0.00	1.90		10.35	18.92	83.84	86.68	06-May-18 06:00:00		487.84	18.92	83.84	88.58
06-May-18 07:00:00	06-May-18 08:00:00		1,182.58	0.00	0.00	5.78	2.1	329.7		389.90	0.00	0.00	1.90		10.35	18.92	83.84	86.68	06-May-18 07:00:00		400.25	18.92	83.84	88.58
06-May-18 08:00:00	06-May-18 09:00:00		929.97	0.00	0.00	5.75	2.1	329.7		306.61	0.00	0.00	1.89		10.35	18.92	83.84	86.68	06-May-18 08:00:00		316.96	18.92	83.84	88.57
06-May-18 09:00:00	06-May-18 10:00:00		1,433.08	0.00	0.00	5.61	2.1	329.7		472.49	0.00	0.00	1.85		10.35	18.92	83.84	86.68	06-May-18 09:00:00		482.84	18.92	83.84	88.53
06-May-18 10:00:00	06-May-18 11:00:00		1,249.83	0.00	0.00	5.50	2.1	329.7		412.07	0.00	0.00	1.81		10.35	18.92	83.84	86.68	06-May-18 10:00:00		422.42	18.92	83.84	88.49
06-May-18 11:00:00	06-May-18 12:00:00		869.26	0.00	0.00	5.39	2.1	329.7		286.60	0.00	0.00	1.78		10.35	18.92	83.84	86.68	06-May-18 11:00:00		296.95	18.92	83.84	88.46
06-May-18 12:00:00	06-May-18 13:00:00		268.62	0.00	0.00	5.27	2.1	329.7		88.56	0.00	0.00	1.74		10.35	18.92	83.84	86.68	06-May-18 12:00:00		98.91	18.92	83.84	88.42
06-May-18 13:00:00	06-May-18 14:00:00		0.00	0.00	0.00	5.21	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	06-May-18 13:00:00		10.35	18.92	83.84	88.40
06-May-18 14:00:00	06-May-18 15:00:00		0.00	0.00	0.00	5.21	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	06-May-18 14:00:00		10.35	18.92	83.84	88.40
06-May-18 15:00:00	06-May-18 16:00:00		0.00	0.00	0.00	5.21	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	06-May-18 15:00:00		10.35	18.92	83.84	88.40
06-May-18 16:00:00	06-May-18 17:00:00		0.00	0.00	0.00	5.18	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	06-May-18 16:00:00		10.35	18.92	83.84	88.39
06-May-18 17:00:00	06-May-18 18:00:00		0.00	0.00	0.00	5.08	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	06-May-18 17:00:00		10.35	18.92	83.84	88.35
06-May-18 18:00:00	06-May-18 19:00:00		0.00	0.00	0.00	5.02	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	06-May-18 18:00:00		10.35	18.92	83.84	88.34
06-May-18 19:00:00	06-May-18 20:00:00		0.00	0.00	0.00	4.97	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	06-May-18 19:00:00		10.35	18.92	83.84	88.32
06-May-18 20:00:00	06-May-18 21:00:00		0.00	0.00	0.00	4.91	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	06-May-18 20:00:00		10.35	18.92	83.84	88.30
06-May-18 21:00:00	06-May-18 22:00:00		0.00	0.00	0.00	4.95	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	06-May-18 21:00:00		10.35	18.92	83.84	88.31
06-May-18 22:00:00	06-May-18 23:00:00		0.00	0.00	0.00	5.04	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	06-May-18 22:00:00		10.35	18.92	83.84	88.34
06-May-18 23:00:00	07-May-18 00:00:00		0.00	0.00	0.00	5.12	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	06-May-18 23:00:00		10.35	18.92	83.84	88.37
07-May-18 00:00:00	07-May-18 01:00:00		0.00	0.00	0.00	5.18	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	07-May-18 00:00:00		10.35	18.92	83.84	88.39
07-May-18 01:00:00	07-May-18 02:00:00		0.00	0.00	0.00	5.27	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	07-May-18 01:00:00		10.35	18.92	83.84	88.42
07-May-18 02:00:00	07-May-18 03:00:00		0.00	0.00	0.00	5.45	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	07-May-18 02:00:00		10.35	18.92	83.84	88.48
07-May-18 03:00:00	07-May-18 04:00:00		0.00	0.00	0.00	5.63	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	07-May-18 03:00:00		10.35	18.92	83.84	88.53
07-May-18 04:00:00	07-May-18 05:00:00		2.42	0.00	0.00	5.79	2.1	329.7		0.80	0.00	0.00	1.91		10.35	18.92	83.84	86.68	07-May-18 04:00:00		11.15	18.92	83.84	88.59
07-May-18 05:00:00	07-May-18 06:00:00		18.90	0.00	0.00	5.82	2.1	329.7		6.23	0.00	0.00	1.92		10.35	18.92	83.84	86.68	07-May-18 05:00:00		16.58	18.92	83.84	88.60
07-May-18 06:00:00	07-May-18 07:00:00		15.17	0.00	0.00	5.80	2.1	329.7		5.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	07-May-18 06:00:00		15.35	18.92	83.84	88.59
07-May-18 07:00:00	07-May-18 08:00:00		12.22	0.00	0.00	5.79	2.1	329.7		4.03	0.00	0.00	1.91		10.35	18.92	83.84	86.68	07-May-18 07:00:00		14.38	18.92	83.84	88.59
07-May-18 08:00:00	07-May-18 09:00:00		17.41	0.00	0.00	5.77	2.1	329.7		5.74	0.00	0.00	1.90		10.35	18.92	83.84	86.68	07-May-18 08:00:00		16.09	18.92	83.84	88.58
07-May-18 09:00:00	07-May-18 10:00:00		10.65	0.00	0.00	5.58	2.1	329.7		3.51	0.00	0.00	1.84		10.35	18.92	83.84	86.68	07-May-18 09:00:00		13.86	18.92	83.84	88.52
07-May-18 10:00:00	07-May-18 11:00:00		12.36	0.00	0.00	5.34	2.1	329.7		4.08	0.00	0.00	1.76		10.35	18.92	83.84	86.68	07-May-18 10:00:00		14.43	18.92	83.84	88.44
07-May-18 11:00:00	07-May-18 12:00:00		6.82	0.00	0.00	5.09	2.1	329.7		2.25	0.00	0.00	1.68		10.35	18.92	83.84	86.68	07-May-18 11:00:00		12.60	18.92	83.84	88.36
07-May-18 12:00:00	07-May-18 13:00:00		0.59	0.00	0.00	4.84	2.1	329.7		0.20	0.00	0.00	1.60		10.35	18.92	83.84	86.68	07-May-18 12:00:00		10.55	18.92	83.84	88.28
07-May-18 13:00:00	07-May-18 14:00:00		0.00	0.00	0.00	4.72	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	07-May-18 13:00:00		10.35	18.92	83.84	88.24
07-May-18 14:00:00	07-May-18 15:00:00		0.00	0.00	0.00	4.70	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	07-May-18 14:00:00		10.35	18.92	83.84	88.23
07-May-18 15:00:00	07-May-18 16:00:00		0.00	0.00	0.00	4.68	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	07-May-18 15:00:00		10.35	18.92	83.84	88.22
07-May-18 16:00:00	07-May-18 17:00:00		0.00	0.00	0.00	4.66	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	07-May-18 16:00:00		10.35	18.92	83.84	88.22
07-May-18 17:00:00	07-May-18 18:00:00		0.00	0.00	0.00	4.74	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	07-May-18 17:00:00		10.35	18.92	83.84	88.24
07-May-18 18:00:00	07-May-18 19:00:00		0.00	0.00	0.00	4.84	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	07-May-18 18:00:00		10.35	18.92	83.84	88.28
07-May-18 19:00:00	07-May-18 20:00:00		0.00	0.00	0.00	4.94	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	07-May-18 19:00:00		10.35	18.92	83.84	88.31
07-May-18 20:00:00	07-May-18 21:00:00		0.00	0.00	0.00	5.01	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	07-May-18 20:00:00		10.35	18.92	83.84	88.33
07-May-18 21:00:00	07-May-18 22:00:00		0.00	0.00	0.00	5.05	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	07-May-18 21:00:00		10.35	18.92	83.84	88.34
07-May-18 22:00:00	07-May-18 23:00:00		0.00	0.00	0.00	5.19	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	07-May-18 22:00:00		10.35	18.92	83.84	88.39
07-May-18 23:00:00	08-May-18 00:00:00		0.00	0.00	0.00	5.33	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	07-May-18 23:00:00		10.35	18.92	83.84	88.44
08-May-18 00:00:00	08-May-18 01:00:00		0.00	0.00	0.00	5.46	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	08-May-18 00:00:00		10.35	18.92	83.84	88.48
08-May-18 01:00:00	08-May-18 02:00:00		0.29	0.00	0.00	5.64	2.1	329.7		0.10	0.00	0.00	1.86		10.35	18.92	83.84	86.68	08-May-18 01:00:00		10.45	18.92	83.84	88.54
08-May-18 02:00:00	08-May-18 03:00:00		10.16	0.00	0.00	5.86	2.1	329.7		3.35	0.00	0.00	1.93		10.35	18.92	83.84	86.68	08-May-18 02:00:00		13.70	18.92	83.84	88.61
08-May-18 03:00:00	08-May-18 04:00:00		13.43	0.00	0.00	6.08	2.1	329.7		4.43	0.00	0.00	2.00		10.35	18.92	83.84	86.68	08-May-18 03:00:00		14.78	18.92	83.84	88.68
08-May-18 04:00:00	08-May-18 05:00:00		31.63	0.00	0.00	6.31	2.1	329.7		10.43	0.00	0.00	2.08		10.35	18.92	83.84	86.68	08-May-18 04:00:00		20.78	18.92	83.84	88.76
08-May-18 05:00:00	08-May-18 06:00:00		24.13	0.00	0.00	6.41	2.1	329.7		7.96	0.00	0.00	2.11		10.35	18.92	83.84	86.68	08-May-18 05:00:00		18.31	18.92	83.84	88.79
08-May-18 06:00:00	08-May-18 07:00:00		20.34	0.00	0.00	6.39	2.1	329.7		6.71	0.00	0.00	2.11		10.35	18.92	83.84	86.68	08-May-18 06:00:00		17.06	18.92	83.84	88.79
08-May-18 07:00:00	08-May-18 08:00:00		20.17	0.00	0.00	6.36	2.1	329.7		6.65	0.00	0.00	2.10		10.35	18.92	83.84	86.68	08-May-18 07:00:00		17.00	18.92	83.84	88.78
08-May-18 08:00:00	08-May-18 09:00:00		20.37	62.86	0.00	6.34	2.1	329.7		6.72	20.72	0.00	2.09		10.35	18.92	83.84	86.68	08-May-18 08:00:00		17.07	39.64	83.84	88.77
08-May-18 09:00:00	08-May-18 10:00:00		8.65	0.90	0.00	6.34	2.1	329.7		2.85	0.30	0.00	2.09		10.35	18.92	83.84	86.68	08-May-18 09:00:00		13.20	19.22	83.84	88.77
08-May-18 10:00:00	08-May-18 11:00:00		0.00	2.61	5.82	6.35	2.1	329.7		0.00	0.86	1.92	2.09		10.35	18.92	83.84	86.68	08-May-18 10:00:00		10.35	19.78	85.76	88.77
08-May-18 11:00:00	08-May-18 12:00:00		0.00	4.31	0.00	6.35	2.1	329.7		0.00	1.42	0.00	2.09		10.35	18.92	83.84	86.68	08-May-18 11:00:00		10.35	20.34	83.84	88.77
08-May-18 12:00:00	08-May-18 13:00:00		0.00	6.02	0.00	6.36	2.1	329.7		0.00	1.99	0.00	2.10		10.35	18.92	83.84	86.68	08-May-18 12:00:00		10.35	20.91	83.84	88.78
08-May-18 13:00:00	08-May-18 14:00:00		0.00	7.73	0.00	6.37	2.1	329.7		0.00	2.55	0.00	2.10		10.35	18.92	83.84	86.68	08-May-18 13:00:00		10.35	21.47	83.84	88.78
08-May-18 14:00:00	08-May-18 15:00:00		0.00	9.44	0.00	6.37	2.1	329.7		0.00	3.11	0.00	2.10		10.35	18.92	83.84	86.68	08-May-18 14:00:00		10.35	22.03	83.84	88.78
08-May-18 15:00:00	08-May-18 16:00:00		0.00	11.14	0.00	6.38	2.1	329.7		0.00	3.67	0.00	2.10		10.35	18.92	83.84	86.68	08-May-18 15:00:00		10.35	22.59	83.84	88.78
08-May-18 16:00:00	08-May-18 17:00:00		0.00	12.85	0.00	6.39	2.1	329.7		0.00	4.24	0.00	2.11		10.35	18.92	83.84	86.68	08-May-18 16:00:00		10.35	23.16	83.84	88.79
08-May-18 17:00:00	08-May-18 18:00:00		0.00	14.56	0.00	6.39	2.1	329.7		0.00	4.80	0.00	2.11		10.35	18.92	83.84	86.68	08-May-18 17:00:00		10.35	23.72	83.84	88.79
08-May-18 18:00:00	08-May-18 19:00:00		0.00	16.27	0.00	6.40	2.1	329.7		0.00	5.36	0.00	2.11		10.35	18.92	83.84	86.68	08-May-18 18:00:00		10.35	24.28	83.84	88.79
08-May-18 19:00:00	08-May-18 20:00:00		0.00	17.97	0.00	6.41	2.1	329.7		0.00	5.93	0.00	2.11		10.35	18.92	83.84	86.68	08-May-18 19:00:00		10.35	24.85	83.84	88.79
08-May-18 20:00:00	08-May-18 21:00:00		0.00	19.68	0.00	6.41	2.1	329.7		0.00	6.49	0.00	2.11		10.35	18.92	83.84	86.68	08-May-18 20:00:00		10.35	25.41	83.84	88.79
08-May-18 21:00:00	08-May-18 22:00:00		0.00	21.39	0.00	6.42	2.1	329.7		0.00	7.05	0.00	2.12		10.35	18.92	83.84	86.68	08-May-18 21:00:00		10.35	25.97	83.84	88.80
08-May-18 22:00:00	08-May-18 23:00:00		0.00	23.10	0.00	6.43	2.1	329.7		0.00	7.61	0.00	2.12		10.35	18.92	83.84	86.68	08-May-18 22:00:00		10.35	26.53	83.84	88.80
08-May-18 23:00:00	09-May-18 00:00:00		0.00	24.80	0.00	6.43	2.1	329.7		0.00	8.18	0.00	2.12		10.35	18.92	83.84	86.68	08-May-18 23:00:00		10.35	27.10	83.84	88.80
09-May-18 00:00:00	09-May-18 01:00:00		0.00	26.51	0.00	6.44	2.1	329.7		0.00	8.74	0.00	2.12		10.35	18.92	83.84	86.68	09-May-18 00:00:00		10.35	27.66	83.84	88.80
09-May-18 01:00:00	09-May-18 02:00:00		0.00	28.22	0.00	6.45	2.1	329.7		0.00	9.30	0.00	2.13		10.35	18.92	83.84	86.68	09-May-18 01:00:00		10.35	28.22	83.84	88.81
09-May-18 02:00:00	09-May-18 03:00:00		0.00	29.93	0.00	6.45	2.1	329.7		0.00	9.87	0.00	2.13		10.35	18.92	83.84	86.68	09-May-18 02:00:00		10.35	28.79	83.84	88.81
09-May-18 03:00:00	09-May-18 04:00:00		0.00	31.63	0.00	6.46	2.1	329.7		0.00	10.43	0.00	2.13		10.35	18.92	83.84	86.68	09-May-18 03:00:00		10.35	29.35	83.84	88.81
09-May-18 04:00:00	09-May-18 05:00:00		0.00	33.34	0.00	6.47	2.1	329.7		0.00	10.99	0.00	2.13		10.35	18.92	83.84	86.68	09-May-18 04:00:00		10.35	29.91	83.84	88.81
09-May-18 05:00:00	09-May-18 06:00:00		0.00	35.05	0.00	6.47	2.1	329.7		0.00	11.56	0.00	2.13		10.35	18.92	83.84	86.68	09-May-18 05:00:00		10.35	30.48	83.84	88.81
09-May-18 06:00:00	09-May-18 07:00:00		0.00	36.75	0.00	6.48	2.1	329.7		0.00	12.12	0.00	2.14		10.35	18.92	83.84	86.68	09-May-18 06:00:00		10.35	31.04	83.84	88.82
09-May-18 07:00:00	09-May-18 08:00:00		0.00	38.46	0.00	6.49	2.1	329.7		0.00	12.68	0.00	2.14		10.35	18.92	83.84	86.68	09-May-18 07:00:00		10.35	31.60	83.84	88.82
09-May-18 08:00:00	09-May-18 09:00:00		0.00	40.17	0.00	6.49	2.1	329.7		0.00	13.24	0.00	2.14		10.35	18.92	83.84	86.68	09-May-18 08:00:00		10.35	32.16	83.84	88.82
09-May-18 09:00:00	09-May-18 10:00:00		0.00	41.88	0.00	6.50	2.1	329.7		0.00	13.81	0.00	2.14		10.35	18.92	83.84	86.68	09-May-18 09:00:00		10.35	32.73	83.84	88.82
09-May-18 10:00:00	09-May-18 11:00:00		0.00	43.58	0.00	6.51	2.1	329.7		0.00	14.37	0.00	2.14		10.35	18.92	83.84	86.68	09-May-18 10:00:00		10.35	33.29	83.84	88.82
09-May-18 11:00:00	09-May-18 12:00:00		0.00	45.29	0.00	6.51	2.1	329.7		0.00	14.93	0.00	2.15		10.35	18.92	83.84	86.68	09-May-18 11:00:00		10.35	33.85	83.84	88.83
09-May-18 12:00:00	09-May-18 13:00:00		0.00	47.00	0.00	6.52	2.1	329.7		0.00	15.50	0.00	2.15		10.35	18.92	83.84	86.68	09-May-18 12:00:00		10.35	34.42	83.84	88.83
09-May-18 13:00:00	09-May-18 14:00:00		0.00	48.71	0.00	6.53	2.1	329.7		0.00	16.06	0.00	2.15		10.35	18.92	83.84	86.68	09-May-18 13:00:00		10.35	34.98	83.84	88.83
09-May-18 14:00:00	09-May-18 15:00:00		0.00	50.41	0.00	6.53	2.1	329.7		0.00	16.62	0.00	2.15		10.35	18.92	83.84	86.68	09-May-18 14:00:00		10.35	35.54	83.84	88.83
09-May-18 15:00:00	09-May-18 16:00:00		0.00	52.12	0.00	6.54	2.1	329.7		0.00	17.18	0.00	2.16		10.35	18.92	83.84	86.68	09-May-18 15:00:00		10.35	36.10	83.84	88.84
09-May-18 16:00:00	09-May-18 17:00:00		0.00	53.83	0.00	6.55	2.1	329.7		0.00	17.75	0.00	2.16		10.35	18.92	83.84	86.68	09-May-18 16:00:00		10.35	36.67	83.84	88.84
09-May-18 17:00:00	09-May-18 18:00:00		0.00	55.54	0.00	6.55	2.1	329.7		0.00	18.31	0.00	2.16		10.35	18.92	83.84	86.68	09-May-18 17:00:00		10.35	37.23	83.84	88.84
09-May-18 18:00:00	09-May-18 19:00:00		0.00	57.24	0.00	6.56	2.1	329.7		0.00	18.87	0.00	2.16		10.35	18.92	83.84	86.68	09-May-18 18:00:00		10.35	37.79	83.84	88.84
09-May-18 19:00:00	09-May-18 20:00:00		0.00	58.95	0.00	6.57	2.1	329.7		0.00	19.44	0.00	2.16		10.35	18.92	83.84	86.68	09-May-18 19:00:00		10.35	38.36	83.84	88.84
09-May-18 20:00:00	09-May-18 21:00:00		0.00	60.66	0.00	6.57	2.1	329.7		0.00	20.00	0.00	2.17		10.35	18.92	83.84	86.68	09-May-18 20:00:00		10.35	38.92	83.84	88.85
09-May-18 21:00:00	09-May-18 22:00:00		0.00	62.37	0.00	6.58	2.1	329.7		0.00	20.56	0.00	2.17		10.35	18.92	83.84	86.68	09-May-18 21:00:00		10.35	39.48	83.84	88.85
09-May-18 22:00:00	09-May-18 23:00:00		0.00	64.07	0.00	6.59	2.1	329.7		0.00	21.12	0.00	2.17		10.35	18.92	83.84	86.68	09-May-18 22:00:00		10.35	40.04	83.84	88.85
09-May-18 23:00:00	10-May-18 00:00:00		0.00	65.78	0.00	6.59	2.1	329.7		0.00	21.69	0.00	2.17		10.35	18.92	83.84	86.68	09-May-18 23:00:00		10.35	40.61	83.84	88.85
10-May-18 00:00:00	10-May-18 01:00:00		0.00	67.49	0.00	6.60	2.1	329.7		0.00	22.25	0.00	2.18		10.35	18.92	83.84	86.68	10-May-18 00:00:00		10.35	41.17	83.84	88.86
10-May-18 01:00:00	10-May-18 02:00:00		0.00	69.20	0.00	6.61	2.1	329.7		0.00	22.81	0.00	2.18		10.35	18.92	83.84	86.68	10-May-18 01:00:00		10.35	41.73	83.84	88.86
10-May-18 02:00:00	10-May-18 03:00:00		0.00	70.90	0.00	6.61	2.1	329.7		0.00	23.38	0.00	2.18		10.35	18.92	83.84	86.68	10-May-18 02:00:00		10.35	42.30	83.84	88.86
10-May-18 03:00:00	10-May-18 04:00:00		0.00	72.61	0.00	6.62	2.1	329.7		0.00	23.94	0.00	2.18		10.35	18.92	83.84	86.68	10-May-18 03:00:00		10.35	42.86	83.84	88.86
10-May-18 04:00:00	10-May-18 05:00:00		0.00	74.32	0.00	6.63	2.1	329.7		0.00	24.50	0.00	2.18		10.35	18.92	83.84	86.68	10-May-18 04:00:00		10.35

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
12-May-18 03:00:00	12-May-18 04:00:00		0.00	0.00	0.17	5.86	2.1	329.7		0.00	0.00	0.06	1.93		10.35	18.92	83.84	86.68	12-May-18 03:00:00		10.35	18.92	83.90	88.61
12-May-18 04:00:00	12-May-18 05:00:00		0.00	0.00	0.49	5.94	2.1	329.7		0.00	0.00	0.16	1.96		10.35	18.92	83.84	86.68	12-May-18 04:00:00		10.35	18.92	84.00	88.64
12-May-18 05:00:00	12-May-18 06:00:00		0.00	0.00	0.00	5.96	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	12-May-18 05:00:00		10.35	18.92	83.84	88.65
12-May-18 06:00:00	12-May-18 07:00:00		0.00	0.00	0.00	5.98	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	12-May-18 06:00:00		10.35	18.92	83.84	88.65
12-May-18 07:00:00	12-May-18 08:00:00		26.58	0.00	0.00	6.00	2.1	329.7		8.76	0.00	0.00	1.98		10.35	18.92	83.84	86.68	12-May-18 07:00:00		19.11	18.92	83.84	88.66
12-May-18 08:00:00	12-May-18 09:00:00		97.94	0.00	0.00	5.86	2.1	329.7		32.29	0.00	0.00	1.93		10.35	18.92	83.84	86.68	12-May-18 08:00:00		42.64	18.92	83.84	88.61
12-May-18 09:00:00	12-May-18 10:00:00		109.37	0.00	0.00	5.50	2.1	329.7		36.06	0.00	0.00	1.81		10.35	18.92	83.84	86.68	12-May-18 09:00:00		46.41	18.92	83.84	88.49
12-May-18 10:00:00	12-May-18 11:00:00		556.85	1.12	0.00	5.15	2.1	329.7		183.60	0.37	0.00	1.70		10.35	18.92	83.84	86.68	12-May-18 10:00:00		193.95	19.29	83.84	88.38
12-May-18 11:00:00	12-May-18 12:00:00		586.13	0.00	0.00	4.81	2.1	329.7		193.25	0.00	0.00	1.59		10.35	18.92	83.84	86.68	12-May-18 11:00:00		203.60	18.92	83.84	88.27
12-May-18 12:00:00	12-May-18 13:00:00		1,001.35	0.00	0.00	4.59	2.1	329.7		330.15	0.00	0.00	1.51		10.35	18.92	83.84	86.68	12-May-18 12:00:00		340.50	18.92	83.84	88.19
12-May-18 13:00:00	12-May-18 14:00:00		1,223.35	0.00	0.00	4.38	2.1	329.7		403.34	0.00	0.00	1.44		10.35	18.92	83.84	86.68	12-May-18 13:00:00		413.69	18.92	83.84	88.12
12-May-18 14:00:00	12-May-18 15:00:00		1,417.26	0.00	0.00	4.18	2.1	329.7		467.27	0.00	0.00	1.38		10.35	18.92	83.84	86.68	12-May-18 14:00:00		477.62	18.92	83.84	88.06
12-May-18 15:00:00	12-May-18 16:00:00		1,347.07	0.00	0.00	3.98	2.1	329.7		444.13	0.00	0.00	1.31		10.35	18.92	83.84	86.68	12-May-18 15:00:00		454.48	18.92	83.84	87.99
12-May-18 16:00:00	12-May-18 17:00:00		1,734.30	0.00	0.00	3.95	2.1	329.7		571.80	0.00	0.00	1.30		10.35	18.92	83.84	86.68	12-May-18 16:00:00		582.15	18.92	83.84	87.98
12-May-18 17:00:00	12-May-18 18:00:00		1,721.41	0.00	0.00	3.93	2.1	329.7		567.55	0.00	0.00	1.30		10.35	18.92	83.84	86.68	12-May-18 17:00:00		577.90	18.92	83.84	87.98
12-May-18 18:00:00	12-May-18 19:00:00		1,702.88	0.00	0.00	3.89	2.1	329.7		561.44	0.00	0.00	1.28		10.35	18.92	83.84	86.68	12-May-18 18:00:00		571.79	18.92	83.84	87.96
12-May-18 19:00:00	12-May-18 20:00:00		1,744.36	0.00	0.00	3.85	2.1	329.7		575.12	0.00	0.00	1.27		10.35	18.92	83.84	86.68	12-May-18 19:00:00		585.47	18.92	83.84	87.95
12-May-18 20:00:00	12-May-18 21:00:00		1,572.47	0.00	0.00	3.92	2.1	329.7		518.44	0.00	0.00	1.29		10.35	18.92	83.84	86.68	12-May-18 20:00:00		528.79	18.92	83.84	87.97
12-May-18 21:00:00	12-May-18 22:00:00		1,588.73	0.00	0.00	4.19	2.1	329.7		523.81	0.00	0.00	1.38		10.35	18.92	83.84	86.68	12-May-18 21:00:00		534.16	18.92	83.84	88.06
12-May-18 22:00:00	12-May-18 23:00:00		1,647.76	0.00	0.00	4.45	2.1	329.7		543.27	0.00	0.00	1.47		10.35	18.92	83.84	86.68	12-May-18 22:00:00		553.62	18.92	83.84	88.15
12-May-18 23:00:00	13-May-18 00:00:00		1,744.13	0.00	0.00	4.67	2.1	329.7		575.04	0.00	0.00	1.54		10.35	18.92	83.84	86.68	12-May-18 23:00:00		585.39	18.92	83.84	88.22
13-May-18 00:00:00	13-May-18 01:00:00		1,677.37	0.00	0.00	4.90	2.1	329.7		553.03	0.00	0.00	1.61		10.35	18.92	83.84	86.68	13-May-18 00:00:00		563.38	18.92	83.84	88.29
13-May-18 01:00:00	13-May-18 02:00:00		1,742.21	0.00	0.00	5.08	2.1	329.7		574.41	0.00	0.00	1.68		10.35	18.92	83.84	86.68	13-May-18 01:00:00		584.76	18.92	83.84	88.36
13-May-18 02:00:00	13-May-18 03:00:00		1,587.11	0.00	0.00	5.21	2.1	329.7		523.27	0.00	0.00	1.72		10.35	18.92	83.84	86.68	13-May-18 02:00:00		533.62	18.92	83.84	88.40
13-May-18 03:00:00	13-May-18 04:00:00		1,569.97	0.00	0.00	5.32	2.1	329.7		517.62	0.00	0.00	1.75		10.35	18.92	83.84	86.68	13-May-18 03:00:00		527.97	18.92	83.84	88.43
13-May-18 04:00:00	13-May-18 05:00:00		1,191.70	0.00	0.00	5.32	2.1	329.7		392.90	0.00	0.00	1.75		10.35	18.92	83.84	86.68	13-May-18 04:00:00		403.25	18.92	83.84	88.43
13-May-18 05:00:00	13-May-18 06:00:00		1,224.90	0.00	0.00	5.32	2.1	329.7		403.85	0.00	0.00	1.75		10.35	18.92	83.84	86.68	13-May-18 05:00:00		414.20	18.92	83.84	88.43
13-May-18 06:00:00	13-May-18 07:00:00		1,340.84	0.00	0.00	5.33	2.1	329.7		442.07	0.00	0.00	1.76		10.35	18.92	83.84	86.68	13-May-18 06:00:00		452.42	18.92	83.84	88.44
13-May-18 07:00:00	13-May-18 08:00:00		1,401.86	0.00	0.00	5.36	2.1	329.7		462.19	0.00	0.00	1.77		10.35	18.92	83.84	86.68	13-May-18 07:00:00		472.54	18.92	83.84	88.45
13-May-18 08:00:00	13-May-18 09:00:00		1,526.91	0.00	0.00	5.52	2.1	329.7		503.42	0.00	0.00	1.82		10.35	18.92	83.84	86.68	13-May-18 08:00:00		513.77	18.92	83.84	88.50
13-May-18 09:00:00	13-May-18 10:00:00		1,170.67	0.00	0.00	5.27	2.1	329.7		385.97	0.00	0.00	1.74		10.35	18.92	83.84	86.68	13-May-18 09:00:00		396.32	18.92	83.84	88.42
13-May-18 10:00:00	13-May-18 11:00:00		1,010.66	0.00	0.00	4.95	2.1	329.7		333.21	0.00	0.00	1.63		10.35	18.92	83.84	86.68	13-May-18 10:00:00		343.56	18.92	83.84	88.31
13-May-18 11:00:00	13-May-18 12:00:00		966.54	0.00	0.00	4.62	2.1	329.7		318.67	0.00	0.00	1.52		10.35	18.92	83.84	86.68	13-May-18 11:00:00		329.02	18.92	83.84	88.20
13-May-18 12:00:00	13-May-18 13:00:00		1,184.40	0.00	0.00	4.36	2.1	329.7		390.50	0.00	0.00	1.44		10.35	18.92	83.84	86.68	13-May-18 12:00:00		400.85	18.92	83.84	88.12
13-May-18 13:00:00	13-May-18 14:00:00		1,076.75	0.00	0.00	4.19	2.1	329.7		355.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	13-May-18 13:00:00		365.35	18.92	83.84	88.06
13-May-18 14:00:00	13-May-18 15:00:00		1,147.27	0.00	0.00	4.02	2.1	329.7		378.25	0.00	0.00	1.33		10.35	18.92	83.84	86.68	13-May-18 14:00:00		388.60	18.92	83.84	88.01
13-May-18 15:00:00	13-May-18 16:00:00		1,208.87	0.00	0.00	3.83	2.1	329.7		398.57	0.00	0.00	1.26		10.35	18.92	83.84	86.68	13-May-18 15:00:00		408.92	18.92	83.84	87.94
13-May-18 16:00:00	13-May-18 17:00:00		859.63	0.00	0.00	3.69	2.1	329.7		283.42	0.00	0.00	1.22		10.35	18.92	83.84	86.68	13-May-18 16:00:00		293.77	18.92	83.84	87.90
13-May-18 17:00:00	13-May-18 18:00:00		615.40	0.00	0.00	3.61	2.1	329.7		202.90	0.00	0.00	1.19		10.35	18.92	83.84	86.68	13-May-18 17:00:00		213.25	18.92	83.84	87.87
13-May-18 18:00:00	13-May-18 19:00:00		338.27	0.00	0.00	3.73	2.1	329.7		111.53	0.00	0.00	1.23		10.35	18.92	83.84	86.68	13-May-18 18:00:00		121.88	18.92	83.84	87.91
13-May-18 19:00:00	13-May-18 20:00:00		392.03	0.00	0.00	3.82	2.1	329.7		129.25	0.00	0.00	1.26		10.35	18.92	83.84	86.68	13-May-18 19:00:00		139.60	18.92	83.84	87.94
13-May-18 20:00:00	13-May-18 21:00:00		357.44	0.00	0.00	4.07	2.1	329.7		117.85	0.00	0.00	1.34		10.35	18.92	83.84	86.68	13-May-18 20:00:00		128.20	18.92	83.84	88.02
13-May-18 21:00:00	13-May-18 22:00:00		348.11	0.00	0.00	4.40	2.1	329.7		114.77	0.00	0.00	1.45		10.35	18.92	83.84	86.68	13-May-18 21:00:00		125.12	18.92	83.84	88.13
13-May-18 22:00:00	13-May-18 23:00:00		375.47	0.00	0.00	4.79	2.1	329.7		123.79	0.00	0.00	1.58		10.35	18.92	83.84	86.68	13-May-18 22:00:00		134.14	18.92	83.84	88.26
13-May-18 23:00:00	14-May-18 00:00:00		444.44	0.00	0.00	14.92	2.1	329.7		146.53	0.00	0.00	4.92		10.35	18.92	83.84	86.68	13-May-18 23:00:00		156.88	18.92	83.84	91.60
14-May-18 00:00:00	14-May-18 01:00:00		459.14	0.00	0.00	5.17	2.1	329.7		151.38	0.00	0.00	1.70		10.35	18.92	83.84	86.68	14-May-18 00:00:00		161.73	18.92	83.84	88.38
14-May-18 01:00:00	14-May-18 02:00:00		455.57	0.00	0.00	5.20	2.1	329.7		150.20	0.00	0.00	1.72		10.35	18.92	83.84	86.68	14-May-18 01:00:00		160.55	18.92	83.84	88.40
14-May-18 02:00:00	14-May-18 03:00:00		335.66	0.00	0.00	5.24	2.1	329.7		110.67	0.00	0.00	1.73		10.35	18.92	83.84	86.68	14-May-18 02:00:00		121.02	18.92	83.84	88.41
14-May-18 03:00:00	14-May-18 04:00:00		601.03	0.00	0.00	5.31	2.1	329.7		198.16	0.00	0.00	1.75		10.35	18.92	83.84	86.68	14-May-18 03:00:00		208.51	18.92	83.84	88.43
14-May-18 04:00:00	14-May-18 05:00:00		463.40	0.00	0.00	5.31	2.1	329.7		152.78	0.00	0.00	1.75		10.35	18.92	83.84	86.68	14-May-18 04:00:00		163.13	18.92	83.84	88.43
14-May-18 05:00:00	14-May-18 06:00:00		379.72	0.00	0.00	5.28	2.1	329.7		125.19	0.00	0.00	1.74		10.35	18.92	83.84	86.68	14-May-18 05:00:00		135.54	18.92	83.84	88.42
14-May-18 06:00:00	14-May-18 07:00:00		119.43	0.00	0.00	26.25	2.1	329.7		39.38	0.00	0.00	8.65		10.35	18.92	83.84	86.68	14-May-18 06:00:00		49.73	18.92	83.84	95.33
14-May-18 07:00:00	14-May-18 08:00:00		0.48	0.00	0.00	5.48	2.1	329.7		0.16	0.00	0.00	1.81		10.35	18.92	83.84	86.68	14-May-18 07:00:00		10.51	18.92	83.84	88.49
14-May-18 08:00:00	14-May-18 09:00:00		0.07	0.00	0.00	6.58	2.1	329.7		0.02	0.00	0.00	2.17		10.35	18.92	83.84	86.68	14-May-18 08:00:00		10.37	18.92	83.84	88.85
14-May-18 09:00:00	14-May-18 10:00:00		0.00	0.00	0.00	6.39	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	14-May-18 09:00:00		10.35	18.92	83.84	88.79
14-May-18 10:00:00	14-May-18 11:00:00		0.06	90.20	0.00	5.67	2.1	329.7		0.02	29.74	0.00	1.87		10.35	18.92	83.84	86.68	14-May-18 10:00:00		10.37	48.66	83.84	88.55
14-May-18 11:00:00	14-May-18 12:00:00		0.00	0.00	0.00	4.85	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	14-May-18 11:00:00		10.35	18.92	83.84	88.28
14-May-18 12:00:00	14-May-18 13:00:00		0.64	3.18	0.00	4.66	2.1	329.7		0.21	1.05	0.00	1.54		10.35	18.92	83.84	86.68	14-May-18 12:00:00		10.56	19.97	83.84	88.22
14-May-18 13:00:00	14-May-18 14:00:00		2.40	0.00	0.00	4.17	2.1	329.7		0.79	0.00	0.00	1.37		10.35	18.92	83.84	86.68	14-May-18 13:00:00		11.14	18.92	83.84	88.05
14-May-18 14:00:00	14-May-18 15:00:00		4.58	0.00	0.00	4.07	2.1	329.7		1.51	0.00	0.00	1.34		10.35	18.92	83.84	86.68	14-May-18 14:00:00		11.86	18.92	83.84	88.02
14-May-18 15:00:00	14-May-18 16:00:00		0.56	0.00	0.00	3.97	2.1	329.7		0.18	0.00	0.00	1.31		10.35	18.92	83.84	86.68	14-May-18 15:00:00		10.53	18.92	83.84	87.99
14-May-18 16:00:00	14-May-18 17:00:00		0.51	0.00	0.00	3.85	2.1	329.7		0.17	0.00	0.00	1.27		10.35	18.92	83.84	86.68	14-May-18 16:00:00		10.52	18.92	83.84	87.95
14-May-18 17:00:00	14-May-18 18:00:00		0.00	0.00	0.00	3.75	2.1	329.7		0.00	0.00	0.00	1.24		10.35	18.92	83.84	86.68	14-May-18 17:00:00		10.35	18.92	83.84	87.92
14-May-18 18:00:00	14-May-18 19:00:00		0.00	0.00	0.00	4.08	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	14-May-18 18:00:00		10.35	18.92	83.84	88.03
14-May-18 19:00:00	14-May-18 20:00:00		0.00	0.00	0.00	3.98	2.1	329.7		0.00	0.00	0.00	1.31		10.35	18.92	83.84	86.68	14-May-18 19:00:00		10.35	18.92	83.84	87.99
14-May-18 20:00:00	14-May-18 21:00:00		0.00	0.00	0.00	4.33	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	14-May-18 20:00:00		10.35	18.92	83.84	88.11
14-May-18 21:00:00	14-May-18 22:00:00		0.00	0.00	0.00	4.94	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	14-May-18 21:00:00		10.35	18.92	83.84	88.31
14-May-18 22:00:00	14-May-18 23:00:00		0.00	0.00	0.00	4.68	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	14-May-18 22:00:00		10.35	18.92	83.84	88.22
14-May-18 23:00:00	15-May-18 00:00:00		0.82	0.00	0.00	4.75	2.1	329.7		0.27	0.00	0.00	1.57		10.35	18.92	83.84	86.68	14-May-18 23:00:00		10.62	18.92	83.84	88.25
15-May-18 00:00:00	15-May-18 01:00:00		1.43	473.07	0.00	37.17	2.1	329.7		0.47	155.97	0.00	12.26		10.35	18.92	83.84	86.68	15-May-18 00:00:00		10.82	174.89	83.84	98.94
15-May-18 01:00:00	15-May-18 02:00:00		299.54	590.86	0.00	4.98	2.1	329.7		98.76	194.81	0.00	1.64		10.35	18.92	83.84	86.68	15-May-18 01:00:00		109.11	213.73	83.84	88.32
15-May-18 02:00:00	15-May-18 03:00:00		279.62	1,114.90	0.00	5.50	2.1	329.7		92.19	367.58	0.00	1.81		10.35	18.92	83.84	86.68	15-May-18 02:00:00		102.54	386.50	83.84	88.49
15-May-18 03:00:00	15-May-18 04:00:00		0.00	1,117.35	0.00	5.59	2.1	329.7		0.00	368.39	0.00	1.84		10.35	18.92	83.84	86.68	15-May-18 03:00:00		10.35	387.31	83.84	88.52
15-May-18 04:00:00	15-May-18 05:00:00		152.07	1,077.22	0.00	5.37	2.1	329.7		50.14	355.16	0.00	1.77		10.35	18.92	83.84	86.68	15-May-18 04:00:00		60.49	374.08	83.84	88.45
15-May-18 05:00:00	15-May-18 06:00:00		276.38	1,186.02	0.00	5.84	2.1	329.7		91.12	391.03	0.00	1.93		10.35	18.92	83.84	86.68	15-May-18 05:00:00		101.47	409.95	83.84	88.61
15-May-18 06:00:00	15-May-18 07:00:00		210.54	1,181.80	0.00	5.49	2.1	329.7		69.42	389.64	0.00	1.81		10.35	18.92	83.84	86.68	15-May-18 06:00:00		79.77	408.56	83.84	88.49
15-May-18 07:00:00	15-May-18 08:00:00		222.96	1,180.76	0.00	22.97	2.1	329.7		73.51	389.30	0.00	7.57		10.35	18.92	83.84	86.68	15-May-18 07:00:00		83.86	408.22	83.84	94.25
15-May-18 08:00:00	15-May-18 09:00:00		226.89	1,181.36	0.00	5.44	2.1	329.7		74.81	389.50	0.00	1.79		10.35	18.92	83.84	86.68	15-May-18 08:00:00		85.16	408.42	83.84	88.47
15-May-18 09:00:00	15-May-18 10:00:00		254.59	1,182.21	0.00	5.19	2.1	329.7		83.94	389.77	0.00	1.71		10.35	18.92	83.84	86.68	15-May-18 09:00:00		94.29	408.69	83.84	88.39
15-May-18 10:00:00	15-May-18 11:00:00		297.35	1,219.05	0.00	4.93	2.1	329.7		98.04	401.92	0.00	1.63		10.35	18.92	83.84	86.68	15-May-18 10:00:00		108.39	420.84	83.84	88.31
15-May-18 11:00:00	15-May-18 12:00:00		297.75	1,236.04	0.00	4.85	2.1	329.7		98.17	407.52	0.00	1.60		10.35	18.92	83.84	86.68	15-May-18 11:00:00		108.52	426.44	83.84	88.28
15-May-18 12:00:00	15-May-18 13:00:00		304.32	1,204.40	0.00	5.07	2.1	329.7		100.34	397.09	0.00	1.67		10.35	18.92	83.84	86.68	15-May-18 12:00:00		110.69	416.01	83.84	88.35
15-May-18 13:00:00	15-May-18 14:00:00		309.70	1,181.26	0.00	5.25	2.1	329.7		102.11	389.46	0.00	1.73		10.35	18.92	83.84	86.68	15-May-18 13:00:00		112.46	408.38	83.84	88.41
15-May-18 14:00:00	15-May-18 15:00:00		316.46	910.24	0.00	5.43	2.1	329.7		104.34	300.11	0.00	1.79		10.35	18.92	83.84	86.68	15-May-18 14:00:00		114.69	319.03	83.84	88.47
15-May-18 15:00:00	15-May-18 16:00:00		19.70	683.38	0.00	5.57	2.1	329.7		6.50	225.31	0.00	1.84		10.35	18.92	83.84	86.68	15-May-18 15:00:00		16.85	244.23	83.84	88.52
15-May-18 16:00:00	15-May-18 17:00:00		26.26	231.80	0.00	115.31	2.1	329.7		8.66	76.43	0.00	38.02		10.35	18.92	83.84	86.68	15-May-18 16:00:00		19.01	95.35	83.84	124.70
15-May-18 17:00:00	15-May-18 18:00:00		25.63	222.61	0.00	5.41	2.1	329.7		8.45	73.40	0.00	1.78		10.35	18.92	83.84	86.68	15-May-18 17:00:00		18.80	92.32	83.84	88.46
15-May-18 18:00:00	15-May-18 19:00:00		2.43	9.96	0.00	5.40	2.1	329.7		0.80	3.28	0.00	1.78		10.35	18.92	83.84	86.68	15-May-18 18:00:00		11.15	22.20	83.84	88.46
15-May-18 19:00:00	15-May-18 20:00:00		0.00	0.00	0.00	5.38	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	15-May-18 19:00:00		10.35	18.92	83.84	88.46
15-May-18 20:00:00	15-May-18 21:00:00		0.00	0.00	0.00	5.38	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	15-May-18 20:00:00		10.35	18.92	83.84	88.45
15-May-18 21:00:00	15-May-18 22:00:00		0.00	0.00	0.00	5.47	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	15-May-18 21:00:00		10.35	18.92	83.84	88.48
15-May-18 22:00:00	15-May-18 23:00:00		0.00	0.00	0.00	5.56	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	15-May-18 22:00:00		10.35	18.92	83.84	88.51
15-May-18 23:00:00	16-May-18 00:00:00		0.00	0.00	0.00	5.65	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	15-May-18 23:00:00		10.35	18.92	83.84	88.54
16-May-18 00:00:00	16-May-18 01:00:00		0.00	0.00	0.00	5.71	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	16-May-18 00:00:00		10.35	18.92	83.84	88.56
16-May-18 01:00:00	16-May-18 02:00:00		0.00	0.00	0.00	5.69	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	16-May-18 01:00:00		10.35	18.92	83.84	88.56
16-May-18 02:00:00	16-May-18 03:00:00		0.00	0.00	0.00	5.72	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	16-May-18 02:00:00		10.35	18.92	83.84	88.56
16-May-18 03:00:00	16-May-18 04:00:00		0.00	0.00	0.00	5.75	2.1	329.7		0.

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
18-May-18 02:00:00	18-May-18 03:00:00		0.00	0.00	0.00	5.22	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	18-May-18 02:00:00		**10.35**	**18.92**	**83.84**	**88.40**
18-May-18 03:00:00	18-May-18 04:00:00		0.00	0.00	0.00	4.96	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	18-May-18 03:00:00		**10.35**	**18.92**	**83.84**	**88.32**
18-May-18 04:00:00	18-May-18 05:00:00		0.00	0.00	0.00	4.91	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	18-May-18 04:00:00		**10.35**	**18.92**	**83.84**	**88.30**
18-May-18 05:00:00	18-May-18 06:00:00		0.00	0.00	0.00	5.00	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	18-May-18 05:00:00		**10.35**	**18.92**	**83.84**	**88.33**
18-May-18 06:00:00	18-May-18 07:00:00		0.00	0.00	0.00	4.93	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	18-May-18 06:00:00		**10.35**	**18.92**	**83.84**	**88.31**
18-May-18 07:00:00	18-May-18 08:00:00		0.00	0.00	0.00	4.87	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	18-May-18 07:00:00		**10.35**	**18.92**	**83.84**	**88.28**
18-May-18 08:00:00	18-May-18 09:00:00		0.00	0.00	0.00	4.80	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	18-May-18 08:00:00		**10.35**	**18.92**	**83.84**	**88.26**
18-May-18 09:00:00	18-May-18 10:00:00		0.00	0.00	0.00	4.73	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	18-May-18 09:00:00		**10.35**	**18.92**	**83.84**	**88.24**
18-May-18 10:00:00	18-May-18 11:00:00		0.00	0.00	0.00	4.66	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	18-May-18 10:00:00		**10.35**	**18.92**	**83.84**	**88.22**
18-May-18 11:00:00	18-May-18 12:00:00		0.00	0.00	0.00	115.08	2.1	329.7		0.00	0.00	0.00	37.94		10.35	18.92	83.84	86.68	18-May-18 11:00:00		**10.35**	**18.92**	**83.84**	**124.62**
18-May-18 12:00:00	18-May-18 13:00:00		238.66	0.00	0.00	5.04	2.1	329.7		78.68	0.00	0.00	1.66		10.35	18.92	83.84	86.68	18-May-18 12:00:00		**89.03**	**18.92**	**83.84**	**88.34**
18-May-18 13:00:00	18-May-18 14:00:00		595.32	0.00	0.00	4.89	2.1	329.7		196.28	0.00	0.00	1.61		10.35	18.92	83.84	86.68	18-May-18 13:00:00		**206.63**	**18.92**	**83.84**	**88.29**
18-May-18 14:00:00	18-May-18 15:00:00		628.21	0.00	0.00	82.38	2.1	329.7		207.12	0.00	0.00	27.16		10.35	18.92	83.84	86.68	18-May-18 14:00:00		**217.47**	**18.92**	**83.84**	**113.84**
18-May-18 15:00:00	18-May-18 16:00:00		652.85	0.00	0.00	4.93	2.1	329.7		215.25	0.00	0.00	1.63		10.35	18.92	83.84	86.68	18-May-18 15:00:00		**225.60**	**18.92**	**83.84**	**88.31**
18-May-18 16:00:00	18-May-18 17:00:00		648.97	0.00	0.00	5.05	2.1	329.7		213.96	0.00	0.00	1.66		10.35	18.92	83.84	86.68	18-May-18 16:00:00		**224.31**	**18.92**	**83.84**	**88.34**
18-May-18 17:00:00	18-May-18 18:00:00		645.31	0.00	0.00	10.48	2.1	329.7		212.76	0.00	0.00	3.46		10.35	18.92	83.84	86.68	18-May-18 17:00:00		**223.11**	**18.92**	**83.84**	**90.14**
18-May-18 18:00:00	18-May-18 19:00:00		670.17	0.00	0.00	5.42	2.1	329.7		220.95	0.00	0.00	1.79		10.35	18.92	83.84	86.68	18-May-18 18:00:00		**231.30**	**18.92**	**83.84**	**88.47**
18-May-18 19:00:00	18-May-18 20:00:00		711.17	0.00	0.00	5.45	2.1	329.7		234.47	0.00	0.00	1.80		10.35	18.92	83.84	86.68	18-May-18 19:00:00		**244.82**	**18.92**	**83.84**	**88.48**
18-May-18 20:00:00	18-May-18 21:00:00		710.02	0.00	0.00	5.47	2.1	329.7		234.09	0.00	0.00	1.80		10.35	18.92	83.84	86.68	18-May-18 20:00:00		**244.44**	**18.92**	**83.84**	**88.48**
18-May-18 21:00:00	18-May-18 22:00:00		708.57	0.00	0.00	5.51	2.1	329.7		233.62	0.00	0.00	1.82		10.35	18.92	83.84	86.68	18-May-18 21:00:00		**243.97**	**18.92**	**83.84**	**88.50**
18-May-18 22:00:00	18-May-18 23:00:00		711.17	0.00	0.00	5.53	2.1	329.7		234.47	0.00	0.00	1.82		10.35	18.92	83.84	86.68	18-May-18 22:00:00		**244.82**	**18.92**	**83.84**	**88.50**
18-May-18 23:00:00	19-May-18 00:00:00		712.10	0.00	0.00	5.43	2.1	329.7		234.78	0.00	0.00	1.79		10.35	18.92	83.84	86.68	18-May-18 23:00:00		**245.13**	**18.92**	**83.84**	**88.47**
19-May-18 00:00:00	19-May-18 01:00:00		711.20	0.00	0.00	5.32	2.1	329.7		234.48	0.00	0.00	1.75		10.35	18.92	83.84	86.68	19-May-18 00:00:00		**244.83**	**18.92**	**83.84**	**88.43**
19-May-18 01:00:00	19-May-18 02:00:00		707.55	0.00	0.00	5.21	2.1	329.7		233.28	0.00	0.00	1.72		10.35	18.92	83.84	86.68	19-May-18 01:00:00		**243.63**	**18.92**	**83.84**	**88.40**
19-May-18 02:00:00	19-May-18 03:00:00		619.02	0.00	0.00	5.18	2.1	329.7		204.09	0.00	0.00	1.71		10.35	18.92	83.84	86.68	19-May-18 02:00:00		**214.44**	**18.92**	**83.84**	**88.39**
19-May-18 03:00:00	19-May-18 04:00:00		552.38	0.00	0.00	5.22	2.1	329.7		182.12	0.00	0.00	1.72		10.35	18.92	83.84	86.68	19-May-18 03:00:00		**192.47**	**18.92**	**83.84**	**88.40**
19-May-18 04:00:00	19-May-18 05:00:00		525.51	0.00	0.00	5.25	2.1	329.7		173.26	0.00	0.00	1.73		10.35	18.92	83.84	86.68	19-May-18 04:00:00		**183.61**	**18.92**	**83.84**	**88.41**
19-May-18 05:00:00	19-May-18 06:00:00		540.52	0.00	0.00	5.28	2.1	329.7		178.21	0.00	0.00	1.74		10.35	18.92	83.84	86.68	19-May-18 05:00:00		**188.56**	**18.92**	**83.84**	**88.42**
19-May-18 06:00:00	19-May-18 07:00:00		538.77	0.00	0.00	5.19	2.1	329.7		177.63	0.00	0.00	1.71		10.35	18.92	83.84	86.68	19-May-18 06:00:00		**187.98**	**18.92**	**83.84**	**88.39**
19-May-18 07:00:00	19-May-18 08:00:00		542.06	0.00	0.00	5.09	2.1	329.7		178.72	0.00	0.00	1.68		10.35	18.92	83.84	86.68	19-May-18 07:00:00		**189.07**	**18.92**	**83.84**	**88.36**
19-May-18 08:00:00	19-May-18 09:00:00		739.53	0.00	0.00	4.99	2.1	329.7		243.82	0.00	0.00	1.64		10.35	18.92	83.84	86.68	19-May-18 08:00:00		**254.17**	**18.92**	**83.84**	**88.32**
19-May-18 09:00:00	19-May-18 10:00:00		840.27	0.00	0.00	4.89	2.1	329.7		277.04	0.00	0.00	1.61		10.35	18.92	83.84	86.68	19-May-18 09:00:00		**287.39**	**18.92**	**83.84**	**88.29**
19-May-18 10:00:00	19-May-18 11:00:00		830.71	0.00	0.00	4.84	2.1	329.7		273.89	0.00	0.00	1.60		10.35	18.92	83.84	86.68	19-May-18 10:00:00		**284.24**	**18.92**	**83.84**	**88.28**
19-May-18 11:00:00	19-May-18 12:00:00		831.16	0.00	0.00	4.70	2.1	329.7		274.03	0.00	0.00	1.55		10.35	18.92	83.84	86.68	19-May-18 11:00:00		**284.38**	**18.92**	**83.84**	**88.23**
19-May-18 12:00:00	19-May-18 13:00:00		811.55	0.00	0.00	4.55	2.1	329.7		267.57	0.00	0.00	1.50		10.35	18.92	83.84	86.68	19-May-18 12:00:00		**277.92**	**18.92**	**83.84**	**88.18**
19-May-18 13:00:00	19-May-18 14:00:00		797.23	0.00	0.00	4.40	2.1	329.7		262.85	0.00	0.00	1.45		10.35	18.92	83.84	86.68	19-May-18 13:00:00		**273.20**	**18.92**	**83.84**	**88.13**
19-May-18 14:00:00	19-May-18 15:00:00		818.71	0.00	0.00	4.27	2.1	329.7		269.93	0.00	0.00	1.41		10.35	18.92	83.84	86.68	19-May-18 14:00:00		**280.28**	**18.92**	**83.84**	**88.09**
19-May-18 15:00:00	19-May-18 16:00:00		780.86	0.00	0.00	4.22	2.1	329.7		257.45	0.00	0.00	1.39		10.35	18.92	83.84	86.68	19-May-18 15:00:00		**267.80**	**18.92**	**83.84**	**88.07**
19-May-18 16:00:00	19-May-18 17:00:00		774.23	0.00	0.00	4.16	2.1	329.7		255.26	0.00	0.00	1.37		10.35	18.92	83.84	86.68	19-May-18 16:00:00		**265.61**	**18.92**	**83.84**	**88.05**
19-May-18 17:00:00	19-May-18 18:00:00		764.53	0.00	0.00	4.11	2.1	329.7		252.07	0.00	0.00	1.36		10.35	18.92	83.84	86.68	19-May-18 17:00:00		**262.42**	**18.92**	**83.84**	**88.04**
19-May-18 18:00:00	19-May-18 19:00:00		782.74	0.00	0.00	4.31	2.1	329.7		258.07	0.00	0.00	1.42		10.35	18.92	83.84	86.68	19-May-18 18:00:00		**268.42**	**18.92**	**83.84**	**88.10**
19-May-18 19:00:00	19-May-18 20:00:00		724.08	0.00	0.00	4.60	2.1	329.7		238.73	0.00	0.00	1.52		10.35	18.92	83.84	86.68	19-May-18 19:00:00		**249.08**	**18.92**	**83.84**	**88.20**
19-May-18 20:00:00	19-May-18 21:00:00		127.97	0.00	0.00	4.88	2.1	329.7		42.19	0.00	0.00	1.61		10.35	18.92	83.84	86.68	19-May-18 20:00:00		**52.54**	**18.92**	**83.84**	**88.29**
19-May-18 21:00:00	19-May-18 22:00:00		0.20	0.00	0.00	5.17	2.1	329.7		0.07	0.00	0.00	1.70		10.35	18.92	83.84	86.68	19-May-18 21:00:00		**10.42**	**18.92**	**83.84**	**88.38**
19-May-18 22:00:00	19-May-18 23:00:00		0.79	0.00	0.00	5.17	2.1	329.7		0.26	0.00	0.00	1.71		10.35	18.92	83.84	86.68	19-May-18 22:00:00		**10.61**	**18.92**	**83.84**	**88.39**
19-May-18 23:00:00	20-May-18 00:00:00		15.34	0.00	0.00	5.18	2.1	329.7		5.06	0.00	0.00	1.71		10.35	18.92	83.84	86.68	19-May-18 23:00:00		**15.41**	**18.92**	**83.84**	**88.39**
20-May-18 00:00:00	20-May-18 01:00:00		5.52	0.00	0.00	5.18	2.1	329.7		1.82	0.00	0.00	1.71		10.35	18.92	83.84	86.68	20-May-18 00:00:00		**12.17**	**18.92**	**83.84**	**88.39**
20-May-18 01:00:00	20-May-18 02:00:00		1.94	0.00	0.00	5.19	2.1	329.7		0.64	0.00	0.00	1.71		10.35	18.92	83.84	86.68	20-May-18 01:00:00		**10.99**	**18.92**	**83.84**	**88.39**
20-May-18 02:00:00	20-May-18 03:00:00		0.00	0.00	0.00	4.88	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	20-May-18 02:00:00		**10.35**	**18.92**	**83.84**	**88.29**
20-May-18 03:00:00	20-May-18 04:00:00		0.00	0.00	0.00	5.03	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	20-May-18 03:00:00		**10.35**	**18.92**	**83.84**	**88.34**
20-May-18 04:00:00	20-May-18 05:00:00		0.00	0.00	0.00	5.18	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	20-May-18 04:00:00		**10.35**	**18.92**	**83.84**	**88.39**
20-May-18 05:00:00	20-May-18 06:00:00		0.01	0.00	0.00	5.32	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	20-May-18 05:00:00		**10.35**	**18.92**	**83.84**	**88.44**
20-May-18 06:00:00	20-May-18 07:00:00		4.43	0.00	0.00	5.31	2.1	329.7		1.46	0.00	0.00	1.75		10.35	18.92	83.84	86.68	20-May-18 06:00:00		**11.81**	**18.92**	**83.84**	**88.43**
20-May-18 07:00:00	20-May-18 08:00:00		6.65	0.00	0.00	78.86	2.1	329.7		2.19	0.00	0.00	26.00		10.35	18.92	83.84	86.68	20-May-18 07:00:00		**12.54**	**18.92**	**83.84**	**112.68**
20-May-18 08:00:00	20-May-18 09:00:00		6.95	0.00	0.00	5.21	2.1	329.7		2.29	0.00	0.00	1.72		10.35	18.92	83.84	86.68	20-May-18 08:00:00		**12.64**	**18.92**	**83.84**	**88.40**
20-May-18 09:00:00	20-May-18 10:00:00		6.28	0.00	0.00	5.25	2.1	329.7		2.07	0.00	0.00	1.73		10.35	18.92	83.84	86.68	20-May-18 09:00:00		**12.42**	**18.92**	**83.84**	**88.41**
20-May-18 10:00:00	20-May-18 11:00:00		2.18	0.00	0.00	32.36	2.1	329.7		0.72	0.00	0.00	10.67		10.35	18.92	83.84	86.68	20-May-18 10:00:00		**11.07**	**18.92**	**83.84**	**97.35**
20-May-18 11:00:00	20-May-18 12:00:00		1.89	0.00	0.00	4.89	2.1	329.7		0.62	0.00	0.00	1.61		10.35	18.92	83.84	86.68	20-May-18 11:00:00		**10.97**	**18.92**	**83.84**	**88.29**
20-May-18 12:00:00	20-May-18 13:00:00		2.09	0.00	0.00	4.64	2.1	329.7		0.69	0.00	0.00	1.53		10.35	18.92	83.84	86.68	20-May-18 12:00:00		**11.04**	**18.92**	**83.84**	**88.21**
20-May-18 13:00:00	20-May-18 14:00:00		2.28	0.00	0.00	4.39	2.1	329.7		0.75	0.00	0.00	1.45		10.35	18.92	83.84	86.68	20-May-18 13:00:00		**11.10**	**18.92**	**83.84**	**88.13**
20-May-18 14:00:00	20-May-18 15:00:00		2.05	0.00	0.00	4.17	2.1	329.7		0.68	0.00	0.00	1.38		10.35	18.92	83.84	86.68	20-May-18 14:00:00		**11.03**	**18.92**	**83.84**	**88.06**
20-May-18 15:00:00	20-May-18 16:00:00		0.00	0.00	0.00	4.23	2.1	329.7		0.00	0.00	0.00	1.40		10.35	18.92	83.84	86.68	20-May-18 15:00:00		**10.35**	**18.92**	**83.84**	**88.08**
20-May-18 16:00:00	20-May-18 17:00:00		0.00	0.00	0.00	4.32	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	20-May-18 16:00:00		**10.35**	**18.92**	**83.84**	**88.10**
20-May-18 17:00:00	20-May-18 18:00:00		0.00	0.00	0.00	4.41	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	20-May-18 17:00:00		**10.35**	**18.92**	**83.84**	**88.13**
20-May-18 18:00:00	20-May-18 19:00:00		0.00	0.00	0.00	4.44	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	20-May-18 18:00:00		**10.35**	**18.92**	**83.84**	**88.14**
20-May-18 19:00:00	20-May-18 20:00:00		0.00	0.00	0.00	4.76	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	20-May-18 19:00:00		**10.35**	**18.92**	**83.84**	**88.25**
20-May-18 20:00:00	20-May-18 21:00:00		0.00	0.00	0.00	5.14	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	20-May-18 20:00:00		**10.35**	**18.92**	**83.84**	**88.37**
20-May-18 21:00:00	20-May-18 22:00:00		0.00	0.00	0.00	5.52	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	20-May-18 21:00:00		**10.35**	**18.92**	**83.84**	**88.50**
20-May-18 22:00:00	20-May-18 23:00:00		5.96	0.00	0.00	5.72	2.1	329.7		1.97	0.00	0.00	1.89		10.35	18.92	83.84	86.68	20-May-18 22:00:00		**12.32**	**18.92**	**83.84**	**88.57**
20-May-18 23:00:00	21-May-18 00:00:00		6.41	0.00	0.00	12.79	2.1	329.7		2.12	0.00	0.00	4.22		10.35	18.92	83.84	86.68	20-May-18 23:00:00		**12.47**	**18.92**	**83.84**	**90.90**
21-May-18 00:00:00	21-May-18 01:00:00		14.70	0.00	0.00	5.57	2.1	329.7		4.85	0.00	0.00	1.84		10.35	18.92	83.84	86.68	21-May-18 00:00:00		**15.20**	**18.92**	**83.84**	**88.52**
21-May-18 01:00:00	21-May-18 02:00:00		14.89	0.00	0.00	5.59	2.1	329.7		4.91	0.00	0.00	1.84		10.35	18.92	83.84	86.68	21-May-18 01:00:00		**15.26**	**18.92**	**83.84**	**88.52**
21-May-18 02:00:00	21-May-18 03:00:00		13.36	0.00	0.00	5.60	2.1	329.7		4.41	0.00	0.00	1.85		10.35	18.92	83.84	86.68	21-May-18 02:00:00		**14.76**	**18.92**	**83.84**	**88.53**
21-May-18 03:00:00	21-May-18 04:00:00		10.43	0.00	0.00	5.62	2.1	329.7		3.44	0.00	0.00	1.85		10.35	18.92	83.84	86.68	21-May-18 03:00:00		**13.79**	**18.92**	**83.84**	**88.53**
21-May-18 04:00:00	21-May-18 05:00:00		5.57	0.00	0.00	5.53	2.1	329.7		1.84	0.00	0.00	1.82		10.35	18.92	83.84	86.68	21-May-18 04:00:00		**12.19**	**18.92**	**83.84**	**88.50**
21-May-18 05:00:00	21-May-18 06:00:00		0.23	0.00	0.00	47.30	2.1	329.7		0.08	0.00	0.00	15.59		10.35	18.92	83.84	86.68	21-May-18 05:00:00		**10.43**	**18.92**	**83.84**	**102.27**
21-May-18 06:00:00	21-May-18 07:00:00		0.00	0.00	0.00	5.32	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	21-May-18 06:00:00		**10.35**	**18.92**	**83.84**	**88.43**
21-May-18 07:00:00	21-May-18 08:00:00		0.00	0.00	0.00	5.29	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	21-May-18 07:00:00		**10.35**	**18.92**	**83.84**	**88.42**
21-May-18 08:00:00	21-May-18 09:00:00		0.00	0.00	0.00	5.26	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	21-May-18 08:00:00		**10.35**	**18.92**	**83.84**	**88.42**
21-May-18 09:00:00	21-May-18 10:00:00		0.00	0.00	0.00	5.24	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	21-May-18 09:00:00		**10.35**	**18.92**	**83.84**	**88.41**
21-May-18 10:00:00	21-May-18 11:00:00		0.95	0.00	0.00	5.14	2.1	329.7		0.31	0.00	0.00	1.69		10.35	18.92	83.84	86.68	21-May-18 10:00:00		**10.66**	**18.92**	**83.84**	**88.37**
21-May-18 11:00:00	21-May-18 12:00:00		3.55	0.00	0.00	4.97	2.1	329.7		1.17	0.00	0.00	1.64		10.35	18.92	83.84	86.68	21-May-18 11:00:00		**11.52**	**18.92**	**83.84**	**88.32**
21-May-18 12:00:00	21-May-18 13:00:00		1.81	0.00	0.00	4.81	2.1	329.7		0.60	0.00	0.00	1.59		10.35	18.92	83.84	86.68	21-May-18 12:00:00		**10.95**	**18.92**	**83.84**	**88.27**
21-May-18 13:00:00	21-May-18 14:00:00		2.49	0.00	0.00	4.65	2.1	329.7		0.82	0.00	0.00	1.53		10.35	18.92	83.84	86.68	21-May-18 13:00:00		**11.17**	**18.92**	**83.84**	**88.21**
21-May-18 14:00:00	21-May-18 15:00:00		1.90	0.00	0.00	4.62	2.1	329.7		0.63	0.00	0.00	1.52		10.35	18.92	83.84	86.68	21-May-18 14:00:00		**10.98**	**18.92**	**83.84**	**88.20**
21-May-18 15:00:00	21-May-18 16:00:00		4.81	0.00	0.00	4.47	2.1	329.7		1.59	0.00	0.00	1.47		10.35	18.92	83.84	86.68	21-May-18 15:00:00		**11.94**	**18.92**	**83.84**	**88.15**
21-May-18 16:00:00	21-May-18 17:00:00		0.15	0.00	0.00	4.32	2.1	329.7		0.05	0.00	0.00	1.42		10.35	18.92	83.84	86.68	21-May-18 16:00:00		**10.40**	**18.92**	**83.84**	**88.10**
21-May-18 17:00:00	21-May-18 18:00:00		3.70	0.00	0.00	4.17	2.1	329.7		1.22	0.00	0.00	1.37		10.35	18.92	83.84	86.68	21-May-18 17:00:00		**11.57**	**18.92**	**83.84**	**88.05**
21-May-18 18:00:00	21-May-18 19:00:00		1.73	0.00	0.00	4.20	2.1	329.7		0.57	0.00	0.00	1.38		10.35	18.92	83.84	86.68	21-May-18 18:00:00		**10.92**	**18.92**	**83.84**	**88.06**
21-May-18 19:00:00	21-May-18 20:00:00		2.07	0.00	0.00	4.38	2.1	329.7		0.68	0.00	0.00	1.44		10.35	18.92	83.84	86.68	21-May-18 19:00:00		**11.03**	**18.92**	**83.84**	**88.12**
21-May-18 20:00:00	21-May-18 21:00:00		8.19	0.00	0.00	4.55	2.1	329.7		2.70	0.00	0.00	1.50		10.35	18.92	83.84	86.68	21-May-18 20:00:00		**13.05**	**18.92**	**83.84**	**88.18**
21-May-18 21:00:00	21-May-18 22:00:00		8.00	0.00	0.00	12.56	2.1	329.7		2.64	0.00	0.00	4.14		10.35	18.92	83.84	86.68	21-May-18 21:00:00		**12.99**	**18.92**	**83.84**	**90.82**
21-May-18 22:00:00	21-May-18 23:00:00		0.80	0.00	0.00	4.87	2.1	329.7		0.26	0.00	0.00	1.61		10.35	18.92	83.84	86.68	21-May-18 22:00:00		**10.61**	**18.92**	**83.84**	**88.29**
21-May-18 23:00:00	22-May-18 00:00:00		2.66	0.00	0.00	5.00	2.1	329.7		0.88	0.00	0.00	1.65		10.35	18.92	83.84	86.68	21-May-18 23:00:00		**11.23**	**18.92**	**83.84**	**88.33**
22-May-18 00:00:00	22-May-18 01:00:00		0.37	0.00	0.00	5.12	2.1	329.7		0.12	0.00	0.00	1.69		10.35	18.92	83.84	86.68	22-May-18 00:00:00		**10.47**	**18.92**	**83.84**	**88.37**
22-May-18 01:00:00	22-May-18 02:00:00		1.15	0.00	0.00	11.08	2.1	329.7		0.38	0.00	0.00	3.65		10.35	18.92	83.84	86.68	22-May-18 01:00:00		**10.73**	**18.92**	**83.84**	**90.33**
22-May-18 02:00:00	22-May-18 03:00:00		1.21	0.00	0.00	5.23	2.1	329.7		0.40	0.00	0.00	1.72		10.35	18.92	83.84	86.68	22-May-18 02:00:00		**10.75**	**18.92**	**83.84**

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
24-May-18 01:00:00	24-May-18 02:00:00		3.00	0.00	0.00	5.15	2.1	329.7		0.99	0.00	0.00	1.70		10.35	18.92	83.84	86.68	24-May-18 01:00:00		11.34	18.92	83.84	88.38
24-May-18 02:00:00	24-May-18 03:00:00		1.12	0.00	0.00	5.20	2.1	329.7		0.37	0.00	0.00	1.71		10.35	18.92	83.84	86.68	24-May-18 02:00:00		10.72	18.92	83.84	88.39
24-May-18 03:00:00	24-May-18 04:00:00		0.88	0.00	0.00	5.26	2.1	329.7		0.29	0.00	0.00	1.73		10.35	18.92	83.84	86.68	24-May-18 03:00:00		10.64	18.92	83.84	88.41
24-May-18 04:00:00	24-May-18 05:00:00		0.00	0.00	0.00	5.42	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	24-May-18 04:00:00		10.35	18.92	83.84	88.47
24-May-18 05:00:00	24-May-18 06:00:00		0.00	0.00	0.00	5.49	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	24-May-18 05:00:00		10.35	18.92	83.84	88.49
24-May-18 06:00:00	24-May-18 07:00:00		0.00	0.00	0.00	5.57	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	24-May-18 06:00:00		10.35	18.92	83.84	88.52
24-May-18 07:00:00	24-May-18 08:00:00		0.00	0.00	0.00	5.62	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	24-May-18 07:00:00		10.35	18.92	83.84	88.53
24-May-18 08:00:00	24-May-18 09:00:00		0.00	0.00	0.00	5.32	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	24-May-18 08:00:00		10.35	18.92	83.84	88.43
24-May-18 09:00:00	24-May-18 10:00:00		0.00	0.00	0.00	5.09	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	24-May-18 09:00:00		10.35	18.92	83.84	88.36
24-May-18 10:00:00	24-May-18 11:00:00		0.00	0.00	0.00	4.86	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	24-May-18 10:00:00		10.35	18.92	83.84	88.28
24-May-18 11:00:00	24-May-18 12:00:00		0.00	0.00	0.00	4.63	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	24-May-18 11:00:00		10.35	18.92	83.84	88.21
24-May-18 12:00:00	24-May-18 13:00:00		0.84	0.00	0.00	4.52	2.1	329.7		0.28	0.00	0.00	1.49		10.35	18.92	83.84	86.68	24-May-18 12:00:00		10.63	18.92	83.84	88.17
24-May-18 13:00:00	24-May-18 14:00:00		0.00	0.00	0.00	4.53	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	24-May-18 13:00:00		10.35	18.92	83.84	88.17
24-May-18 14:00:00	24-May-18 15:00:00		3.31	0.00	0.00	4.51	2.1	329.7		1.09	0.00	0.00	1.49		10.35	18.92	83.84	86.68	24-May-18 14:00:00		11.44	18.92	83.84	88.17
24-May-18 15:00:00	24-May-18 16:00:00		7.16	0.00	0.00	4.48	2.1	329.7		2.36	0.00	0.00	1.48		10.35	18.92	83.84	86.68	24-May-18 15:00:00		12.71	18.92	83.84	88.16
24-May-18 16:00:00	24-May-18 17:00:00		8.03	0.00	0.00	4.48	2.1	329.7		2.65	0.00	0.00	1.48		10.35	18.92	83.84	86.68	24-May-18 16:00:00		13.00	18.92	83.84	88.16
24-May-18 17:00:00	24-May-18 18:00:00		3.73	0.00	0.00	4.57	2.1	329.7		1.23	0.00	0.00	1.51		10.35	18.92	83.84	86.68	24-May-18 17:00:00		11.58	18.92	83.84	88.19
24-May-18 18:00:00	24-May-18 19:00:00		10.54	0.00	0.00	4.68	2.1	329.7		3.47	0.00	0.00	1.54		10.35	18.92	83.84	86.68	24-May-18 18:00:00		13.82	18.92	83.84	88.22
24-May-18 19:00:00	24-May-18 20:00:00		4.13	0.00	0.00	115.13	2.1	329.7		1.36	0.00	0.00	37.96		10.35	18.92	83.84	86.68	24-May-18 19:00:00		11.71	18.92	83.84	124.64
24-May-18 20:00:00	24-May-18 21:00:00		2.38	0.00	0.00	5.81	2.1	329.7		0.79	0.00	0.00	1.92		10.35	18.92	83.84	86.68	24-May-18 20:00:00		11.14	18.92	83.84	88.60
24-May-18 21:00:00	24-May-18 22:00:00		2.25	0.00	0.00	8.02	2.1	329.7		0.74	0.00	0.00	2.64		10.35	18.92	83.84	86.68	24-May-18 21:00:00		11.09	18.92	83.84	89.32
24-May-18 22:00:00	24-May-18 23:00:00		1.33	0.00	0.00	6.19	2.1	329.7		0.44	0.00	0.00	2.04		10.35	18.92	83.84	86.68	24-May-18 22:00:00		10.79	18.92	83.84	88.72
24-May-18 23:00:00	25-May-18 00:00:00		0.00	0.00	0.00	5.93	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	24-May-18 23:00:00		10.35	18.92	83.84	88.64
25-May-18 00:00:00	25-May-18 01:00:00		0.00	0.00	0.00	5.68	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	25-May-18 00:00:00		10.35	18.92	83.84	88.55
25-May-18 01:00:00	25-May-18 02:00:00		0.00	0.00	0.00	5.42	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	25-May-18 01:00:00		10.35	18.92	83.84	88.47
25-May-18 02:00:00	25-May-18 03:00:00		0.00	0.00	0.00	5.32	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	25-May-18 02:00:00		10.35	18.92	83.84	88.44
25-May-18 03:00:00	25-May-18 04:00:00		0.00	0.00	0.00	5.30	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	25-May-18 03:00:00		10.35	18.92	83.84	88.43
25-May-18 04:00:00	25-May-18 05:00:00		0.00	0.00	0.00	5.28	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	25-May-18 04:00:00		10.35	18.92	83.84	88.42
25-May-18 05:00:00	25-May-18 06:00:00		0.00	0.00	0.00	5.23	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	25-May-18 05:00:00		10.35	18.92	83.84	88.40
25-May-18 06:00:00	25-May-18 07:00:00		0.00	0.00	0.00	5.15	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	25-May-18 06:00:00		10.35	18.92	83.84	88.38
25-May-18 07:00:00	25-May-18 08:00:00		0.00	0.00	0.00	5.14	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	25-May-18 07:00:00		10.35	18.92	83.84	88.37
25-May-18 08:00:00	25-May-18 09:00:00		0.00	0.00	0.00	5.12	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	25-May-18 08:00:00		10.35	18.92	83.84	88.37
25-May-18 09:00:00	25-May-18 10:00:00		0.00	0.00	0.00	5.05	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	25-May-18 09:00:00		10.35	18.92	83.84	88.35
25-May-18 10:00:00	25-May-18 11:00:00		0.00	0.00	0.00	4.85	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	25-May-18 10:00:00		10.35	18.92	83.84	88.28
25-May-18 11:00:00	25-May-18 12:00:00		0.00	0.00	0.00	4.77	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	25-May-18 11:00:00		10.35	18.92	83.84	88.25
25-May-18 12:00:00	25-May-18 13:00:00		0.00	0.00	0.00	4.68	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	25-May-18 12:00:00		10.35	18.92	83.84	88.22
25-May-18 13:00:00	25-May-18 14:00:00		0.00	0.00	0.00	4.59	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	25-May-18 13:00:00		10.35	18.92	83.84	88.19
25-May-18 14:00:00	25-May-18 15:00:00		0.18	0.00	0.00	4.47	2.1	329.7		0.06	0.00	0.00	1.47		10.35	18.92	83.84	86.68	25-May-18 14:00:00		10.41	18.92	83.84	88.15
25-May-18 15:00:00	25-May-18 16:00:00		1.34	0.00	0.00	4.34	2.1	329.7		0.44	0.00	0.00	1.43		10.35	18.92	83.84	86.68	25-May-18 15:00:00		10.79	18.92	83.84	88.11
25-May-18 16:00:00	25-May-18 17:00:00		1.89	0.00	0.00	18.54	2.1	329.7		0.62	0.00	0.00	6.11		10.35	18.92	83.84	86.68	25-May-18 16:00:00		10.97	18.92	83.84	92.79
25-May-18 17:00:00	25-May-18 18:00:00		1.08	0.00	0.00	4.24	2.1	329.7		0.36	0.00	0.00	1.40		10.35	18.92	83.84	86.68	25-May-18 17:00:00		10.71	18.92	83.84	88.08
25-May-18 18:00:00	25-May-18 19:00:00		0.76	0.00	0.00	4.35	2.1	329.7		0.25	0.00	0.00	1.44		10.35	18.92	83.84	86.68	25-May-18 18:00:00		10.60	18.92	83.84	88.12
25-May-18 19:00:00	25-May-18 20:00:00		0.44	0.00	0.00	4.46	2.1	329.7		0.15	0.00	0.00	1.47		10.35	18.92	83.84	86.68	25-May-18 19:00:00		10.50	18.92	83.84	88.15
25-May-18 20:00:00	25-May-18 21:00:00		0.13	0.00	0.00	4.52	2.1	329.7		0.04	0.00	0.00	1.49		10.35	18.92	83.84	86.68	25-May-18 20:00:00		10.39	18.92	83.84	88.17
25-May-18 21:00:00	25-May-18 22:00:00		0.00	0.00	0.00	4.57	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	25-May-18 21:00:00		10.35	18.92	83.84	88.19
25-May-18 22:00:00	25-May-18 23:00:00		0.00	0.00	0.00	4.67	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	25-May-18 22:00:00		10.35	18.92	83.84	88.22
25-May-18 23:00:00	26-May-18 00:00:00		0.00	0.00	0.00	4.78	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	25-May-18 23:00:00		10.35	18.92	83.84	88.25
26-May-18 00:00:00	26-May-18 01:00:00		0.00	0.00	0.00	4.95	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	26-May-18 00:00:00		10.35	18.92	83.84	88.31
26-May-18 01:00:00	26-May-18 02:00:00		0.00	0.00	0.00	5.00	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	26-May-18 01:00:00		10.35	18.92	83.84	88.33
26-May-18 02:00:00	26-May-18 03:00:00		0.00	0.00	0.00	4.96	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	26-May-18 02:00:00		10.35	18.92	83.84	88.32
26-May-18 03:00:00	26-May-18 04:00:00		0.00	0.00	0.00	4.92	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	26-May-18 03:00:00		10.35	18.92	83.84	88.30
26-May-18 04:00:00	26-May-18 05:00:00		0.00	0.00	0.00	4.91	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	26-May-18 04:00:00		10.35	18.92	83.84	88.30
26-May-18 05:00:00	26-May-18 06:00:00		0.00	0.00	0.00	4.94	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	26-May-18 05:00:00		10.35	18.92	83.84	88.31
26-May-18 06:00:00	26-May-18 07:00:00		0.00	0.00	0.00	4.96	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	26-May-18 06:00:00		10.35	18.92	83.84	88.32
26-May-18 07:00:00	26-May-18 08:00:00		0.00	0.00	0.00	4.98	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	26-May-18 07:00:00		10.35	18.92	83.84	88.32
26-May-18 08:00:00	26-May-18 09:00:00		0.00	0.00	0.00	5.01	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	26-May-18 08:00:00		10.35	18.92	83.84	88.33
26-May-18 09:00:00	26-May-18 10:00:00		0.00	0.00	0.00	5.05	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	26-May-18 09:00:00		10.35	18.92	83.84	88.34
26-May-18 10:00:00	26-May-18 11:00:00		0.00	0.00	0.00	5.61	2.1	329.7		0.00	0.00	0.00	3.17		10.35	18.92	83.84	86.68	26-May-18 10:00:00		10.35	18.92	83.84	89.85
26-May-18 11:00:00	26-May-18 12:00:00		0.00	0.00	0.00	4.81	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	26-May-18 11:00:00		10.35	18.92	83.84	88.27
26-May-18 12:00:00	26-May-18 13:00:00		0.00	0.00	0.00	4.66	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	26-May-18 12:00:00		10.35	18.92	83.84	88.22
26-May-18 13:00:00	26-May-18 14:00:00		0.00	0.00	0.00	4.51	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	26-May-18 13:00:00		10.35	18.92	83.84	88.17
26-May-18 14:00:00	26-May-18 15:00:00		2.51	0.00	0.00	4.36	2.1	329.7		0.83	0.00	0.00	1.44		10.35	18.92	83.84	86.68	26-May-18 14:00:00		11.18	18.92	83.84	88.12
26-May-18 15:00:00	26-May-18 16:00:00		3.24	0.00	0.00	4.37	2.1	329.7		1.07	0.00	0.00	1.44		10.35	18.92	83.84	86.68	26-May-18 15:00:00		11.42	18.92	83.84	88.12
26-May-18 16:00:00	26-May-18 17:00:00		6.71	0.00	0.00	4.42	2.1	329.7		2.21	0.00	0.00	1.46		10.35	18.92	83.84	86.68	26-May-18 16:00:00		12.56	18.92	83.84	88.14
26-May-18 17:00:00	26-May-18 18:00:00		6.38	0.00	0.00	4.47	2.1	329.7		2.10	0.00	0.00	1.47		10.35	18.92	83.84	86.68	26-May-18 17:00:00		12.45	18.92	83.84	88.15
26-May-18 18:00:00	26-May-18 19:00:00		6.80	0.00	0.00	4.49	2.1	329.7		2.24	0.00	0.00	1.48		10.35	18.92	83.84	86.68	26-May-18 18:00:00		12.59	18.92	83.84	88.16
26-May-18 19:00:00	26-May-18 20:00:00		5.56	0.00	0.00	7.28	2.1	329.7		1.83	0.00	0.00	2.40		10.35	18.92	83.84	86.68	26-May-18 19:00:00		12.18	18.92	83.84	89.08
26-May-18 20:00:00	26-May-18 21:00:00		5.93	0.00	0.00	4.34	2.1	329.7		1.95	0.00	0.00	1.43		10.35	18.92	83.84	86.68	26-May-18 20:00:00		12.30	18.92	83.84	88.11
26-May-18 21:00:00	26-May-18 22:00:00		4.67	0.00	0.00	4.56	2.1	329.7		1.54	0.00	0.00	1.50		10.35	18.92	83.84	86.68	26-May-18 21:00:00		11.89	18.92	83.84	88.18
26-May-18 22:00:00	26-May-18 23:00:00		13.92	0.00	0.00	4.78	2.1	329.7		4.59	0.00	0.00	1.58		10.35	18.92	83.84	86.68	26-May-18 22:00:00		14.94	18.92	83.84	88.26
26-May-18 23:00:00	27-May-18 00:00:00		14.43	0.00	0.00	5.05	2.1	329.7		4.76	0.00	0.00	1.67		10.35	18.92	83.84	86.68	26-May-18 23:00:00		15.11	18.92	83.84	88.35
27-May-18 00:00:00	27-May-18 01:00:00		3.92	0.00	0.00	5.24	2.1	329.7		1.29	0.00	0.00	1.73		10.35	18.92	83.84	86.68	27-May-18 00:00:00		11.64	18.92	83.84	88.41
27-May-18 01:00:00	27-May-18 02:00:00		0.69	0.00	0.00	5.24	2.1	329.7		0.23	0.00	0.00	1.73		10.35	18.92	83.84	86.68	27-May-18 01:00:00		10.58	18.92	83.84	88.41
27-May-18 02:00:00	27-May-18 03:00:00		0.27	0.00	0.00	5.24	2.1	329.7		0.09	0.00	0.00	1.73		10.35	18.92	83.84	86.68	27-May-18 02:00:00		10.44	18.92	83.84	88.41
27-May-18 03:00:00	27-May-18 04:00:00		10.09	0.00	0.00	5.21	2.1	329.7		3.33	0.00	0.00	1.72		10.35	18.92	83.84	86.68	27-May-18 03:00:00		13.68	18.92	83.84	88.40
27-May-18 04:00:00	27-May-18 05:00:00		17.45	0.00	0.00	5.15	2.1	329.7		5.75	0.00	0.00	1.70		10.35	18.92	83.84	86.68	27-May-18 04:00:00		16.10	18.92	83.84	88.38
27-May-18 05:00:00	27-May-18 06:00:00		2.14	0.00	0.00	5.17	2.1	329.7		0.70	0.00	0.00	1.70		10.35	18.92	83.84	86.68	27-May-18 05:00:00		11.05	18.92	83.84	88.38
27-May-18 06:00:00	27-May-18 07:00:00		1.47	0.00	0.00	5.19	2.1	329.7		0.49	0.00	0.00	1.71		10.35	18.92	83.84	86.68	27-May-18 06:00:00		10.84	18.92	83.84	88.39
27-May-18 07:00:00	27-May-18 08:00:00		0.81	0.00	0.00	5.27	2.1	329.7		0.27	0.00	0.00	1.74		10.35	18.92	83.84	86.68	27-May-18 07:00:00		10.62	18.92	83.84	88.42
27-May-18 08:00:00	27-May-18 09:00:00		0.17	0.00	0.00	5.37	2.1	329.7		0.06	0.00	0.00	1.77		10.35	18.92	83.84	86.68	27-May-18 08:00:00		10.41	18.92	83.84	88.45
27-May-18 09:00:00	27-May-18 10:00:00		0.00	0.00	0.00	5.20	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	27-May-18 09:00:00		10.35	18.92	83.84	88.39
27-May-18 10:00:00	27-May-18 11:00:00		0.00	0.00	0.00	5.04	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	27-May-18 10:00:00		10.35	18.92	83.84	88.34
27-May-18 11:00:00	27-May-18 12:00:00		0.00	0.00	0.00	4.87	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	27-May-18 11:00:00		10.35	18.92	83.84	88.29
27-May-18 12:00:00	27-May-18 13:00:00		3.65	0.00	0.00	4.76	2.1	329.7		1.20	0.00	0.00	1.57		10.35	18.92	83.84	86.68	27-May-18 12:00:00		11.55	18.92	83.84	88.25
27-May-18 13:00:00	27-May-18 14:00:00		7.06	0.00	0.00	5.36	2.1	329.7		2.33	0.00	0.00	1.77		10.35	18.92	83.84	86.68	27-May-18 13:00:00		12.68	18.92	83.84	88.45
27-May-18 14:00:00	27-May-18 15:00:00		2.43	0.00	0.00	4.54	2.1	329.7		0.80	0.00	0.00	1.50		10.35	18.92	83.84	86.68	27-May-18 14:00:00		11.15	18.92	83.84	88.18
27-May-18 15:00:00	27-May-18 16:00:00		0.00	0.00	0.00	4.62	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	27-May-18 15:00:00		10.35	18.92	83.84	88.20
27-May-18 16:00:00	27-May-18 17:00:00		0.00	0.00	0.00	4.69	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	27-May-18 16:00:00		10.35	18.92	83.84	88.23
27-May-18 17:00:00	27-May-18 18:00:00		0.00	0.00	0.00	4.78	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	27-May-18 17:00:00		10.35	18.92	83.84	88.26
27-May-18 18:00:00	27-May-18 19:00:00		0.00	0.00	0.00	5.09	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	27-May-18 18:00:00		10.35	18.92	83.84	88.36
27-May-18 19:00:00	27-May-18 20:00:00		0.00	0.00	0.00	23.37	2.1	329.7		0.00	0.00	0.00	7.70		10.35	18.92	83.84	86.68	27-May-18 19:00:00		10.35	18.92	83.84	94.38
27-May-18 20:00:00	27-May-18 21:00:00		0.00	0.00	0.00	5.20	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	27-May-18 20:00:00		10.35	18.92	83.84	88.39
27-May-18 21:00:00	27-May-18 22:00:00		0.00	0.00	0.00	5.37	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	27-May-18 21:00:00		10.35	18.92	83.84	88.45
27-May-18 22:00:00	27-May-18 23:00:00		0.00	0.00	0.00	5.54	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	27-May-18 22:00:00		10.35	18.92	83.84	88.51
27-May-18 23:00:00	28-May-18 00:00:00		0.00	0.00	0.00	5.71	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	27-May-18 23:00:00		10.35	18.92	83.84	88.56
28-May-18 00:00:00	28-May-18 01:00:00		0.00	0.00	0.00	5.79	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	28-May-18 00:00:00		10.35	18.92	83.84	88.59
28-May-18 01:00:00	28-May-18 02:00:00		0.00	0.00	0.00	5.77	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	28-May-18 01:00:00		10.35	18.92	83.84

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
30-May-18 00:00:00	30-May-18 01:00:00		0.00	1,325.83	0.00	5.34	2.1	329.7		0.00	437.13	0.00	1.76		10.35	18.92	83.84	86.68	30-May-18 00:00:00		10.35	456.05	83.84	88.44
30-May-18 01:00:00	30-May-18 02:00:00		0.00	218.37	0.00	5.28	2.1	329.7		0.00	72.00	0.00	1.74		10.35	18.92	83.84	86.68	30-May-18 01:00:00		10.35	90.92	83.84	88.42
30-May-18 02:00:00	30-May-18 03:00:00		0.00	0.00	0.00	5.31	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	30-May-18 02:00:00		10.35	18.92	83.84	88.43
30-May-18 03:00:00	30-May-18 04:00:00		0.00	0.00	0.00	5.31	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	30-May-18 03:00:00		10.35	18.92	83.84	88.43
30-May-18 04:00:00	30-May-18 05:00:00		0.00	0.00	0.00	5.31	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	30-May-18 04:00:00		10.35	18.92	83.84	88.43
30-May-18 05:00:00	30-May-18 06:00:00		0.00	0.00	0.00	5.30	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	30-May-18 05:00:00		10.35	18.92	83.84	88.43
30-May-18 06:00:00	30-May-18 07:00:00		0.00	0.00	0.00	5.34	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	30-May-18 06:00:00		10.35	18.92	83.84	88.44
30-May-18 07:00:00	30-May-18 08:00:00		0.00	0.00	0.00	5.27	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	30-May-18 07:00:00		10.35	18.92	83.84	88.42
30-May-18 08:00:00	30-May-18 09:00:00		0.00	0.00	0.00	5.18	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	30-May-18 08:00:00		10.35	18.92	83.84	88.39
30-May-18 09:00:00	30-May-18 10:00:00		0.00	0.00	0.00	12.98	2.1	329.7		0.00	0.00	0.00	4.28		10.35	18.92	83.84	86.68	30-May-18 09:00:00		10.35	18.92	83.84	90.96
30-May-18 10:00:00	30-May-18 11:00:00		0.06	0.00	0.00	5.04	2.1	329.7		0.02	0.00	0.00	1.66		10.35	18.92	83.84	86.68	30-May-18 10:00:00		10.37	18.92	83.84	88.34
30-May-18 11:00:00	30-May-18 12:00:00		0.51	0.00	0.00	4.91	2.1	329.7		0.17	0.00	0.00	1.62		10.35	18.92	83.84	86.68	30-May-18 11:00:00		10.52	18.92	83.84	88.30
30-May-18 12:00:00	30-May-18 13:00:00		1.03	0.00	0.00	4.77	2.1	329.7		0.34	0.00	0.00	1.57		10.35	18.92	83.84	86.68	30-May-18 12:00:00		10.69	18.92	83.84	88.25
30-May-18 13:00:00	30-May-18 14:00:00		2.89	0.00	0.00	4.70	2.1	329.7		0.95	0.00	0.00	1.55		10.35	18.92	83.84	86.68	30-May-18 13:00:00		11.30	18.92	83.84	88.23
30-May-18 14:00:00	30-May-18 15:00:00		0.55	0.00	0.00	4.66	2.1	329.7		0.18	0.00	0.00	1.54		10.35	18.92	83.84	86.68	30-May-18 14:00:00		10.53	18.92	83.84	88.22
30-May-18 15:00:00	30-May-18 16:00:00		0.31	0.00	0.00	4.61	2.1	329.7		0.10	0.00	0.00	1.52		10.35	18.92	83.84	86.68	30-May-18 15:00:00		10.45	18.92	83.84	88.20
30-May-18 16:00:00	30-May-18 17:00:00		0.07	0.00	0.00	4.56	2.1	329.7		0.02	0.00	0.00	1.50		10.35	18.92	83.84	86.68	30-May-18 16:00:00		10.37	18.92	83.84	88.18
30-May-18 17:00:00	30-May-18 18:00:00		0.00	0.00	0.00	4.59	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	30-May-18 17:00:00		10.35	18.92	83.84	88.19
30-May-18 18:00:00	30-May-18 19:00:00		0.00	0.00	0.00	4.75	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	30-May-18 18:00:00		10.35	18.92	83.84	88.25
30-May-18 19:00:00	30-May-18 20:00:00		0.00	0.00	0.00	4.91	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	30-May-18 19:00:00		10.35	18.92	83.84	88.30
30-May-18 20:00:00	30-May-18 21:00:00		0.00	0.00	0.00	5.07	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	30-May-18 20:00:00		10.35	18.92	83.84	88.35
30-May-18 21:00:00	30-May-18 22:00:00		0.00	0.00	0.00	5.15	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	30-May-18 21:00:00		10.35	18.92	83.84	88.38
30-May-18 22:00:00	30-May-18 23:00:00		0.00	0.00	0.00	5.21	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	30-May-18 22:00:00		10.35	18.92	83.84	88.40
30-May-18 23:00:00	31-May-18 00:00:00		0.00	0.00	0.00	5.29	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	30-May-18 23:00:00		10.35	18.92	83.84	88.42
31-May-18 00:00:00	31-May-18 01:00:00		0.05	0.00	0.00	5.38	2.1	329.7		0.02	0.00	0.00	1.77		10.35	18.92	83.84	86.68	31-May-18 00:00:00		10.37	18.92	83.84	88.45
31-May-18 01:00:00	31-May-18 02:00:00		1.59	0.00	0.00	5.47	2.1	329.7		0.53	0.00	0.00	1.80		10.35	18.92	83.84	86.68	31-May-18 01:00:00		10.88	18.92	83.84	88.48
31-May-18 02:00:00	31-May-18 03:00:00		0.64	0.00	0.00	5.49	2.1	329.7		0.21	0.00	0.00	1.81		10.35	18.92	83.84	86.68	31-May-18 02:00:00		10.56	18.92	83.84	88.49
31-May-18 03:00:00	31-May-18 04:00:00		1.56	0.00	0.00	5.48	2.1	329.7		0.51	0.00	0.00	1.81		10.35	18.92	83.84	86.68	31-May-18 03:00:00		10.86	18.92	83.84	88.49
31-May-18 04:00:00	31-May-18 05:00:00		11.01	0.00	0.00	5.48	2.1	329.7		3.63	0.00	0.00	1.81		10.35	18.92	83.84	86.68	31-May-18 04:00:00		13.98	18.92	83.84	88.49
31-May-18 05:00:00	31-May-18 06:00:00		2.47	0.00	0.00	5.44	2.1	329.7		0.81	0.00	0.00	1.79		10.35	18.92	83.84	86.68	31-May-18 05:00:00		11.16	18.92	83.84	88.47
31-May-18 06:00:00	31-May-18 07:00:00		3.97	0.00	0.00	5.37	2.1	329.7		1.31	0.00	0.00	1.77		10.35	18.92	83.84	86.68	31-May-18 06:00:00		11.66	18.92	83.84	88.45
31-May-18 07:00:00	31-May-18 08:00:00		0.00	0.00	0.00	5.32	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	31-May-18 07:00:00		10.35	18.92	83.84	88.44
31-May-18 08:00:00	31-May-18 09:00:00		0.00	0.00	0.00	5.27	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	31-May-18 08:00:00		10.35	18.92	83.84	88.42
31-May-18 09:00:00	31-May-18 10:00:00		0.00	0.00	0.00	5.26	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	31-May-18 09:00:00		10.35	18.92	83.84	88.41
31-May-18 10:00:00	31-May-18 11:00:00		0.00	0.00	0.00	5.20	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	31-May-18 10:00:00		10.35	18.92	83.84	88.39
31-May-18 11:00:00	31-May-18 12:00:00		0.00	0.00	0.00	5.11	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	31-May-18 11:00:00		10.35	18.92	83.84	88.37
31-May-18 12:00:00	31-May-18 13:00:00		0.00	0.00	0.00	5.03	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	31-May-18 12:00:00		10.35	18.92	83.84	88.34
31-May-18 13:00:00	31-May-18 14:00:00		0.00	123.69	0.00	4.97	2.1	329.7		0.00	40.78	0.00	1.64		10.35	18.92	83.84	86.68	31-May-18 13:00:00		10.35	59.70	83.84	88.32
31-May-18 14:00:00	31-May-18 15:00:00		0.00	30.47	0.00	4.91	2.1	329.7		0.00	10.05	0.00	1.62		10.35	18.92	83.84	86.68	31-May-18 14:00:00		10.35	28.97	83.84	88.30
31-May-18 15:00:00	31-May-18 16:00:00		0.70	0.00	0.00	4.83	2.1	329.7		0.23	0.00	0.00	1.59		10.35	18.92	83.84	86.68	31-May-18 15:00:00		10.58	18.92	83.84	88.27
31-May-18 16:00:00	31-May-18 17:00:00		0.51	0.00	0.00	4.76	2.1	329.7		0.17	0.00	0.00	1.57		10.35	18.92	83.84	86.68	31-May-18 16:00:00		10.52	18.92	83.84	88.25
31-May-18 17:00:00	31-May-18 18:00:00		0.31	277.87	0.00	4.71	2.1	329.7		0.10	91.62	0.00	1.55		10.35	18.92	83.84	86.68	31-May-18 17:00:00		10.45	110.54	83.84	88.23
31-May-18 18:00:00	31-May-18 19:00:00		0.12	326.52	0.00	4.74	2.1	329.7		0.04	107.65	0.00	1.56		10.35	18.92	83.84	86.68	31-May-18 18:00:00		10.39	126.57	83.84	88.24
31-May-18 19:00:00	31-May-18 20:00:00		0.00	324.23	0.00	5.16	2.1	329.7		0.00	106.90	0.00	1.70		10.35	18.92	83.84	86.68	31-May-18 19:00:00		10.35	125.82	83.84	88.38
31-May-18 20:00:00	31-May-18 21:00:00		0.00	321.82	0.00	5.40	2.1	329.7		0.00	106.10	0.00	1.78		10.35	18.92	83.84	86.68	31-May-18 20:00:00		10.35	125.02	83.84	88.46
31-May-18 21:00:00	31-May-18 22:00:00		0.00	322.13	0.00	5.40	2.1	329.7		0.00	106.21	0.00	1.78		10.35	18.92	83.84	86.68	31-May-18 21:00:00		10.35	125.13	83.84	88.46
31-May-18 22:00:00	31-May-18 23:00:00		6.45	373.27	0.00	5.55	2.1	329.7		2.13	123.07	0.00	1.83		10.35	18.92	83.84	86.68	31-May-18 22:00:00		12.48	141.99	83.84	88.51
31-May-18 23:00:00	01-Jun-18 00:00:00		22.03	592.75	0.00	5.69	2.1	329.7		7.26	195.43	0.00	1.88		10.35	18.92	83.84	86.68	31-May-18 23:00:00		17.61	214.35	83.84	88.56
01-Jun-18 00:00:00	01-Jun-18 01:00:00		14.76	590.67	0.00	5.78	2.1	329.7		4.87	194.74	0.00	1.90		10.35	18.92	83.84	86.68	01-Jun-18 00:00:00		15.22	213.66	83.84	88.58
01-Jun-18 01:00:00	01-Jun-18 02:00:00		16.60	637.41	0.00	27.91	2.1	329.7		5.47	210.15	0.00	9.20		10.35	18.92	83.84	86.68	01-Jun-18 01:00:00		15.82	229.07	83.84	95.88
01-Jun-18 02:00:00	01-Jun-18 03:00:00		14.93	711.79	0.00	6.00	2.1	329.7		4.92	234.68	0.00	1.98		10.35	18.92	83.84	86.68	01-Jun-18 02:00:00		15.27	253.60	83.84	88.66
01-Jun-18 03:00:00	01-Jun-18 04:00:00		12.18	529.06	0.00	6.18	2.1	329.7		4.02	174.43	0.00	2.04		10.35	18.92	83.84	86.68	01-Jun-18 03:00:00		14.37	193.35	83.84	88.72
01-Jun-18 04:00:00	01-Jun-18 05:00:00		17.34	824.85	0.00	93.78	2.1	329.7		5.72	271.95	0.00	30.92		10.35	18.92	83.84	86.68	01-Jun-18 04:00:00		16.07	290.87	83.84	117.60
01-Jun-18 05:00:00	01-Jun-18 06:00:00		13.59	592.75	0.00	6.26	2.1	329.7		4.48	195.43	0.00	2.06		10.35	18.92	83.84	86.68	01-Jun-18 05:00:00		14.83	214.35	83.84	88.74
01-Jun-18 06:00:00	01-Jun-18 07:00:00		12.71	589.48	0.00	6.17	2.1	329.7		4.19	194.35	0.00	2.04		10.35	18.92	83.84	86.68	01-Jun-18 06:00:00		14.54	213.27	83.84	88.72
01-Jun-18 07:00:00	01-Jun-18 08:00:00		0.00	589.74	0.00	6.09	2.1	329.7		0.00	194.44	0.00	2.01		10.35	18.92	83.84	86.68	01-Jun-18 07:00:00		10.35	213.36	83.84	88.69
01-Jun-18 08:00:00	01-Jun-18 09:00:00		0.00	544.25	0.00	5.95	2.1	329.7		0.00	179.44	0.00	1.96		10.35	18.92	83.84	86.68	01-Jun-18 08:00:00		10.35	198.36	83.84	88.64
01-Jun-18 09:00:00	01-Jun-18 10:00:00		0.00	180.00	0.00	5.65	2.1	329.7		0.00	59.35	0.00	1.86		10.35	18.92	83.84	86.68	01-Jun-18 09:00:00		10.35	78.27	83.84	88.54
01-Jun-18 10:00:00	01-Jun-18 11:00:00		0.95	88.37	0.38	5.35	2.1	329.7		0.31	29.14	0.13	1.76		10.35	18.92	83.84	86.68	01-Jun-18 10:00:00		10.66	48.06	83.97	88.44
01-Jun-18 11:00:00	01-Jun-18 12:00:00		2.53	0.00	0.00	5.04	2.1	329.7		0.83	0.00	0.00	1.66		10.35	18.92	83.84	86.68	01-Jun-18 11:00:00		11.18	18.92	83.84	88.34
01-Jun-18 12:00:00	01-Jun-18 13:00:00		2.23	0.00	0.00	4.75	2.1	329.7		0.74	0.00	0.00	1.57		10.35	18.92	83.84	86.68	01-Jun-18 12:00:00		11.09	18.92	83.84	88.25
01-Jun-18 13:00:00	01-Jun-18 14:00:00		1.55	0.00	0.00	8.86	2.1	329.7		0.51	0.00	0.00	2.92		10.35	18.92	83.84	86.68	01-Jun-18 13:00:00		10.86	18.92	83.84	89.60
01-Jun-18 14:00:00	01-Jun-18 15:00:00		0.86	0.00	0.00	4.50	2.1	329.7		0.28	0.00	0.00	1.49		10.35	18.92	83.84	86.68	01-Jun-18 14:00:00		10.63	18.92	83.84	88.17
01-Jun-18 15:00:00	01-Jun-18 16:00:00		0.29	0.00	0.00	4.56	2.1	329.7		0.09	0.00	0.00	1.50		10.35	18.92	83.84	86.68	01-Jun-18 15:00:00		10.44	18.92	83.84	88.18
01-Jun-18 16:00:00	01-Jun-18 17:00:00		0.00	0.00	0.00	4.62	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	01-Jun-18 16:00:00		10.35	18.92	83.84	88.20
01-Jun-18 17:00:00	01-Jun-18 18:00:00		0.00	0.00	0.00	4.77	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	01-Jun-18 17:00:00		10.35	18.92	83.84	88.25
01-Jun-18 18:00:00	01-Jun-18 19:00:00		0.00	0.00	0.00	5.28	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	01-Jun-18 18:00:00		10.35	18.92	83.84	88.42
01-Jun-18 19:00:00	01-Jun-18 20:00:00		0.00	0.00	0.00	5.82	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	01-Jun-18 19:00:00		10.35	18.92	83.84	88.60
01-Jun-18 20:00:00	01-Jun-18 21:00:00		0.00	0.00	0.00	11.57	2.1	329.7		0.00	0.00	0.00	3.81		10.35	18.92	83.84	86.68	01-Jun-18 20:00:00		10.35	18.92	83.84	90.49
01-Jun-18 21:00:00	01-Jun-18 22:00:00		0.54	0.00	0.00	6.22	2.1	329.7		0.18	0.00	0.00	2.05		10.35	18.92	83.84	86.68	01-Jun-18 21:00:00		10.53	18.92	83.84	88.73
01-Jun-18 22:00:00	01-Jun-18 23:00:00		0.38	0.00	0.00	6.08	2.1	329.7		0.12	0.00	0.00	2.00		10.35	18.92	83.84	86.68	01-Jun-18 22:00:00		10.47	18.92	83.84	88.68
01-Jun-18 23:00:00	02-Jun-18 00:00:00		0.45	0.00	0.00	5.93	2.1	329.7		0.15	0.00	0.00	1.96		10.35	18.92	83.84	86.68	01-Jun-18 23:00:00		10.50	18.92	83.84	88.64
02-Jun-18 00:00:00	02-Jun-18 01:00:00		0.59	0.00	0.00	5.83	2.1	329.7		0.19	0.00	0.00	1.92		10.35	18.92	83.84	86.68	02-Jun-18 00:00:00		10.54	18.92	83.84	88.60
02-Jun-18 01:00:00	02-Jun-18 02:00:00		3.57	0.00	0.00	5.92	2.1	329.7		1.18	0.00	0.00	1.95		10.35	18.92	83.84	86.68	02-Jun-18 01:00:00		11.53	18.92	83.84	88.63
02-Jun-18 02:00:00	02-Jun-18 03:00:00		6.35	0.00	0.00	6.03	2.1	329.7		2.09	0.00	0.00	1.99		10.35	18.92	83.84	86.68	02-Jun-18 02:00:00		12.44	18.92	83.84	88.67
02-Jun-18 03:00:00	02-Jun-18 04:00:00		0.00	0.00	0.00	6.14	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	02-Jun-18 03:00:00		10.35	18.92	83.84	88.71
02-Jun-18 04:00:00	02-Jun-18 05:00:00		0.00	0.00	0.00	6.15	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	02-Jun-18 04:00:00		10.35	18.92	83.84	88.71
02-Jun-18 05:00:00	02-Jun-18 06:00:00		0.00	0.00	0.00	6.08	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	02-Jun-18 05:00:00		10.35	18.92	83.84	88.68
02-Jun-18 06:00:00	02-Jun-18 07:00:00		0.40	0.00	0.00	6.08	2.1	329.7		0.13	0.00	0.00	2.01		10.35	18.92	83.84	86.68	02-Jun-18 06:00:00		10.48	18.92	83.84	88.69
02-Jun-18 07:00:00	02-Jun-18 08:00:00		0.00	0.00	0.00	10.72	2.1	329.7		0.00	0.00	0.00	3.53		10.35	18.92	83.84	86.68	02-Jun-18 07:00:00		10.35	18.92	83.84	90.21
02-Jun-18 08:00:00	02-Jun-18 09:00:00		0.00	0.00	0.00	6.02	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	02-Jun-18 08:00:00		10.35	18.92	83.84	88.67
02-Jun-18 09:00:00	02-Jun-18 10:00:00		0.00	0.00	0.00	5.86	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	02-Jun-18 09:00:00		10.35	18.92	83.84	88.61
02-Jun-18 10:00:00	02-Jun-18 11:00:00		0.00	0.00	0.00	5.70	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	02-Jun-18 10:00:00		10.35	18.92	83.84	88.56
02-Jun-18 11:00:00	02-Jun-18 12:00:00		0.71	0.00	0.00	5.49	2.1	329.7		0.23	0.00	0.00	1.81		10.35	18.92	83.84	86.68	02-Jun-18 11:00:00		10.58	18.92	83.84	88.49
02-Jun-18 12:00:00	02-Jun-18 13:00:00		0.29	0.00	0.00	5.21	2.1	329.7		0.10	0.00	0.00	1.72		10.35	18.92	83.84	86.68	02-Jun-18 12:00:00		10.45	18.92	83.84	88.40
02-Jun-18 13:00:00	02-Jun-18 14:00:00		0.85	0.00	0.00	5.06	2.1	329.7		0.28	0.00	0.00	1.67		10.35	18.92	83.84	86.68	02-Jun-18 13:00:00		10.63	18.92	83.84	88.35
02-Jun-18 14:00:00	02-Jun-18 15:00:00		0.00	0.00	0.00	4.91	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	02-Jun-18 14:00:00		10.35	18.92	83.84	88.30
02-Jun-18 15:00:00	02-Jun-18 16:00:00		0.00	0.00	0.00	4.76	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	02-Jun-18 15:00:00		10.35	18.92	83.84	88.25
02-Jun-18 16:00:00	02-Jun-18 17:00:00		0.00	0.00	0.00	4.73	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	02-Jun-18 16:00:00		10.35	18.92	83.84	88.24
02-Jun-18 17:00:00	02-Jun-18 18:00:00		0.08	0.00	0.00	4.80	2.1	329.7		0.03	0.00	0.00	1.58		10.35	18.92	83.84	86.68	02-Jun-18 17:00:00		10.38	18.92	83.84	88.26
02-Jun-18 18:00:00	02-Jun-18 19:00:00		0.00	0.00	0.00	4.87	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	02-Jun-18 18:00:00		10.35	18.92	83.84	88.29
02-Jun-18 19:00:00	02-Jun-18 20:00:00		0.00	0.00	0.00	4.92	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	02-Jun-18 19:00:00		10.35	18.92	83.84	88.30
02-Jun-18 20:00:00	02-Jun-18 21:00:00		0.00	0.00	0.00	5.00	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	02-Jun-18 20:00:00		10.35	18.92	83.84	88.33
02-Jun-18 21:00:00	02-Jun-18 22:00:00		0.00	0.00	0.00	5.18	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	02-Jun-18 21:00:00		10.35	18.92	83.84	88.39
02-Jun-18 22:00:00	02-Jun-18 23:00:00		0.00	0.00	0.00	5.35	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	02-Jun-18 22:00:00		10.35	18.92	83.84	88.44
02-Jun-18 23:00:00

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
04-Jun-18 23:00:00	05-Jun-18 00:00:00		1.04	0.00	0.00	5.78	2.1	329.7		0.34	0.00	0.00	1.91		10.35	18.92	83.84	86.68	04-Jun-18 23:00:00		10.69	18.92	83.84	88.59
05-Jun-18 00:00:00	05-Jun-18 01:00:00		1.02	0.00	0.00	5.89	2.1	329.7		0.34	0.00	0.00	1.94		10.35	18.92	83.84	86.68	05-Jun-18 00:00:00		10.69	18.92	83.84	88.62
05-Jun-18 01:00:00	05-Jun-18 02:00:00		0.00	0.00	0.00	5.86	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	05-Jun-18 01:00:00		10.35	18.92	83.84	88.61
05-Jun-18 02:00:00	05-Jun-18 03:00:00		0.00	0.00	0.00	5.82	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	05-Jun-18 02:00:00		10.35	18.92	83.84	88.60
05-Jun-18 03:00:00	05-Jun-18 04:00:00		0.00	0.00	0.00	5.79	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	05-Jun-18 03:00:00		10.35	18.92	83.84	88.59
05-Jun-18 04:00:00	05-Jun-18 05:00:00		0.00	0.00	0.00	5.90	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	05-Jun-18 04:00:00		10.35	18.92	83.84	88.62
05-Jun-18 05:00:00	05-Jun-18 06:00:00		0.07	0.00	0.00	6.08	2.1	329.7		0.02	0.00	0.00	2.00		10.35	18.92	83.84	86.68	05-Jun-18 05:00:00		10.37	18.92	83.84	88.68
05-Jun-18 06:00:00	05-Jun-18 07:00:00		0.00	0.00	0.00	6.25	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	05-Jun-18 06:00:00		10.35	18.92	83.84	88.74
05-Jun-18 07:00:00	05-Jun-18 08:00:00		0.00	0.00	0.00	6.43	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	05-Jun-18 07:00:00		10.35	18.92	83.84	88.80
05-Jun-18 08:00:00	05-Jun-18 09:00:00		0.00	0.00	0.00	6.39	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	05-Jun-18 08:00:00		10.35	18.92	83.84	88.79
05-Jun-18 09:00:00	05-Jun-18 10:00:00		0.00	0.00	0.00	6.19	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	05-Jun-18 09:00:00		10.35	18.92	83.84	88.72
05-Jun-18 10:00:00	05-Jun-18 11:00:00		0.00	0.00	0.00	5.98	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	05-Jun-18 10:00:00		10.35	18.92	83.84	88.65
05-Jun-18 11:00:00	05-Jun-18 12:00:00		0.00	0.00	0.00	5.80	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	05-Jun-18 11:00:00		10.35	18.92	83.84	88.59
05-Jun-18 12:00:00	05-Jun-18 13:00:00		0.00	0.00	0.00	5.71	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	05-Jun-18 12:00:00		10.35	18.92	83.84	88.56
05-Jun-18 13:00:00	05-Jun-18 14:00:00		0.00	0.00	0.00	5.54	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	05-Jun-18 13:00:00		10.35	18.92	83.84	88.51
05-Jun-18 14:00:00	05-Jun-18 15:00:00		0.00	0.00	0.00	5.37	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	05-Jun-18 14:00:00		10.35	18.92	83.84	88.45
05-Jun-18 15:00:00	05-Jun-18 16:00:00		0.16	0.00	0.00	5.20	2.1	329.7		0.05	0.00	0.00	1.72		10.35	18.92	83.84	86.68	05-Jun-18 15:00:00		10.40	18.92	83.84	88.40
05-Jun-18 16:00:00	05-Jun-18 17:00:00		0.00	0.00	0.00	5.14	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	05-Jun-18 16:00:00		10.35	18.92	83.84	88.38
05-Jun-18 17:00:00	05-Jun-18 18:00:00		0.00	0.00	0.00	5.14	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	05-Jun-18 17:00:00		10.35	18.92	83.84	88.38
05-Jun-18 18:00:00	05-Jun-18 19:00:00		0.00	0.00	0.00	8.92	2.1	329.7		0.00	0.00	0.00	2.94		10.35	18.92	83.84	86.68	05-Jun-18 18:00:00		10.35	18.92	83.84	89.62
05-Jun-18 19:00:00	05-Jun-18 20:00:00		0.00	0.00	0.00	5.24	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	05-Jun-18 19:00:00		10.35	18.92	83.84	88.41
05-Jun-18 20:00:00	05-Jun-18 21:00:00		0.00	0.00	0.00	5.32	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	05-Jun-18 20:00:00		10.35	18.92	83.84	88.44
05-Jun-18 21:00:00	05-Jun-18 22:00:00		0.00	0.00	0.00	5.40	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	05-Jun-18 21:00:00		10.35	18.92	83.84	88.46
05-Jun-18 22:00:00	05-Jun-18 23:00:00		0.00	0.00	0.00	5.62	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	05-Jun-18 22:00:00		10.35	18.92	83.84	88.53
05-Jun-18 23:00:00	06-Jun-18 00:00:00		0.00	0.00	0.00	5.83	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	05-Jun-18 23:00:00		10.35	18.92	83.84	88.60
06-Jun-18 00:00:00	06-Jun-18 01:00:00		0.00	0.00	0.00	6.02	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	06-Jun-18 00:00:00		10.35	18.92	83.84	88.66
06-Jun-18 01:00:00	06-Jun-18 02:00:00		0.00	0.00	0.00	6.21	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	06-Jun-18 01:00:00		10.35	18.92	83.84	88.73
06-Jun-18 02:00:00	06-Jun-18 03:00:00		0.00	0.00	0.00	6.33	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	06-Jun-18 02:00:00		10.35	18.92	83.84	88.77
06-Jun-18 03:00:00	06-Jun-18 04:00:00		0.00	0.00	0.00	6.31	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	06-Jun-18 03:00:00		10.35	18.92	83.84	88.76
06-Jun-18 04:00:00	06-Jun-18 05:00:00		0.00	0.00	0.00	6.29	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	06-Jun-18 04:00:00		10.35	18.92	83.84	88.75
06-Jun-18 05:00:00	06-Jun-18 06:00:00		0.00	0.00	0.00	6.27	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	06-Jun-18 05:00:00		10.35	18.92	83.84	88.75
06-Jun-18 06:00:00	06-Jun-18 07:00:00		0.49	0.00	0.00	6.25	2.1	329.7		0.16	0.00	0.00	2.06		10.35	18.92	83.84	86.68	06-Jun-18 06:00:00		10.51	18.92	83.84	88.74
06-Jun-18 07:00:00	06-Jun-18 08:00:00		1.20	0.00	0.00	6.03	2.1	329.7		0.39	0.00	0.00	1.99		10.35	18.92	83.84	86.68	06-Jun-18 07:00:00		10.74	18.92	83.84	88.67
06-Jun-18 08:00:00	06-Jun-18 09:00:00		2.05	0.00	0.00	5.79	2.1	329.7		0.68	0.00	0.00	1.91		10.35	18.92	83.84	86.68	06-Jun-18 08:00:00		11.03	18.92	83.84	88.59
06-Jun-18 09:00:00	06-Jun-18 10:00:00		1.81	0.00	0.00	5.55	2.1	329.7		0.60	0.00	0.00	1.83		10.35	18.92	83.84	86.68	06-Jun-18 09:00:00		10.95	18.92	83.84	88.51
06-Jun-18 10:00:00	06-Jun-18 11:00:00		0.00	0.00	0.00	5.25	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	06-Jun-18 10:00:00		10.35	18.92	83.84	88.41
06-Jun-18 11:00:00	06-Jun-18 12:00:00		0.00	0.00	0.00	5.08	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	06-Jun-18 11:00:00		10.35	18.92	83.84	88.35
06-Jun-18 12:00:00	06-Jun-18 13:00:00		0.00	0.00	0.00	4.93	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	06-Jun-18 12:00:00		10.35	18.92	83.84	88.31
06-Jun-18 13:00:00	06-Jun-18 14:00:00		0.06	0.00	0.00	4.79	2.1	329.7		0.02	0.00	0.00	1.58		10.35	18.92	83.84	86.68	06-Jun-18 13:00:00		10.37	18.92	83.84	88.26
06-Jun-18 14:00:00	06-Jun-18 15:00:00		0.08	0.00	0.00	4.69	2.1	329.7		0.03	0.00	0.00	1.55		10.35	18.92	83.84	86.68	06-Jun-18 14:00:00		10.38	18.92	83.84	88.23
06-Jun-18 15:00:00	06-Jun-18 16:00:00		0.00	0.00	0.00	4.71	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	06-Jun-18 15:00:00		10.35	18.92	83.84	88.23
06-Jun-18 16:00:00	06-Jun-18 17:00:00		0.00	0.00	0.00	4.73	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	06-Jun-18 16:00:00		10.35	18.92	83.84	88.24
06-Jun-18 17:00:00	06-Jun-18 18:00:00		0.00	0.00	0.00	5.13	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	06-Jun-18 17:00:00		10.35	18.92	83.84	88.37
06-Jun-18 18:00:00	06-Jun-18 19:00:00		0.00	0.00	0.00	4.91	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	06-Jun-18 18:00:00		10.35	18.92	83.84	88.30
06-Jun-18 19:00:00	06-Jun-18 20:00:00		0.00	0.00	0.00	5.02	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	06-Jun-18 19:00:00		10.35	18.92	83.84	88.33
06-Jun-18 20:00:00	06-Jun-18 21:00:00		0.00	0.00	0.00	5.12	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	06-Jun-18 20:00:00		10.35	18.92	83.84	88.37
06-Jun-18 21:00:00	06-Jun-18 22:00:00		0.00	0.00	0.00	5.30	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	06-Jun-18 21:00:00		10.35	18.92	83.84	88.43
06-Jun-18 22:00:00	06-Jun-18 23:00:00		0.00	0.00	0.00	5.47	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	06-Jun-18 22:00:00		10.35	18.92	83.84	88.48
06-Jun-18 23:00:00	07-Jun-18 00:00:00		0.00	0.00	0.00	5.65	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	06-Jun-18 23:00:00		10.35	18.92	83.84	88.54
07-Jun-18 00:00:00	07-Jun-18 01:00:00		0.00	0.00	0.00	5.82	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	07-Jun-18 00:00:00		10.35	18.92	83.84	88.60
07-Jun-18 01:00:00	07-Jun-18 02:00:00		0.00	0.00	0.00	5.86	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	07-Jun-18 01:00:00		10.35	18.92	83.84	88.61
07-Jun-18 02:00:00	07-Jun-18 03:00:00		0.00	0.00	0.00	6.00	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	07-Jun-18 02:00:00		10.35	18.92	83.84	88.66
07-Jun-18 03:00:00	07-Jun-18 04:00:00		0.00	0.00	0.00	6.14	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	07-Jun-18 03:00:00		10.35	18.92	83.84	88.70
07-Jun-18 04:00:00	07-Jun-18 05:00:00		0.00	0.00	0.00	6.29	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	07-Jun-18 04:00:00		10.35	18.92	83.84	88.75
07-Jun-18 05:00:00	07-Jun-18 06:00:00		0.00	0.00	0.00	6.30	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	07-Jun-18 05:00:00		10.35	18.92	83.84	88.76
07-Jun-18 06:00:00	07-Jun-18 07:00:00		0.00	0.00	0.00	6.26	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	07-Jun-18 06:00:00		10.35	18.92	83.84	88.74
07-Jun-18 07:00:00	07-Jun-18 08:00:00		0.00	0.00	0.00	6.23	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	07-Jun-18 07:00:00		10.35	18.92	83.84	88.73
07-Jun-18 08:00:00	07-Jun-18 09:00:00		0.00	0.00	0.00	6.19	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	07-Jun-18 08:00:00		10.35	18.92	83.84	88.72
07-Jun-18 09:00:00	07-Jun-18 10:00:00		0.00	0.00	0.00	6.23	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	07-Jun-18 09:00:00		10.35	18.92	83.84	88.73
07-Jun-18 10:00:00	07-Jun-18 11:00:00		0.00	0.00	0.00	5.96	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	07-Jun-18 10:00:00		10.35	18.92	83.84	88.65
07-Jun-18 11:00:00	07-Jun-18 12:00:00		0.00	0.00	0.00	5.67	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	07-Jun-18 11:00:00		10.35	18.92	83.84	88.55
07-Jun-18 12:00:00	07-Jun-18 13:00:00		0.00	0.00	0.00	5.39	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	07-Jun-18 12:00:00		10.35	18.92	83.84	88.46
07-Jun-18 13:00:00	07-Jun-18 14:00:00		0.00	0.00	0.00	5.20	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	07-Jun-18 13:00:00		10.35	18.92	83.84	88.39
07-Jun-18 14:00:00	07-Jun-18 15:00:00		0.00	0.00	0.00	5.15	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	07-Jun-18 14:00:00		10.35	18.92	83.84	88.38
07-Jun-18 15:00:00	07-Jun-18 16:00:00		0.00	0.00	0.00	5.11	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	07-Jun-18 15:00:00		10.35	18.92	83.84	88.36
07-Jun-18 16:00:00	07-Jun-18 17:00:00		0.00	0.00	0.00	5.07	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	07-Jun-18 16:00:00		10.35	18.92	83.84	88.35
07-Jun-18 17:00:00	07-Jun-18 18:00:00		0.00	0.00	0.00	5.03	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	07-Jun-18 17:00:00		10.35	18.92	83.84	88.34
07-Jun-18 18:00:00	07-Jun-18 19:00:00		0.00	0.00	0.00	5.04	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	07-Jun-18 18:00:00		10.35	18.92	83.84	88.34
07-Jun-18 19:00:00	07-Jun-18 20:00:00		0.00	0.00	0.00	5.06	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	07-Jun-18 19:00:00		10.35	18.92	83.84	88.35
07-Jun-18 20:00:00	07-Jun-18 21:00:00		0.00	0.00	0.00	5.07	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	07-Jun-18 20:00:00		10.35	18.92	83.84	88.35
07-Jun-18 21:00:00	07-Jun-18 22:00:00		0.00	0.00	0.00	5.02	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	07-Jun-18 21:00:00		10.35	18.92	83.84	88.33
07-Jun-18 22:00:00	07-Jun-18 23:00:00		0.11	0.00	0.00	5.33	2.1	329.7		0.04	0.00	0.00	1.76		10.35	18.92	83.84	86.68	07-Jun-18 22:00:00		10.39	18.92	83.84	88.44
07-Jun-18 23:00:00	08-Jun-18 00:00:00		0.70	0.00	0.00	5.68	2.1	329.7		0.23	0.00	0.00	1.87		10.35	18.92	83.84	86.68	07-Jun-18 23:00:00		10.58	18.92	83.84	88.55
08-Jun-18 00:00:00	08-Jun-18 01:00:00		0.16	0.00	0.00	6.03	2.1	329.7		0.05	0.00	0.00	1.99		10.35	18.92	83.84	86.68	08-Jun-18 00:00:00		10.40	18.92	83.84	88.67
08-Jun-18 01:00:00	08-Jun-18 02:00:00		0.18	0.00	0.00	6.14	2.1	329.7		0.06	0.00	0.00	2.02		10.35	18.92	83.84	86.68	08-Jun-18 01:00:00		10.41	18.92	83.84	88.70
08-Jun-18 02:00:00	08-Jun-18 03:00:00		0.00	0.00	0.00	6.10	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	08-Jun-18 02:00:00		10.35	18.92	83.84	88.69
08-Jun-18 03:00:00	08-Jun-18 04:00:00		0.00	0.00	0.00	6.07	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	08-Jun-18 03:00:00		10.35	18.92	83.84	88.68
08-Jun-18 04:00:00	08-Jun-18 05:00:00		0.00	0.00	0.00	6.05	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	08-Jun-18 04:00:00		10.35	18.92	83.84	88.67
08-Jun-18 05:00:00	08-Jun-18 06:00:00		0.00	0.00	0.00	6.01	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	08-Jun-18 05:00:00		10.35	18.92	83.84	88.66
08-Jun-18 06:00:00	08-Jun-18 07:00:00		0.00	0.00	0.00	6.08	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	08-Jun-18 06:00:00		10.35	18.92	83.84	88.68
08-Jun-18 07:00:00	08-Jun-18 08:00:00		0.28	0.00	0.00	6.15	2.1	329.7		0.09	0.00	0.00	2.03		10.35	18.92	83.84	86.68	08-Jun-18 07:00:00		10.44	18.92	83.84	88.71
08-Jun-18 08:00:00	08-Jun-18 09:00:00		0.00	0.00	0.00	6.22	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	08-Jun-18 08:00:00		10.35	18.92	83.84	88.73
08-Jun-18 09:00:00	08-Jun-18 10:00:00		0.00	0.00	0.00	6.20	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	08-Jun-18 09:00:00		10.35	18.92	83.84	88.72
08-Jun-18 10:00:00	08-Jun-18 11:00:00		0.00	0.00	0.00	5.92	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	08-Jun-18 10:00:00		10.35	18.92	83.84	88.63
08-Jun-18 11:00:00	08-Jun-18 12:00:00		0.00	0.00	0.00	5.63	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	08-Jun-18 11:00:00		10.35	18.92	83.84	88.53
08-Jun-18 12:00:00	08-Jun-18 13:00:00		0.19	0.00	0.00	5.34	2.1	329.7		0.04	0.00	0.00	1.76		10.35	18.92	83.84	86.68	08-Jun-18 12:00:00		10.41	18.92	83.84	88.44
08-Jun-18 13:00:00	08-Jun-18 14:00:00		0.00	0.00	0.00	5.13	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	08-Jun-18 13:00:00		10.35	18.92	83.84	88.37
08-Jun-18 14:00:00	08-Jun-18 15:00:00		0.00	0.00	0.00	5.11	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	08-Jun-18 14:00:00		10.35	18.92	83.84	88.36
08-Jun-18 15:00:00	08-Jun-18 16:00:00		0.00	0.00	0.00	5.08	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	08-Jun-18 15:00:00		10.35	18.92	83.84	88.36
08-Jun-18 16:00:00	08-Jun-18 17:00:00		0.00	0.00	0.00	5.06	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	08-Jun-18 16:00:00		10.35	18.92	83.84	88.35
08-Jun-18 17:00:00	08-Jun-18 18:00:00		0.00	0.00	0.00	4.92	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	08-Jun-18 17:00:00		10.35	18.92	83.84	88.30
08-Jun-18 18:00:00	08-Jun-18 19:00:00		0.00	0.00	0.00	5.04	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	08-Jun-18 18:00:00		10.35	18.92	83.84	88.34
08-Jun-18 19:00:00	08-Jun-18 20:00:00		0.00	0.00	0.00	5.19	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	08-Jun-18 19:00:00		10.35	18.92	83.84	88.39
08-Jun-18 20:00:00	08-Jun-18 21:00:00		0.00	0.00	0.00	5.35

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
10-Jun-18 22:00:00	10-Jun-18 23:00:00		0.00	0.00	0.00	5.45	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	10-Jun-18 22:00:00		**10.35**	**18.92**	**83.84**	**88.48**
10-Jun-18 23:00:00	11-Jun-18 00:00:00		0.53	0.00	0.00	5.61	2.1	329.7		0.17	0.00	0.00	1.85		10.35	18.92	83.84	86.68	10-Jun-18 23:00:00		**10.52**	**18.92**	**83.84**	**88.53**
11-Jun-18 00:00:00	11-Jun-18 01:00:00		0.85	0.00	0.00	5.76	2.1	329.7		0.28	0.00	0.00	1.90		10.35	18.92	83.84	86.68	11-Jun-18 00:00:00		**10.63**	**18.92**	**83.84**	**88.58**
11-Jun-18 01:00:00	11-Jun-18 02:00:00		0.67	0.00	0.00	5.83	2.1	329.7		0.22	0.00	0.00	1.92		10.35	18.92	83.84	86.68	11-Jun-18 01:00:00		**10.57**	**18.92**	**83.84**	**88.60**
11-Jun-18 02:00:00	11-Jun-18 03:00:00		1.07	0.00	0.00	5.88	2.1	329.7		0.35	0.00	0.00	1.94		10.35	18.92	83.84	86.68	11-Jun-18 02:00:00		**10.70**	**18.92**	**83.84**	**88.62**
11-Jun-18 03:00:00	11-Jun-18 04:00:00		0.00	0.00	0.00	5.94	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	11-Jun-18 03:00:00		**10.35**	**18.92**	**83.84**	**88.64**
11-Jun-18 04:00:00	11-Jun-18 05:00:00		0.00	0.00	0.00	6.00	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	11-Jun-18 04:00:00		**10.35**	**18.92**	**83.84**	**88.66**
11-Jun-18 05:00:00	11-Jun-18 06:00:00		0.00	0.00	0.00	6.08	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	11-Jun-18 05:00:00		**10.35**	**18.92**	**83.84**	**88.68**
11-Jun-18 06:00:00	11-Jun-18 07:00:00		0.00	0.00	0.00	6.09	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	11-Jun-18 06:00:00		**10.35**	**18.92**	**83.84**	**88.69**
11-Jun-18 07:00:00	11-Jun-18 08:00:00		0.00	0.00	0.00	6.09	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	11-Jun-18 07:00:00		**10.35**	**18.92**	**83.84**	**88.69**
11-Jun-18 08:00:00	11-Jun-18 09:00:00		0.00	0.00	0.00	6.10	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	11-Jun-18 08:00:00		**10.35**	**18.92**	**83.84**	**88.69**
11-Jun-18 09:00:00	11-Jun-18 10:00:00		0.00	0.00	0.00	6.07	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	11-Jun-18 09:00:00		**10.35**	**18.92**	**83.84**	**88.68**
11-Jun-18 10:00:00	11-Jun-18 11:00:00		0.16	0.00	0.00	5.76	2.1	329.7		0.05	0.00	0.00	1.90		10.35	18.92	83.84	86.68	11-Jun-18 10:00:00		**10.40**	**18.92**	**83.84**	**88.58**
11-Jun-18 11:00:00	11-Jun-18 12:00:00		0.45	0.00	0.00	5.43	2.1	329.7		0.15	0.00	0.00	1.79		10.35	18.92	83.84	86.68	11-Jun-18 11:00:00		**10.50**	**18.92**	**83.84**	**88.47**
11-Jun-18 12:00:00	11-Jun-18 13:00:00		0.00	0.00	0.00	5.09	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	11-Jun-18 12:00:00		**10.35**	**18.92**	**83.84**	**88.36**
11-Jun-18 13:00:00	11-Jun-18 14:00:00		2.13	0.00	0.00	4.80	2.1	329.7		0.70	0.00	0.00	1.58		10.35	18.92	83.84	86.68	11-Jun-18 13:00:00		**11.05**	**18.92**	**83.84**	**88.26**
11-Jun-18 14:00:00	11-Jun-18 15:00:00		2.88	0.00	0.00	4.71	2.1	329.7		0.95	0.00	0.00	1.55		10.35	18.92	83.84	86.68	11-Jun-18 14:00:00		**11.30**	**18.92**	**83.84**	**88.23**
11-Jun-18 15:00:00	11-Jun-18 16:00:00		1.13	0.00	0.00	4.64	2.1	329.7		0.37	0.00	0.00	1.53		10.35	18.92	83.84	86.68	11-Jun-18 15:00:00		**10.72**	**18.92**	**83.84**	**88.21**
11-Jun-18 16:00:00	11-Jun-18 17:00:00		0.00	0.00	0.00	4.57	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	11-Jun-18 16:00:00		**10.35**	**18.92**	**83.84**	**88.19**
11-Jun-18 17:00:00	11-Jun-18 18:00:00		0.00	0.00	0.00	4.60	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	11-Jun-18 17:00:00		**10.35**	**18.92**	**83.84**	**88.20**
11-Jun-18 18:00:00	11-Jun-18 19:00:00		0.00	0.00	0.00	4.87	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	11-Jun-18 18:00:00		**10.35**	**18.92**	**83.84**	**88.29**
11-Jun-18 19:00:00	11-Jun-18 20:00:00		0.22	0.00	0.00	16.99	2.1	329.7		0.07	0.00	0.00	5.60		10.35	18.92	83.84	86.68	11-Jun-18 19:00:00		**10.42**	**18.92**	**83.84**	**92.28**
11-Jun-18 20:00:00	11-Jun-18 21:00:00		0.98	0.00	0.00	5.77	2.1	329.7		0.32	0.00	0.00	1.90		10.35	18.92	83.84	86.68	11-Jun-18 20:00:00		**10.67**	**18.92**	**83.84**	**88.58**
11-Jun-18 21:00:00	11-Jun-18 22:00:00		1.87	0.00	0.00	6.20	2.1	329.7		0.62	0.00	0.00	2.04		10.35	18.92	83.84	86.68	11-Jun-18 21:00:00		**10.97**	**18.92**	**83.84**	**88.72**
11-Jun-18 22:00:00	11-Jun-18 23:00:00		0.00	0.00	0.00	116.51	2.1	329.7		0.00	0.00	0.00	38.41		10.35	18.92	83.84	86.68	11-Jun-18 22:00:00		**10.35**	**18.92**	**83.84**	**125.09**
11-Jun-18 23:00:00	12-Jun-18 00:00:00		0.00	0.00	0.00	6.62	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	11-Jun-18 23:00:00		**10.35**	**18.92**	**83.84**	**88.86**
12-Jun-18 00:00:00	12-Jun-18 01:00:00		0.00	0.00	0.00	6.54	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	12-Jun-18 00:00:00		**10.35**	**18.92**	**83.84**	**88.84**
12-Jun-18 01:00:00	12-Jun-18 02:00:00		0.00	0.00	0.00	6.47	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	12-Jun-18 01:00:00		**10.35**	**18.92**	**83.84**	**88.81**
12-Jun-18 02:00:00	12-Jun-18 03:00:00		0.00	0.00	0.00	6.41	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	12-Jun-18 02:00:00		**10.35**	**18.92**	**83.84**	**88.79**
12-Jun-18 03:00:00	12-Jun-18 04:00:00		0.00	0.00	0.00	6.51	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	12-Jun-18 03:00:00		**10.35**	**18.92**	**83.84**	**88.83**
12-Jun-18 04:00:00	12-Jun-18 05:00:00		0.00	0.00	0.00	6.63	2.1	329.7		0.00	0.00	0.00	2.19		10.35	18.92	83.84	86.68	12-Jun-18 04:00:00		**10.35**	**18.92**	**83.84**	**88.87**
12-Jun-18 05:00:00	12-Jun-18 06:00:00		7.64	0.00	0.00	6.75	2.1	329.7		2.52	0.00	0.00	2.23		10.35	18.92	83.84	86.68	12-Jun-18 05:00:00		**12.87**	**18.92**	**83.84**	**88.91**
12-Jun-18 06:00:00	12-Jun-18 07:00:00		1.59	0.00	0.00	6.81	2.1	329.7		0.52	0.00	0.00	2.24		10.35	18.92	83.84	86.68	12-Jun-18 06:00:00		**10.87**	**18.92**	**83.84**	**88.92**
12-Jun-18 07:00:00	12-Jun-18 08:00:00		1.05	0.00	0.00	6.73	2.1	329.7		0.35	0.00	0.00	2.22		10.35	18.92	83.84	86.68	12-Jun-18 07:00:00		**10.70**	**18.92**	**83.84**	**88.90**
12-Jun-18 08:00:00	12-Jun-18 09:00:00		0.51	0.00	0.00	6.66	2.1	329.7		0.17	0.00	0.00	2.20		10.35	18.92	83.84	86.68	12-Jun-18 08:00:00		**10.52**	**18.92**	**83.84**	**88.88**
12-Jun-18 09:00:00	12-Jun-18 10:00:00		0.05	0.00	0.00	6.58	2.1	329.7		0.02	0.00	0.00	2.17		10.35	18.92	83.84	86.68	12-Jun-18 09:00:00		**10.37**	**18.92**	**83.84**	**88.85**
12-Jun-18 10:00:00	12-Jun-18 11:00:00		0.00	0.00	0.00	6.50	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	12-Jun-18 10:00:00		**10.35**	**18.92**	**83.84**	**88.82**
12-Jun-18 11:00:00	12-Jun-18 12:00:00		0.00	0.00	0.00	116.49	2.1	329.7		0.00	0.00	0.00	38.41		10.35	18.92	83.84	86.68	12-Jun-18 11:00:00		**10.35**	**18.92**	**83.84**	**125.09**
12-Jun-18 12:00:00	12-Jun-18 13:00:00		0.00	0.00	0.00	6.55	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	12-Jun-18 12:00:00		**10.35**	**18.92**	**83.84**	**88.84**
12-Jun-18 13:00:00	12-Jun-18 14:00:00		0.00	0.00	0.00	6.37	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	12-Jun-18 13:00:00		**10.35**	**18.92**	**83.84**	**88.78**
12-Jun-18 14:00:00	12-Jun-18 15:00:00		0.00	0.00	0.00	6.19	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	12-Jun-18 14:00:00		**10.35**	**18.92**	**83.84**	**88.72**
12-Jun-18 15:00:00	12-Jun-18 16:00:00		0.00	0.00	0.00	6.12	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	12-Jun-18 15:00:00		**10.35**	**18.92**	**83.84**	**88.70**
12-Jun-18 16:00:00	12-Jun-18 17:00:00		0.00	0.00	0.00	6.05	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	12-Jun-18 16:00:00		**10.35**	**18.92**	**83.84**	**88.68**
12-Jun-18 17:00:00	12-Jun-18 18:00:00		0.00	0.00	0.00	5.95	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	12-Jun-18 17:00:00		**10.35**	**18.92**	**83.84**	**88.64**
12-Jun-18 18:00:00	12-Jun-18 19:00:00		0.00	0.00	0.00	5.84	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	12-Jun-18 18:00:00		**10.35**	**18.92**	**83.84**	**88.61**
12-Jun-18 19:00:00	12-Jun-18 20:00:00		0.00	0.00	0.00	5.82	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	12-Jun-18 19:00:00		**10.35**	**18.92**	**83.84**	**88.60**
12-Jun-18 20:00:00	12-Jun-18 21:00:00		0.00	0.00	0.00	5.96	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	12-Jun-18 20:00:00		**10.35**	**18.92**	**83.84**	**88.65**
12-Jun-18 21:00:00	12-Jun-18 22:00:00		0.00	0.00	0.00	6.09	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	12-Jun-18 21:00:00		**10.35**	**18.92**	**83.84**	**88.69**
12-Jun-18 22:00:00	12-Jun-18 23:00:00		0.00	0.00	0.00	6.22	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	12-Jun-18 22:00:00		**10.35**	**18.92**	**83.84**	**88.73**
12-Jun-18 23:00:00	13-Jun-18 00:00:00		0.00	0.00	0.00	6.30	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	12-Jun-18 23:00:00		**10.35**	**18.92**	**83.84**	**88.76**
13-Jun-18 00:00:00	13-Jun-18 01:00:00		0.00	0.00	0.00	6.18	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	13-Jun-18 00:00:00		**10.35**	**18.92**	**83.84**	**88.72**
13-Jun-18 01:00:00	13-Jun-18 02:00:00		0.00	0.00	0.00	6.05	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	13-Jun-18 01:00:00		**10.35**	**18.92**	**83.84**	**88.67**
13-Jun-18 02:00:00	13-Jun-18 03:00:00		0.00	0.00	0.00	5.91	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	13-Jun-18 02:00:00		**10.35**	**18.92**	**83.84**	**88.63**
13-Jun-18 03:00:00	13-Jun-18 04:00:00		0.00	0.00	0.00	5.81	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	13-Jun-18 03:00:00		**10.35**	**18.92**	**83.84**	**88.60**
13-Jun-18 04:00:00	13-Jun-18 05:00:00		0.00	0.00	0.00	5.82	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	13-Jun-18 04:00:00		**10.35**	**18.92**	**83.84**	**88.60**
13-Jun-18 05:00:00	13-Jun-18 06:00:00		0.00	0.00	0.00	5.84	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	13-Jun-18 05:00:00		**10.35**	**18.92**	**83.84**	**88.61**
13-Jun-18 06:00:00	13-Jun-18 07:00:00		0.00	0.00	0.00	9.71	2.1	329.7		0.00	0.00	0.00	3.20		10.35	18.92	83.84	86.68	13-Jun-18 06:00:00		**10.35**	**18.92**	**83.84**	**89.88**
13-Jun-18 07:00:00	13-Jun-18 08:00:00		0.00	0.00	0.00	5.86	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	13-Jun-18 07:00:00		**10.35**	**18.92**	**83.84**	**88.61**
13-Jun-18 08:00:00	13-Jun-18 09:00:00		0.00	0.00	0.00	5.83	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	13-Jun-18 08:00:00		**10.35**	**18.92**	**83.84**	**88.60**
13-Jun-18 09:00:00	13-Jun-18 10:00:00		0.00	0.00	0.00	5.80	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	13-Jun-18 09:00:00		**10.35**	**18.92**	**83.84**	**88.59**
13-Jun-18 10:00:00	13-Jun-18 11:00:00		0.00	0.00	0.00	5.76	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	13-Jun-18 10:00:00		**10.35**	**18.92**	**83.84**	**88.58**
13-Jun-18 11:00:00	13-Jun-18 12:00:00		0.00	0.00	0.00	5.64	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	13-Jun-18 11:00:00		**10.35**	**18.92**	**83.84**	**88.54**
13-Jun-18 12:00:00	13-Jun-18 13:00:00		0.18	0.00	0.00	5.52	2.1	329.7		0.06	0.00	0.00	1.82		10.35	18.92	83.84	86.68	13-Jun-18 12:00:00		**10.41**	**18.92**	**83.84**	**88.50**
13-Jun-18 13:00:00	13-Jun-18 14:00:00		0.00	0.00	0.00	5.39	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	13-Jun-18 13:00:00		**10.35**	**18.92**	**83.84**	**88.46**
13-Jun-18 14:00:00	13-Jun-18 15:00:00		0.00	0.00	0.00	5.35	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	13-Jun-18 14:00:00		**10.35**	**18.92**	**83.84**	**88.44**
13-Jun-18 15:00:00	13-Jun-18 16:00:00		0.00	0.00	0.00	5.23	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	13-Jun-18 15:00:00		**10.35**	**18.92**	**83.84**	**88.41**
13-Jun-18 16:00:00	13-Jun-18 17:00:00		0.17	0.00	0.00	5.08	2.1	329.7		0.06	0.00	0.00	1.68		10.35	18.92	83.84	86.68	13-Jun-18 16:00:00		**10.41**	**18.92**	**83.84**	**88.36**
13-Jun-18 17:00:00	13-Jun-18 18:00:00		0.00	0.00	0.00	4.93	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	13-Jun-18 17:00:00		**10.35**	**18.92**	**83.84**	**88.31**
13-Jun-18 18:00:00	13-Jun-18 19:00:00		0.00	0.00	0.00	4.95	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	13-Jun-18 18:00:00		**10.35**	**18.92**	**83.84**	**88.31**
13-Jun-18 19:00:00	13-Jun-18 20:00:00		0.00	0.00	0.00	5.13	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	13-Jun-18 19:00:00		**10.35**	**18.92**	**83.84**	**88.37**
13-Jun-18 20:00:00	13-Jun-18 21:00:00		0.00	0.00	0.00	5.28	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	13-Jun-18 20:00:00		**10.35**	**18.92**	**83.84**	**88.42**
13-Jun-18 21:00:00	13-Jun-18 22:00:00		0.00	0.00	0.00	5.43	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	13-Jun-18 21:00:00		**10.35**	**18.92**	**83.84**	**88.47**
13-Jun-18 22:00:00	13-Jun-18 23:00:00		0.00	0.00	0.00	5.41	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	13-Jun-18 22:00:00		**10.35**	**18.92**	**83.84**	**88.46**
13-Jun-18 23:00:00	14-Jun-18 00:00:00		0.00	0.00	0.00	5.48	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	13-Jun-18 23:00:00		**10.35**	**18.92**	**83.84**	**88.49**
14-Jun-18 00:00:00	14-Jun-18 01:00:00		0.00	0.00	0.00	5.62	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	14-Jun-18 00:00:00		**10.35**	**18.92**	**83.84**	**88.53**
14-Jun-18 01:00:00	14-Jun-18 02:00:00		0.00	0.00	0.00	5.76	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	14-Jun-18 01:00:00		**10.35**	**18.92**	**83.84**	**88.58**
14-Jun-18 02:00:00	14-Jun-18 03:00:00		0.00	0.00	0.00	5.92	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	14-Jun-18 02:00:00		**10.35**	**18.92**	**83.84**	**88.63**
14-Jun-18 03:00:00	14-Jun-18 04:00:00		0.00	0.00	0.00	5.95	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	14-Jun-18 03:00:00		**10.35**	**18.92**	**83.84**	**88.64**
14-Jun-18 04:00:00	14-Jun-18 05:00:00		0.00	0.00	0.00	5.95	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	14-Jun-18 04:00:00		**10.35**	**18.92**	**83.84**	**88.64**
14-Jun-18 05:00:00	14-Jun-18 06:00:00		0.00	0.00	0.00	5.95	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	14-Jun-18 05:00:00		**10.35**	**18.92**	**83.84**	**88.64**
14-Jun-18 06:00:00	14-Jun-18 07:00:00		1.26	0.00	0.00	5.96	2.1	329.7		0.42	0.00	0.00	1.96		10.35	18.92	83.84	86.68	14-Jun-18 06:00:00		**10.77**	**18.92**	**83.84**	**88.64**
14-Jun-18 07:00:00	14-Jun-18 08:00:00		0.00	0.00	0.00	5.92	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	14-Jun-18 07:00:00		**10.35**	**18.92**	**83.84**	**88.63**
14-Jun-18 08:00:00	14-Jun-18 09:00:00		0.00	0.00	0.00	5.87	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	14-Jun-18 08:00:00		**10.35**	**18.92**	**83.84**	**88.61**
14-Jun-18 09:00:00	14-Jun-18 10:00:00		0.00	0.00	0.00	5.82	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	14-Jun-18 09:00:00		**10.35**	**18.92**	**83.84**	**88.60**
14-Jun-18 10:00:00	14-Jun-18 11:00:00		0.18	0.00	0.00	5.66	2.1	329.7		0.06	0.00	0.00	1.87		10.35	18.92	83.84	86.68	14-Jun-18 10:00:00		**10.41**	**18.92**	**83.84**	**88.55**
14-Jun-18 11:00:00	14-Jun-18 12:00:00		0.00	0.00	0.00	5.38	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	14-Jun-18 11:00:00		**10.35**	**18.92**	**83.84**	**88.45**
14-Jun-18 12:00:00	14-Jun-18 13:00:00		0.15	0.00	0.00	5.10	2.1	329.7		0.05	0.00	0.00	1.68		10.35	18.92	83.84	86.68	14-Jun-18 12:00:00		**10.40**	**18.92**	**83.84**	**88.36**
14-Jun-18 13:00:00	14-Jun-18 14:00:00		0.00	0.00	0.00	4.83	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	14-Jun-18 13:00:00		**10.35**	**18.92**	**83.84**	**88.27**
14-Jun-18 14:00:00	14-Jun-18 15:00:00		0.00	0.00	0.00	4.54	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	14-Jun-18 14:00:00		**10.35**	**18.92**	**83.84**	**88.18**
14-Jun-18 15:00:00	14-Jun-18 16:00:00		0.00	0.00	0.00	4.48	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	14-Jun-18 15:00:00		**10.35**	**18.92**	**83.84**	**88.16**
14-Jun-18 16:00:00	14-Jun-18 17:00:00		1.00	0.00	0.00	4.48	2.1	329.7		0.33	0.00	0.00	1.48		10.35	18.92	83.84	86.68	14-Jun-18 16:00:00		**10.68**	**18.92**	**83.84**	**88.16**
14-Jun-18 17:00:00	14-Jun-18 18:00:00		2.42	0.00	0.00	4.48	2.1	329.7		0.80	0.00	0.00	1.48		10.35	18.92	83.84	86.68	14-Jun-18 17:00:00		**11.15**	**18.92**	**83.84**	**88.16**
14-Jun-18 18:00:00	14-Jun-18 19:00:00		0.00	0.00	0.00	4.52	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	14-Jun-18 18:00:00		**10.35**	**18.92**	**83.84**	**88.17**
14-Jun-18 19:00:00	14-Jun-18 20:00:00		0.00	0.00	0.00	4.70

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
16-Jun-18 21:00:00	16-Jun-18 22:00:00		0.66	0.00	0.00	5.37	2.1	329.7		0.22	0.00	0.00	1.77		10.35	18.92	83.84	86.68	16-Jun-18 21:00:00		10.57	18.92	83.84	88.45
16-Jun-18 22:00:00	16-Jun-18 23:00:00		0.58	0.00	0.00	5.50	2.1	329.7		0.19	0.00	0.00	1.81		10.35	18.92	83.84	86.68	16-Jun-18 22:00:00		10.54	18.92	83.84	88.49
16-Jun-18 23:00:00	17-Jun-18 00:00:00		1.21	0.00	0.00	5.64	2.1	329.7		0.40	0.00	0.00	1.86		10.35	18.92	83.84	86.68	16-Jun-18 23:00:00		10.75	18.92	83.84	88.54
17-Jun-18 00:00:00	17-Jun-18 01:00:00		1.01	0.00	0.00	5.72	2.1	329.7		0.33	0.00	0.00	1.88		10.35	18.92	83.84	86.68	17-Jun-18 00:00:00		10.68	18.92	83.84	88.56
17-Jun-18 01:00:00	17-Jun-18 02:00:00		3.27	0.00	0.00	5.81	2.1	329.7		1.08	0.00	0.00	1.92		10.35	18.92	83.84	86.68	17-Jun-18 01:00:00		11.43	18.92	83.84	88.60
17-Jun-18 02:00:00	17-Jun-18 03:00:00		1.77	0.00	0.00	5.95	2.1	329.7		0.58	0.00	0.00	1.96		10.35	18.92	83.84	86.68	17-Jun-18 02:00:00		10.93	18.92	83.84	88.64
17-Jun-18 03:00:00	17-Jun-18 04:00:00		1.51	0.00	0.00	6.09	2.1	329.7		0.50	0.00	0.00	2.01		10.35	18.92	83.84	86.68	17-Jun-18 03:00:00		10.85	18.92	83.84	88.69
17-Jun-18 04:00:00	17-Jun-18 05:00:00		2.83	0.00	0.00	6.14	2.1	329.7		0.93	0.00	0.00	2.03		10.35	18.92	83.84	86.68	17-Jun-18 04:00:00		11.28	18.92	83.84	88.71
17-Jun-18 05:00:00	17-Jun-18 06:00:00		5.08	0.00	0.00	6.18	2.1	329.7		1.67	0.00	0.00	2.04		10.35	18.92	83.84	86.68	17-Jun-18 05:00:00		12.02	18.92	83.84	88.72
17-Jun-18 06:00:00	17-Jun-18 07:00:00		1.09	0.00	0.00	6.25	2.1	329.7		0.36	0.00	0.00	2.06		10.35	18.92	83.84	86.68	17-Jun-18 06:00:00		10.71	18.92	83.84	88.74
17-Jun-18 07:00:00	17-Jun-18 08:00:00		0.00	0.00	0.00	6.33	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	17-Jun-18 07:00:00		10.35	18.92	83.84	88.77
17-Jun-18 08:00:00	17-Jun-18 09:00:00		0.00	0.00	0.00	6.32	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	17-Jun-18 08:00:00		10.35	18.92	83.84	88.76
17-Jun-18 09:00:00	17-Jun-18 10:00:00		0.00	0.00	0.00	5.97	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	17-Jun-18 09:00:00		10.35	18.92	83.84	88.65
17-Jun-18 10:00:00	17-Jun-18 11:00:00		0.82	0.00	0.00	5.60	2.1	329.7		0.27	0.00	0.00	1.85		10.35	18.92	83.84	86.68	17-Jun-18 10:00:00		10.62	18.92	83.84	88.53
17-Jun-18 11:00:00	17-Jun-18 12:00:00		1.07	0.00	0.00	5.23	2.1	329.7		0.35	0.00	0.00	1.72		10.35	18.92	83.84	86.68	17-Jun-18 11:00:00		10.70	18.92	83.84	88.40
17-Jun-18 12:00:00	17-Jun-18 13:00:00		0.64	0.00	0.00	4.88	2.1	329.7		0.21	0.00	0.00	1.61		10.35	18.92	83.84	86.68	17-Jun-18 12:00:00		10.56	18.92	83.84	88.29
17-Jun-18 13:00:00	17-Jun-18 14:00:00		0.49	0.00	0.00	4.78	2.1	329.7		0.16	0.00	0.00	1.57		10.35	18.92	83.84	86.68	17-Jun-18 13:00:00		10.51	18.92	83.84	88.25
17-Jun-18 14:00:00	17-Jun-18 15:00:00		0.00	0.00	0.00	4.71	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	17-Jun-18 14:00:00		10.35	18.92	83.84	88.23
17-Jun-18 15:00:00	17-Jun-18 16:00:00		0.00	0.00	0.00	4.65	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	17-Jun-18 15:00:00		10.35	18.92	83.84	88.21
17-Jun-18 16:00:00	17-Jun-18 17:00:00		0.00	0.00	0.00	4.61	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	17-Jun-18 16:00:00		10.35	18.92	83.84	88.20
17-Jun-18 17:00:00	17-Jun-18 18:00:00		0.00	0.00	0.00	4.74	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	17-Jun-18 17:00:00		10.35	18.92	83.84	88.24
17-Jun-18 18:00:00	17-Jun-18 19:00:00		0.00	0.00	0.00	4.89	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	17-Jun-18 18:00:00		10.35	18.92	83.84	88.29
17-Jun-18 19:00:00	17-Jun-18 20:00:00		0.00	0.00	0.00	5.05	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	17-Jun-18 19:00:00		10.35	18.92	83.84	88.34
17-Jun-18 20:00:00	17-Jun-18 21:00:00		0.00	0.00	0.00	5.20	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	17-Jun-18 20:00:00		10.35	18.92	83.84	88.40
17-Jun-18 21:00:00	17-Jun-18 22:00:00		0.58	0.00	0.00	5.35	2.1	329.7		0.19	0.00	0.00	1.76		10.35	18.92	83.84	86.68	17-Jun-18 21:00:00		10.54	18.92	83.84	88.44
17-Jun-18 22:00:00	17-Jun-18 23:00:00		2.95	0.00	0.00	5.49	2.1	329.7		0.97	0.00	0.00	1.81		10.35	18.92	83.84	86.68	17-Jun-18 22:00:00		11.32	18.92	83.84	88.49
17-Jun-18 23:00:00	18-Jun-18 00:00:00		1.09	0.00	0.00	115.55	2.1	329.7		0.36	0.00	0.00	38.10		10.35	18.92	83.84	86.68	17-Jun-18 23:00:00		10.71	18.92	83.84	124.78
18-Jun-18 00:00:00	18-Jun-18 01:00:00		0.58	0.00	0.00	5.76	2.1	329.7		0.19	0.00	0.00	1.90		10.35	18.92	83.84	86.68	18-Jun-18 00:00:00		10.54	18.92	83.84	88.58
18-Jun-18 01:00:00	18-Jun-18 02:00:00		1.38	0.00	0.00	5.86	2.1	329.7		0.45	0.00	0.00	1.93		10.35	18.92	83.84	86.68	18-Jun-18 01:00:00		10.80	18.92	83.84	88.61
18-Jun-18 02:00:00	18-Jun-18 03:00:00		3.05	0.00	0.00	5.95	2.1	329.7		1.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	18-Jun-18 02:00:00		11.35	18.92	83.84	88.64
18-Jun-18 03:00:00	18-Jun-18 04:00:00		0.10	0.00	0.00	6.04	2.1	329.7		0.03	0.00	0.00	1.99		10.35	18.92	83.84	86.68	18-Jun-18 03:00:00		10.38	18.92	83.84	88.67
18-Jun-18 04:00:00	18-Jun-18 05:00:00		0.66	0.00	0.00	6.14	2.1	329.7		0.22	0.00	0.00	2.02		10.35	18.92	83.84	86.68	18-Jun-18 04:00:00		10.57	18.92	83.84	88.70
18-Jun-18 05:00:00	18-Jun-18 06:00:00		0.00	0.00	0.00	6.23	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	18-Jun-18 05:00:00		10.35	18.92	83.84	88.73
18-Jun-18 06:00:00	18-Jun-18 07:00:00		0.00	0.00	0.00	11.97	2.1	329.7		0.00	0.00	0.00	3.95		10.35	18.92	83.84	86.68	18-Jun-18 06:00:00		10.35	18.92	83.84	90.63
18-Jun-18 07:00:00	18-Jun-18 08:00:00		0.00	0.00	0.00	5.99	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	18-Jun-18 07:00:00		10.35	18.92	83.84	88.66
18-Jun-18 08:00:00	18-Jun-18 09:00:00		0.00	0.00	0.00	5.94	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	18-Jun-18 08:00:00		10.35	18.92	83.84	88.64
18-Jun-18 09:00:00	18-Jun-18 10:00:00		1.58	0.00	0.00	5.88	2.1	329.7		0.52	0.00	0.00	1.94		10.35	18.92	83.84	86.68	18-Jun-18 09:00:00		10.87	18.92	83.84	88.62
18-Jun-18 10:00:00	18-Jun-18 11:00:00		0.00	0.00	0.00	5.71	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	18-Jun-18 10:00:00		10.35	18.92	83.84	88.56
18-Jun-18 11:00:00	18-Jun-18 12:00:00		0.12	0.00	0.00	5.48	2.1	329.7		0.04	0.00	0.00	1.81		10.35	18.92	83.84	86.68	18-Jun-18 11:00:00		10.39	18.92	83.84	88.49
18-Jun-18 12:00:00	18-Jun-18 13:00:00		0.00	0.00	0.00	5.25	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	18-Jun-18 12:00:00		10.35	18.92	83.84	88.41
18-Jun-18 13:00:00	18-Jun-18 14:00:00		0.08	0.00	0.00	5.02	2.1	329.7		0.03	0.00	0.00	1.66		10.35	18.92	83.84	86.68	18-Jun-18 13:00:00		10.38	18.92	83.84	88.34
18-Jun-18 14:00:00	18-Jun-18 15:00:00		0.00	0.00	0.00	4.71	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	18-Jun-18 14:00:00		10.35	18.92	83.84	88.23
18-Jun-18 15:00:00	18-Jun-18 16:00:00		1.72	0.00	0.00	4.71	2.1	329.7		0.57	0.00	0.00	1.55		10.35	18.92	83.84	86.68	18-Jun-18 15:00:00		10.92	18.92	83.84	88.23
18-Jun-18 16:00:00	18-Jun-18 17:00:00		0.00	0.00	0.00	4.72	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	18-Jun-18 16:00:00		10.35	18.92	83.84	88.24
18-Jun-18 17:00:00	18-Jun-18 18:00:00		0.00	0.00	0.00	4.74	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	18-Jun-18 17:00:00		10.35	18.92	83.84	88.24
18-Jun-18 18:00:00	18-Jun-18 19:00:00		0.00	0.00	0.00	4.71	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	18-Jun-18 18:00:00		10.35	18.92	83.84	88.23
18-Jun-18 19:00:00	18-Jun-18 20:00:00		0.18	0.00	0.00	4.84	2.1	329.7		0.06	0.00	0.00	1.59		10.35	18.92	83.84	86.68	18-Jun-18 19:00:00		10.41	18.92	83.84	88.27
18-Jun-18 20:00:00	18-Jun-18 21:00:00		1.19	0.00	0.00	4.97	2.1	329.7		0.39	0.00	0.00	1.64		10.35	18.92	83.84	86.68	18-Jun-18 20:00:00		10.74	18.92	83.84	88.32
18-Jun-18 21:00:00	18-Jun-18 22:00:00		0.81	0.00	0.00	5.11	2.1	329.7		0.27	0.00	0.00	1.68		10.35	18.92	83.84	86.68	18-Jun-18 21:00:00		10.62	18.92	83.84	88.36
18-Jun-18 22:00:00	18-Jun-18 23:00:00		1.29	0.00	0.00	5.27	2.1	329.7		0.42	0.00	0.00	1.74		10.35	18.92	83.84	86.68	18-Jun-18 22:00:00		10.77	18.92	83.84	88.42
18-Jun-18 23:00:00	19-Jun-18 00:00:00		0.00	0.00	0.00	5.41	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	18-Jun-18 23:00:00		10.35	18.92	83.84	88.47
19-Jun-18 00:00:00	19-Jun-18 01:00:00		0.00	0.00	0.00	5.56	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	19-Jun-18 00:00:00		10.35	18.92	83.84	88.51
19-Jun-18 01:00:00	19-Jun-18 02:00:00		0.08	0.00	0.00	5.70	2.1	329.7		0.03	0.00	0.00	1.88		10.35	18.92	83.84	86.68	19-Jun-18 01:00:00		10.38	18.92	83.84	88.56
19-Jun-18 02:00:00	19-Jun-18 03:00:00		0.00	0.00	0.00	5.89	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	19-Jun-18 02:00:00		10.35	18.92	83.84	88.62
19-Jun-18 03:00:00	19-Jun-18 04:00:00		0.00	0.00	0.00	6.13	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	19-Jun-18 03:00:00		10.35	18.92	83.84	88.70
19-Jun-18 04:00:00	19-Jun-18 05:00:00		0.00	0.00	0.00	48.48	2.1	329.7		0.00	0.00	0.00	15.98		10.35	18.92	83.84	86.68	19-Jun-18 04:00:00		10.35	18.92	83.84	102.66
19-Jun-18 05:00:00	19-Jun-18 06:00:00		1.35	0.00	0.00	6.19	2.1	329.7		0.45	0.00	0.00	2.04		10.35	18.92	83.84	86.68	19-Jun-18 05:00:00		10.80	18.92	83.84	88.72
19-Jun-18 06:00:00	19-Jun-18 07:00:00		6.40	0.00	0.00	6.07	2.1	329.7		2.11	0.00	0.00	2.00		10.35	18.92	83.84	86.68	19-Jun-18 06:00:00		12.46	18.92	83.84	88.68
19-Jun-18 07:00:00	19-Jun-18 08:00:00		2.56	0.00	0.00	5.96	2.1	329.7		0.84	0.00	0.00	1.96		10.35	18.92	83.84	86.68	19-Jun-18 07:00:00		11.19	18.92	83.84	88.64
19-Jun-18 08:00:00	19-Jun-18 09:00:00		0.00	0.00	0.00	5.89	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	19-Jun-18 08:00:00		10.35	18.92	83.84	88.62
19-Jun-18 09:00:00	19-Jun-18 10:00:00		0.00	0.00	0.00	5.59	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	19-Jun-18 09:00:00		10.35	18.92	83.84	88.52
19-Jun-18 10:00:00	19-Jun-18 11:00:00		0.99	0.00	0.00	5.23	2.1	329.7		0.33	0.00	0.00	1.72		10.35	18.92	83.84	86.68	19-Jun-18 10:00:00		10.68	18.92	83.84	88.40
19-Jun-18 11:00:00	19-Jun-18 12:00:00		0.48	0.00	0.00	4.86	2.1	329.7		0.16	0.00	0.00	1.60		10.35	18.92	83.84	86.68	19-Jun-18 11:00:00		10.51	18.92	83.84	88.28
19-Jun-18 12:00:00	19-Jun-18 13:00:00		0.37	0.00	0.00	4.54	2.1	329.7		0.12	0.00	0.00	1.50		10.35	18.92	83.84	86.68	19-Jun-18 12:00:00		10.47	18.92	83.84	88.18
19-Jun-18 13:00:00	19-Jun-18 14:00:00		0.16	0.00	0.00	4.44	2.1	329.7		0.05	0.00	0.00	1.46		10.35	18.92	83.84	86.68	19-Jun-18 13:00:00		10.40	18.92	83.84	88.14
19-Jun-18 14:00:00	19-Jun-18 15:00:00		1.00	0.00	0.00	4.36	2.1	329.7		0.33	0.00	0.00	1.44		10.35	18.92	83.84	86.68	19-Jun-18 14:00:00		10.68	18.92	83.84	88.12
19-Jun-18 15:00:00	19-Jun-18 16:00:00		0.00	0.00	0.00	4.28	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	19-Jun-18 15:00:00		10.35	18.92	83.84	88.09
19-Jun-18 16:00:00	19-Jun-18 17:00:00		0.00	0.00	0.00	4.21	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	19-Jun-18 16:00:00		10.35	18.92	83.84	88.07
19-Jun-18 17:00:00	19-Jun-18 18:00:00		0.00	0.00	0.00	4.32	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	19-Jun-18 17:00:00		10.35	18.92	83.84	88.10
19-Jun-18 18:00:00	19-Jun-18 19:00:00		0.05	0.00	0.00	4.46	2.1	329.7		0.02	0.00	0.00	1.47		10.35	18.92	83.84	86.68	19-Jun-18 18:00:00		10.37	18.92	83.84	88.15
19-Jun-18 19:00:00	19-Jun-18 20:00:00		2.41	0.00	0.00	4.60	2.1	329.7		0.79	0.00	0.00	1.52		10.35	18.92	83.84	86.68	19-Jun-18 19:00:00		11.14	18.92	83.84	88.20
19-Jun-18 20:00:00	19-Jun-18 21:00:00		4.65	0.00	0.00	4.83	2.1	329.7		1.53	0.00	0.00	1.59		10.35	18.92	83.84	86.68	19-Jun-18 20:00:00		11.88	18.92	83.84	88.27
19-Jun-18 21:00:00	19-Jun-18 22:00:00		2.94	0.00	0.00	5.13	2.1	329.7		0.97	0.00	0.00	1.69		10.35	18.92	83.84	86.68	19-Jun-18 21:00:00		11.32	18.92	83.84	88.37
19-Jun-18 22:00:00	19-Jun-18 23:00:00		1.52	0.00	0.00	5.42	2.1	329.7		0.50	0.00	0.00	1.79		10.35	18.92	83.84	86.68	19-Jun-18 22:00:00		10.85	18.92	83.84	88.47
19-Jun-18 23:00:00	20-Jun-18 00:00:00		0.74	0.00	0.00	5.70	2.1	329.7		0.24	0.00	0.00	1.88		10.35	18.92	83.84	86.68	19-Jun-18 23:00:00		10.59	18.92	83.84	88.56
20-Jun-18 00:00:00	20-Jun-18 01:00:00		1.75	0.00	0.00	5.86	2.1	329.7		0.58	0.00	0.00	1.93		10.35	18.92	83.84	86.68	20-Jun-18 00:00:00		10.93	18.92	83.84	88.61
20-Jun-18 01:00:00	20-Jun-18 02:00:00		9.27	0.00	0.00	5.84	2.1	329.7		3.06	0.00	0.00	1.92		10.35	18.92	83.84	86.68	20-Jun-18 01:00:00		13.41	18.92	83.84	88.60
20-Jun-18 02:00:00	20-Jun-18 03:00:00		6.38	0.00	0.00	5.83	2.1	329.7		2.10	0.00	0.00	1.92		10.35	18.92	83.84	86.68	20-Jun-18 02:00:00		12.45	18.92	83.84	88.60
20-Jun-18 03:00:00	20-Jun-18 04:00:00		3.55	0.00	0.00	5.83	2.1	329.7		1.17	0.00	0.00	1.92		10.35	18.92	83.84	86.68	20-Jun-18 03:00:00		11.52	18.92	83.84	88.60
20-Jun-18 04:00:00	20-Jun-18 05:00:00		5.38	0.00	0.00	5.79	2.1	329.7		1.77	0.00	0.00	1.91		10.35	18.92	83.84	86.68	20-Jun-18 04:00:00		12.12	18.92	83.84	88.59
20-Jun-18 05:00:00	20-Jun-18 06:00:00		2.45	0.00	0.00	5.79	2.1	329.7		0.81	0.00	0.00	1.91		10.35	18.92	83.84	86.68	20-Jun-18 05:00:00		11.16	18.92	83.84	88.59
20-Jun-18 06:00:00	20-Jun-18 07:00:00		0.76	0.00	0.00	5.79	2.1	329.7		0.25	0.00	0.00	1.91		10.35	18.92	83.84	86.68	20-Jun-18 06:00:00		10.60	18.92	83.84	88.59
20-Jun-18 07:00:00	20-Jun-18 08:00:00		1.32	0.00	0.00	5.80	2.1	329.7		0.44	0.00	0.00	1.91		10.35	18.92	83.84	86.68	20-Jun-18 07:00:00		10.79	18.92	83.84	88.59
20-Jun-18 08:00:00	20-Jun-18 09:00:00		0.00	0.00	0.00	5.69	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	20-Jun-18 08:00:00		10.35	18.92	83.84	88.56
20-Jun-18 09:00:00	20-Jun-18 10:00:00		0.00	0.00	0.00	5.42	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	20-Jun-18 09:00:00		10.35	18.92	83.84	88.47
20-Jun-18 10:00:00	20-Jun-18 11:00:00		1.96	0.00	0.00	5.15	2.1	329.7		0.64	0.00	0.00	1.70		10.35	18.92	83.84	86.68	20-Jun-18 10:00:00		10.99	18.92	83.84	88.38
20-Jun-18 11:00:00	20-Jun-18 12:00:00		7.68	0.00	0.00	4.88	2.1	329.7		2.53	0.00	0.00	1.61		10.35	18.92	83.84	86.68	20-Jun-18 11:00:00		12.88	18.92	83.84	88.29
20-Jun-18 12:00:00	20-Jun-18 13:00:00		5.93	0.00	0.00	4.70	2.1	329.7		1.95	0.00	0.00	1.55		10.35	18.92	83.84	86.68	20-Jun-18 12:00:00		12.30	18.92	83.84	88.23
20-Jun-18 13:00:00	20-Jun-18 14:00:00		3.26	0.00	0.00	4.87	2.1	329.7		1.07	0.00	0.00	1.60		10.35	18.92	83.84	86.68	20-Jun-18 13:00:00		11.42	18.92	83.84	88.28
20-Jun-18 14:00:00	20-Jun-18 15:00:00		5.81	0.00	0.00	5.07	2.1	329.7		1.92	0.00	0.00	1.67		10.35	18.92	83.84	86.68	20-Jun-18 14:00:00		12.27	18.92	83.84	88.35
20-Jun-18 15:00:00	20-Jun-18 16:00:00		7.11	0.00	0.00	5.27	2.1	329.7		2.34	0.00	0.00	1.74		10.35	18.92	83.84	86.68	20-Jun-18 15:00:00		12.69	18.92	83.84	88.42
20-Jun-18 16:00:00	20-Jun-18 17:00:00		0.82	0.00	0.00	5.33	2.1	329.7		0.27	0.00	0.00	1.76		10.35	18.92	83.84	86.68	20-Jun-18 16:00:00		10.62	18.92	83.84	88.44
20-Jun-18 17:00:00	20-Jun-18 18:00:00		0.00	0.00	0.00	5.30	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	20-Jun-18 17:00:00		10.35	18.92	83.84	88.43
20-Jun-18 18:00:00	20-Jun-18 19:00:00		0.00	0.00	0.00	5.32

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
22-Jun-18 20:00:00	22-Jun-18 21:00:00		0.69	0.00	0.00	5.13	2.1	329.7		0.23	0.00	0.00	1.69		10.35	18.92	83.84	86.68	22-Jun-18 20:00:00		10.58	18.92	83.84	88.37
22-Jun-18 21:00:00	22-Jun-18 22:00:00		1.12	0.00	0.00	5.36	2.1	329.7		0.37	0.00	0.00	1.77		10.35	18.92	83.84	86.68	22-Jun-18 21:00:00		10.72	18.92	83.84	88.45
22-Jun-18 22:00:00	22-Jun-18 23:00:00		0.13	0.00	0.00	5.62	2.1	329.7		0.04	0.00	0.00	1.85		10.35	18.92	83.84	86.68	22-Jun-18 22:00:00		10.39	18.92	83.84	88.53
22-Jun-18 23:00:00	23-Jun-18 00:00:00		6.07	0.00	0.00	5.87	2.1	329.7		2.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	22-Jun-18 23:00:00		12.35	18.92	83.84	88.62
23-Jun-18 00:00:00	23-Jun-18 01:00:00		9.13	0.00	0.00	6.18	2.1	329.7		3.01	0.00	0.00	2.04		10.35	18.92	83.84	86.68	23-Jun-18 00:00:00		13.36	18.92	83.84	88.72
23-Jun-18 01:00:00	23-Jun-18 02:00:00		0.92	0.00	0.00	6.30	2.1	329.7		0.30	0.00	0.00	2.08		10.35	18.92	83.84	86.68	23-Jun-18 01:00:00		10.65	18.92	83.84	88.76
23-Jun-18 02:00:00	23-Jun-18 03:00:00		0.00	0.00	0.00	6.31	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	23-Jun-18 02:00:00		10.35	18.92	83.84	88.76
23-Jun-18 03:00:00	23-Jun-18 04:00:00		9.60	0.00	0.00	6.32	2.1	329.7		3.16	0.00	0.00	2.08		10.35	18.92	83.84	86.68	23-Jun-18 03:00:00		13.51	18.92	83.84	88.76
23-Jun-18 04:00:00	23-Jun-18 05:00:00		17.48	0.00	0.00	6.29	2.1	329.7		5.76	0.00	0.00	2.07		10.35	18.92	83.84	86.68	23-Jun-18 04:00:00		16.11	18.92	83.84	88.75
23-Jun-18 05:00:00	23-Jun-18 06:00:00		3.87	0.00	0.00	6.27	2.1	329.7		1.28	0.00	0.00	2.07		10.35	18.92	83.84	86.68	23-Jun-18 05:00:00		11.63	18.92	83.84	88.75
23-Jun-18 06:00:00	23-Jun-18 07:00:00		12.94	0.00	0.00	6.29	2.1	329.7		4.27	0.00	0.00	2.07		10.35	18.92	83.84	86.68	23-Jun-18 06:00:00		14.62	18.92	83.84	88.75
23-Jun-18 07:00:00	23-Jun-18 08:00:00		0.00	0.00	0.00	6.31	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	23-Jun-18 07:00:00		10.35	18.92	83.84	88.76
23-Jun-18 08:00:00	23-Jun-18 09:00:00		0.00	0.00	0.00	6.30	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	23-Jun-18 08:00:00		10.35	18.92	83.84	88.76
23-Jun-18 09:00:00	23-Jun-18 10:00:00		0.93	0.00	0.00	6.16	2.1	329.7		0.31	0.00	0.00	2.03		10.35	18.92	83.84	86.68	23-Jun-18 09:00:00		10.66	18.92	83.84	88.71
23-Jun-18 10:00:00	23-Jun-18 11:00:00		4.56	0.00	0.00	6.02	2.1	329.7		1.50	0.00	0.00	1.98		10.35	18.92	83.84	86.68	23-Jun-18 10:00:00		11.85	18.92	83.84	88.66
23-Jun-18 11:00:00	23-Jun-18 12:00:00		10.55	0.00	0.00	5.88	2.1	329.7		3.48	0.00	0.00	1.94		10.35	18.92	83.84	86.68	23-Jun-18 11:00:00		13.83	18.92	83.84	88.62
23-Jun-18 12:00:00	23-Jun-18 13:00:00		0.00	0.00	0.00	5.74	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	23-Jun-18 12:00:00		10.35	18.92	83.84	88.57
23-Jun-18 13:00:00	23-Jun-18 14:00:00		1.51	0.00	0.00	5.60	2.1	329.7		0.50	0.00	0.00	1.85		10.35	18.92	83.84	86.68	23-Jun-18 13:00:00		10.85	18.92	83.84	88.53
23-Jun-18 14:00:00	23-Jun-18 15:00:00		0.65	0.00	0.00	5.46	2.1	329.7		0.21	0.00	0.00	1.80		10.35	18.92	83.84	86.68	23-Jun-18 14:00:00		10.56	18.92	83.84	88.48
23-Jun-18 15:00:00	23-Jun-18 16:00:00		0.00	0.00	0.00	5.31	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	23-Jun-18 15:00:00		10.35	18.92	83.84	88.43
23-Jun-18 16:00:00	23-Jun-18 17:00:00		1.21	0.00	0.00	5.18	2.1	329.7		0.40	0.00	0.00	1.71		10.35	18.92	83.84	86.68	23-Jun-18 16:00:00		10.75	18.92	83.84	88.39
23-Jun-18 17:00:00	23-Jun-18 18:00:00		3.55	0.00	0.00	5.14	2.1	329.7		1.17	0.00	0.00	1.70		10.35	18.92	83.84	86.68	23-Jun-18 17:00:00		11.52	18.92	83.84	88.38
23-Jun-18 18:00:00	23-Jun-18 19:00:00		1.01	0.00	0.00	5.13	2.1	329.7		0.33	0.00	0.00	1.69		10.35	18.92	83.84	86.68	23-Jun-18 18:00:00		10.68	18.92	83.84	88.37
23-Jun-18 19:00:00	23-Jun-18 20:00:00		0.67	0.00	0.00	5.11	2.1	329.7		0.22	0.00	0.00	1.69		10.35	18.92	83.84	86.68	23-Jun-18 19:00:00		10.57	18.92	83.84	88.37
23-Jun-18 20:00:00	23-Jun-18 21:00:00		0.33	0.00	0.00	78.02	2.1	329.7		0.11	0.00	0.00	25.72		10.35	18.92	83.84	86.68	23-Jun-18 20:00:00		10.46	18.92	83.84	112.40
23-Jun-18 21:00:00	23-Jun-18 22:00:00		0.16	0.00	0.00	5.24	2.1	329.7		0.05	0.00	0.00	1.73		10.35	18.92	83.84	86.68	23-Jun-18 21:00:00		10.40	18.92	83.84	88.41
23-Jun-18 22:00:00	23-Jun-18 23:00:00		0.91	0.00	0.00	5.32	2.1	329.7		0.30	0.00	0.00	1.76		10.35	18.92	83.84	86.68	23-Jun-18 22:00:00		10.65	18.92	83.84	88.44
23-Jun-18 23:00:00	24-Jun-18 00:00:00		3.54	0.00	0.00	5.41	2.1	329.7		1.17	0.00	0.00	1.78		10.35	18.92	83.84	86.68	23-Jun-18 23:00:00		11.52	18.92	83.84	88.46
24-Jun-18 00:00:00	24-Jun-18 01:00:00		1.71	0.00	0.00	5.47	2.1	329.7		0.57	0.00	0.00	1.80		10.35	18.92	83.84	86.68	24-Jun-18 00:00:00		10.92	18.92	83.84	88.48
24-Jun-18 01:00:00	24-Jun-18 02:00:00		1.09	0.00	0.00	5.54	2.1	329.7		0.36	0.00	0.00	1.83		10.35	18.92	83.84	86.68	24-Jun-18 01:00:00		10.71	18.92	83.84	88.51
24-Jun-18 02:00:00	24-Jun-18 03:00:00		2.50	0.00	0.00	5.64	2.1	329.7		0.82	0.00	0.00	1.86		10.35	18.92	83.84	86.68	24-Jun-18 02:00:00		11.17	18.92	83.84	88.54
24-Jun-18 03:00:00	24-Jun-18 04:00:00		1.86	0.00	0.00	5.73	2.1	329.7		0.61	0.00	0.00	1.89		10.35	18.92	83.84	86.68	24-Jun-18 03:00:00		10.96	18.92	83.84	88.57
24-Jun-18 04:00:00	24-Jun-18 05:00:00		4.43	0.00	0.00	5.84	2.1	329.7		1.46	0.00	0.00	1.93		10.35	18.92	83.84	86.68	24-Jun-18 04:00:00		11.81	18.92	83.84	88.61
24-Jun-18 05:00:00	24-Jun-18 06:00:00		0.37	0.00	0.00	5.86	2.1	329.7		0.12	0.00	0.00	1.93		10.35	18.92	83.84	86.68	24-Jun-18 05:00:00		10.47	18.92	83.84	88.61
24-Jun-18 06:00:00	24-Jun-18 07:00:00		3.97	0.00	0.00	5.84	2.1	329.7		1.31	0.00	0.00	1.93		10.35	18.92	83.84	86.68	24-Jun-18 06:00:00		11.66	18.92	83.84	88.61
24-Jun-18 07:00:00	24-Jun-18 08:00:00		8.64	0.00	0.00	5.82	2.1	329.7		2.85	0.00	0.00	1.92		10.35	18.92	83.84	86.68	24-Jun-18 07:00:00		13.20	18.92	83.84	88.60
24-Jun-18 08:00:00	24-Jun-18 09:00:00		9.56	0.00	0.00	5.77	2.1	329.7		3.15	0.00	0.00	1.90		10.35	18.92	83.84	86.68	24-Jun-18 08:00:00		13.50	18.92	83.84	88.58
24-Jun-18 09:00:00	24-Jun-18 10:00:00		8.64	0.00	0.00	5.61	2.1	329.7		2.85	0.00	0.00	1.85		10.35	18.92	83.84	86.68	24-Jun-18 09:00:00		13.20	18.92	83.84	88.53
24-Jun-18 10:00:00	24-Jun-18 11:00:00		2.71	0.00	0.00	5.44	2.1	329.7		0.89	0.00	0.00	1.80		10.35	18.92	83.84	86.68	24-Jun-18 10:00:00		11.24	18.92	83.84	88.48
24-Jun-18 11:00:00	24-Jun-18 12:00:00		1.26	0.00	0.00	98.50	2.1	329.7		0.42	0.00	0.00	32.48		10.35	18.92	83.84	86.68	24-Jun-18 11:00:00		10.77	18.92	83.84	119.16
24-Jun-18 12:00:00	24-Jun-18 13:00:00		1.36	0.00	0.00	5.16	2.1	329.7		0.45	0.00	0.00	1.70		10.35	18.92	83.84	86.68	24-Jun-18 12:00:00		10.80	18.92	83.84	88.38
24-Jun-18 13:00:00	24-Jun-18 14:00:00		6.74	0.00	0.00	5.02	2.1	329.7		2.22	0.00	0.00	1.65		10.35	18.92	83.84	86.68	24-Jun-18 13:00:00		12.57	18.92	83.84	88.33
24-Jun-18 14:00:00	24-Jun-18 15:00:00		4.17	0.00	0.00	4.88	2.1	329.7		1.38	0.00	0.00	1.61		10.35	18.92	83.84	86.68	24-Jun-18 14:00:00		11.73	18.92	83.84	88.29
24-Jun-18 15:00:00	24-Jun-18 16:00:00		5.68	0.00	0.00	4.73	2.1	329.7		1.87	0.00	0.00	1.56		10.35	18.92	83.84	86.68	24-Jun-18 15:00:00		12.22	18.92	83.84	88.24
24-Jun-18 16:00:00	24-Jun-18 17:00:00		0.82	0.00	0.00	4.78	2.1	329.7		0.27	0.00	0.00	1.58		10.35	18.92	83.84	86.68	24-Jun-18 16:00:00		10.62	18.92	83.84	88.26
24-Jun-18 17:00:00	24-Jun-18 18:00:00		1.42	0.00	0.00	5.06	2.1	329.7		0.47	0.00	0.00	1.67		10.35	18.92	83.84	86.68	24-Jun-18 17:00:00		10.82	18.92	83.84	88.35
24-Jun-18 18:00:00	24-Jun-18 19:00:00		2.43	0.00	0.00	5.35	2.1	329.7		0.80	0.00	0.00	1.76		10.35	18.92	83.84	86.68	24-Jun-18 18:00:00		11.15	18.92	83.84	88.44
24-Jun-18 19:00:00	24-Jun-18 20:00:00		1.59	0.00	0.00	5.63	2.1	329.7		0.53	0.00	0.00	1.86		10.35	18.92	83.84	86.68	24-Jun-18 19:00:00		10.88	18.92	83.84	88.54
24-Jun-18 20:00:00	24-Jun-18 21:00:00		2.95	0.00	0.00	5.75	2.1	329.7		0.97	0.00	0.00	1.90		10.35	18.92	83.84	86.68	24-Jun-18 20:00:00		11.32	18.92	83.84	88.58
24-Jun-18 21:00:00	24-Jun-18 22:00:00		14.58	0.00	0.00	5.70	2.1	329.7		4.81	0.00	0.00	1.88		10.35	18.92	83.84	86.68	24-Jun-18 21:00:00		15.16	18.92	83.84	88.56
24-Jun-18 22:00:00	24-Jun-18 23:00:00		5.78	0.00	0.00	5.65	2.1	329.7		1.91	0.00	0.00	1.86		10.35	18.92	83.84	86.68	24-Jun-18 22:00:00		12.26	18.92	83.84	88.54
24-Jun-18 23:00:00	25-Jun-18 00:00:00		7.94	0.00	0.00	5.60	2.1	329.7		2.62	0.00	0.00	1.85		10.35	18.92	83.84	86.68	24-Jun-18 23:00:00		12.97	18.92	83.84	88.53
25-Jun-18 00:00:00	25-Jun-18 01:00:00		4.82	0.00	0.00	11.49	2.1	329.7		1.59	0.00	0.00	3.79		10.35	18.92	83.84	86.68	25-Jun-18 00:00:00		11.94	18.92	83.84	90.47
25-Jun-18 01:00:00	25-Jun-18 02:00:00		1.43	0.00	0.00	5.81	2.1	329.7		0.47	0.00	0.00	1.92		10.35	18.92	83.84	86.68	25-Jun-18 01:00:00		10.82	18.92	83.84	88.60
25-Jun-18 02:00:00	25-Jun-18 03:00:00		8.75	0.00	0.00	5.86	2.1	329.7		2.88	0.00	0.00	1.93		10.35	18.92	83.84	86.68	25-Jun-18 02:00:00		13.23	18.92	83.84	88.61
25-Jun-18 03:00:00	25-Jun-18 04:00:00		8.29	0.00	0.00	60.11	2.1	329.7		2.73	0.00	0.00	19.82		10.35	18.92	83.84	86.68	25-Jun-18 03:00:00		13.08	18.92	83.84	106.50
25-Jun-18 04:00:00	25-Jun-18 05:00:00		10.71	0.00	0.00	6.11	2.1	329.7		3.53	0.00	0.00	2.02		10.35	18.92	83.84	86.68	25-Jun-18 04:00:00		13.88	18.92	83.84	88.70
25-Jun-18 05:00:00	25-Jun-18 06:00:00		8.03	0.00	0.00	6.15	2.1	329.7		2.65	0.00	0.00	2.03		10.35	18.92	83.84	86.68	25-Jun-18 05:00:00		13.00	18.92	83.84	88.71
25-Jun-18 06:00:00	25-Jun-18 07:00:00		3.36	0.00	0.00	61.20	2.1	329.7		1.11	0.00	0.00	20.18		10.35	18.92	83.84	86.68	25-Jun-18 06:00:00		11.46	18.92	83.84	106.86
25-Jun-18 07:00:00	25-Jun-18 08:00:00		10.98	0.00	0.00	6.06	2.1	329.7		3.62	0.00	0.00	2.00		10.35	18.92	83.84	86.68	25-Jun-18 07:00:00		13.97	18.92	83.84	88.68
25-Jun-18 08:00:00	25-Jun-18 09:00:00		1.84	0.00	0.00	5.87	2.1	329.7		0.61	0.00	0.00	1.93		10.35	18.92	83.84	86.68	25-Jun-18 08:00:00		10.96	18.92	83.84	88.61
25-Jun-18 09:00:00	25-Jun-18 10:00:00		2.03	0.00	0.00	5.68	2.1	329.7		0.67	0.00	0.00	1.87		10.35	18.92	83.84	86.68	25-Jun-18 09:00:00		11.02	18.92	83.84	88.55
25-Jun-18 10:00:00	25-Jun-18 11:00:00		3.90	0.00	0.00	115.47	2.1	329.7		1.29	0.00	0.00	38.07		10.35	18.92	83.84	86.68	25-Jun-18 10:00:00		11.64	18.92	83.84	124.75
25-Jun-18 11:00:00	25-Jun-18 12:00:00		2.40	0.00	0.00	5.31	2.1	329.7		0.79	0.00	0.00	1.75		10.35	18.92	83.84	86.68	25-Jun-18 11:00:00		11.14	18.92	83.84	88.43
25-Jun-18 12:00:00	25-Jun-18 13:00:00		4.05	0.00	0.00	5.03	2.1	329.7		1.34	0.00	0.00	1.66		10.35	18.92	83.84	86.68	25-Jun-18 12:00:00		11.69	18.92	83.84	88.34
25-Jun-18 13:00:00	25-Jun-18 14:00:00		1.66	0.00	0.00	4.75	2.1	329.7		0.55	0.00	0.00	1.57		10.35	18.92	83.84	86.68	25-Jun-18 13:00:00		10.90	18.92	83.84	88.25
25-Jun-18 14:00:00	25-Jun-18 15:00:00		2.26	0.00	0.00	4.58	2.1	329.7		0.75	0.00	0.00	1.51		10.35	18.92	83.84	86.68	25-Jun-18 14:00:00		11.10	18.92	83.84	88.19
25-Jun-18 15:00:00	25-Jun-18 16:00:00		1.82	0.00	0.00	4.61	2.1	329.7		0.60	0.00	0.00	1.52		10.35	18.92	83.84	86.68	25-Jun-18 15:00:00		10.95	18.92	83.84	88.20
25-Jun-18 16:00:00	25-Jun-18 17:00:00		1.19	0.00	0.00	4.63	2.1	329.7		0.39	0.00	0.00	1.53		10.35	18.92	83.84	86.68	25-Jun-18 16:00:00		10.74	18.92	83.84	88.21
25-Jun-18 17:00:00	25-Jun-18 18:00:00		2.39	0.00	0.00	4.66	2.1	329.7		0.79	0.00	0.00	1.53		10.35	18.92	83.84	86.68	25-Jun-18 17:00:00		11.14	18.92	83.84	88.21
25-Jun-18 18:00:00	25-Jun-18 19:00:00		0.00	0.00	0.00	4.82	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	25-Jun-18 18:00:00		10.35	18.92	83.84	88.27
25-Jun-18 19:00:00	25-Jun-18 20:00:00		0.00	0.00	0.00	5.22	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	25-Jun-18 19:00:00		10.35	18.92	83.84	88.40
25-Jun-18 20:00:00	25-Jun-18 21:00:00		0.03	0.00	0.00	5.63	2.1	329.7		0.01	0.00	0.00	1.86		10.35	18.92	83.84	86.68	25-Jun-18 20:00:00		10.36	18.92	83.84	88.54
25-Jun-18 21:00:00	25-Jun-18 22:00:00		2.42	0.00	0.00	6.03	2.1	329.7		0.80	0.00	0.00	1.99		10.35	18.92	83.84	86.68	25-Jun-18 21:00:00		11.15	18.92	83.84	88.67
25-Jun-18 22:00:00	25-Jun-18 23:00:00		4.12	0.00	0.00	6.30	2.1	329.7		1.36	0.00	0.00	2.08		10.35	18.92	83.84	86.68	25-Jun-18 22:00:00		11.71	18.92	83.84	88.76
25-Jun-18 23:00:00	26-Jun-18 00:00:00		12.35	0.00	0.00	6.21	2.1	329.7		4.07	0.00	0.00	2.05		10.35	18.92	83.84	86.68	25-Jun-18 23:00:00		14.42	18.92	83.84	88.73
26-Jun-18 00:00:00	26-Jun-18 01:00:00		3.18	0.00	0.00	6.11	2.1	329.7		1.05	0.00	0.00	2.01		10.35	18.92	83.84	86.68	26-Jun-18 00:00:00		11.40	18.92	83.84	88.69
26-Jun-18 01:00:00	26-Jun-18 02:00:00		1.41	0.00	0.00	6.00	2.1	329.7		0.47	0.00	0.00	1.98		10.35	18.92	83.84	86.68	26-Jun-18 01:00:00		10.82	18.92	83.84	88.66
26-Jun-18 02:00:00	26-Jun-18 03:00:00		0.79	0.00	0.00	5.83	2.1	329.7		0.26	0.00	0.00	1.92		10.35	18.92	83.84	86.68	26-Jun-18 02:00:00		10.61	18.92	83.84	88.60
26-Jun-18 03:00:00	26-Jun-18 04:00:00		0.35	0.00	0.00	5.82	2.1	329.7		0.11	0.00	0.00	1.92		10.35	18.92	83.84	86.68	26-Jun-18 03:00:00		10.46	18.92	83.84	88.60
26-Jun-18 04:00:00	26-Jun-18 05:00:00		1.85	0.00	0.00	5.85	2.1	329.7		0.61	0.00	0.00	1.93		10.35	18.92	83.84	86.68	26-Jun-18 04:00:00		10.96	18.92	83.84	88.61
26-Jun-18 05:00:00	26-Jun-18 06:00:00		2.62	0.00	0.00	5.88	2.1	329.7		0.86	0.00	0.00	1.94		10.35	18.92	83.84	86.68	26-Jun-18 05:00:00		11.21	18.92	83.84	88.62
26-Jun-18 06:00:00	26-Jun-18 07:00:00		1.89	0.00	0.00	5.89	2.1	329.7		0.62	0.00	0.00	1.94		10.35	18.92	83.84	86.68	26-Jun-18 06:00:00		10.97	18.92	83.84	88.62
26-Jun-18 07:00:00	26-Jun-18 08:00:00		3.03	0.00	0.00	5.85	2.1	329.7		1.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	26-Jun-18 07:00:00		11.35	18.92	83.84	88.61
26-Jun-18 08:00:00	26-Jun-18 09:00:00		0.72	0.00	0.00	5.83	2.1	329.7		0.24	0.00	0.00	1.92		10.35	18.92	83.84	86.68	26-Jun-18 08:00:00		10.59	18.92	83.84	88.60
26-Jun-18 09:00:00	26-Jun-18 10:00:00		0.57	0.00	0.00	5.80	2.1	329.7		0.19	0.00	0.00	1.91		10.35	18.92	83.84	86.68	26-Jun-18 09:00:00		10.54	18.92	83.84	88.59
26-Jun-18 10:00:00	26-Jun-18 11:00:00		2.35	0.00	0.00	5.74	2.1	329.7		0.77	0.00	0.00	1.89		10.35	18.92	83.84	86.68	26-Jun-18 10:00:00		11.12	18.92	83.84	88.57
26-Jun-18 11:00:00	26-Jun-18 12:00:00		1.26	0.00	0.00	5.48	2.1	329.7		0.42	0.00	0.00	1.81		10.35	18.92	83.84	86.68	26-Jun-18 11:00:00		10.77	18.92	83.84	88.49
26-Jun-18 12:00:00	26-Jun-18 13:00:00		4.48	0.00	0.00	5.19	2.1	329.7		1.48	0.00	0.00	1.71		10.35	18.92	83.84	86.68	26-Jun-18 12:00:00		11.83	18.92	83.84	88.39
26-Jun-18 13:00:00	26-Jun-18 14:00:00		3.85	0.00	0.00	4.91	2.1	329.7		1.27	0.00	0.00	1.62		10.35	18.92	83.84	86.68	26-Jun-18 13:00:00		11.62	18.92	83.84	88.30
26-Jun-18 14:00:00	26-Jun-18 15:00:00		0.31	0.00	0.00	4.75	2.1	329.7		0.10	0.00	0.00	1.57		10.35	18.92	83.84	86.68	26-Jun-18 14:00:00		10.45	18.92	83.84	88.25
26-Jun-18 15:00:00	26-Jun-18 16:00:00		0.00	0.00	0.00	4.93	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	26-Jun-18 15:00:00		10.35	18.92	83.84	88.31
26-Jun-18 16:00:00	26-Jun-18 17:00:00		0.00	0.00	0.00	5.14	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	26-Jun-18 16:00:00		10.35	18.92	83.84	88.37
26-Jun-18 17:00:00	26-Jun-18 18:00:00		0.00	0.00	0.00	5.34

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
28-Jun-18 19:00:00	28-Jun-18 20:00:00		227.76	0.00	0.00	5.10	2.1	329.7		75.09	0.00	0.00	1.68		10.35	18.92	83.84	86.68	28-Jun-18 19:00:00		85.44	18.92	83.84	88.36
28-Jun-18 20:00:00	28-Jun-18 21:00:00		228.64	0.00	0.00	5.27	2.1	329.7		75.38	0.00	0.00	1.74		10.35	18.92	83.84	86.68	28-Jun-18 20:00:00		85.73	18.92	83.84	88.42
28-Jun-18 21:00:00	28-Jun-18 22:00:00		233.03	0.00	0.00	5.26	2.1	329.7		76.83	0.00	0.00	1.73		10.35	18.92	83.84	86.68	28-Jun-18 21:00:00		87.18	18.92	83.84	88.41
28-Jun-18 22:00:00	28-Jun-18 23:00:00		230.61	0.00	0.00	5.24	2.1	329.7		76.03	0.00	0.00	1.73		10.35	18.92	83.84	86.68	28-Jun-18 22:00:00		86.38	18.92	83.84	88.41
28-Jun-18 23:00:00	29-Jun-18 00:00:00		225.01	0.00	0.00	5.22	2.1	329.7		74.19	0.00	0.00	1.72		10.35	18.92	83.84	86.68	28-Jun-18 23:00:00		84.54	18.92	83.84	88.40
29-Jun-18 00:00:00	29-Jun-18 01:00:00		34.29	0.00	0.00	5.27	2.1	329.7		11.30	0.00	0.00	1.74		10.35	18.92	83.84	86.68	29-Jun-18 00:00:00		21.65	18.92	83.84	88.42
29-Jun-18 01:00:00	29-Jun-18 02:00:00		1.30	0.00	0.00	5.36	2.1	329.7		0.43	0.00	0.00	1.77		10.35	18.92	83.84	86.68	29-Jun-18 01:00:00		10.78	18.92	83.84	88.45
29-Jun-18 02:00:00	29-Jun-18 03:00:00		7.78	0.00	0.00	5.44	2.1	329.7		2.56	0.00	0.00	1.79		10.35	18.92	83.84	86.68	29-Jun-18 02:00:00		12.91	18.92	83.84	88.47
29-Jun-18 03:00:00	29-Jun-18 04:00:00		0.00	0.00	0.00	5.52	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	29-Jun-18 03:00:00		10.35	18.92	83.84	88.50
29-Jun-18 04:00:00	29-Jun-18 05:00:00		0.00	0.00	0.00	5.58	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	29-Jun-18 04:00:00		10.35	18.92	83.84	88.52
29-Jun-18 05:00:00	29-Jun-18 06:00:00		0.00	0.00	0.00	5.57	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	29-Jun-18 05:00:00		10.35	18.92	83.84	88.52
29-Jun-18 06:00:00	29-Jun-18 07:00:00		0.00	0.00	0.00	5.57	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	29-Jun-18 06:00:00		10.35	18.92	83.84	88.52
29-Jun-18 07:00:00	29-Jun-18 08:00:00		0.00	0.00	0.00	30.18	2.1	329.7		0.00	0.00	0.00	9.95		10.35	18.92	83.84	86.68	29-Jun-18 07:00:00		10.35	18.92	83.84	96.63
29-Jun-18 08:00:00	29-Jun-18 09:00:00		0.00	0.00	0.00	5.41	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	29-Jun-18 08:00:00		10.35	18.92	83.84	88.46
29-Jun-18 09:00:00	29-Jun-18 10:00:00		0.00	0.00	0.00	5.19	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	29-Jun-18 09:00:00		10.35	18.92	83.84	88.39
29-Jun-18 10:00:00	29-Jun-18 11:00:00		0.04	0.00	0.00	4.96	2.1	329.7		0.01	0.00	0.00	1.64		10.35	18.92	83.84	86.68	29-Jun-18 10:00:00		10.36	18.92	83.84	88.32
29-Jun-18 11:00:00	29-Jun-18 12:00:00		1.15	0.00	0.00	4.74	2.1	329.7		0.38	0.00	0.00	1.56		10.35	18.92	83.84	86.68	29-Jun-18 11:00:00		10.73	18.92	83.84	88.24
29-Jun-18 12:00:00	29-Jun-18 13:00:00		0.61	0.00	0.00	4.63	2.1	329.7		0.20	0.00	0.00	1.53		10.35	18.92	83.84	86.68	29-Jun-18 12:00:00		10.55	18.92	83.84	88.21
29-Jun-18 13:00:00	29-Jun-18 14:00:00		0.52	0.00	0.00	4.54	2.1	329.7		0.17	0.00	0.00	1.50		10.35	18.92	83.84	86.68	29-Jun-18 13:00:00		10.52	18.92	83.84	88.18
29-Jun-18 14:00:00	29-Jun-18 15:00:00		1.50	0.00	0.00	4.45	2.1	329.7		0.49	0.00	0.00	1.47		10.35	18.92	83.84	86.68	29-Jun-18 14:00:00		10.84	18.92	83.84	88.15
29-Jun-18 15:00:00	29-Jun-18 16:00:00		3.88	0.00	0.00	4.36	2.1	329.7		1.28	0.00	0.00	1.44		10.35	18.92	83.84	86.68	29-Jun-18 15:00:00		11.63	18.92	83.84	88.12
29-Jun-18 16:00:00	29-Jun-18 17:00:00		0.78	0.00	0.00	4.32	2.1	329.7		0.26	0.00	0.00	1.42		10.35	18.92	83.84	86.68	29-Jun-18 16:00:00		10.61	18.92	83.84	88.10
29-Jun-18 17:00:00	29-Jun-18 18:00:00		14.99	0.00	0.00	4.46	2.1	329.7		4.94	0.00	0.00	1.47		10.35	18.92	83.84	86.68	29-Jun-18 17:00:00		15.29	18.92	83.84	88.15
29-Jun-18 18:00:00	29-Jun-18 19:00:00		17.92	0.00	0.00	4.60	2.1	329.7		5.91	0.00	0.00	1.52		10.35	18.92	83.84	86.68	29-Jun-18 18:00:00		16.26	18.92	83.84	88.20
29-Jun-18 19:00:00	29-Jun-18 20:00:00		7.72	0.00	0.00	4.74	2.1	329.7		2.54	0.00	0.00	1.56		10.35	18.92	83.84	86.68	29-Jun-18 19:00:00		12.89	18.92	83.84	88.24
29-Jun-18 20:00:00	29-Jun-18 21:00:00		2.06	0.00	0.00	27.03	2.1	329.7		0.68	0.00	0.00	8.91		10.35	18.92	83.84	86.68	29-Jun-18 20:00:00		11.03	18.92	83.84	95.59
29-Jun-18 21:00:00	29-Jun-18 22:00:00		3.08	0.00	0.00	5.24	2.1	329.7		1.01	0.00	0.00	1.73		10.35	18.92	83.84	86.68	29-Jun-18 21:00:00		11.36	18.92	83.84	88.41
29-Jun-18 22:00:00	29-Jun-18 23:00:00		3.55	0.00	0.00	5.35	2.1	329.7		1.17	0.00	0.00	1.76		10.35	18.92	83.84	86.68	29-Jun-18 22:00:00		11.52	18.92	83.84	88.44
29-Jun-18 23:00:00	30-Jun-18 00:00:00		3.47	0.00	0.00	5.46	2.1	329.7		1.14	0.00	0.00	1.80		10.35	18.92	83.84	86.68	29-Jun-18 23:00:00		11.49	18.92	83.84	88.48
30-Jun-18 00:00:00	30-Jun-18 01:00:00		1.38	0.00	0.00	5.57	2.1	329.7		0.45	0.00	0.00	1.84		10.35	18.92	83.84	86.68	30-Jun-18 00:00:00		10.80	18.92	83.84	88.52
30-Jun-18 01:00:00	30-Jun-18 02:00:00		6.32	0.00	0.00	5.59	2.1	329.7		2.08	0.00	0.00	1.84		10.35	18.92	83.84	86.68	30-Jun-18 01:00:00		12.43	18.92	83.84	88.52
30-Jun-18 02:00:00	30-Jun-18 03:00:00		7.81	0.00	0.00	5.62	2.1	329.7		2.57	0.00	0.00	1.85		10.35	18.92	83.84	86.68	30-Jun-18 02:00:00		12.92	18.92	83.84	88.53
30-Jun-18 03:00:00	30-Jun-18 04:00:00		12.10	0.00	0.00	5.65	2.1	329.7		3.99	0.00	0.00	1.86		10.35	18.92	83.84	86.68	30-Jun-18 03:00:00		14.34	18.92	83.84	88.54
30-Jun-18 04:00:00	30-Jun-18 05:00:00		10.73	0.00	0.00	5.68	2.1	329.7		3.54	0.00	0.00	1.87		10.35	18.92	83.84	86.68	30-Jun-18 04:00:00		13.89	18.92	83.84	88.55
30-Jun-18 05:00:00	30-Jun-18 06:00:00		3.87	0.00	0.00	5.66	2.1	329.7		1.28	0.00	0.00	1.87		10.35	18.92	83.84	86.68	30-Jun-18 05:00:00		11.63	18.92	83.84	88.55
30-Jun-18 06:00:00	30-Jun-18 07:00:00		0.83	0.00	0.00	5.59	2.1	329.7		0.27	0.00	0.00	1.84		10.35	18.92	83.84	86.68	30-Jun-18 06:00:00		10.62	18.92	83.84	88.52
30-Jun-18 07:00:00	30-Jun-18 08:00:00		0.00	0.00	0.00	5.52	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	30-Jun-18 07:00:00		10.35	18.92	83.84	88.50
30-Jun-18 08:00:00	30-Jun-18 09:00:00		0.00	0.00	0.00	5.45	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	30-Jun-18 08:00:00		10.35	18.92	83.84	88.48
30-Jun-18 09:00:00	30-Jun-18 10:00:00		0.81	0.00	0.00	5.40	2.1	329.7		0.27	0.00	0.00	1.78		10.35	18.92	83.84	86.68	30-Jun-18 09:00:00		10.62	18.92	83.84	88.46
30-Jun-18 10:00:00	30-Jun-18 11:00:00		4.83	0.00	0.00	5.19	2.1	329.7		1.59	0.00	0.00	1.71		10.35	18.92	83.84	86.68	30-Jun-18 10:00:00		11.94	18.92	83.84	88.39
30-Jun-18 11:00:00	30-Jun-18 12:00:00		3.66	0.00	0.00	4.97	2.1	329.7		1.21	0.00	0.00	1.64		10.35	18.92	83.84	86.68	30-Jun-18 11:00:00		11.56	18.92	83.84	88.32
30-Jun-18 12:00:00	30-Jun-18 13:00:00		0.00	0.00	0.00	4.76	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	30-Jun-18 12:00:00		10.35	18.92	83.84	88.25
30-Jun-18 13:00:00	30-Jun-18 14:00:00		0.29	0.00	0.00	4.80	2.1	329.7		0.10	0.00	0.00	1.58		10.35	18.92	83.84	86.68	30-Jun-18 13:00:00		10.45	18.92	83.84	88.26
30-Jun-18 14:00:00	30-Jun-18 15:00:00		0.31	0.00	0.00	4.79	2.1	329.7		0.10	0.00	0.00	1.58		10.35	18.92	83.84	86.68	30-Jun-18 14:00:00		10.45	18.92	83.84	88.26
30-Jun-18 15:00:00	30-Jun-18 16:00:00		0.20	0.00	0.00	4.78	2.1	329.7		0.07	0.00	0.00	1.57		10.35	18.92	83.84	86.68	30-Jun-18 15:00:00		10.42	18.92	83.84	88.25
30-Jun-18 16:00:00	30-Jun-18 17:00:00		0.10	0.00	0.00	4.76	2.1	329.7		0.03	0.00	0.00	1.57		10.35	18.92	83.84	86.68	30-Jun-18 16:00:00		10.38	18.92	83.84	88.25
30-Jun-18 17:00:00	30-Jun-18 18:00:00		0.01	0.00	0.00	4.79	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	30-Jun-18 17:00:00		10.35	18.92	83.84	88.26
30-Jun-18 18:00:00	30-Jun-18 19:00:00		0.00	0.00	0.00	4.84	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	30-Jun-18 18:00:00		10.35	18.92	83.84	88.27
30-Jun-18 19:00:00	30-Jun-18 20:00:00		0.00	0.00	0.00	33.20	2.1	329.7		0.00	0.00	0.00	10.95		10.35	18.92	83.84	86.68	30-Jun-18 19:00:00		10.35	18.92	83.84	97.63
30-Jun-18 20:00:00	30-Jun-18 21:00:00		0.00	0.00	0.00	5.12	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	30-Jun-18 20:00:00		10.35	18.92	83.84	88.37
30-Jun-18 21:00:00	30-Jun-18 22:00:00		0.04	0.00	0.00	5.15	2.1	329.7		0.01	0.00	0.00	1.70		10.35	18.92	83.84	86.68	30-Jun-18 21:00:00		10.36	18.92	83.84	88.38
30-Jun-18 22:00:00	30-Jun-18 23:00:00		0.37	0.00	0.00	5.18	2.1	329.7		0.12	0.00	0.00	1.71		10.35	18.92	83.84	86.68	30-Jun-18 22:00:00		10.47	18.92	83.84	88.39
30-Jun-18 23:00:00	01-Jul-18 00:00:00		5.47	0.00	0.00	5.22	2.1	329.7		1.80	0.00	0.00	1.72		10.35	18.92	83.84	86.68	30-Jun-18 23:00:00		12.15	18.92	83.84	88.40
01-Jul-18 00:00:00	01-Jul-18 01:00:00		0.73	0.00	0.00	5.36	2.1	329.7		0.24	0.00	0.00	1.77		10.35	18.92	83.84	86.68	01-Jul-18 00:00:00		10.59	18.92	83.84	88.45
01-Jul-18 01:00:00	01-Jul-18 02:00:00		4.65	0.00	0.00	5.47	2.1	329.7		1.53	0.00	0.00	1.80		10.35	18.92	83.84	86.68	01-Jul-18 01:00:00		11.88	18.92	83.84	88.48
01-Jul-18 02:00:00	01-Jul-18 03:00:00		3.18	0.00	0.00	5.58	2.1	329.7		1.05	0.00	0.00	1.84		10.35	18.92	83.84	86.68	01-Jul-18 02:00:00		11.40	18.92	83.84	88.52
01-Jul-18 03:00:00	01-Jul-18 04:00:00		171.88	0.00	0.00	5.69	2.1	329.7		56.67	0.00	0.00	1.88		10.35	18.92	83.84	86.68	01-Jul-18 03:00:00		67.02	18.92	83.84	88.56
01-Jul-18 04:00:00	01-Jul-18 05:00:00		491.47	0.00	0.00	5.75	2.1	329.7		162.04	0.00	0.00	1.89		10.35	18.92	83.84	86.68	01-Jul-18 04:00:00		172.39	18.92	83.84	88.57
01-Jul-18 05:00:00	01-Jul-18 06:00:00		427.45	0.00	0.00	23.66	2.1	329.7		140.93	0.00	0.00	7.80		10.35	18.92	83.84	86.68	01-Jul-18 05:00:00		151.28	18.92	83.84	94.48
01-Jul-18 06:00:00	01-Jul-18 07:00:00		361.97	0.00	0.00	5.66	2.1	329.7		119.34	0.00	0.00	1.87		10.35	18.92	83.84	86.68	01-Jul-18 06:00:00		129.69	18.92	83.84	88.55
01-Jul-18 07:00:00	01-Jul-18 08:00:00		1.95	0.00	0.00	5.61	2.1	329.7		0.64	0.00	0.00	1.85		10.35	18.92	83.84	86.68	01-Jul-18 07:00:00		10.99	18.92	83.84	88.53
01-Jul-18 08:00:00	01-Jul-18 09:00:00		1.81	0.00	0.00	5.56	2.1	329.7		0.60	0.00	0.00	1.83		10.35	18.92	83.84	86.68	01-Jul-18 08:00:00		10.95	18.92	83.84	88.51
01-Jul-18 09:00:00	01-Jul-18 10:00:00		6.61	0.00	0.00	5.38	2.1	329.7		2.18	0.00	0.00	1.77		10.35	18.92	83.84	86.68	01-Jul-18 09:00:00		12.53	18.92	83.84	88.45
01-Jul-18 10:00:00	01-Jul-18 11:00:00		11.16	0.00	0.00	5.17	2.1	329.7		3.68	0.00	0.00	1.70		10.35	18.92	83.84	86.68	01-Jul-18 10:00:00		14.03	18.92	83.84	88.38
01-Jul-18 11:00:00	01-Jul-18 12:00:00		0.00	0.00	0.00	5.04	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	01-Jul-18 11:00:00		10.35	18.92	83.84	88.34
01-Jul-18 12:00:00	01-Jul-18 13:00:00		4.31	0.00	0.00	4.91	2.1	329.7		1.42	0.00	0.00	1.62		10.35	18.92	83.84	86.68	01-Jul-18 12:00:00		11.77	18.92	83.84	88.30
01-Jul-18 13:00:00	01-Jul-18 14:00:00		10.92	0.00	0.00	4.73	2.1	329.7		3.60	0.00	0.00	1.56		10.35	18.92	83.84	86.68	01-Jul-18 13:00:00		13.95	18.92	83.84	88.24
01-Jul-18 14:00:00	01-Jul-18 15:00:00		1.53	0.00	0.00	4.75	2.1	329.7		0.50	0.00	0.00	1.56		10.35	18.92	83.84	86.68	01-Jul-18 14:00:00		10.85	18.92	83.84	88.24
01-Jul-18 15:00:00	01-Jul-18 16:00:00		0.00	0.00	0.00	4.85	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	01-Jul-18 15:00:00		10.35	18.92	83.84	88.28
01-Jul-18 16:00:00	01-Jul-18 17:00:00		2.99	0.00	0.00	4.95	2.1	329.7		0.99	0.00	0.00	1.63		10.35	18.92	83.84	86.68	01-Jul-18 16:00:00		11.34	18.92	83.84	88.31
01-Jul-18 17:00:00	01-Jul-18 18:00:00		4.10	0.00	0.00	5.02	2.1	329.7		1.35	0.00	0.00	1.66		10.35	18.92	83.84	86.68	01-Jul-18 17:00:00		11.70	18.92	83.84	88.34
01-Jul-18 18:00:00	01-Jul-18 19:00:00		10.69	0.00	0.00	4.99	2.1	329.7		3.52	0.00	0.00	1.64		10.35	18.92	83.84	86.68	01-Jul-18 18:00:00		13.87	18.92	83.84	88.32
01-Jul-18 19:00:00	01-Jul-18 20:00:00		2.27	0.00	0.00	4.93	2.1	329.7		0.75	0.00	0.00	1.63		10.35	18.92	83.84	86.68	01-Jul-18 19:00:00		11.10	18.92	83.84	88.31
01-Jul-18 20:00:00	01-Jul-18 21:00:00		0.00	0.00	0.00	4.88	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	01-Jul-18 20:00:00		10.35	18.92	83.84	88.29
01-Jul-18 21:00:00	01-Jul-18 22:00:00		0.00	0.00	0.00	39.65	2.1	329.7		0.00	0.00	0.00	13.07		10.35	18.92	83.84	86.68	01-Jul-18 21:00:00		10.35	18.92	83.84	99.75
01-Jul-18 22:00:00	01-Jul-18 23:00:00		0.00	0.00	0.00	5.29	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	01-Jul-18 22:00:00		10.35	18.92	83.84	88.42
01-Jul-18 23:00:00	02-Jul-18 00:00:00		2.01	0.00	0.00	5.47	2.1	329.7		0.66	0.00	0.00	1.80		10.35	18.92	83.84	86.68	01-Jul-18 23:00:00		11.01	18.92	83.84	88.48
02-Jul-18 00:00:00	02-Jul-18 01:00:00		10.16	0.00	0.00	31.01	2.1	329.7		3.35	0.00	0.00	10.23		10.35	18.92	83.84	86.68	02-Jul-18 00:00:00		13.70	18.92	83.84	96.91
02-Jul-18 01:00:00	02-Jul-18 02:00:00		2.52	0.00	0.00	5.50	2.1	329.7		0.83	0.00	0.00	1.81		10.35	18.92	83.84	86.68	02-Jul-18 01:00:00		11.18	18.92	83.84	88.49
02-Jul-18 02:00:00	02-Jul-18 03:00:00		1.51	0.00	0.00	5.60	2.1	329.7		0.50	0.00	0.00	1.84		10.35	18.92	83.84	86.68	02-Jul-18 02:00:00		10.85	18.92	83.84	88.52
02-Jul-18 03:00:00	02-Jul-18 04:00:00		2.53	0.00	0.00	5.70	2.1	329.7		0.83	0.00	0.00	1.88		10.35	18.92	83.84	86.68	02-Jul-18 03:00:00		11.18	18.92	83.84	88.56
02-Jul-18 04:00:00	02-Jul-18 05:00:00		2.21	0.00	0.00	5.76	2.1	329.7		0.73	0.00	0.00	1.90		10.35	18.92	83.84	86.68	02-Jul-18 04:00:00		11.08	18.92	83.84	88.58
02-Jul-18 05:00:00	02-Jul-18 06:00:00		14.99	0.00	0.00	5.77	2.1	329.7		4.94	0.00	0.00	1.90		10.35	18.92	83.84	86.68	02-Jul-18 05:00:00		15.29	18.92	83.84	88.58
02-Jul-18 06:00:00	02-Jul-18 07:00:00		26.24	0.00	0.00	5.79	2.1	329.7		8.65	0.00	0.00	1.91		10.35	18.92	83.84	86.68	02-Jul-18 06:00:00		19.00	18.92	83.84	88.59
02-Jul-18 07:00:00	02-Jul-18 08:00:00		32.55	0.00	0.00	5.81	2.1	329.7		10.73	0.00	0.00	1.92		10.35	18.92	83.84	86.68	02-Jul-18 07:00:00		21.08	18.92	83.84	88.60
02-Jul-18 08:00:00	02-Jul-18 09:00:00		1.30	0.00	0.00	5.80	2.1	329.7		0.43	0.00	0.00	1.91		10.35	18.92	83.84	86.68	02-Jul-18 08:00:00		10.78	18.92	83.84	88.59
02-Jul-18 09:00:00	02-Jul-18 10:00:00		0.43	0.00	0.00	5.62	2.1	329.7		0.14	0.00	0.00	1.85		10.35	18.92	83.84	86.68	02-Jul-18 09:00:00		10.49	18.92	83.84	88.53
02-Jul-18 10:00:00	02-Jul-18 11:00:00		7.18	0.00	0.00	5.42	2.1	329.7		2.37	0.00	0.00	1.79		10.35	18.92	83.84	86.68	02-Jul-18 10:00:00		12.72	18.92	83.84	88.47
02-Jul-18 11:00:00	02-Jul-18 12:00:00		0.68	0.00	0.00	5.22	2.1	329.7		0.22	0.00	0.00	1.72		10.35	18.92	83.84	86.68	02-Jul-18 11:00:00		10.57	18.92	83.84	88.40
02-Jul-18 12:00:00	02-Jul-18 13:00:00		1.30	0.00	0.00	4.99	2.1	329.7		0.43	0.00	0.00	1.64		10.35	18.92	83.84	86.68	02-Jul-18 12:00:00		10.78	18.92	83.84	88.32
02-Jul-18 13:00:00	02-Jul-18 14:00:00		2.79	0.00	0.00	4.87	2.1	329.7		0.92	0.00	0.00	1.61		10.35	18.92	83.84	86.68	02-Jul-18 13:00:00		11.27	18.92	83.84	88.29
02-Jul-18 14:00:00	02-Jul-18 15:00:00		8.17	0.00	0.00	4.79	2.1	329.7		2.69	0.00	0.00	1.58		10.35	18.92	83.84	86.68	02-Jul-18 14:00:00		13.04	18.92	83.84	88.26
02-Jul-18 15:00:00	02-Jul-18 16:00:00		1.65	0.00	0.00	4.71	2.1	329.7		0.54	0.00	0.00	1.55		10.35	18.92	83.84	86.68	02-Jul-18 15:00:00		10.89	18.92	83.84	88.23
02-Jul-18 16:00:00	02-Jul-18 17:00:00		4.37	0.00	0.00	4.69

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
04-Jul-18 18:00:00	04-Jul-18 19:00:00		9.13	0.00	0.00	5.08	2.1	329.7		3.01	0.00	0.00	1.67		10.35	18.92	83.84	86.68	04-Jul-18 18:00:00		13.36	18.92	83.84	88.35
04-Jul-18 19:00:00	04-Jul-18 20:00:00		5.96	0.00	0.00	5.13	2.1	329.7		1.96	0.00	0.00	1.69		10.35	18.92	83.84	86.68	04-Jul-18 19:00:00		12.31	18.92	83.84	88.37
04-Jul-18 20:00:00	04-Jul-18 21:00:00		0.59	0.00	0.00	5.17	2.1	329.7		0.20	0.00	0.00	1.71		10.35	18.92	83.84	86.68	04-Jul-18 20:00:00		10.55	18.92	83.84	88.39
04-Jul-18 21:00:00	04-Jul-18 22:00:00		1.64	0.00	0.00	5.27	2.1	329.7		0.54	0.00	0.00	1.74		10.35	18.92	83.84	86.68	04-Jul-18 21:00:00		10.89	18.92	83.84	88.42
04-Jul-18 22:00:00	04-Jul-18 23:00:00		4.91	0.00	0.00	5.42	2.1	329.7		1.62	0.00	0.00	1.79		10.35	18.92	83.84	86.68	04-Jul-18 22:00:00		11.97	18.92	83.84	88.47
04-Jul-18 23:00:00	05-Jul-18 00:00:00		3.42	0.00	0.00	5.56	2.1	329.7		1.13	0.00	0.00	1.83		10.35	18.92	83.84	86.68	04-Jul-18 23:00:00		11.48	18.92	83.84	88.51
05-Jul-18 00:00:00	05-Jul-18 01:00:00		3.50	0.00	0.00	5.71	2.1	329.7		1.15	0.00	0.00	1.88		10.35	18.92	83.84	86.68	05-Jul-18 00:00:00		11.50	18.92	83.84	88.56
05-Jul-18 01:00:00	05-Jul-18 02:00:00		4.23	0.00	0.00	5.81	2.1	329.7		1.39	0.00	0.00	1.92		10.35	18.92	83.84	86.68	05-Jul-18 01:00:00		11.74	18.92	83.84	88.60
05-Jul-18 02:00:00	05-Jul-18 03:00:00		3.72	0.00	0.00	5.82	2.1	329.7		1.22	0.00	0.00	1.92		10.35	18.92	83.84	86.68	05-Jul-18 02:00:00		11.57	18.92	83.84	88.60
05-Jul-18 03:00:00	05-Jul-18 04:00:00		3.68	0.00	0.00	5.83	2.1	329.7		1.21	0.00	0.00	1.92		10.35	18.92	83.84	86.68	05-Jul-18 03:00:00		11.56	18.92	83.84	88.60
05-Jul-18 04:00:00	05-Jul-18 05:00:00		14.48	0.00	0.00	5.83	2.1	329.7		4.78	0.00	0.00	1.92		10.35	18.92	83.84	86.68	05-Jul-18 04:00:00		15.13	18.92	83.84	88.60
05-Jul-18 05:00:00	05-Jul-18 06:00:00		2.86	0.00	0.00	5.82	2.1	329.7		0.94	0.00	0.00	1.92		10.35	18.92	83.84	86.68	05-Jul-18 05:00:00		11.29	18.92	83.84	88.60
05-Jul-18 06:00:00	05-Jul-18 07:00:00		6.54	0.00	0.00	5.81	2.1	329.7		2.16	0.00	0.00	1.91		10.35	18.92	83.84	86.68	05-Jul-18 06:00:00		12.51	18.92	83.84	88.59
05-Jul-18 07:00:00	05-Jul-18 08:00:00		9.03	0.00	0.00	5.80	2.1	329.7		2.98	0.00	0.00	1.91		10.35	18.92	83.84	86.68	05-Jul-18 07:00:00		13.33	18.92	83.84	88.59
05-Jul-18 08:00:00	05-Jul-18 09:00:00		8.58	0.00	0.00	5.80	2.1	329.7		2.83	0.00	0.00	1.91		10.35	18.92	83.84	86.68	05-Jul-18 08:00:00		13.18	18.92	83.84	88.59
05-Jul-18 09:00:00	05-Jul-18 10:00:00		8.13	0.00	0.00	5.75	2.1	329.7		2.68	0.00	0.00	1.90		10.35	18.92	83.84	86.68	05-Jul-18 09:00:00		13.03	18.92	83.84	88.58
05-Jul-18 10:00:00	05-Jul-18 11:00:00		4.32	0.00	0.00	5.61	2.1	329.7		1.43	0.00	0.00	1.85		10.35	18.92	83.84	86.68	05-Jul-18 10:00:00		11.78	18.92	83.84	88.53
05-Jul-18 11:00:00	05-Jul-18 12:00:00		4.59	0.00	0.00	5.47	2.1	329.7		1.51	0.00	0.00	1.80		10.35	18.92	83.84	86.68	05-Jul-18 11:00:00		11.86	18.92	83.84	88.48
05-Jul-18 12:00:00	05-Jul-18 13:00:00		6.67	0.00	0.00	5.32	2.1	329.7		2.20	0.00	0.00	1.75		10.35	18.92	83.84	86.68	05-Jul-18 12:00:00		12.55	18.92	83.84	88.43
05-Jul-18 13:00:00	05-Jul-18 14:00:00		2.25	0.00	0.00	5.17	2.1	329.7		0.74	0.00	0.00	1.70		10.35	18.92	83.84	86.68	05-Jul-18 13:00:00		11.09	18.92	83.84	88.38
05-Jul-18 14:00:00	05-Jul-18 15:00:00		0.61	0.00	0.00	4.97	2.1	329.7		0.20	0.00	0.00	1.64		10.35	18.92	83.84	86.68	05-Jul-18 14:00:00		10.55	18.92	83.84	88.32
05-Jul-18 15:00:00	05-Jul-18 16:00:00		11.32	0.00	0.00	4.78	2.1	329.7		3.73	0.00	0.00	1.58		10.35	18.92	83.84	86.68	05-Jul-18 15:00:00		14.08	18.92	83.84	88.26
05-Jul-18 16:00:00	05-Jul-18 17:00:00		19.74	0.00	0.00	23.23	2.1	329.7		6.51	0.00	0.00	7.66		10.35	18.92	83.84	86.68	05-Jul-18 16:00:00		16.86	18.92	83.84	94.34
05-Jul-18 17:00:00	05-Jul-18 18:00:00		12.98	0.00	0.00	4.74	2.1	329.7		4.28	0.00	0.00	1.56		10.35	18.92	83.84	86.68	05-Jul-18 17:00:00		14.63	18.92	83.84	88.24
05-Jul-18 18:00:00	05-Jul-18 19:00:00		9.31	0.00	0.00	4.81	2.1	329.7		3.07	0.00	0.00	1.59		10.35	18.92	83.84	86.68	05-Jul-18 18:00:00		13.42	18.92	83.84	88.27
05-Jul-18 19:00:00	05-Jul-18 20:00:00		9.27	0.00	0.00	4.89	2.1	329.7		3.06	0.00	0.00	1.61		10.35	18.92	83.84	86.68	05-Jul-18 19:00:00		13.41	18.92	83.84	88.29
05-Jul-18 20:00:00	05-Jul-18 21:00:00		7.89	0.00	0.00	5.03	2.1	329.7		2.60	0.00	0.00	1.66		10.35	18.92	83.84	86.68	05-Jul-18 20:00:00		12.95	18.92	83.84	88.34
05-Jul-18 21:00:00	05-Jul-18 22:00:00		5.58	0.00	0.00	33.63	2.1	329.7		1.84	0.00	0.00	11.09		10.35	18.92	83.84	86.68	05-Jul-18 21:00:00		12.19	18.92	83.84	97.77
05-Jul-18 22:00:00	05-Jul-18 23:00:00		5.32	0.00	0.00	40.63	2.1	329.7		1.75	0.00	0.00	13.40		10.35	18.92	83.84	86.68	05-Jul-18 22:00:00		12.10	18.92	83.84	100.08
05-Jul-18 23:00:00	06-Jul-18 00:00:00		1.23	0.00	0.00	5.48	2.1	329.7		0.40	0.00	0.00	1.81		10.35	18.92	83.84	86.68	05-Jul-18 23:00:00		10.75	18.92	83.84	88.49
06-Jul-18 00:00:00	06-Jul-18 01:00:00		1.67	0.00	0.00	5.54	2.1	329.7		0.55	0.00	0.00	1.83		10.35	18.92	83.84	86.68	06-Jul-18 00:00:00		10.90	18.92	83.84	88.51
06-Jul-18 01:00:00	06-Jul-18 02:00:00		9.02	0.00	0.00	5.59	2.1	329.7		2.97	0.00	0.00	1.84		10.35	18.92	83.84	86.68	06-Jul-18 01:00:00		13.32	18.92	83.84	88.52
06-Jul-18 02:00:00	06-Jul-18 03:00:00		14.23	0.00	0.00	5.62	2.1	329.7		4.69	0.00	0.00	1.85		10.35	18.92	83.84	86.68	06-Jul-18 02:00:00		15.04	18.92	83.84	88.53
06-Jul-18 03:00:00	06-Jul-18 04:00:00		4.66	0.00	0.00	5.62	2.1	329.7		1.54	0.00	0.00	1.85		10.35	18.92	83.84	86.68	06-Jul-18 03:00:00		11.89	18.92	83.84	88.53
06-Jul-18 04:00:00	06-Jul-18 05:00:00		0.87	0.00	0.00	5.73	2.1	329.7		0.29	0.00	0.00	1.89		10.35	18.92	83.84	86.68	06-Jul-18 04:00:00		10.64	18.92	83.84	88.57
06-Jul-18 05:00:00	06-Jul-18 06:00:00		5.49	0.00	0.00	58.07	2.1	329.7		1.81	0.00	0.00	19.15		10.35	18.92	83.84	86.68	06-Jul-18 05:00:00		12.16	18.92	83.84	105.83
06-Jul-18 06:00:00	06-Jul-18 07:00:00		9.41	0.00	0.00	5.86	2.1	329.7		3.10	0.00	0.00	1.93		10.35	18.92	83.84	86.68	06-Jul-18 06:00:00		13.45	18.92	83.84	88.61
06-Jul-18 07:00:00	06-Jul-18 08:00:00		4.31	0.00	0.00	5.83	2.1	329.7		1.42	0.00	0.00	1.92		10.35	18.92	83.84	86.68	06-Jul-18 07:00:00		11.77	18.92	83.84	88.60
06-Jul-18 08:00:00	06-Jul-18 09:00:00		0.76	0.00	0.00	5.80	2.1	329.7		0.25	0.00	0.00	1.91		10.35	18.92	83.84	86.68	06-Jul-18 08:00:00		10.60	18.92	83.84	88.59
06-Jul-18 09:00:00	06-Jul-18 10:00:00		1.63	0.00	0.00	5.76	2.1	329.7		0.54	0.00	0.00	1.90		10.35	18.92	83.84	86.68	06-Jul-18 09:00:00		10.89	18.92	83.84	88.58
06-Jul-18 10:00:00	06-Jul-18 11:00:00		1.91	0.00	0.00	5.58	2.1	329.7		0.63	0.00	0.00	1.84		10.35	18.92	83.84	86.68	06-Jul-18 10:00:00		10.98	18.92	83.84	88.52
06-Jul-18 11:00:00	06-Jul-18 12:00:00		0.64	0.00	0.00	5.30	2.1	329.7		0.21	0.00	0.00	1.75		10.35	18.92	83.84	86.68	06-Jul-18 11:00:00		10.56	18.92	83.84	88.43
06-Jul-18 12:00:00	06-Jul-18 13:00:00		2.93	0.00	0.00	100.01	2.1	329.7		0.97	0.00	0.00	32.97		10.35	18.92	83.84	86.68	06-Jul-18 12:00:00		11.32	18.92	83.84	119.65
06-Jul-18 13:00:00	06-Jul-18 14:00:00		0.15	0.00	0.00	4.99	2.1	329.7		0.05	0.00	0.00	1.65		10.35	18.92	83.84	86.68	06-Jul-18 13:00:00		10.40	18.92	83.84	88.33
06-Jul-18 14:00:00	06-Jul-18 15:00:00		0.00	0.00	0.00	4.91	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	06-Jul-18 14:00:00		10.35	18.92	83.84	88.30
06-Jul-18 15:00:00	06-Jul-18 16:00:00		5.43	0.00	0.00	4.82	2.1	329.7		1.79	0.00	0.00	1.59		10.35	18.92	83.84	86.68	06-Jul-18 15:00:00		12.14	18.92	83.84	88.27
06-Jul-18 16:00:00	06-Jul-18 17:00:00		9.46	0.00	0.00	191.03	2.1	329.7		3.12	0.00	0.00	62.98		10.35	18.92	83.84	86.68	06-Jul-18 16:00:00		13.47	18.92	83.84	149.66
06-Jul-18 17:00:00	06-Jul-18 18:00:00		1.86	0.00	0.00	414.84	2.1	329.7		0.61	0.00	0.00	136.77		10.35	18.92	83.84	86.68	06-Jul-18 17:00:00		10.96	18.92	83.84	223.45
06-Jul-18 18:00:00	06-Jul-18 19:00:00		5.40	0.00	0.00	5.92	2.1	329.7		1.78	0.00	0.00	1.95		10.35	18.92	83.84	86.68	06-Jul-18 18:00:00		12.13	18.92	83.84	88.63
06-Jul-18 19:00:00	06-Jul-18 20:00:00		13.25	0.00	0.00	6.14	2.1	329.7		4.37	0.00	0.00	2.02		10.35	18.92	83.84	86.68	06-Jul-18 19:00:00		14.72	18.92	83.84	88.70
06-Jul-18 20:00:00	06-Jul-18 21:00:00		27.96	0.00	0.00	6.36	2.1	329.7		9.22	0.00	0.00	2.10		10.35	18.92	83.84	86.68	06-Jul-18 20:00:00		19.57	18.92	83.84	88.78
06-Jul-18 21:00:00	06-Jul-18 22:00:00		3.66	0.00	0.00	6.57	2.1	329.7		1.21	0.00	0.00	2.16		10.35	18.92	83.84	86.68	06-Jul-18 21:00:00		11.56	18.92	83.84	88.84
06-Jul-18 22:00:00	06-Jul-18 23:00:00		17.25	0.00	0.00	6.49	2.1	329.7		5.69	0.00	0.00	2.14		10.35	18.92	83.84	86.68	06-Jul-18 22:00:00		16.04	18.92	83.84	88.82
06-Jul-18 23:00:00	07-Jul-18 00:00:00		10.48	0.00	0.00	6.31	2.1	329.7		3.45	0.00	0.00	2.08		10.35	18.92	83.84	86.68	06-Jul-18 23:00:00		13.80	18.92	83.84	88.76
07-Jul-18 00:00:00	07-Jul-18 01:00:00		10.58	0.00	0.00	6.12	2.1	329.7		3.49	0.00	0.00	2.02		10.35	18.92	83.84	86.68	07-Jul-18 00:00:00		13.84	18.92	83.84	88.70
07-Jul-18 01:00:00	07-Jul-18 02:00:00		27.70	0.00	0.00	5.96	2.1	329.7		9.13	0.00	0.00	1.97		10.35	18.92	83.84	86.68	07-Jul-18 01:00:00		19.48	18.92	83.84	88.65
07-Jul-18 02:00:00	07-Jul-18 03:00:00		25.02	0.00	0.00	5.95	2.1	329.7		8.25	0.00	0.00	1.96		10.35	18.92	83.84	86.68	07-Jul-18 02:00:00		18.60	18.92	83.84	88.64
07-Jul-18 03:00:00	07-Jul-18 04:00:00		23.70	0.00	0.00	14.14	2.1	329.7		7.81	0.00	0.00	4.66		10.35	18.92	83.84	86.68	07-Jul-18 03:00:00		18.16	18.92	83.84	91.34
07-Jul-18 04:00:00	07-Jul-18 05:00:00		21.73	0.00	0.00	6.05	2.1	329.7		7.17	0.00	0.00	1.99		10.35	18.92	83.84	86.68	07-Jul-18 04:00:00		17.52	18.92	83.84	88.67
07-Jul-18 05:00:00	07-Jul-18 06:00:00		20.19	0.00	0.00	6.03	2.1	329.7		6.66	0.00	0.00	1.99		10.35	18.92	83.84	86.68	07-Jul-18 05:00:00		17.01	18.92	83.84	88.67
07-Jul-18 06:00:00	07-Jul-18 07:00:00		19.94	0.00	0.00	6.00	2.1	329.7		6.57	0.00	0.00	1.98		10.35	18.92	83.84	86.68	07-Jul-18 06:00:00		16.92	18.92	83.84	88.66
07-Jul-18 07:00:00	07-Jul-18 08:00:00		19.68	0.00	0.00	5.98	2.1	329.7		6.49	0.00	0.00	1.97		10.35	18.92	83.84	86.68	07-Jul-18 07:00:00		16.84	18.92	83.84	88.65
07-Jul-18 08:00:00	07-Jul-18 09:00:00		11.77	0.00	0.00	5.97	2.1	329.7		3.88	0.00	0.00	1.97		10.35	18.92	83.84	86.68	07-Jul-18 08:00:00		14.23	18.92	83.84	88.65
07-Jul-18 09:00:00	07-Jul-18 10:00:00		8.01	0.00	0.00	5.97	2.1	329.7		2.64	0.00	0.00	1.97		10.35	18.92	83.84	86.68	07-Jul-18 09:00:00		12.99	18.92	83.84	88.65
07-Jul-18 10:00:00	07-Jul-18 11:00:00		7.69	0.00	0.00	6.73	2.1	329.7		2.54	0.00	0.00	2.22		10.35	18.92	83.84	86.68	07-Jul-18 10:00:00		12.89	18.92	83.84	88.90
07-Jul-18 11:00:00	07-Jul-18 12:00:00		7.37	0.00	0.00	5.89	2.1	329.7		2.43	0.00	0.00	1.94		10.35	18.92	83.84	86.68	07-Jul-18 11:00:00		12.78	18.92	83.84	88.62
07-Jul-18 12:00:00	07-Jul-18 13:00:00		7.15	0.00	0.00	5.87	2.1	329.7		2.36	0.00	0.00	1.94		10.35	18.92	83.84	86.68	07-Jul-18 12:00:00		12.71	18.92	83.84	88.62
07-Jul-18 13:00:00	07-Jul-18 14:00:00		7.19	0.00	0.00	5.85	2.1	329.7		2.37	0.00	0.00	1.93		10.35	18.92	83.84	86.68	07-Jul-18 13:00:00		12.72	18.92	83.84	88.61
07-Jul-18 14:00:00	07-Jul-18 15:00:00		7.24	0.00	0.00	5.88	2.1	329.7		2.39	0.00	0.00	1.94		10.35	18.92	83.84	86.68	07-Jul-18 14:00:00		12.74	18.92	83.84	88.62
07-Jul-18 15:00:00	07-Jul-18 16:00:00		7.28	0.00	0.00	5.91	2.1	329.7		2.40	0.00	0.00	1.95		10.35	18.92	83.84	86.68	07-Jul-18 15:00:00		12.75	18.92	83.84	88.63
07-Jul-18 16:00:00	07-Jul-18 17:00:00		7.53	0.00	0.00	5.87	2.1	329.7		2.48	0.00	0.00	1.94		10.35	18.92	83.84	86.68	07-Jul-18 16:00:00		12.83	18.92	83.84	88.62
07-Jul-18 17:00:00	07-Jul-18 18:00:00		7.75	0.00	0.00	5.83	2.1	329.7		2.56	0.00	0.00	1.92		10.35	18.92	83.84	86.68	07-Jul-18 17:00:00		12.91	18.92	83.84	88.60
07-Jul-18 18:00:00	07-Jul-18 19:00:00		7.90	0.00	0.00	5.79	2.1	329.7		2.60	0.00	0.00	1.91		10.35	18.92	83.84	86.68	07-Jul-18 18:00:00		12.95	18.92	83.84	88.59
07-Jul-18 19:00:00	07-Jul-18 20:00:00		8.04	0.00	0.00	5.79	2.1	329.7		2.65	0.00	0.00	1.91		10.35	18.92	83.84	86.68	07-Jul-18 19:00:00		13.00	18.92	83.84	88.59
07-Jul-18 20:00:00	07-Jul-18 21:00:00		8.15	0.00	0.00	5.81	2.1	329.7		2.69	0.00	0.00	1.92		10.35	18.92	83.84	86.68	07-Jul-18 20:00:00		13.04	18.92	83.84	88.60
07-Jul-18 21:00:00	07-Jul-18 22:00:00		9.07	0.00	0.00	5.83	2.1	329.7		2.99	0.00	0.00	1.92		10.35	18.92	83.84	86.68	07-Jul-18 21:00:00		13.34	18.92	83.84	88.60
07-Jul-18 22:00:00	07-Jul-18 23:00:00		10.21	0.00	0.00	5.83	2.1	329.7		3.36	0.00	0.00	1.92		10.35	18.92	83.84	86.68	07-Jul-18 22:00:00		13.71	18.92	83.84	88.60
07-Jul-18 23:00:00	08-Jul-18 00:00:00		10.50	0.00	0.00	5.87	2.1	329.7		3.46	0.00	0.00	1.94		10.35	18.92	83.84	86.68	07-Jul-18 23:00:00		13.81	18.92	83.84	88.62
08-Jul-18 00:00:00	08-Jul-18 01:00:00		10.95	0.00	0.00	5.99	2.1	329.7		3.61	0.00	0.00	1.98		10.35	18.92	83.84	86.68	08-Jul-18 00:00:00		13.96	18.92	83.84	88.66
08-Jul-18 01:00:00	08-Jul-18 02:00:00		11.78	0.00	0.00	6.11	2.1	329.7		3.88	0.00	0.00	2.01		10.35	18.92	83.84	86.68	08-Jul-18 01:00:00		14.23	18.92	83.84	88.69
08-Jul-18 02:00:00	08-Jul-18 03:00:00		7.50	0.00	0.00	6.22	2.1	329.7		2.47	0.00	0.00	2.05		10.35	18.92	83.84	86.68	08-Jul-18 02:00:00		12.82	18.92	83.84	88.73
08-Jul-18 03:00:00	08-Jul-18 04:00:00		7.26	0.00	0.00	6.27	2.1	329.7		2.39	0.00	0.00	2.07		10.35	18.92	83.84	86.68	08-Jul-18 03:00:00		12.74	18.92	83.84	88.75
08-Jul-18 04:00:00	08-Jul-18 05:00:00		9.41	0.00	0.00	12.12	2.1	329.7		3.10	0.00	0.00	4.00		10.35	18.92	83.84	86.68	08-Jul-18 04:00:00		13.45	18.92	83.84	90.68
08-Jul-18 05:00:00	08-Jul-18 06:00:00		11.49	0.00	0.00	6.31	2.1	329.7		3.79	0.00	0.00	2.08		10.35	18.92	83.84	86.68	08-Jul-18 05:00:00		14.14	18.92	83.84	88.76
08-Jul-18 06:00:00	08-Jul-18 07:00:00		9.72	0.00	0.00	6.32	2.1	329.7		3.20	0.00	0.00	2.08		10.35	18.92	83.84	86.68	08-Jul-18 06:00:00		13.55	18.92	83.84	88.76
08-Jul-18 07:00:00	08-Jul-18 08:00:00		1.90	0.00	0.00	16.24	2.1	329.7		0.63	0.00	0.00	5.35		10.35	18.92	83.84	86.68	08-Jul-18 07:00:00		10.98	18.92	83.84	92.03
08-Jul-18 08:00:00	08-Jul-18 09:00:00		0.04	0.00	0.00	6.34	2.1	329.7		0.01	0.00	0.00	2.09		10.35	18.92	83.84	86.68	08-Jul-18 08:00:00		10.36	18.92	83.84	88.77
08-Jul-18 09:00:00	08-Jul-18 10:00:00		0.01	0.00	0.00	6.09	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	08-Jul-18 09:00:00		10.35	18.92	83.84	88.69
08-Jul-18 10:00:00	08-Jul-18 11:00:00		0.01	0.00	0.00	5.85	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	08-Jul-18 10:00:00		10.35	18.92	83.84	88.61
08-Jul-18 11:00:00	08-Jul-18 12:00:00		0.09	0.00	0.00	5.63	2.1	329.7		0.03	0.00	0.00	1.86		10.35	18.92	83.84	86.68	08-Jul-18 11:00:00		10.38	18.92	83.84	88.54
08-Jul-18 12:00:00	08-Jul-18 13:00:00		5.50	0.00	0.00	5.48	2.1	329.7		1.81	0.00	0.00	1.81		10.35	18.92	83.84	86.68	08-Jul-18 12:00:00		12.16	18.92	83.84	88.49
08-Jul-18 13:00:00	08-Jul-18 14:00:00		18.07	0.00	0.00	5.27	2.1	329.7		5.96	0.00	0.00	1.74		10.35	18.92	83.84	86.68	08-Jul-18 13:00:00		16.31	18.92	83.84	88.42
08-Jul-18 14:00:00	08-Jul-18 15:00:00		21.99	0.00	0.00	5.06	2.1	329.7		7.25	0.00	0.00	1.67		10.35	18.92	83.84	86.68	08-Jul-18 14:00:00		17.60	18.92	83.84	88.35
08-Jul-18 15:00:00	08-Jul-18 16:00:00		9.22	0.00	0.00	4.87

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
10-Jul-18 17:00:00	10-Jul-18 18:00:00		2.21	0.00	0.00	4.28	2.1	329.7		0.73	0.00	0.00	1.41		10.35	18.92	83.84	86.68	10-Jul-18 17:00:00		**11.08**	**18.92**	**83.84**	**88.09**
10-Jul-18 18:00:00	10-Jul-18 19:00:00		14.44	0.00	0.00	4.38	2.1	329.7		4.76	0.00	0.00	1.44		10.35	18.92	83.84	86.68	10-Jul-18 18:00:00		**15.11**	**18.92**	**83.84**	**88.12**
10-Jul-18 19:00:00	10-Jul-18 20:00:00		15.53	0.00	0.00	4.48	2.1	329.7		5.12	0.00	0.00	1.48		10.35	18.92	83.84	86.68	10-Jul-18 19:00:00		**15.47**	**18.92**	**83.84**	**88.16**
10-Jul-18 20:00:00	10-Jul-18 21:00:00		14.80	0.00	0.00	4.59	2.1	329.7		4.88	0.00	0.00	1.51		10.35	18.92	83.84	86.68	10-Jul-18 20:00:00		**15.23**	**18.92**	**83.84**	**88.19**
10-Jul-18 21:00:00	10-Jul-18 22:00:00		4.62	0.00	0.00	4.83	2.1	329.7		1.52	0.00	0.00	1.59		10.35	18.92	83.84	86.68	10-Jul-18 21:00:00		**11.87**	**18.92**	**83.84**	**88.27**
10-Jul-18 22:00:00	10-Jul-18 23:00:00		7.91	0.00	0.00	5.11	2.1	329.7		2.61	0.00	0.00	1.68		10.35	18.92	83.84	86.68	10-Jul-18 22:00:00		**12.96**	**18.92**	**83.84**	**88.36**
10-Jul-18 23:00:00	11-Jul-18 00:00:00		13.04	0.00	0.00	5.39	2.1	329.7		4.30	0.00	0.00	1.78		10.35	18.92	83.84	86.68	10-Jul-18 23:00:00		**14.65**	**18.92**	**83.84**	**88.46**
11-Jul-18 00:00:00	11-Jul-18 01:00:00		8.53	0.00	0.00	5.66	2.1	329.7		2.81	0.00	0.00	1.87		10.35	18.92	83.84	86.68	11-Jul-18 00:00:00		**13.16**	**18.92**	**83.84**	**88.55**
11-Jul-18 01:00:00	11-Jul-18 02:00:00		0.00	0.00	0.00	5.75	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	11-Jul-18 01:00:00		**10.35**	**18.92**	**83.84**	**88.57**
11-Jul-18 02:00:00	11-Jul-18 03:00:00		0.00	0.00	0.00	5.76	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	11-Jul-18 02:00:00		**10.35**	**18.92**	**83.84**	**88.58**
11-Jul-18 03:00:00	11-Jul-18 04:00:00		13.70	0.00	0.00	5.76	2.1	329.7		4.52	0.00	0.00	1.90		10.35	18.92	83.84	86.68	11-Jul-18 03:00:00		**14.87**	**18.92**	**83.84**	**88.58**
11-Jul-18 04:00:00	11-Jul-18 05:00:00		4.64	0.00	0.00	5.77	2.1	329.7		1.53	0.00	0.00	1.90		10.35	18.92	83.84	86.68	11-Jul-18 04:00:00		**11.88**	**18.92**	**83.84**	**88.58**
11-Jul-18 05:00:00	11-Jul-18 06:00:00		1.41	0.00	0.00	5.72	2.1	329.7		0.46	0.00	0.00	1.89		10.35	18.92	83.84	86.68	11-Jul-18 05:00:00		**10.81**	**18.92**	**83.84**	**88.57**
11-Jul-18 06:00:00	11-Jul-18 07:00:00		6.81	0.00	0.00	5.66	2.1	329.7		2.25	0.00	0.00	1.87		10.35	18.92	83.84	86.68	11-Jul-18 06:00:00		**12.60**	**18.92**	**83.84**	**88.55**
11-Jul-18 07:00:00	11-Jul-18 08:00:00		2.91	0.00	0.00	5.59	2.1	329.7		0.96	0.00	0.00	1.84		10.35	18.92	83.84	86.68	11-Jul-18 07:00:00		**11.31**	**18.92**	**83.84**	**88.52**
11-Jul-18 08:00:00	11-Jul-18 09:00:00		4.68	0.00	0.00	5.54	2.1	329.7		1.54	0.00	0.00	1.83		10.35	18.92	83.84	86.68	11-Jul-18 08:00:00		**11.89**	**18.92**	**83.84**	**88.51**
11-Jul-18 09:00:00	11-Jul-18 10:00:00		2.03	0.00	0.00	5.32	2.1	329.7		0.67	0.00	0.00	1.75		10.35	18.92	83.84	86.68	11-Jul-18 09:00:00		**11.02**	**18.92**	**83.84**	**88.43**
11-Jul-18 10:00:00	11-Jul-18 11:00:00		11.53	0.00	0.00	4.97	2.1	329.7		3.80	0.00	0.00	1.64		10.35	18.92	83.84	86.68	11-Jul-18 10:00:00		**14.15**	**18.92**	**83.84**	**88.32**
11-Jul-18 11:00:00	11-Jul-18 12:00:00		9.82	0.00	0.00	4.63	2.1	329.7		3.24	0.00	0.00	1.53		10.35	18.92	83.84	86.68	11-Jul-18 11:00:00		**13.59**	**18.92**	**83.84**	**88.21**
11-Jul-18 12:00:00	11-Jul-18 13:00:00		5.23	0.00	0.00	4.34	2.1	329.7		1.72	0.00	0.00	1.43		10.35	18.92	83.84	86.68	11-Jul-18 12:00:00		**12.07**	**18.92**	**83.84**	**88.11**
11-Jul-18 13:00:00	11-Jul-18 14:00:00		5.87	0.00	0.00	4.36	2.1	329.7		1.94	0.00	0.00	1.44		10.35	18.92	83.84	86.68	11-Jul-18 13:00:00		**12.29**	**18.92**	**83.84**	**88.12**
11-Jul-18 14:00:00	11-Jul-18 15:00:00		10.23	0.00	0.00	4.35	2.1	329.7		3.37	0.00	0.00	1.44		10.35	18.92	83.84	86.68	11-Jul-18 14:00:00		**13.72**	**18.92**	**83.84**	**88.12**
11-Jul-18 15:00:00	11-Jul-18 16:00:00		5.83	0.00	0.00	4.34	2.1	329.7		1.92	0.00	0.00	1.43		10.35	18.92	83.84	86.68	11-Jul-18 15:00:00		**12.27**	**18.92**	**83.84**	**88.11**
11-Jul-18 16:00:00	11-Jul-18 17:00:00		4.77	0.00	0.00	4.30	2.1	329.7		1.57	0.00	0.00	1.42		10.35	18.92	83.84	86.68	11-Jul-18 16:00:00		**11.92**	**18.92**	**83.84**	**88.10**
11-Jul-18 17:00:00	11-Jul-18 18:00:00		0.78	0.00	0.00	4.23	2.1	329.7		0.26	0.00	0.00	1.39		10.35	18.92	83.84	86.68	11-Jul-18 17:00:00		**10.61**	**18.92**	**83.84**	**88.07**
11-Jul-18 18:00:00	11-Jul-18 19:00:00		4.53	0.00	0.00	4.31	2.1	329.7		1.49	0.00	0.00	1.42		10.35	18.92	83.84	86.68	11-Jul-18 18:00:00		**11.84**	**18.92**	**83.84**	**88.10**
11-Jul-18 19:00:00	11-Jul-18 20:00:00		3.01	0.00	0.00	4.38	2.1	329.7		0.99	0.00	0.00	1.45		10.35	18.92	83.84	86.68	11-Jul-18 19:00:00		**11.34**	**18.92**	**83.84**	**88.13**
11-Jul-18 20:00:00	11-Jul-18 21:00:00		8.46	0.00	0.00	4.48	2.1	329.7		2.79	0.00	0.00	1.48		10.35	18.92	83.84	86.68	11-Jul-18 20:00:00		**13.14**	**18.92**	**83.84**	**88.16**
11-Jul-18 21:00:00	11-Jul-18 22:00:00		4.46	0.00	0.00	20.27	2.1	329.7		1.47	0.00	0.00	6.68		10.35	18.92	83.84	86.68	11-Jul-18 21:00:00		**11.82**	**18.92**	**83.84**	**93.36**
11-Jul-18 22:00:00	11-Jul-18 23:00:00		8.62	0.00	0.00	51.77	2.1	329.7		2.84	0.00	0.00	17.07		10.35	18.92	83.84	86.68	11-Jul-18 22:00:00		**13.19**	**18.92**	**83.84**	**103.75**
11-Jul-18 23:00:00	12-Jul-18 00:00:00		11.41	0.00	0.00	5.29	2.1	329.7		3.76	0.00	0.00	1.74		10.35	18.92	83.84	86.68	11-Jul-18 23:00:00		**14.11**	**18.92**	**83.84**	**88.42**
12-Jul-18 00:00:00	12-Jul-18 01:00:00		6.59	0.00	0.00	5.40	2.1	329.7		2.17	0.00	0.00	1.78		10.35	18.92	83.84	86.68	12-Jul-18 00:00:00		**12.52**	**18.92**	**83.84**	**88.46**
12-Jul-18 01:00:00	12-Jul-18 02:00:00		17.57	0.00	0.00	23.08	2.1	329.7		5.79	0.00	0.00	7.61		10.35	18.92	83.84	86.68	12-Jul-18 01:00:00		**16.14**	**18.92**	**83.84**	**94.29**
12-Jul-18 02:00:00	12-Jul-18 03:00:00		37.08	0.00	0.00	5.34	2.1	329.7		12.23	0.00	0.00	1.76		10.35	18.92	83.84	86.68	12-Jul-18 02:00:00		**22.58**	**18.92**	**83.84**	**88.44**
12-Jul-18 03:00:00	12-Jul-18 04:00:00		34.92	0.00	0.00	5.40	2.1	329.7		11.51	0.00	0.00	1.78		10.35	18.92	83.84	86.68	12-Jul-18 03:00:00		**21.86**	**18.92**	**83.84**	**88.46**
12-Jul-18 04:00:00	12-Jul-18 05:00:00		32.26	0.00	0.00	57.26	2.1	329.7		10.64	0.00	0.00	18.88		10.35	18.92	83.84	86.68	12-Jul-18 04:00:00		**20.99**	**18.92**	**83.84**	**105.56**
12-Jul-18 05:00:00	12-Jul-18 06:00:00		30.07	0.00	0.00	5.43	2.1	329.7		9.91	0.00	0.00	1.79		10.35	18.92	83.84	86.68	12-Jul-18 05:00:00		**20.26**	**18.92**	**83.84**	**88.47**
12-Jul-18 06:00:00	12-Jul-18 07:00:00		21.99	0.00	0.00	5.46	2.1	329.7		7.25	0.00	0.00	1.80		10.35	18.92	83.84	86.68	12-Jul-18 06:00:00		**17.60**	**18.92**	**83.84**	**88.48**
12-Jul-18 07:00:00	12-Jul-18 08:00:00		21.76	0.00	0.00	14.95	2.1	329.7		7.17	0.00	0.00	4.93		10.35	18.92	83.84	86.68	12-Jul-18 07:00:00		**17.52**	**18.92**	**83.84**	**91.61**
12-Jul-18 08:00:00	12-Jul-18 09:00:00		21.53	0.00	0.00	5.45	2.1	329.7		7.10	0.00	0.00	1.80		10.35	18.92	83.84	86.68	12-Jul-18 08:00:00		**17.45**	**18.92**	**83.84**	**88.48**
12-Jul-18 09:00:00	12-Jul-18 10:00:00		21.40	0.00	0.00	5.28	2.1	329.7		7.06	0.00	0.00	1.74		10.35	18.92	83.84	86.68	12-Jul-18 09:00:00		**17.41**	**18.92**	**83.84**	**88.42**
12-Jul-18 10:00:00	12-Jul-18 11:00:00		20.97	0.00	0.00	5.88	2.1	329.7		6.91	0.00	0.00	1.94		10.35	18.92	83.84	86.68	12-Jul-18 10:00:00		**17.26**	**18.92**	**83.84**	**88.62**
12-Jul-18 11:00:00	12-Jul-18 12:00:00		19.51	0.00	0.00	5.02	2.1	329.7		6.43	0.00	0.00	1.66		10.35	18.92	83.84	86.68	12-Jul-18 11:00:00		**16.78**	**18.92**	**83.84**	**88.34**
12-Jul-18 12:00:00	12-Jul-18 13:00:00		9.97	0.00	0.00	4.82	2.1	329.7		3.29	0.00	0.00	1.59		10.35	18.92	83.84	86.68	12-Jul-18 12:00:00		**13.64**	**18.92**	**83.84**	**88.27**
12-Jul-18 13:00:00	12-Jul-18 14:00:00		3.19	0.00	0.00	4.62	2.1	329.7		1.05	0.00	0.00	1.52		10.35	18.92	83.84	86.68	12-Jul-18 13:00:00		**11.40**	**18.92**	**83.84**	**88.20**
12-Jul-18 14:00:00	12-Jul-18 15:00:00		1.53	0.00	0.00	4.48	2.1	329.7		0.51	0.00	0.00	1.48		10.35	18.92	83.84	86.68	12-Jul-18 14:00:00		**10.86**	**18.92**	**83.84**	**88.16**
12-Jul-18 15:00:00	12-Jul-18 16:00:00		1.08	0.00	0.00	4.60	2.1	329.7		0.35	0.00	0.00	1.52		10.35	18.92	83.84	86.68	12-Jul-18 15:00:00		**10.70**	**18.92**	**83.84**	**88.20**
12-Jul-18 16:00:00	12-Jul-18 17:00:00		6.17	0.00	0.00	4.74	2.1	329.7		2.03	0.00	0.00	1.56		10.35	18.92	83.84	86.68	12-Jul-18 16:00:00		**12.38**	**18.92**	**83.84**	**88.24**
12-Jul-18 17:00:00	12-Jul-18 18:00:00		2.49	0.00	0.00	4.89	2.1	329.7		0.82	0.00	0.00	1.61		10.35	18.92	83.84	86.68	12-Jul-18 17:00:00		**11.17**	**18.92**	**83.84**	**88.29**
12-Jul-18 18:00:00	12-Jul-18 19:00:00		0.00	0.00	0.00	4.99	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	12-Jul-18 18:00:00		**10.35**	**18.92**	**83.84**	**88.32**
12-Jul-18 19:00:00	12-Jul-18 20:00:00		0.00	0.00	0.00	5.17	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	12-Jul-18 19:00:00		**10.35**	**18.92**	**83.84**	**88.39**
12-Jul-18 20:00:00	12-Jul-18 21:00:00		0.62	0.00	0.00	5.42	2.1	329.7		0.21	0.00	0.00	1.79		10.35	18.92	83.84	86.68	12-Jul-18 20:00:00		**10.56**	**18.92**	**83.84**	**88.47**
12-Jul-18 21:00:00	12-Jul-18 22:00:00		1.94	0.00	0.00	5.67	2.1	329.7		0.64	0.00	0.00	1.87		10.35	18.92	83.84	86.68	12-Jul-18 21:00:00		**10.99**	**18.92**	**83.84**	**88.55**
12-Jul-18 22:00:00	12-Jul-18 23:00:00		16.50	0.00	0.00	5.89	2.1	329.7		5.44	0.00	0.00	1.94		10.35	18.92	83.84	86.68	12-Jul-18 22:00:00		**15.79**	**18.92**	**83.84**	**88.62**
12-Jul-18 23:00:00	13-Jul-18 00:00:00		3.35	0.00	0.00	5.84	2.1	329.7		1.10	0.00	0.00	1.93		10.35	18.92	83.84	86.68	12-Jul-18 23:00:00		**11.45**	**18.92**	**83.84**	**88.61**
13-Jul-18 00:00:00	13-Jul-18 01:00:00		11.50	0.00	0.00	5.73	2.1	329.7		3.79	0.00	0.00	1.89		10.35	18.92	83.84	86.68	13-Jul-18 00:00:00		**14.14**	**18.92**	**83.84**	**88.57**
13-Jul-18 01:00:00	13-Jul-18 02:00:00		17.71	0.00	0.00	5.63	2.1	329.7		5.84	0.00	0.00	1.86		10.35	18.92	83.84	86.68	13-Jul-18 01:00:00		**16.19**	**18.92**	**83.84**	**88.54**
13-Jul-18 02:00:00	13-Jul-18 03:00:00		12.78	0.00	0.00	5.56	2.1	329.7		4.21	0.00	0.00	1.83		10.35	18.92	83.84	86.68	13-Jul-18 02:00:00		**14.56**	**18.92**	**83.84**	**88.51**
13-Jul-18 03:00:00	13-Jul-18 04:00:00		10.69	0.00	0.00	59.55	2.1	329.7		3.53	0.00	0.00	19.63		10.35	18.92	83.84	86.68	13-Jul-18 03:00:00		**13.88**	**18.92**	**83.84**	**106.31**
13-Jul-18 04:00:00	13-Jul-18 05:00:00		15.92	0.00	0.00	5.73	2.1	329.7		5.25	0.00	0.00	1.89		10.35	18.92	83.84	86.68	13-Jul-18 04:00:00		**15.60**	**18.92**	**83.84**	**88.57**
13-Jul-18 05:00:00	13-Jul-18 06:00:00		4.63	0.00	0.00	5.78	2.1	329.7		1.53	0.00	0.00	1.90		10.35	18.92	83.84	86.68	13-Jul-18 05:00:00		**11.88**	**18.92**	**83.84**	**88.58**
13-Jul-18 06:00:00	13-Jul-18 07:00:00		5.55	0.00	0.00	6.35	2.1	329.7		1.83	0.00	0.00	2.09		10.35	18.92	83.84	86.68	13-Jul-18 06:00:00		**12.18**	**18.92**	**83.84**	**88.77**
13-Jul-18 07:00:00	13-Jul-18 08:00:00		3.65	0.00	0.00	5.80	2.1	329.7		1.20	0.00	0.00	1.91		10.35	18.92	83.84	86.68	13-Jul-18 07:00:00		**11.55**	**18.92**	**83.84**	**88.59**
13-Jul-18 08:00:00	13-Jul-18 09:00:00		3.16	0.00	0.00	5.75	2.1	329.7		1.04	0.00	0.00	1.90		10.35	18.92	83.84	86.68	13-Jul-18 08:00:00		**11.39**	**18.92**	**83.84**	**88.58**
13-Jul-18 09:00:00	13-Jul-18 10:00:00		1.22	0.00	0.00	5.70	2.1	329.7		0.40	0.00	0.00	1.88		10.35	18.92	83.84	86.68	13-Jul-18 09:00:00		**10.75**	**18.92**	**83.84**	**88.56**
13-Jul-18 10:00:00	13-Jul-18 11:00:00		0.81	0.00	0.00	5.73	2.1	329.7		0.27	0.00	0.00	1.89		10.35	18.92	83.84	86.68	13-Jul-18 10:00:00		**10.62**	**18.92**	**83.84**	**88.57**
13-Jul-18 11:00:00	13-Jul-18 12:00:00		0.41	0.00	0.00	5.65	2.1	329.7		0.13	0.00	0.00	1.86		10.35	18.92	83.84	86.68	13-Jul-18 11:00:00		**10.48**	**18.92**	**83.84**	**88.54**
13-Jul-18 12:00:00	13-Jul-18 13:00:00		0.05	0.00	0.00	5.51	2.1	329.7		0.02	0.00	0.00	1.82		10.35	18.92	83.84	86.68	13-Jul-18 12:00:00		**10.37**	**18.92**	**83.84**	**88.50**
13-Jul-18 13:00:00	13-Jul-18 14:00:00		0.00	0.00	0.00	5.36	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	13-Jul-18 13:00:00		**10.35**	**18.92**	**83.84**	**88.45**
13-Jul-18 14:00:00	13-Jul-18 15:00:00		0.08	0.00	0.00	5.21	2.1	329.7		0.03	0.00	0.00	1.72		10.35	18.92	83.84	86.68	13-Jul-18 14:00:00		**10.38**	**18.92**	**83.84**	**88.40**
13-Jul-18 15:00:00	13-Jul-18 16:00:00		8.72	0.00	0.00	5.16	2.1	329.7		2.87	0.00	0.00	1.70		10.35	18.92	83.84	86.68	13-Jul-18 15:00:00		**13.22**	**18.92**	**83.84**	**88.38**
13-Jul-18 16:00:00	13-Jul-18 17:00:00		4.75	0.00	0.00	5.15	2.1	329.7		1.57	0.00	0.00	1.70		10.35	18.92	83.84	86.68	13-Jul-18 16:00:00		**11.92**	**18.92**	**83.84**	**88.38**
13-Jul-18 17:00:00	13-Jul-18 18:00:00		2.63	0.00	0.00	5.13	2.1	329.7		0.87	0.00	0.00	1.69		10.35	18.92	83.84	86.68	13-Jul-18 17:00:00		**11.22**	**18.92**	**83.84**	**88.37**
13-Jul-18 18:00:00	13-Jul-18 19:00:00		2.20	0.00	0.00	5.16	2.1	329.7		0.73	0.00	0.00	1.70		10.35	18.92	83.84	86.68	13-Jul-18 18:00:00		**11.08**	**18.92**	**83.84**	**88.38**
13-Jul-18 19:00:00	13-Jul-18 20:00:00		0.00	0.00	0.00	5.19	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	13-Jul-18 19:00:00		**10.35**	**18.92**	**83.84**	**88.39**
13-Jul-18 20:00:00	13-Jul-18 21:00:00		0.00	0.00	0.00	5.20	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	13-Jul-18 20:00:00		**10.35**	**18.92**	**83.84**	**88.39**
13-Jul-18 21:00:00	13-Jul-18 22:00:00		0.00	0.00	0.00	5.21	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	13-Jul-18 21:00:00		**10.35**	**18.92**	**83.84**	**88.40**
13-Jul-18 22:00:00	13-Jul-18 23:00:00		0.33	0.00	0.00	5.26	2.1	329.7		0.11	0.00	0.00	1.73		10.35	18.92	83.84	86.68	13-Jul-18 22:00:00		**10.46**	**18.92**	**83.84**	**88.41**
13-Jul-18 23:00:00	14-Jul-18 00:00:00		0.26	0.00	0.00	5.32	2.1	329.7		0.09	0.00	0.00	1.75		10.35	18.92	83.84	86.68	13-Jul-18 23:00:00		**10.44**	**18.92**	**83.84**	**88.43**
14-Jul-18 00:00:00	14-Jul-18 01:00:00		4.77	0.00	0.00	5.36	2.1	329.7		1.57	0.00	0.00	1.77		10.35	18.92	83.84	86.68	14-Jul-18 00:00:00		**11.92**	**18.92**	**83.84**	**88.45**
14-Jul-18 01:00:00	14-Jul-18 02:00:00		0.24	0.00	0.00	5.54	2.1	329.7		0.08	0.00	0.00	1.83		10.35	18.92	83.84	86.68	14-Jul-18 01:00:00		**10.43**	**18.92**	**83.84**	**88.51**
14-Jul-18 02:00:00	14-Jul-18 03:00:00		17.71	0.00	0.00	5.42	2.1	329.7		5.84	0.00	0.00	1.79		10.35	18.92	83.84	86.68	14-Jul-18 02:00:00		**16.19**	**18.92**	**83.84**	**88.47**
14-Jul-18 03:00:00	14-Jul-18 04:00:00		19.33	0.00	0.00	5.58	2.1	329.7		6.37	0.00	0.00	1.84		10.35	18.92	83.84	86.68	14-Jul-18 03:00:00		**16.72**	**18.92**	**83.84**	**88.52**
14-Jul-18 04:00:00	14-Jul-18 05:00:00		2.94	0.00	0.00	5.75	2.1	329.7		0.97	0.00	0.00	1.89		10.35	18.92	83.84	86.68	14-Jul-18 04:00:00		**11.32**	**18.92**	**83.84**	**88.57**
14-Jul-18 05:00:00	14-Jul-18 06:00:00		4.51	0.00	0.00	5.91	2.1	329.7		1.49	0.00	0.00	1.95		10.35	18.92	83.84	86.68	14-Jul-18 05:00:00		**11.84**	**18.92**	**83.84**	**88.63**
14-Jul-18 06:00:00	14-Jul-18 07:00:00		24.80	0.00	0.00	6.01	2.1	329.7		8.18	0.00	0.00	1.98		10.35	18.92	83.84	86.68	14-Jul-18 06:00:00		**18.53**	**18.92**	**83.84**	**88.66**
14-Jul-18 07:00:00	14-Jul-18 08:00:00		33.21	0.00	0.00	5.95	2.1	329.7		10.95	0.00	0.00	1.96		10.35	18.92	83.84	86.68	14-Jul-18 07:00:00		**21.30**	**18.92**	**83.84**	**88.64**
14-Jul-18 08:00:00	14-Jul-18 09:00:00		30.10	0.00	0.00	5.89	2.1	329.7		9.92	0.00	0.00	1.94		10.35	18.92	83.84	86.68	14-Jul-18 08:00:00		**20.27**	**18.92**	**83.84**	**88.62**
14-Jul-18 09:00:00	14-Jul-18 10:00:00		30.50	0.00	0.00	5.84	2.1	329.7		10.06	0.00	0.00	1.92		10.35	18.92	83.84	86.68	14-Jul-18 09:00:00		**20.41**	**18.92**	**83.84**	**88.60**
14-Jul-18 10:00:00	14-Jul-18 11:00:00		29.80	0.00	0.00	5.61	2.1	329.7		9.83	0.00	0.00	1.85		10.35	18.92	83.84	86.68	14-Jul-18 10:00:00		**20.18**	**18.92**	**83.84**	**88.53**
14-Jul-18 11:00:00	14-Jul-18 12:00:00		20.62	0.00	0.00	5.31	2.1	329.7		6.80	0.00	0.00	1.75		10.35	18.92	83.84	86.68	14-Jul-18 11:00:00		**17.15**	**18.92**	**83.84**	**88.43**
14-Jul-18 12:00:00	14-Jul-18 13:00:00		8.83	0.00	0.00	5.00	2.1	329.7		2.91	0.00	0.00	1.65		10.35	18.92	83.84	86.68	14-Jul-18 12:00:00		**13.26**	**18.92**	**83.84**	**88.33**
14-Jul-18 13:00:00	14-Jul-18 14:00:00		10.43	0.00	0.00	4.70	2.1	329.7		3.44	0.00	0.00	1.55		10.35	18.92	83.84	86.68	14-Jul-18 13:00:00		**13.79**	**18.92**	**83.84**	**88.23**
14-Jul-18 14:00:00	14-Jul-18 15:00:00		0.77	0.00	0.00	4.59

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
16-Jul-18 16:00:00	16-Jul-18 17:00:00		12.48	0.00	0.00	4.66	2.1	329.7		4.11	0.00	0.00	1.54		10.35	18.92	83.84	86.68	16-Jul-18 16:00:00		**14.46**	**18.92**	**83.84**	**88.22**
16-Jul-18 17:00:00	16-Jul-18 18:00:00		4.15	0.00	0.00	4.72	2.1	329.7		1.37	0.00	0.00	1.56		10.35	18.92	83.84	86.68	16-Jul-18 17:00:00		**11.72**	**18.92**	**83.84**	**88.24**
16-Jul-18 18:00:00	16-Jul-18 19:00:00		0.58	0.00	0.00	4.84	2.1	329.7		0.19	0.00	0.00	1.60		10.35	18.92	83.84	86.68	16-Jul-18 18:00:00		**10.54**	**18.92**	**83.84**	**88.28**
16-Jul-18 19:00:00	16-Jul-18 20:00:00		0.86	0.00	0.00	4.95	2.1	329.7		0.28	0.00	0.00	1.63		10.35	18.92	83.84	86.68	16-Jul-18 19:00:00		**10.63**	**18.92**	**83.84**	**88.31**
16-Jul-18 20:00:00	16-Jul-18 21:00:00		0.59	0.00	0.00	5.07	2.1	329.7		0.19	0.00	0.00	1.67		10.35	18.92	83.84	86.68	16-Jul-18 20:00:00		**10.54**	**18.92**	**83.84**	**88.35**
16-Jul-18 21:00:00	16-Jul-18 22:00:00		0.32	0.00	0.00	5.16	2.1	329.7		0.10	0.00	0.00	1.70		10.35	18.92	83.84	86.68	16-Jul-18 21:00:00		**10.45**	**18.92**	**83.84**	**88.38**
16-Jul-18 22:00:00	16-Jul-18 23:00:00		0.23	0.00	0.00	5.20	2.1	329.7		0.08	0.00	0.00	1.72		10.35	18.92	83.84	86.68	16-Jul-18 22:00:00		**10.43**	**18.92**	**83.84**	**88.40**
16-Jul-18 23:00:00	17-Jul-18 00:00:00		0.03	0.00	0.00	5.24	2.1	329.7		0.01	0.00	0.00	1.73		10.35	18.92	83.84	86.68	16-Jul-18 23:00:00		**10.36**	**18.92**	**83.84**	**88.41**
17-Jul-18 00:00:00	17-Jul-18 01:00:00		0.00	0.00	0.00	5.27	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	17-Jul-18 00:00:00		**10.35**	**18.92**	**83.84**	**88.42**
17-Jul-18 01:00:00	17-Jul-18 02:00:00		11.89	0.00	0.00	5.52	2.1	329.7		3.92	0.00	0.00	1.82		10.35	18.92	83.84	86.68	17-Jul-18 01:00:00		**14.27**	**18.92**	**83.84**	**88.50**
17-Jul-18 02:00:00	17-Jul-18 03:00:00		18.69	0.00	0.00	5.62	2.1	329.7		6.16	0.00	0.00	1.85		10.35	18.92	83.84	86.68	17-Jul-18 02:00:00		**16.51**	**18.92**	**83.84**	**88.53**
17-Jul-18 03:00:00	17-Jul-18 04:00:00		8.99	0.00	0.00	5.68	2.1	329.7		2.97	0.00	0.00	1.87		10.35	18.92	83.84	86.68	17-Jul-18 03:00:00		**13.32**	**18.92**	**83.84**	**88.55**
17-Jul-18 04:00:00	17-Jul-18 05:00:00		16.83	0.00	0.00	5.74	2.1	329.7		5.55	0.00	0.00	1.89		10.35	18.92	83.84	86.68	17-Jul-18 04:00:00		**15.90**	**18.92**	**83.84**	**88.57**
17-Jul-18 05:00:00	17-Jul-18 06:00:00		12.76	0.00	0.00	5.70	2.1	329.7		4.21	0.00	0.00	1.88		10.35	18.92	83.84	86.68	17-Jul-18 05:00:00		**14.56**	**18.92**	**83.84**	**88.56**
17-Jul-18 06:00:00	17-Jul-18 07:00:00		15.20	0.00	0.00	5.70	2.1	329.7		5.01	0.00	0.00	1.88		10.35	18.92	83.84	86.68	17-Jul-18 06:00:00		**15.36**	**18.92**	**83.84**	**88.56**
17-Jul-18 07:00:00	17-Jul-18 08:00:00		15.87	0.00	0.00	5.74	2.1	329.7		5.23	0.00	0.00	1.89		10.35	18.92	83.84	86.68	17-Jul-18 07:00:00		**15.58**	**18.92**	**83.84**	**88.57**
17-Jul-18 08:00:00	17-Jul-18 09:00:00		7.03	0.00	0.00	5.77	2.1	329.7		2.32	0.00	0.00	1.90		10.35	18.92	83.84	86.68	17-Jul-18 08:00:00		**12.67**	**18.92**	**83.84**	**88.58**
17-Jul-18 09:00:00	17-Jul-18 10:00:00		13.26	0.00	0.00	5.67	2.1	329.7		4.37	0.00	0.00	1.87		10.35	18.92	83.84	86.68	17-Jul-18 09:00:00		**14.72**	**18.92**	**83.84**	**88.55**
17-Jul-18 10:00:00	17-Jul-18 11:00:00		14.31	0.00	0.00	5.55	2.1	329.7		4.72	0.00	0.00	1.83		10.35	18.92	83.84	86.68	17-Jul-18 10:00:00		**15.07**	**18.92**	**83.84**	**88.51**
17-Jul-18 11:00:00	17-Jul-18 12:00:00		15.00	0.00	0.00	5.44	2.1	329.7		4.94	0.00	0.00	1.80		10.35	18.92	83.84	86.68	17-Jul-18 11:00:00		**15.29**	**18.92**	**83.84**	**88.48**
17-Jul-18 12:00:00	17-Jul-18 13:00:00		15.81	0.00	0.00	5.34	2.1	329.7		5.21	0.00	0.00	1.76		10.35	18.92	83.84	86.68	17-Jul-18 12:00:00		**15.56**	**18.92**	**83.84**	**88.44**
17-Jul-18 13:00:00	17-Jul-18 14:00:00		15.43	0.00	0.00	5.18	2.1	329.7		5.09	0.00	0.00	1.71		10.35	18.92	83.84	86.68	17-Jul-18 13:00:00		**15.44**	**18.92**	**83.84**	**88.39**
17-Jul-18 14:00:00	17-Jul-18 15:00:00		5.65	0.00	0.00	4.98	2.1	329.7		1.86	0.00	0.00	1.64		10.35	18.92	83.84	86.68	17-Jul-18 14:00:00		**12.21**	**18.92**	**83.84**	**88.32**
17-Jul-18 15:00:00	17-Jul-18 16:00:00		21.07	0.00	0.00	4.78	2.1	329.7		6.95	0.00	0.00	1.58		10.35	18.92	83.84	86.68	17-Jul-18 15:00:00		**17.30**	**18.92**	**83.84**	**88.26**
17-Jul-18 16:00:00	17-Jul-18 17:00:00		14.44	0.00	0.00	4.58	2.1	329.7		4.76	0.00	0.00	1.51		10.35	18.92	83.84	86.68	17-Jul-18 16:00:00		**15.11**	**18.92**	**83.84**	**88.19**
17-Jul-18 17:00:00	17-Jul-18 18:00:00		1.09	0.00	0.00	4.28	2.1	329.7		0.36	0.00	0.00	1.41		10.35	18.92	83.84	86.68	17-Jul-18 17:00:00		**10.71**	**18.92**	**83.84**	**88.09**
17-Jul-18 18:00:00	17-Jul-18 19:00:00		2.22	0.00	0.00	4.43	2.1	329.7		0.73	0.00	0.00	1.46		10.35	18.92	83.84	86.68	17-Jul-18 18:00:00		**11.08**	**18.92**	**83.84**	**88.14**
17-Jul-18 19:00:00	17-Jul-18 20:00:00		0.89	0.00	0.00	4.66	2.1	329.7		0.29	0.00	0.00	1.54		10.35	18.92	83.84	86.68	17-Jul-18 19:00:00		**10.64**	**18.92**	**83.84**	**88.22**
17-Jul-18 20:00:00	17-Jul-18 21:00:00		1.75	0.00	0.00	4.88	2.1	329.7		0.58	0.00	0.00	1.61		10.35	18.92	83.84	86.68	17-Jul-18 20:00:00		**10.93**	**18.92**	**83.84**	**88.29**
17-Jul-18 21:00:00	17-Jul-18 22:00:00		527.02	0.00	0.00	5.05	2.1	329.7		173.76	0.00	0.00	1.66		10.35	18.92	83.84	86.68	17-Jul-18 21:00:00		**184.11**	**18.92**	**83.84**	**88.34**
17-Jul-18 22:00:00	17-Jul-18 23:00:00		683.82	0.00	0.00	5.13	2.1	329.7		225.45	0.00	0.00	1.69		10.35	18.92	83.84	86.68	17-Jul-18 22:00:00		**235.80**	**18.92**	**83.84**	**88.37**
17-Jul-18 23:00:00	18-Jul-18 00:00:00		1,287.88	0.00	0.00	5.23	2.1	329.7		424.61	0.00	0.00	1.72		10.35	18.92	83.84	86.68	17-Jul-18 23:00:00		**434.96**	**18.92**	**83.84**	**88.40**
18-Jul-18 00:00:00	18-Jul-18 01:00:00		1,320.82	0.00	0.00	5.32	2.1	329.7		435.47	0.00	0.00	1.75		10.35	18.92	83.84	86.68	18-Jul-18 00:00:00		**445.82**	**18.92**	**83.84**	**88.43**
18-Jul-18 01:00:00	18-Jul-18 02:00:00		1,327.07	0.00	0.00	5.51	2.1	329.7		437.54	0.00	0.00	1.82		10.35	18.92	83.84	86.68	18-Jul-18 01:00:00		**447.89**	**18.92**	**83.84**	**88.50**
18-Jul-18 02:00:00	18-Jul-18 03:00:00		1,331.11	0.00	0.00	5.54	2.1	329.7		438.87	0.00	0.00	1.83		10.35	18.92	83.84	86.68	18-Jul-18 02:00:00		**449.22**	**18.92**	**83.84**	**88.51**
18-Jul-18 03:00:00	18-Jul-18 04:00:00		1,319.79	0.00	0.00	5.54	2.1	329.7		435.13	0.00	0.00	1.83		10.35	18.92	83.84	86.68	18-Jul-18 03:00:00		**445.48**	**18.92**	**83.84**	**88.51**
18-Jul-18 04:00:00	18-Jul-18 05:00:00		1,374.05	0.00	0.00	5.53	2.1	329.7		453.02	0.00	0.00	1.82		10.35	18.92	83.84	86.68	18-Jul-18 04:00:00		**463.37**	**18.92**	**83.84**	**88.50**
18-Jul-18 05:00:00	18-Jul-18 06:00:00		705.95	0.00	0.00	5.40	2.1	329.7		232.75	0.00	0.00	1.78		10.35	18.92	83.84	86.68	18-Jul-18 05:00:00		**243.10**	**18.92**	**83.84**	**88.46**
18-Jul-18 06:00:00	18-Jul-18 07:00:00		0.00	0.00	0.00	5.31	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	18-Jul-18 06:00:00		**10.35**	**18.92**	**83.84**	**88.43**
18-Jul-18 07:00:00	18-Jul-18 08:00:00		0.00	0.00	0.00	5.25	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	18-Jul-18 07:00:00		**10.35**	**18.92**	**83.84**	**88.41**
18-Jul-18 08:00:00	18-Jul-18 09:00:00		0.00	0.00	0.00	5.19	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	18-Jul-18 08:00:00		**10.35**	**18.92**	**83.84**	**88.39**
18-Jul-18 09:00:00	18-Jul-18 10:00:00		0.00	0.00	0.00	5.12	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	18-Jul-18 09:00:00		**10.35**	**18.92**	**83.84**	**88.37**
18-Jul-18 10:00:00	18-Jul-18 11:00:00		0.00	0.00	0.00	4.91	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	18-Jul-18 10:00:00		**10.35**	**18.92**	**83.84**	**88.30**
18-Jul-18 11:00:00	18-Jul-18 12:00:00		0.00	0.00	0.00	4.69	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	18-Jul-18 11:00:00		**10.35**	**18.92**	**83.84**	**88.23**
18-Jul-18 12:00:00	18-Jul-18 13:00:00		0.00	0.00	0.00	4.48	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	18-Jul-18 12:00:00		**10.35**	**18.92**	**83.84**	**88.16**
18-Jul-18 13:00:00	18-Jul-18 14:00:00		0.00	0.00	0.00	4.22	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	18-Jul-18 13:00:00		**10.35**	**18.92**	**83.84**	**88.07**
18-Jul-18 14:00:00	18-Jul-18 15:00:00		0.00	0.00	0.00	4.13	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	18-Jul-18 14:00:00		**10.35**	**18.92**	**83.84**	**88.04**
18-Jul-18 15:00:00	18-Jul-18 16:00:00		0.00	0.00	0.00	4.08	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	18-Jul-18 15:00:00		**10.35**	**18.92**	**83.84**	**88.03**
18-Jul-18 16:00:00	18-Jul-18 17:00:00		0.00	0.00	0.00	4.03	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	18-Jul-18 16:00:00		**10.35**	**18.92**	**83.84**	**88.01**
18-Jul-18 17:00:00	18-Jul-18 18:00:00		0.00	0.00	0.00	4.10	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	18-Jul-18 17:00:00		**10.35**	**18.92**	**83.84**	**88.03**
18-Jul-18 18:00:00	18-Jul-18 19:00:00		1.35	0.00	0.00	4.28	2.1	329.7		0.44	0.00	0.00	1.41		10.35	18.92	83.84	86.68	18-Jul-18 18:00:00		**10.79**	**18.92**	**83.84**	**88.09**
18-Jul-18 19:00:00	18-Jul-18 20:00:00		255.01	0.00	0.00	4.46	2.1	329.7		84.08	0.00	0.00	1.47		10.35	18.92	83.84	86.68	18-Jul-18 19:00:00		**94.43**	**18.92**	**83.84**	**88.15**
18-Jul-18 20:00:00	18-Jul-18 21:00:00		237.26	0.00	0.00	4.63	2.1	329.7		78.22	0.00	0.00	1.53		10.35	18.92	83.84	86.68	18-Jul-18 20:00:00		**88.57**	**18.92**	**83.84**	**88.21**
18-Jul-18 21:00:00	18-Jul-18 22:00:00		298.19	0.00	0.00	4.85	2.1	329.7		98.31	0.00	0.00	1.60		10.35	18.92	83.84	86.68	18-Jul-18 21:00:00		**108.66**	**18.92**	**83.84**	**88.28**
18-Jul-18 22:00:00	18-Jul-18 23:00:00		376.06	0.00	0.00	5.06	2.1	329.7		123.99	0.00	0.00	1.67		10.35	18.92	83.84	86.68	18-Jul-18 22:00:00		**134.34**	**18.92**	**83.84**	**88.35**
18-Jul-18 23:00:00	19-Jul-18 00:00:00		766.46	0.00	0.00	5.26	2.1	329.7		252.70	0.00	0.00	1.74		10.35	18.92	83.84	86.68	18-Jul-18 23:00:00		**263.05**	**18.92**	**83.84**	**88.42**
19-Jul-18 00:00:00	19-Jul-18 01:00:00		1,208.54	0.00	0.00	5.47	2.1	329.7		398.45	0.00	0.00	1.80		10.35	18.92	83.84	86.68	19-Jul-18 00:00:00		**408.80**	**18.92**	**83.84**	**88.48**
19-Jul-18 01:00:00	19-Jul-18 02:00:00		1,238.80	0.00	0.00	5.63	2.1	329.7		408.43	0.00	0.00	1.85		10.35	18.92	83.84	86.68	19-Jul-18 01:00:00		**418.78**	**18.92**	**83.84**	**88.53**
19-Jul-18 02:00:00	19-Jul-18 03:00:00		1,233.96	0.00	0.00	5.67	2.1	329.7		406.84	0.00	0.00	1.87		10.35	18.92	83.84	86.68	19-Jul-18 02:00:00		**417.19**	**18.92**	**83.84**	**88.55**
19-Jul-18 03:00:00	19-Jul-18 04:00:00		1,236.86	0.00	0.00	5.71	2.1	329.7		407.79	0.00	0.00	1.88		10.35	18.92	83.84	86.68	19-Jul-18 03:00:00		**418.14**	**18.92**	**83.84**	**88.56**
19-Jul-18 04:00:00	19-Jul-18 05:00:00		1,239.57	0.00	0.00	5.74	2.1	329.7		408.69	0.00	0.00	1.89		10.35	18.92	83.84	86.68	19-Jul-18 04:00:00		**419.04**	**18.92**	**83.84**	**88.57**
19-Jul-18 05:00:00	19-Jul-18 06:00:00		1,238.19	0.00	0.00	5.71	2.1	329.7		408.23	0.00	0.00	1.88		10.35	18.92	83.84	86.68	19-Jul-18 05:00:00		**418.58**	**18.92**	**83.84**	**88.56**
19-Jul-18 06:00:00	19-Jul-18 07:00:00		1,242.56	0.00	0.00	5.72	2.1	329.7		409.57	0.00	0.00	1.89		10.35	18.92	83.84	86.68	19-Jul-18 06:00:00		**419.92**	**18.92**	**83.84**	**88.57**
19-Jul-18 07:00:00	19-Jul-18 08:00:00		1,207.50	0.00	0.00	5.76	2.1	329.7		398.11	0.00	0.00	1.90		10.35	18.92	83.84	86.68	19-Jul-18 07:00:00		**408.46**	**18.92**	**83.84**	**88.58**
19-Jul-18 08:00:00	19-Jul-18 09:00:00		766.22	0.00	0.00	5.80	2.1	329.7		252.62	0.00	0.00	1.91		10.35	18.92	83.84	86.68	19-Jul-18 08:00:00		**262.97**	**18.92**	**83.84**	**88.59**
19-Jul-18 09:00:00	19-Jul-18 10:00:00		450.65	0.00	0.00	5.73	2.1	329.7		148.58	0.00	0.00	1.89		10.35	18.92	83.84	86.68	19-Jul-18 09:00:00		**158.93**	**18.92**	**83.84**	**88.57**
19-Jul-18 10:00:00	19-Jul-18 11:00:00		420.90	0.00	0.00	5.55	2.1	329.7		138.77	0.00	0.00	1.83		10.35	18.92	83.84	86.68	19-Jul-18 10:00:00		**149.12**	**18.92**	**83.84**	**88.51**
19-Jul-18 11:00:00	19-Jul-18 12:00:00		61.55	0.00	0.00	5.37	2.1	329.7		20.29	0.00	0.00	1.77		10.35	18.92	83.84	86.68	19-Jul-18 11:00:00		**30.64**	**18.92**	**83.84**	**88.45**
19-Jul-18 12:00:00	19-Jul-18 13:00:00		276.26	0.00	0.00	5.20	2.1	329.7		91.08	0.00	0.00	1.71		10.35	18.92	83.84	86.68	19-Jul-18 12:00:00		**101.43**	**18.92**	**83.84**	**88.39**
19-Jul-18 13:00:00	19-Jul-18 14:00:00		313.89	0.00	0.00	4.94	2.1	329.7		103.49	0.00	0.00	1.63		10.35	18.92	83.84	86.68	19-Jul-18 13:00:00		**113.84**	**18.92**	**83.84**	**88.31**
19-Jul-18 14:00:00	19-Jul-18 15:00:00		0.00	0.00	0.00	4.84	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	19-Jul-18 14:00:00		**10.35**	**18.92**	**83.84**	**88.27**
19-Jul-18 15:00:00	19-Jul-18 16:00:00		0.00	0.00	0.00	4.79	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	19-Jul-18 15:00:00		**10.35**	**18.92**	**83.84**	**88.26**
19-Jul-18 16:00:00	19-Jul-18 17:00:00		0.00	0.00	0.00	4.74	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	19-Jul-18 16:00:00		**10.35**	**18.92**	**83.84**	**88.24**
19-Jul-18 17:00:00	19-Jul-18 18:00:00		0.00	0.00	0.00	4.69	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	19-Jul-18 17:00:00		**10.35**	**18.92**	**83.84**	**88.23**
19-Jul-18 18:00:00	19-Jul-18 19:00:00		0.00	0.00	0.00	4.77	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	19-Jul-18 18:00:00		**10.35**	**18.92**	**83.84**	**88.25**
19-Jul-18 19:00:00	19-Jul-18 20:00:00		0.00	0.00	0.00	4.88	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	19-Jul-18 19:00:00		**10.35**	**18.92**	**83.84**	**88.29**
19-Jul-18 20:00:00	19-Jul-18 21:00:00		0.00	0.00	0.00	4.98	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	19-Jul-18 20:00:00		**10.35**	**18.92**	**83.84**	**88.32**
19-Jul-18 21:00:00	19-Jul-18 22:00:00		0.00	0.00	0.00	5.11	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	19-Jul-18 21:00:00		**10.35**	**18.92**	**83.84**	**88.37**
19-Jul-18 22:00:00	19-Jul-18 23:00:00		0.00	0.00	0.00	5.15	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	19-Jul-18 22:00:00		**10.35**	**18.92**	**83.84**	**88.38**
19-Jul-18 23:00:00	20-Jul-18 00:00:00		0.00	0.00	0.00	5.17	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	19-Jul-18 23:00:00		**10.35**	**18.92**	**83.84**	**88.39**
20-Jul-18 00:00:00	20-Jul-18 01:00:00		0.00	0.00	0.00	5.19	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	20-Jul-18 00:00:00		**10.35**	**18.92**	**83.84**	**88.39**
20-Jul-18 01:00:00	20-Jul-18 02:00:00		0.00	0.00	0.00	5.26	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	20-Jul-18 01:00:00		**10.35**	**18.92**	**83.84**	**88.41**
20-Jul-18 02:00:00	20-Jul-18 03:00:00		0.00	0.00	0.00	5.46	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	20-Jul-18 02:00:00		**10.35**	**18.92**	**83.84**	**88.48**
20-Jul-18 03:00:00	20-Jul-18 04:00:00		0.00	0.00	0.00	5.67	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	20-Jul-18 03:00:00		**10.35**	**18.92**	**83.84**	**88.55**
20-Jul-18 04:00:00	20-Jul-18 05:00:00		0.00	0.00	0.00	5.89	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	20-Jul-18 04:00:00		**10.35**	**18.92**	**83.84**	**88.62**
20-Jul-18 05:00:00	20-Jul-18 06:00:00		0.00	0.00	0.00	6.03	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	20-Jul-18 05:00:00		**10.35**	**18.92**	**83.84**	**88.67**
20-Jul-18 06:00:00	20-Jul-18 07:00:00		0.00	0.00	0.00	5.96	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	20-Jul-18 06:00:00		**10.35**	**18.92**	**83.84**	**88.65**
20-Jul-18 07:00:00	20-Jul-18 08:00:00		0.00	0.00	0.00	5.89	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	20-Jul-18 07:00:00		**10.35**	**18.92**	**83.84**	**88.62**
20-Jul-18 08:00:00	20-Jul-18 09:00:00		0.00	0.00	0.00	5.81	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	20-Jul-18 08:00:00		**10.35**	**18.92**	**83.84**	**88.60**
20-Jul-18 09:00:00	20-Jul-18 10:00:00		0.00	0.00	0.00	5.71	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	20-Jul-18 09:00:00		**10.35**	**18.92**	**83.84**	**88.56**
20-Jul-18 10:00:00	20-Jul-18 11:00:00		0.00	0.00	0.00	5.47	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	20-Jul-18 10:00:00		**10.35**	**18.92**	**83.84**	**88.48**
20-Jul-18 11:00:00	20-Jul-18 12:00:00		0.00	0.00	0.00	5.21	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	20-Jul-18 11:00:00		**10.35**	**18.92**	**83.84**	**88.40**
20-Jul-18 12:00:00	20-Jul-18 13:00:00		0.00	0.00	0.00	4.95	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	20-Jul-18 12:00:00		**10.35**	**18.92**	**83.84**	**88.31**
20-Jul-18 13:00:00	20-Jul-18 14:00:

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
22-Jul-18 15:00:00	22-Jul-18 16:00:00		0.00	0.00	0.00	4.67	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	22-Jul-18 15:00:00		10.35	18.92	83.84	88.22
22-Jul-18 16:00:00	22-Jul-18 17:00:00		0.00	0.00	0.00	4.66	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	22-Jul-18 16:00:00		10.35	18.92	83.84	88.21
22-Jul-18 17:00:00	22-Jul-18 18:00:00		0.00	0.00	0.00	4.65	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	22-Jul-18 17:00:00		10.35	18.92	83.84	88.21
22-Jul-18 18:00:00	22-Jul-18 19:00:00		0.00	0.00	0.00	4.71	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	22-Jul-18 18:00:00		10.35	18.92	83.84	88.23
22-Jul-18 19:00:00	22-Jul-18 20:00:00		0.00	0.00	0.00	4.81	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	22-Jul-18 19:00:00		10.35	18.92	83.84	88.27
22-Jul-18 20:00:00	22-Jul-18 21:00:00		0.00	0.00	0.00	4.91	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	22-Jul-18 20:00:00		10.35	18.92	83.84	88.30
22-Jul-18 21:00:00	22-Jul-18 22:00:00		0.00	0.00	0.00	5.01	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	22-Jul-18 21:00:00		10.35	18.92	83.84	88.33
22-Jul-18 22:00:00	22-Jul-18 23:00:00		0.00	0.00	0.00	5.13	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	22-Jul-18 22:00:00		10.35	18.92	83.84	88.37
22-Jul-18 23:00:00	23-Jul-18 00:00:00		0.00	0.00	0.00	5.28	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	22-Jul-18 23:00:00		10.35	18.92	83.84	88.42
23-Jul-18 00:00:00	23-Jul-18 01:00:00		0.00	0.00	0.00	5.59	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	23-Jul-18 00:00:00		10.35	18.92	83.84	88.52
23-Jul-18 01:00:00	23-Jul-18 02:00:00		0.00	0.00	0.00	5.47	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	23-Jul-18 01:00:00		10.35	18.92	83.84	88.48
23-Jul-18 02:00:00	23-Jul-18 03:00:00		0.00	0.00	0.00	5.58	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	23-Jul-18 02:00:00		10.35	18.92	83.84	88.52
23-Jul-18 03:00:00	23-Jul-18 04:00:00		0.00	0.00	0.00	7.60	2.1	329.7		0.00	0.00	0.00	2.51		10.35	18.92	83.84	86.68	23-Jul-18 03:00:00		10.35	18.92	83.84	89.19
23-Jul-18 04:00:00	23-Jul-18 05:00:00		0.00	0.00	0.00	5.75	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	23-Jul-18 04:00:00		10.35	18.92	83.84	88.58
23-Jul-18 05:00:00	23-Jul-18 06:00:00		0.00	0.00	0.00	5.73	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	23-Jul-18 05:00:00		10.35	18.92	83.84	88.57
23-Jul-18 06:00:00	23-Jul-18 07:00:00		0.00	0.00	0.00	5.72	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	23-Jul-18 06:00:00		10.35	18.92	83.84	88.57
23-Jul-18 07:00:00	23-Jul-18 08:00:00		0.00	0.00	0.00	5.74	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	23-Jul-18 07:00:00		10.35	18.92	83.84	88.57
23-Jul-18 08:00:00	23-Jul-18 09:00:00		0.00	0.00	0.00	5.69	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	23-Jul-18 08:00:00		10.35	18.92	83.84	88.56
23-Jul-18 09:00:00	23-Jul-18 10:00:00		0.00	0.00	0.00	5.54	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	23-Jul-18 09:00:00		10.35	18.92	83.84	88.51
23-Jul-18 10:00:00	23-Jul-18 11:00:00		0.00	0.00	0.00	5.39	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	23-Jul-18 10:00:00		10.35	18.92	83.84	88.46
23-Jul-18 11:00:00	23-Jul-18 12:00:00		0.00	0.00	0.00	5.23	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	23-Jul-18 11:00:00		10.35	18.92	83.84	88.40
23-Jul-18 12:00:00	23-Jul-18 13:00:00		0.00	0.00	0.00	5.30	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	23-Jul-18 12:00:00		10.35	18.92	83.84	88.43
23-Jul-18 13:00:00	23-Jul-18 14:00:00		0.00	0.00	0.00	5.51	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	23-Jul-18 13:00:00		10.35	18.92	83.84	88.50
23-Jul-18 14:00:00	23-Jul-18 15:00:00		0.00	0.00	0.00	5.72	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	23-Jul-18 14:00:00		10.35	18.92	83.84	88.57
23-Jul-18 15:00:00	23-Jul-18 16:00:00		0.00	0.00	0.00	5.88	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	23-Jul-18 15:00:00		10.35	18.92	83.84	88.62
23-Jul-18 16:00:00	23-Jul-18 17:00:00		0.00	0.00	0.00	5.77	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	23-Jul-18 16:00:00		10.35	18.92	83.84	88.58
23-Jul-18 17:00:00	23-Jul-18 18:00:00		0.00	0.00	0.00	5.66	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	23-Jul-18 17:00:00		10.35	18.92	83.84	88.55
23-Jul-18 18:00:00	23-Jul-18 19:00:00		0.00	0.00	0.00	5.56	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	23-Jul-18 18:00:00		10.35	18.92	83.84	88.51
23-Jul-18 19:00:00	23-Jul-18 20:00:00		0.00	0.00	0.00	5.45	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	23-Jul-18 19:00:00		10.35	18.92	83.84	88.48
23-Jul-18 20:00:00	23-Jul-18 21:00:00		0.00	0.00	0.00	5.37	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	23-Jul-18 20:00:00		10.35	18.92	83.84	88.45
23-Jul-18 21:00:00	23-Jul-18 22:00:00		0.00	0.00	0.00	5.29	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	23-Jul-18 21:00:00		10.35	18.92	83.84	88.43
23-Jul-18 22:00:00	23-Jul-18 23:00:00		0.00	0.00	0.00	28.75	2.1	329.7		0.00	0.00	0.00	9.48		10.35	18.92	83.84	86.68	23-Jul-18 22:00:00		10.35	18.92	83.84	96.16
23-Jul-18 23:00:00	24-Jul-18 00:00:00		0.00	0.00	0.00	5.36	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	23-Jul-18 23:00:00		10.35	18.92	83.84	88.45
24-Jul-18 00:00:00	24-Jul-18 01:00:00		0.00	0.00	0.00	5.38	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	24-Jul-18 00:00:00		10.35	18.92	83.84	88.46
24-Jul-18 01:00:00	24-Jul-18 02:00:00		0.00	0.00	0.00	5.41	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	24-Jul-18 01:00:00		10.35	18.92	83.84	88.46
24-Jul-18 02:00:00	24-Jul-18 03:00:00		0.00	0.00	0.00	5.42	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	24-Jul-18 02:00:00		10.35	18.92	83.84	88.47
24-Jul-18 03:00:00	24-Jul-18 04:00:00		0.00	0.00	0.00	5.40	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	24-Jul-18 03:00:00		10.35	18.92	83.84	88.46
24-Jul-18 04:00:00	24-Jul-18 05:00:00		0.00	0.00	0.00	5.38	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	24-Jul-18 04:00:00		10.35	18.92	83.84	88.45
24-Jul-18 05:00:00	24-Jul-18 06:00:00		0.00	0.00	0.00	5.37	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	24-Jul-18 05:00:00		10.35	18.92	83.84	88.45
24-Jul-18 06:00:00	24-Jul-18 07:00:00		0.00	0.00	0.00	5.28	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	24-Jul-18 06:00:00		10.35	18.92	83.84	88.42
24-Jul-18 07:00:00	24-Jul-18 08:00:00		0.00	0.00	0.00	5.19	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	24-Jul-18 07:00:00		10.35	18.92	83.84	88.39
24-Jul-18 08:00:00	24-Jul-18 09:00:00		0.00	0.00	0.00	5.18	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	24-Jul-18 08:00:00		10.35	18.92	83.84	88.39
24-Jul-18 09:00:00	24-Jul-18 10:00:00		0.00	0.00	0.00	5.16	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	24-Jul-18 09:00:00		10.35	18.92	83.84	88.38
24-Jul-18 10:00:00	24-Jul-18 11:00:00		0.00	0.00	0.00	5.16	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	24-Jul-18 10:00:00		10.35	18.92	83.84	88.38
24-Jul-18 11:00:00	24-Jul-18 12:00:00		0.00	0.00	0.00	5.05	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	24-Jul-18 11:00:00		10.35	18.92	83.84	88.35
24-Jul-18 12:00:00	24-Jul-18 13:00:00		0.00	0.00	0.00	4.89	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	24-Jul-18 12:00:00		10.35	18.92	83.84	88.29
24-Jul-18 13:00:00	24-Jul-18 14:00:00		0.00	0.00	0.00	4.73	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	24-Jul-18 13:00:00		10.35	18.92	83.84	88.24
24-Jul-18 14:00:00	24-Jul-18 15:00:00		0.00	0.00	0.00	4.61	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	24-Jul-18 14:00:00		10.35	18.92	83.84	88.20
24-Jul-18 15:00:00	24-Jul-18 16:00:00		0.00	0.00	0.00	4.61	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	24-Jul-18 15:00:00		10.35	18.92	83.84	88.20
24-Jul-18 16:00:00	24-Jul-18 17:00:00		0.00	0.00	0.00	4.59	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	24-Jul-18 16:00:00		10.35	18.92	83.84	88.19
24-Jul-18 17:00:00	24-Jul-18 18:00:00		0.00	0.00	0.00	4.57	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	24-Jul-18 17:00:00		10.35	18.92	83.84	88.19
24-Jul-18 18:00:00	24-Jul-18 19:00:00		0.00	0.00	0.00	4.61	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	24-Jul-18 18:00:00		10.35	18.92	83.84	88.20
24-Jul-18 19:00:00	24-Jul-18 20:00:00		0.00	0.00	0.00	4.74	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	24-Jul-18 19:00:00		10.35	18.92	83.84	88.24
24-Jul-18 20:00:00	24-Jul-18 21:00:00		0.00	0.00	0.00	4.85	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	24-Jul-18 20:00:00		10.35	18.92	83.84	88.28
24-Jul-18 21:00:00	24-Jul-18 22:00:00		0.00	0.00	0.00	4.95	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	24-Jul-18 21:00:00		10.35	18.92	83.84	88.31
24-Jul-18 22:00:00	24-Jul-18 23:00:00		0.00	0.00	0.00	4.99	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	24-Jul-18 22:00:00		10.35	18.92	83.84	88.33
24-Jul-18 23:00:00	25-Jul-18 00:00:00		0.00	0.00	0.00	5.00	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	24-Jul-18 23:00:00		10.35	18.92	83.84	88.33
25-Jul-18 00:00:00	25-Jul-18 01:00:00		0.00	0.00	0.00	5.06	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	25-Jul-18 00:00:00		10.35	18.92	83.84	88.35
25-Jul-18 01:00:00	25-Jul-18 02:00:00		0.00	0.00	0.00	5.13	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	25-Jul-18 01:00:00		10.35	18.92	83.84	88.37
25-Jul-18 02:00:00	25-Jul-18 03:00:00		0.00	0.00	0.00	5.21	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	25-Jul-18 02:00:00		10.35	18.92	83.84	88.40
25-Jul-18 03:00:00	25-Jul-18 04:00:00		0.00	0.00	0.00	5.34	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	25-Jul-18 03:00:00		10.35	18.92	83.84	88.44
25-Jul-18 04:00:00	25-Jul-18 05:00:00		0.00	0.00	0.00	5.48	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	25-Jul-18 04:00:00		10.35	18.92	83.84	88.49
25-Jul-18 05:00:00	25-Jul-18 06:00:00		0.00	0.00	0.00	5.62	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	25-Jul-18 05:00:00		10.35	18.92	83.84	88.53
25-Jul-18 06:00:00	25-Jul-18 07:00:00		0.00	0.00	0.00	5.73	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	25-Jul-18 06:00:00		10.35	18.92	83.84	88.57
25-Jul-18 07:00:00	25-Jul-18 08:00:00		0.00	0.00	0.00	5.62	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	25-Jul-18 07:00:00		10.35	18.92	83.84	88.53
25-Jul-18 08:00:00	25-Jul-18 09:00:00		0.00	0.00	0.00	5.47	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	25-Jul-18 08:00:00		10.35	18.92	83.84	88.48
25-Jul-18 09:00:00	25-Jul-18 10:00:00		0.00	0.00	0.00	42.58	2.1	329.7		0.00	0.00	0.00	14.04		10.35	18.92	83.84	86.68	25-Jul-18 09:00:00		10.35	18.92	83.84	100.72
25-Jul-18 10:00:00	25-Jul-18 11:00:00		0.00	0.00	0.00	4.95	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	25-Jul-18 10:00:00		10.35	18.92	83.84	88.31
25-Jul-18 11:00:00	25-Jul-18 12:00:00		0.00	0.00	0.00	4.74	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	25-Jul-18 11:00:00		10.35	18.92	83.84	88.24
25-Jul-18 12:00:00	25-Jul-18 13:00:00		0.00	0.00	0.00	4.52	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	25-Jul-18 12:00:00		10.35	18.92	83.84	88.17
25-Jul-18 13:00:00	25-Jul-18 14:00:00		0.00	0.00	0.00	4.39	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	25-Jul-18 13:00:00		10.35	18.92	83.84	88.13
25-Jul-18 14:00:00	25-Jul-18 15:00:00		0.00	0.00	0.00	4.44	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	25-Jul-18 14:00:00		10.35	18.92	83.84	88.14
25-Jul-18 15:00:00	25-Jul-18 16:00:00		0.00	0.00	0.00	78.65	2.1	329.7		0.00	0.00	0.00	25.93		10.35	18.92	83.84	86.68	25-Jul-18 15:00:00		10.35	18.92	83.84	112.61
25-Jul-18 16:00:00	25-Jul-18 17:00:00		0.00	0.00	0.00	4.54	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	25-Jul-18 16:00:00		10.35	18.92	83.84	88.18
25-Jul-18 17:00:00	25-Jul-18 18:00:00		0.00	0.00	0.00	4.64	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	25-Jul-18 17:00:00		10.35	18.92	83.84	88.21
25-Jul-18 18:00:00	25-Jul-18 19:00:00		0.00	0.00	0.00	4.73	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	25-Jul-18 18:00:00		10.35	18.92	83.84	88.24
25-Jul-18 19:00:00	25-Jul-18 20:00:00		0.00	0.00	0.00	114.80	2.1	329.7		0.00	0.00	0.00	37.85		10.35	18.92	83.84	86.68	25-Jul-18 19:00:00		10.35	18.92	83.84	124.53
25-Jul-18 20:00:00	25-Jul-18 21:00:00		0.00	0.00	0.00	5.20	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	25-Jul-18 20:00:00		10.35	18.92	83.84	88.39
25-Jul-18 21:00:00	25-Jul-18 22:00:00		34.51	0.00	0.00	5.37	2.1	329.7		11.38	0.00	0.00	1.77		10.35	18.92	83.84	86.68	25-Jul-18 21:00:00		21.73	18.92	83.84	88.45
25-Jul-18 22:00:00	25-Jul-18 23:00:00		48.47	0.00	0.00	5.54	2.1	329.7		15.98	0.00	0.00	1.83		10.35	18.92	83.84	86.68	25-Jul-18 22:00:00		26.33	18.92	83.84	88.51
25-Jul-18 23:00:00	26-Jul-18 00:00:00		60.22	0.00	0.00	5.69	2.1	329.7		19.86	0.00	0.00	1.87		10.35	18.92	83.84	86.68	25-Jul-18 23:00:00		30.21	18.92	83.84	88.55
26-Jul-18 00:00:00	26-Jul-18 01:00:00		84.05	0.00	0.00	5.58	2.1	329.7		27.71	0.00	0.00	1.84		10.35	18.92	83.84	86.68	26-Jul-18 00:00:00		38.06	18.92	83.84	88.52
26-Jul-18 01:00:00	26-Jul-18 02:00:00		76.10	0.00	0.00	5.48	2.1	329.7		25.09	0.00	0.00	1.81		10.35	18.92	83.84	86.68	26-Jul-18 01:00:00		35.44	18.92	83.84	88.49
26-Jul-18 02:00:00	26-Jul-18 03:00:00		33.69	0.00	0.00	5.37	2.1	329.7		11.11	0.00	0.00	1.77		10.35	18.92	83.84	86.68	26-Jul-18 02:00:00		21.46	18.92	83.84	88.45
26-Jul-18 03:00:00	26-Jul-18 04:00:00		48.57	0.00	0.00	5.27	2.1	329.7		16.01	0.00	0.00	1.74		10.35	18.92	83.84	86.68	26-Jul-18 03:00:00		26.36	18.92	83.84	88.42
26-Jul-18 04:00:00	26-Jul-18 05:00:00		86.60	0.00	0.00	5.21	2.1	329.7		28.55	0.00	0.00	1.72		10.35	18.92	83.84	86.68	26-Jul-18 04:00:00		38.90	18.92	83.84	88.40
26-Jul-18 05:00:00	26-Jul-18 06:00:00		73.03	0.00	0.00	5.21	2.1	329.7		24.08	0.00	0.00	1.72		10.35	18.92	83.84	86.68	26-Jul-18 05:00:00		34.43	18.92	83.84	88.40
26-Jul-18 06:00:00	26-Jul-18 07:00:00		68.27	0.00	0.00	5.22	2.1	329.7		22.51	0.00	0.00	1.72		10.35	18.92	83.84	86.68	26-Jul-18 06:00:00		32.86	18.92	83.84	88.40
26-Jul-18 07:00:00	26-Jul-18 08:00:00		65.32	0.00	0.00	5.25	2.1	329.7		21.54	0.00	0.00	1.73		10.35	18.92	83.84	86.68	26-Jul-18 07:00:00		31.89	18.92	83.84	88.41
26-Jul-18 08:00:00	26-Jul-18 09:00:00		64.54	0.00	0.00	5.21	2.1	329.7		21.28	0.00	0.00	1.72		10.35	18.92	83.84	86.68	26-Jul-18 08:00:00		31.63	18.92	83.84	88.40
26-Jul-18 09:00:00	26-Jul-18 10:00:00		65.08	0.00	0.00	4.99	2.1	329.7		21.46	0.00	0.00	1.65		10.35	18.92	83.84	86.68	26-Jul-18 09:00:00		31.81	18.92	83.84	88.33
26-Jul-18 10:00:00	26-Jul-18 11:00:00		53.48	0.00	0.00	4.77	2.1	329.7		17.63	0.00	0.00	1.57		10.35	18.92	83.84	86.68	26-Jul-18 10:00:00		27.98	18.92	83.84	88.25
26-Jul-18 11:00:00	26-Jul-18 12:00:00		49.36	0.00	0.00	4.57	2.1	329.7		16.28	0.00	0.00	1.51		10.35	18.92	83.84	86.68	26-Jul-18 11:00:00		26.63	18.92	83.84	88.19
26-Jul-18 12:00:00	26-Jul-18 13:00:00		21.39	0.00	0.00	4.50

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
28-Jul-18 14:00:00	28-Jul-18 15:00:00		45.37	0.00	0.00	4.01	2.1	329.7		14.96	0.00	0.00	1.32		10.35	18.92	83.84	86.68	28-Jul-18 14:00:00		25.31	18.92	83.84	88.00
28-Jul-18 15:00:00	28-Jul-18 16:00:00		43.88	0.00	0.00	3.97	2.1	329.7		14.47	0.00	0.00	1.31		10.35	18.92	83.84	86.68	28-Jul-18 15:00:00		24.82	18.92	83.84	87.99
28-Jul-18 16:00:00	28-Jul-18 17:00:00		42.12	0.00	0.00	3.92	2.1	329.7		13.89	0.00	0.00	1.29		10.35	18.92	83.84	86.68	28-Jul-18 16:00:00		24.24	18.92	83.84	87.97
28-Jul-18 17:00:00	28-Jul-18 18:00:00		33.12	0.00	0.00	3.86	2.1	329.7		10.92	0.00	0.00	1.27		10.35	18.92	83.84	86.68	28-Jul-18 17:00:00		21.27	18.92	83.84	87.95
28-Jul-18 18:00:00	28-Jul-18 19:00:00		32.04	0.00	0.00	3.95	2.1	329.7		10.56	0.00	0.00	1.30		10.35	18.92	83.84	86.68	28-Jul-18 18:00:00		20.91	18.92	83.84	87.98
28-Jul-18 19:00:00	28-Jul-18 20:00:00		30.74	0.00	0.00	4.04	2.1	329.7		10.13	0.00	0.00	1.33		10.35	18.92	83.84	86.68	28-Jul-18 19:00:00		20.48	18.92	83.84	88.01
28-Jul-18 20:00:00	28-Jul-18 21:00:00		28.08	0.00	0.00	4.13	2.1	329.7		9.26	0.00	0.00	1.36		10.35	18.92	83.84	86.68	28-Jul-18 20:00:00		19.61	18.92	83.84	88.04
28-Jul-18 21:00:00	28-Jul-18 22:00:00		22.86	0.00	0.00	4.28	2.1	329.7		7.54	0.00	0.00	1.41		10.35	18.92	83.84	86.68	28-Jul-18 21:00:00		17.89	18.92	83.84	88.09
28-Jul-18 22:00:00	28-Jul-18 23:00:00		27.04	0.00	0.00	4.64	2.1	329.7		8.91	0.00	0.00	1.53		10.35	18.92	83.84	86.68	28-Jul-18 22:00:00		19.26	18.92	83.84	88.21
28-Jul-18 23:00:00	29-Jul-18 00:00:00		40.80	0.00	0.00	5.00	2.1	329.7		13.45	0.00	0.00	1.65		10.35	18.92	83.84	86.68	28-Jul-18 23:00:00		23.80	18.92	83.84	88.33
29-Jul-18 00:00:00	29-Jul-18 01:00:00		27.39	0.00	0.00	5.36	2.1	329.7		9.03	0.00	0.00	1.77		10.35	18.92	83.84	86.68	29-Jul-18 00:00:00		19.38	18.92	83.84	88.45
29-Jul-18 01:00:00	29-Jul-18 02:00:00		61.06	0.00	0.00	5.48	2.1	329.7		20.13	0.00	0.00	1.81		10.35	18.92	83.84	86.68	29-Jul-18 01:00:00		30.48	18.92	83.84	88.49
29-Jul-18 02:00:00	29-Jul-18 03:00:00		79.11	0.00	0.00	5.46	2.1	329.7		26.08	0.00	0.00	1.80		10.35	18.92	83.84	86.68	29-Jul-18 02:00:00		36.43	18.92	83.84	88.48
29-Jul-18 03:00:00	29-Jul-18 04:00:00		43.27	0.00	0.00	5.44	2.1	329.7		14.27	0.00	0.00	1.79		10.35	18.92	83.84	86.68	29-Jul-18 03:00:00		24.62	18.92	83.84	88.47
29-Jul-18 04:00:00	29-Jul-18 05:00:00		89.27	0.00	0.00	5.41	2.1	329.7		29.43	0.00	0.00	1.79		10.35	18.92	83.84	86.68	29-Jul-18 04:00:00		39.78	18.92	83.84	88.47
29-Jul-18 05:00:00	29-Jul-18 06:00:00		103.48	0.00	0.00	5.43	2.1	329.7		34.12	0.00	0.00	1.79		10.35	18.92	83.84	86.68	29-Jul-18 05:00:00		44.47	18.92	83.84	88.47
29-Jul-18 06:00:00	29-Jul-18 07:00:00		92.71	0.00	0.00	5.48	2.1	329.7		30.57	0.00	0.00	1.81		10.35	18.92	83.84	86.68	29-Jul-18 06:00:00		40.92	18.92	83.84	88.49
29-Jul-18 07:00:00	29-Jul-18 08:00:00		66.41	0.00	0.00	5.53	2.1	329.7		21.89	0.00	0.00	1.82		10.35	18.92	83.84	86.68	29-Jul-18 07:00:00		32.24	18.92	83.84	88.50
29-Jul-18 08:00:00	29-Jul-18 09:00:00		61.66	0.00	0.00	5.58	2.1	329.7		20.33	0.00	0.00	1.84		10.35	18.92	83.84	86.68	29-Jul-18 08:00:00		30.68	18.92	83.84	88.52
29-Jul-18 09:00:00	29-Jul-18 10:00:00		60.18	0.00	0.00	5.34	2.1	329.7		19.84	0.00	0.00	1.76		10.35	18.92	83.84	86.68	29-Jul-18 09:00:00		30.19	18.92	83.84	88.44
29-Jul-18 10:00:00	29-Jul-18 11:00:00		54.66	0.00	0.00	5.18	2.1	329.7		18.02	0.00	0.00	1.71		10.35	18.92	83.84	86.68	29-Jul-18 10:00:00		28.37	18.92	83.84	88.39
29-Jul-18 11:00:00	29-Jul-18 12:00:00		49.57	0.00	0.00	5.03	2.1	329.7		16.34	0.00	0.00	1.66		10.35	18.92	83.84	86.68	29-Jul-18 11:00:00		26.69	18.92	83.84	88.34
29-Jul-18 12:00:00	29-Jul-18 13:00:00		47.16	0.00	0.00	4.87	2.1	329.7		15.55	0.00	0.00	1.61		10.35	18.92	83.84	86.68	29-Jul-18 12:00:00		25.90	18.92	83.84	88.29
29-Jul-18 13:00:00	29-Jul-18 14:00:00		42.91	0.00	0.00	4.68	2.1	329.7		14.15	0.00	0.00	1.54		10.35	18.92	83.84	86.68	29-Jul-18 13:00:00		24.50	18.92	83.84	88.22
29-Jul-18 14:00:00	29-Jul-18 15:00:00		22.12	0.00	0.00	4.65	2.1	329.7		7.29	0.00	0.00	1.53		10.35	18.92	83.84	86.68	29-Jul-18 14:00:00		17.64	18.92	83.84	88.21
29-Jul-18 15:00:00	29-Jul-18 16:00:00		20.61	0.00	0.00	4.63	2.1	329.7		6.80	0.00	0.00	1.53		10.35	18.92	83.84	86.68	29-Jul-18 15:00:00		17.15	18.92	83.84	88.21
29-Jul-18 16:00:00	29-Jul-18 17:00:00		25.93	0.00	0.00	4.61	2.1	329.7		8.55	0.00	0.00	1.52		10.35	18.92	83.84	86.68	29-Jul-18 16:00:00		18.90	18.92	83.84	88.20
29-Jul-18 17:00:00	29-Jul-18 18:00:00		29.08	0.00	0.00	4.75	2.1	329.7		9.59	0.00	0.00	1.57		10.35	18.92	83.84	86.68	29-Jul-18 17:00:00		19.94	18.92	83.84	88.25
29-Jul-18 18:00:00	29-Jul-18 19:00:00		34.61	0.00	0.00	5.01	2.1	329.7		11.41	0.00	0.00	1.65		10.35	18.92	83.84	86.68	29-Jul-18 18:00:00		21.76	18.92	83.84	88.33
29-Jul-18 19:00:00	29-Jul-18 20:00:00		14.14	0.00	0.00	5.27	2.1	329.7		4.66	0.00	0.00	1.74		10.35	18.92	83.84	86.68	29-Jul-18 19:00:00		15.01	18.92	83.84	88.42
29-Jul-18 20:00:00	29-Jul-18 21:00:00		42.86	0.00	0.00	5.53	2.1	329.7		14.13	0.00	0.00	1.82		10.35	18.92	83.84	86.68	29-Jul-18 20:00:00		24.48	18.92	83.84	88.50
29-Jul-18 21:00:00	29-Jul-18 22:00:00		57.59	0.00	0.00	5.75	2.1	329.7		18.99	0.00	0.00	1.90		10.35	18.92	83.84	86.68	29-Jul-18 21:00:00		29.34	18.92	83.84	88.58
29-Jul-18 22:00:00	29-Jul-18 23:00:00		59.00	0.00	0.00	5.77	2.1	329.7		19.45	0.00	0.00	1.90		10.35	18.92	83.84	86.68	29-Jul-18 22:00:00		29.80	18.92	83.84	88.58
29-Jul-18 23:00:00	30-Jul-18 00:00:00		68.14	0.00	0.00	5.78	2.1	329.7		22.47	0.00	0.00	1.91		10.35	18.92	83.84	86.68	29-Jul-18 23:00:00		32.82	18.92	83.84	88.59
30-Jul-18 00:00:00	30-Jul-18 01:00:00		68.96	0.00	0.00	5.79	2.1	329.7		22.74	0.00	0.00	1.91		10.35	18.92	83.84	86.68	30-Jul-18 00:00:00		33.09	18.92	83.84	88.59
30-Jul-18 01:00:00	30-Jul-18 02:00:00		67.95	0.00	0.00	5.63	2.1	329.7		22.40	0.00	0.00	1.86		10.35	18.92	83.84	86.68	30-Jul-18 01:00:00		32.75	18.92	83.84	88.54
30-Jul-18 02:00:00	30-Jul-18 03:00:00		66.23	0.00	0.00	5.63	2.1	329.7		21.84	0.00	0.00	1.86		10.35	18.92	83.84	86.68	30-Jul-18 02:00:00		32.19	18.92	83.84	88.54
30-Jul-18 03:00:00	30-Jul-18 04:00:00		67.79	0.00	0.00	5.64	2.1	329.7		22.35	0.00	0.00	1.86		10.35	18.92	83.84	86.68	30-Jul-18 03:00:00		32.70	18.92	83.84	88.54
30-Jul-18 04:00:00	30-Jul-18 05:00:00		69.43	0.00	0.00	5.65	2.1	329.7		22.89	0.00	0.00	1.86		10.35	18.92	83.84	86.68	30-Jul-18 04:00:00		33.24	18.92	83.84	88.54
30-Jul-18 05:00:00	30-Jul-18 06:00:00		46.56	0.00	0.00	5.49	2.1	329.7		15.35	0.00	0.00	1.81		10.35	18.92	83.84	86.68	30-Jul-18 05:00:00		25.70	18.92	83.84	88.49
30-Jul-18 06:00:00	30-Jul-18 07:00:00		61.59	0.00	0.00	5.42	2.1	329.7		20.31	0.00	0.00	1.79		10.35	18.92	83.84	86.68	30-Jul-18 06:00:00		30.66	18.92	83.84	88.47
30-Jul-18 07:00:00	30-Jul-18 08:00:00		53.10	0.00	0.00	5.35	2.1	329.7		17.51	0.00	0.00	1.76		10.35	18.92	83.84	86.68	30-Jul-18 07:00:00		27.86	18.92	83.84	88.44
30-Jul-18 08:00:00	30-Jul-18 09:00:00		40.04	0.00	0.00	5.29	2.1	329.7		13.20	0.00	0.00	1.74		10.35	18.92	83.84	86.68	30-Jul-18 08:00:00		23.55	18.92	83.84	88.42
30-Jul-18 09:00:00	30-Jul-18 10:00:00		35.40	0.00	0.00	5.15	2.1	329.7		11.67	0.00	0.00	1.70		10.35	18.92	83.84	86.68	30-Jul-18 09:00:00		22.02	18.92	83.84	88.38
30-Jul-18 10:00:00	30-Jul-18 11:00:00		35.83	0.00	0.00	5.00	2.1	329.7		11.81	0.00	0.00	1.65		10.35	18.92	83.84	86.68	30-Jul-18 10:00:00		22.16	18.92	83.84	88.33
30-Jul-18 11:00:00	30-Jul-18 12:00:00		31.37	0.00	0.00	4.85	2.1	329.7		10.34	0.00	0.00	1.60		10.35	18.92	83.84	86.68	30-Jul-18 11:00:00		20.69	18.92	83.84	88.28
30-Jul-18 12:00:00	30-Jul-18 13:00:00		35.10	0.00	0.00	4.70	2.1	329.7		11.57	0.00	0.00	1.55		10.35	18.92	83.84	86.68	30-Jul-18 12:00:00		21.92	18.92	83.84	88.23
30-Jul-18 13:00:00	30-Jul-18 14:00:00		70.39	0.00	0.00	4.53	2.1	329.7		23.21	0.00	0.00	1.49		10.35	18.92	83.84	86.68	30-Jul-18 13:00:00		33.56	18.92	83.84	88.17
30-Jul-18 14:00:00	30-Jul-18 15:00:00		22.29	0.00	0.00	4.47	2.1	329.7		7.35	0.00	0.00	1.47		10.35	18.92	83.84	86.68	30-Jul-18 14:00:00		17.70	18.92	83.84	88.15
30-Jul-18 15:00:00	30-Jul-18 16:00:00		36.68	0.00	0.00	4.42	2.1	329.7		12.09	0.00	0.00	1.46		10.35	18.92	83.84	86.68	30-Jul-18 15:00:00		22.44	18.92	83.84	88.14
30-Jul-18 16:00:00	30-Jul-18 17:00:00		33.03	0.00	0.00	4.36	2.1	329.7		10.89	0.00	0.00	1.44		10.35	18.92	83.84	86.68	30-Jul-18 16:00:00		21.24	18.92	83.84	88.12
30-Jul-18 17:00:00	30-Jul-18 18:00:00		32.70	0.00	0.00	4.42	2.1	329.7		10.78	0.00	0.00	1.46		10.35	18.92	83.84	86.68	30-Jul-18 17:00:00		21.13	18.92	83.84	88.14
30-Jul-18 18:00:00	30-Jul-18 19:00:00		29.30	0.00	0.00	4.64	2.1	329.7		9.66	0.00	0.00	1.53		10.35	18.92	83.84	86.68	30-Jul-18 18:00:00		20.01	18.92	83.84	88.21
30-Jul-18 19:00:00	30-Jul-18 20:00:00		28.78	0.00	0.00	5.18	2.1	329.7		9.49	0.00	0.00	1.71		10.35	18.92	83.84	86.68	30-Jul-18 19:00:00		19.84	18.92	83.84	88.39
30-Jul-18 20:00:00	30-Jul-18 21:00:00		24.83	0.00	0.00	5.15	2.1	329.7		8.19	0.00	0.00	1.70		10.35	18.92	83.84	86.68	30-Jul-18 20:00:00		18.54	18.92	83.84	88.38
30-Jul-18 21:00:00	30-Jul-18 22:00:00		24.64	0.00	0.00	5.25	2.1	329.7		8.12	0.00	0.00	1.73		10.35	18.92	83.84	86.68	30-Jul-18 21:00:00		18.47	18.92	83.84	88.41
30-Jul-18 22:00:00	30-Jul-18 23:00:00		71.16	0.00	0.00	5.35	2.1	329.7		23.46	0.00	0.00	1.76		10.35	18.92	83.84	86.68	30-Jul-18 22:00:00		33.81	18.92	83.84	88.44
30-Jul-18 23:00:00	31-Jul-18 00:00:00		63.56	0.00	0.00	5.44	2.1	329.7		20.96	0.00	0.00	1.79		10.35	18.92	83.84	86.68	30-Jul-18 23:00:00		31.31	18.92	83.84	88.47
31-Jul-18 00:00:00	31-Jul-18 01:00:00		74.99	0.00	0.00	5.52	2.1	329.7		24.73	0.00	0.00	1.82		10.35	18.92	83.84	86.68	31-Jul-18 00:00:00		35.08	18.92	83.84	88.50
31-Jul-18 01:00:00	31-Jul-18 02:00:00		63.63	0.00	0.00	6.56	2.1	329.7		20.98	0.00	0.00	2.16		10.35	18.92	83.84	86.68	31-Jul-18 01:00:00		31.33	18.92	83.84	88.84
31-Jul-18 02:00:00	31-Jul-18 03:00:00		179.83	0.00	0.00	5.59	2.1	329.7		59.29	0.00	0.00	1.84		10.35	18.92	83.84	86.68	31-Jul-18 02:00:00		69.64	18.92	83.84	88.52
31-Jul-18 03:00:00	31-Jul-18 04:00:00		202.42	0.00	0.00	5.61	2.1	329.7		66.74	0.00	0.00	1.85		10.35	18.92	83.84	86.68	31-Jul-18 03:00:00		77.09	18.92	83.84	88.53
31-Jul-18 04:00:00	31-Jul-18 05:00:00		51.12	0.00	0.00	16.28	2.1	329.7		16.85	0.00	0.00	5.37		10.35	18.92	83.84	86.68	31-Jul-18 04:00:00		27.20	18.92	83.84	92.05
31-Jul-18 05:00:00	31-Jul-18 06:00:00		52.79	0.00	0.00	5.56	2.1	329.7		17.40	0.00	0.00	1.83		10.35	18.92	83.84	86.68	31-Jul-18 05:00:00		27.75	18.92	83.84	88.51
31-Jul-18 06:00:00	31-Jul-18 07:00:00		53.10	0.00	0.00	5.46	2.1	329.7		17.51	0.00	0.00	1.80		10.35	18.92	83.84	86.68	31-Jul-18 06:00:00		27.86	18.92	83.84	88.48
31-Jul-18 07:00:00	31-Jul-18 08:00:00		54.65	0.00	0.00	5.36	2.1	329.7		18.02	0.00	0.00	1.77		10.35	18.92	83.84	86.68	31-Jul-18 07:00:00		28.37	18.92	83.84	88.45
31-Jul-18 08:00:00	31-Jul-18 09:00:00		58.89	0.00	0.00	5.30	2.1	329.7		19.42	0.00	0.00	1.75		10.35	18.92	83.84	86.68	31-Jul-18 08:00:00		29.77	18.92	83.84	88.43
31-Jul-18 09:00:00	31-Jul-18 10:00:00		56.24	0.00	0.00	5.29	2.1	329.7		18.54	0.00	0.00	1.74		10.35	18.92	83.84	86.68	31-Jul-18 09:00:00		28.89	18.92	83.84	88.42
31-Jul-18 10:00:00	31-Jul-18 11:00:00		55.76	0.00	0.00	15.27	2.1	329.7		18.38	0.00	0.00	5.04		10.35	18.92	83.84	86.68	31-Jul-18 10:00:00		28.73	18.92	83.84	91.72
31-Jul-18 11:00:00	31-Jul-18 12:00:00		48.89	0.00	0.00	5.19	2.1	329.7		16.12	0.00	0.00	1.71		10.35	18.92	83.84	86.68	31-Jul-18 11:00:00		26.47	18.92	83.84	88.39
31-Jul-18 12:00:00	31-Jul-18 13:00:00		44.69	0.00	0.00	5.19	2.1	329.7		14.73	0.00	0.00	1.71		10.35	18.92	83.84	86.68	31-Jul-18 12:00:00		25.08	18.92	83.84	88.39
31-Jul-18 13:00:00	31-Jul-18 14:00:00		44.40	0.00	0.00	5.19	2.1	329.7		14.64	0.00	0.00	1.71		10.35	18.92	83.84	86.68	31-Jul-18 13:00:00		24.99	18.92	83.84	88.39
31-Jul-18 14:00:00	31-Jul-18 15:00:00		44.13	0.00	0.00	5.19	2.1	329.7		14.55	0.00	0.00	1.71		10.35	18.92	83.84	86.68	31-Jul-18 14:00:00		24.90	18.92	83.84	88.39
31-Jul-18 15:00:00	31-Jul-18 16:00:00		41.58	0.00	0.00	5.15	2.1	329.7		13.71	0.00	0.00	1.70		10.35	18.92	83.84	86.68	31-Jul-18 15:00:00		24.06	18.92	83.84	88.38
31-Jul-18 16:00:00	31-Jul-18 17:00:00		4.13	0.00	0.00	5.11	2.1	329.7		1.36	0.00	0.00	1.68		10.35	18.92	83.84	86.68	31-Jul-18 16:00:00		11.71	18.92	83.84	88.36
31-Jul-18 17:00:00	31-Jul-18 18:00:00		12.09	0.00	0.00	5.07	2.1	329.7		3.99	0.00	0.00	1.67		10.35	18.92	83.84	86.68	31-Jul-18 17:00:00		14.34	18.92	83.84	88.35
31-Jul-18 18:00:00	31-Jul-18 19:00:00		16.00	0.00	0.00	5.03	2.1	329.7		5.27	0.00	0.00	1.66		10.35	18.92	83.84	86.68	31-Jul-18 18:00:00		15.62	18.92	83.84	88.34
31-Jul-18 19:00:00	31-Jul-18 20:00:00		15.13	0.00	0.00	6.08	2.1	329.7		4.99	0.00	0.00	2.00		10.35	18.92	83.84	86.68	31-Jul-18 19:00:00		15.34	18.92	83.84	88.68
31-Jul-18 20:00:00	31-Jul-18 21:00:00		4.20	0.00	0.00	5.30	2.1	329.7		1.38	0.00	0.00	1.75		10.35	18.92	83.84	86.68	31-Jul-18 20:00:00		11.73	18.92	83.84	88.43
31-Jul-18 21:00:00	31-Jul-18 22:00:00		34.39	0.00	0.00	5.31	2.1	329.7		11.34	0.00	0.00	1.75		10.35	18.92	83.84	86.68	31-Jul-18 21:00:00		21.69	18.92	83.84	88.43
31-Jul-18 22:00:00	31-Jul-18 23:00:00		49.38	0.00	0.00	5.33	2.1	329.7		16.28	0.00	0.00	1.76		10.35	18.92	83.84	86.68	31-Jul-18 22:00:00		26.63	18.92	83.84	88.44
31-Jul-18 23:00:00	01-Aug-18 00:00:00		53.40	0.00	0.00	5.32	2.1	329.7		17.61	0.00	0.00	1.76		10.35	18.92	83.84	86.68	31-Jul-18 23:00:00		27.96	18.92	83.84	88.44
01-Aug-18 00:00:00	01-Aug-18 01:00:00		55.73	0.00	0.00	5.34	2.1	329.7		18.37	0.00	0.00	1.76		10.35	18.92	83.84	86.68	01-Aug-18 00:00:00		28.72	18.92	83.84	88.44
01-Aug-18 01:00:00	01-Aug-18 02:00:00		42.79	0.00	0.00	5.47	2.1	329.7		14.11	0.00	0.00	1.80		10.35	18.92	83.84	86.68	01-Aug-18 01:00:00		24.46	18.92	83.84	88.48
01-Aug-18 02:00:00	01-Aug-18 03:00:00		61.78	0.00	0.00	7.55	2.1	329.7		20.37	0.00	0.00	2.49		10.35	18.92	83.84	86.68	01-Aug-18 02:00:00		30.72	18.92	83.84	89.17
01-Aug-18 03:00:00	01-Aug-18 04:00:00		49.78	0.00	0.00	5.51	2.1	329.7		16.41	0.00	0.00	1.82		10.35	18.92	83.84	86.68	01-Aug-18 03:00:00		26.76	18.92	83.84	88.50
01-Aug-18 04:00:00	01-Aug-18 05:00:00		49.12	0.00	0.00	5.58	2.1	329.7		16.20	0.00	0.00	1.84		10.35	18.92	83.84	86.68	01-Aug-18 04:00:00		26.55	18.92	83.84	88.52
01-Aug-18 05:00:00	01-Aug-18 06:00:00		32.52	0.00	0.00	5.65	2.1	329.7		10.72	0.00	0.00	1.86		10.35	18.92	83.84	86.68	01-Aug-18 05:00:00		21.07	18.92	83.84	88.54
01-Aug-18 06:00:00	01-Aug-18 07:00:00		34.88	0.00	0.00	5.62	2.1	329.7		11.50	0.00	0.00	1.85		10.35	18.92	83.84	86.68	01-Aug-18 06:00:00		21.85	18.92	83.84	88.53
01-Aug-18 07:00:00	01-Aug-18 08:00:00		32.45	0.00	0.00	5.47	2.1	329.7		10.70	0.00	0.00	1.80		10.35	18.92	83.84	86.68	01-Aug-18 07:00:00		21.05	18.92	83.84	88.48
01-Aug-18 08:00:00	01-Aug-18 09:00:00		29.57	0.00	0.00	6.96	2.1	329.7		9.75	0.00	0.00	2.29		10.35	18.92	83.84	86.68	01-Aug-18 08:00:00		20.10	18.92	83.84	88.97
01-Aug-18 09:00:00	01-Aug-18 10:00:00		29.85	0.00	0.00	5.30	2.1	329.7		9.84	0.00	0.00	1.75		10.35	18.92	83.84	86.68	01-Aug-18 09:00:00		20.19	18.92	83.84	88.43
01-Aug-18 10:00:00	01-Aug-18 11:00:00		30.55	0.00	0.00	5.25	2.1	329.7		10.07	0.00	0.00	1.73		10.35	18.92	83.84	86.68	01-Aug-18 10:00:00		20.42	18.92	83.84	88.41
01-Aug-18 11:00:00	01-Aug-18 12:00:00		26.77	0.00	0.00	5.21

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
03-Aug-18 13:00:00	03-Aug-18 14:00:00		46.51	0.00	0.00	5.11	2.1	329.7		15.34	0.00	0.00	1.68		10.35	18.92	83.84	86.68	03-Aug-18 13:00:00		**25.69**	**18.92**	**83.84**	**88.36**
03-Aug-18 14:00:00	03-Aug-18 15:00:00		40.99	0.00	0.00	5.14	2.1	329.7		13.51	0.00	0.00	1.69		10.35	18.92	83.84	86.68	03-Aug-18 14:00:00		**23.86**	**18.92**	**83.84**	**88.37**
03-Aug-18 15:00:00	03-Aug-18 16:00:00		40.77	0.00	0.00	5.17	2.1	329.7		13.44	0.00	0.00	1.71		10.35	18.92	83.84	86.68	03-Aug-18 15:00:00		**23.79**	**18.92**	**83.84**	**88.39**
03-Aug-18 16:00:00	03-Aug-18 17:00:00		41.52	0.00	0.00	5.19	2.1	329.7		13.69	0.00	0.00	1.71		10.35	18.92	83.84	86.68	03-Aug-18 16:00:00		**24.04**	**18.92**	**83.84**	**88.39**
03-Aug-18 17:00:00	03-Aug-18 18:00:00		68.66	0.00	0.00	5.12	2.1	329.7		22.64	0.00	0.00	1.69		10.35	18.92	83.84	86.68	03-Aug-18 17:00:00		**32.99**	**18.92**	**83.84**	**88.37**
03-Aug-18 18:00:00	03-Aug-18 19:00:00		87.56	0.00	0.00	9.39	2.1	329.7		28.87	0.00	0.00	3.10		10.35	18.92	83.84	86.68	03-Aug-18 18:00:00		**39.22**	**18.92**	**83.84**	**89.78**
03-Aug-18 19:00:00	03-Aug-18 20:00:00		91.19	0.00	0.00	5.18	2.1	329.7		30.06	0.00	0.00	1.71		10.35	18.92	83.84	86.68	03-Aug-18 19:00:00		**40.41**	**18.92**	**83.84**	**88.39**
03-Aug-18 20:00:00	03-Aug-18 21:00:00		79.00	0.00	0.00	5.18	2.1	329.7		26.05	0.00	0.00	1.71		10.35	18.92	83.84	86.68	03-Aug-18 20:00:00		**36.40**	**18.92**	**83.84**	**88.39**
03-Aug-18 21:00:00	03-Aug-18 22:00:00		74.74	0.00	0.00	15.50	2.1	329.7		24.64	0.00	0.00	5.11		10.35	18.92	83.84	86.68	03-Aug-18 21:00:00		**34.99**	**18.92**	**83.84**	**91.79**
03-Aug-18 22:00:00	03-Aug-18 23:00:00		72.42	0.00	0.00	5.18	2.1	329.7		23.88	0.00	0.00	1.71		10.35	18.92	83.84	86.68	03-Aug-18 22:00:00		**34.23**	**18.92**	**83.84**	**88.39**
03-Aug-18 23:00:00	04-Aug-18 00:00:00		72.06	0.00	0.00	5.19	2.1	329.7		23.76	0.00	0.00	1.71		10.35	18.92	83.84	86.68	03-Aug-18 23:00:00		**34.11**	**18.92**	**83.84**	**88.39**
04-Aug-18 00:00:00	04-Aug-18 01:00:00		51.96	0.00	0.00	5.20	2.1	329.7		17.13	0.00	0.00	1.71		10.35	18.92	83.84	86.68	04-Aug-18 00:00:00		**27.48**	**18.92**	**83.84**	**88.39**
04-Aug-18 01:00:00	04-Aug-18 02:00:00		47.92	0.00	0.00	5.22	2.1	329.7		15.80	0.00	0.00	1.72		10.35	18.92	83.84	86.68	04-Aug-18 01:00:00		**26.15**	**18.92**	**83.84**	**88.40**
04-Aug-18 02:00:00	04-Aug-18 03:00:00		73.32	0.00	0.00	5.26	2.1	329.7		24.17	0.00	0.00	1.74		10.35	18.92	83.84	86.68	04-Aug-18 02:00:00		**34.52**	**18.92**	**83.84**	**88.42**
04-Aug-18 03:00:00	04-Aug-18 04:00:00		79.71	0.00	0.00	5.28	2.1	329.7		26.28	0.00	0.00	1.74		10.35	18.92	83.84	86.68	04-Aug-18 03:00:00		**36.63**	**18.92**	**83.84**	**88.42**
04-Aug-18 04:00:00	04-Aug-18 05:00:00		61.67	0.00	0.00	5.30	2.1	329.7		20.33	0.00	0.00	1.75		10.35	18.92	83.84	86.68	04-Aug-18 04:00:00		**30.68**	**18.92**	**83.84**	**88.43**
04-Aug-18 05:00:00	04-Aug-18 06:00:00		55.41	0.00	0.00	5.28	2.1	329.7		18.27	0.00	0.00	1.74		10.35	18.92	83.84	86.68	04-Aug-18 05:00:00		**28.62**	**18.92**	**83.84**	**88.42**
04-Aug-18 06:00:00	04-Aug-18 07:00:00		55.73	0.00	0.00	5.25	2.1	329.7		18.38	0.00	0.00	1.73		10.35	18.92	83.84	86.68	04-Aug-18 06:00:00		**28.73**	**18.92**	**83.84**	**88.41**
04-Aug-18 07:00:00	04-Aug-18 08:00:00		62.88	0.00	0.00	5.30	2.1	329.7		20.73	0.00	0.00	1.75		10.35	18.92	83.84	86.68	04-Aug-18 07:00:00		**31.08**	**18.92**	**83.84**	**88.43**
04-Aug-18 08:00:00	04-Aug-18 09:00:00		87.11	0.00	0.00	5.35	2.1	329.7		28.72	0.00	0.00	1.76		10.35	18.92	83.84	86.68	04-Aug-18 08:00:00		**39.07**	**18.92**	**83.84**	**88.44**
04-Aug-18 09:00:00	04-Aug-18 10:00:00		82.20	0.00	0.00	5.37	2.1	329.7		27.10	0.00	0.00	1.77		10.35	18.92	83.84	86.68	04-Aug-18 09:00:00		**37.45**	**18.92**	**83.84**	**88.45**
04-Aug-18 10:00:00	04-Aug-18 11:00:00		75.41	0.00	0.00	5.21	2.1	329.7		24.86	0.00	0.00	1.72		10.35	18.92	83.84	86.68	04-Aug-18 10:00:00		**35.21**	**18.92**	**83.84**	**88.40**
04-Aug-18 11:00:00	04-Aug-18 12:00:00		74.70	0.00	0.00	5.05	2.1	329.7		24.63	0.00	0.00	1.66		10.35	18.92	83.84	86.68	04-Aug-18 11:00:00		**34.98**	**18.92**	**83.84**	**88.34**
04-Aug-18 12:00:00	04-Aug-18 13:00:00		59.22	0.00	0.00	4.88	2.1	329.7		19.52	0.00	0.00	1.61		10.35	18.92	83.84	86.68	04-Aug-18 12:00:00		**29.87**	**18.92**	**83.84**	**88.29**
04-Aug-18 13:00:00	04-Aug-18 14:00:00		53.33	0.00	0.00	4.71	2.1	329.7		17.58	0.00	0.00	1.55		10.35	18.92	83.84	86.68	04-Aug-18 13:00:00		**27.93**	**18.92**	**83.84**	**88.23**
04-Aug-18 14:00:00	04-Aug-18 15:00:00		23.35	0.00	0.00	4.55	2.1	329.7		7.70	0.00	0.00	1.50		10.35	18.92	83.84	86.68	04-Aug-18 14:00:00		**18.05**	**18.92**	**83.84**	**88.18**
04-Aug-18 15:00:00	04-Aug-18 16:00:00		11.98	0.00	0.00	4.43	2.1	329.7		3.95	0.00	0.00	1.46		10.35	18.92	83.84	86.68	04-Aug-18 15:00:00		**14.30**	**18.92**	**83.84**	**88.14**
04-Aug-18 16:00:00	04-Aug-18 17:00:00		47.93	0.00	0.00	4.31	2.1	329.7		15.80	0.00	0.00	1.42		10.35	18.92	83.84	86.68	04-Aug-18 16:00:00		**26.15**	**18.92**	**83.84**	**88.10**
04-Aug-18 17:00:00	04-Aug-18 18:00:00		41.04	0.00	0.00	4.17	2.1	329.7		13.53	0.00	0.00	1.38		10.35	18.92	83.84	86.68	04-Aug-18 17:00:00		**23.88**	**18.92**	**83.84**	**88.06**
04-Aug-18 18:00:00	04-Aug-18 19:00:00		42.31	0.00	0.00	4.17	2.1	329.7		13.95	0.00	0.00	1.38		10.35	18.92	83.84	86.68	04-Aug-18 18:00:00		**24.30**	**18.92**	**83.84**	**88.06**
04-Aug-18 19:00:00	04-Aug-18 20:00:00		44.63	0.00	0.00	4.31	2.1	329.7		14.71	0.00	0.00	1.42		10.35	18.92	83.84	86.68	04-Aug-18 19:00:00		**25.06**	**18.92**	**83.84**	**88.10**
04-Aug-18 20:00:00	04-Aug-18 21:00:00		44.42	0.00	0.00	4.45	2.1	329.7		14.65	0.00	0.00	1.47		10.35	18.92	83.84	86.68	04-Aug-18 20:00:00		**25.00**	**18.92**	**83.84**	**88.15**
04-Aug-18 21:00:00	04-Aug-18 22:00:00		46.80	0.00	0.00	4.59	2.1	329.7		15.43	0.00	0.00	1.51		10.35	18.92	83.84	86.68	04-Aug-18 21:00:00		**25.78**	**18.92**	**83.84**	**88.19**
04-Aug-18 22:00:00	04-Aug-18 23:00:00		42.86	0.00	0.00	4.76	2.1	329.7		14.13	0.00	0.00	1.57		10.35	18.92	83.84	86.68	04-Aug-18 22:00:00		**24.48**	**18.92**	**83.84**	**88.25**
04-Aug-18 23:00:00	05-Aug-18 00:00:00		26.45	0.00	0.00	4.92	2.1	329.7		8.72	0.00	0.00	1.62		10.35	18.92	83.84	86.68	04-Aug-18 23:00:00		**19.07**	**18.92**	**83.84**	**88.30**
05-Aug-18 00:00:00	05-Aug-18 01:00:00		18.41	0.00	0.00	5.08	2.1	329.7		6.07	0.00	0.00	1.68		10.35	18.92	83.84	86.68	05-Aug-18 00:00:00		**16.42**	**18.92**	**83.84**	**88.36**
05-Aug-18 01:00:00	05-Aug-18 02:00:00		20.40	0.00	0.00	5.25	2.1	329.7		6.73	0.00	0.00	1.73		10.35	18.92	83.84	86.68	05-Aug-18 01:00:00		**17.08**	**18.92**	**83.84**	**88.41**
05-Aug-18 02:00:00	05-Aug-18 03:00:00		33.72	0.00	0.00	5.33	2.1	329.7		11.12	0.00	0.00	1.76		10.35	18.92	83.84	86.68	05-Aug-18 02:00:00		**21.47**	**18.92**	**83.84**	**88.44**
05-Aug-18 03:00:00	05-Aug-18 04:00:00		43.82	0.00	0.00	5.35	2.1	329.7		14.45	0.00	0.00	1.76		10.35	18.92	83.84	86.68	05-Aug-18 03:00:00		**24.80**	**18.92**	**83.84**	**88.44**
05-Aug-18 04:00:00	05-Aug-18 05:00:00		41.43	0.00	0.00	5.37	2.1	329.7		13.66	0.00	0.00	1.77		10.35	18.92	83.84	86.68	05-Aug-18 04:00:00		**24.01**	**18.92**	**83.84**	**88.45**
05-Aug-18 05:00:00	05-Aug-18 06:00:00		67.42	0.00	0.00	5.40	2.1	329.7		22.23	0.00	0.00	1.78		10.35	18.92	83.84	86.68	05-Aug-18 05:00:00		**32.58**	**18.92**	**83.84**	**88.46**
05-Aug-18 06:00:00	05-Aug-18 07:00:00		48.15	0.00	0.00	5.41	2.1	329.7		15.87	0.00	0.00	1.78		10.35	18.92	83.84	86.68	05-Aug-18 06:00:00		**26.22**	**18.92**	**83.84**	**88.46**
05-Aug-18 07:00:00	05-Aug-18 08:00:00		49.08	0.00	0.00	5.35	2.1	329.7		16.18	0.00	0.00	1.76		10.35	18.92	83.84	86.68	05-Aug-18 07:00:00		**26.53**	**18.92**	**83.84**	**88.44**
05-Aug-18 08:00:00	05-Aug-18 09:00:00		54.81	0.00	0.00	5.29	2.1	329.7		18.07	0.00	0.00	1.75		10.35	18.92	83.84	86.68	05-Aug-18 08:00:00		**28.42**	**18.92**	**83.84**	**88.43**
05-Aug-18 09:00:00	05-Aug-18 10:00:00		52.90	0.00	0.00	5.23	2.1	329.7		17.44	0.00	0.00	1.73		10.35	18.92	83.84	86.68	05-Aug-18 09:00:00		**27.79**	**18.92**	**83.84**	**88.41**
05-Aug-18 10:00:00	05-Aug-18 11:00:00		46.40	0.00	0.00	5.05	2.1	329.7		15.30	0.00	0.00	1.66		10.35	18.92	83.84	86.68	05-Aug-18 10:00:00		**25.65**	**18.92**	**83.84**	**88.34**
05-Aug-18 11:00:00	05-Aug-18 12:00:00		25.38	0.00	0.00	35.80	2.1	329.7		8.37	0.00	0.00	11.80		10.35	18.92	83.84	86.68	05-Aug-18 11:00:00		**18.72**	**18.92**	**83.84**	**98.48**
05-Aug-18 12:00:00	05-Aug-18 13:00:00		33.37	0.00	0.00	4.66	2.1	329.7		11.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	05-Aug-18 12:00:00		**21.35**	**18.92**	**83.84**	**88.22**
05-Aug-18 13:00:00	05-Aug-18 14:00:00		37.60	0.00	0.00	4.65	2.1	329.7		12.40	0.00	0.00	1.53		10.35	18.92	83.84	86.68	05-Aug-18 13:00:00		**22.75**	**18.92**	**83.84**	**88.21**
05-Aug-18 14:00:00	05-Aug-18 15:00:00		52.36	0.00	0.00	4.64	2.1	329.7		17.26	0.00	0.00	1.53		10.35	18.92	83.84	86.68	05-Aug-18 14:00:00		**27.61**	**18.92**	**83.84**	**88.21**
05-Aug-18 15:00:00	05-Aug-18 16:00:00		35.35	0.00	0.00	4.62	2.1	329.7		11.66	0.00	0.00	1.52		10.35	18.92	83.84	86.68	05-Aug-18 15:00:00		**22.01**	**18.92**	**83.84**	**88.20**
05-Aug-18 16:00:00	05-Aug-18 17:00:00		51.52	0.00	0.00	49.21	2.1	329.7		16.98	0.00	0.00	16.22		10.35	18.92	83.84	86.68	05-Aug-18 16:00:00		**27.33**	**18.92**	**83.84**	**102.90**
05-Aug-18 17:00:00	05-Aug-18 18:00:00		33.90	0.00	0.00	5.05	2.1	329.7		11.18	0.00	0.00	1.67		10.35	18.92	83.84	86.68	05-Aug-18 17:00:00		**21.53**	**18.92**	**83.84**	**88.35**
05-Aug-18 18:00:00	05-Aug-18 19:00:00		49.00	0.00	0.00	5.10	2.1	329.7		16.16	0.00	0.00	1.68		10.35	18.92	83.84	86.68	05-Aug-18 18:00:00		**26.51**	**18.92**	**83.84**	**88.36**
05-Aug-18 19:00:00	05-Aug-18 20:00:00		40.13	0.00	0.00	5.15	2.1	329.7		13.23	0.00	0.00	1.70		10.35	18.92	83.84	86.68	05-Aug-18 19:00:00		**23.58**	**18.92**	**83.84**	**88.38**
05-Aug-18 20:00:00	05-Aug-18 21:00:00		34.89	0.00	0.00	5.20	2.1	329.7		11.50	0.00	0.00	1.71		10.35	18.92	83.84	86.68	05-Aug-18 20:00:00		**21.85**	**18.92**	**83.84**	**88.39**
05-Aug-18 21:00:00	05-Aug-18 22:00:00		18.55	0.00	0.00	5.25	2.1	329.7		6.11	0.00	0.00	1.73		10.35	18.92	83.84	86.68	05-Aug-18 21:00:00		**16.46**	**18.92**	**83.84**	**88.41**
05-Aug-18 22:00:00	05-Aug-18 23:00:00		30.98	0.00	0.00	5.27	2.1	329.7		10.22	0.00	0.00	1.74		10.35	18.92	83.84	86.68	05-Aug-18 22:00:00		**20.57**	**18.92**	**83.84**	**88.42**
05-Aug-18 23:00:00	06-Aug-18 00:00:00		44.23	0.00	0.00	5.30	2.1	329.7		14.58	0.00	0.00	1.75		10.35	18.92	83.84	86.68	05-Aug-18 23:00:00		**24.93**	**18.92**	**83.84**	**88.43**
06-Aug-18 00:00:00	06-Aug-18 01:00:00		45.00	0.00	0.00	5.33	2.1	329.7		14.84	0.00	0.00	1.76		10.35	18.92	83.84	86.68	06-Aug-18 00:00:00		**25.19**	**18.92**	**83.84**	**88.44**
06-Aug-18 01:00:00	06-Aug-18 02:00:00		49.78	0.00	0.00	5.35	2.1	329.7		16.41	0.00	0.00	1.77		10.35	18.92	83.84	86.68	06-Aug-18 01:00:00		**26.76**	**18.92**	**83.84**	**88.45**
06-Aug-18 02:00:00	06-Aug-18 03:00:00		48.35	0.00	0.00	5.37	2.1	329.7		15.94	0.00	0.00	1.77		10.35	18.92	83.84	86.68	06-Aug-18 02:00:00		**26.29**	**18.92**	**83.84**	**88.45**
06-Aug-18 03:00:00	06-Aug-18 04:00:00		47.55	0.00	0.00	5.38	2.1	329.7		15.68	0.00	0.00	1.77		10.35	18.92	83.84	86.68	06-Aug-18 03:00:00		**26.03**	**18.92**	**83.84**	**88.45**
06-Aug-18 04:00:00	06-Aug-18 05:00:00		49.93	0.00	0.00	5.38	2.1	329.7		16.46	0.00	0.00	1.77		10.35	18.92	83.84	86.68	06-Aug-18 04:00:00		**26.81**	**18.92**	**83.84**	**88.45**
06-Aug-18 05:00:00	06-Aug-18 06:00:00		79.56	0.00	0.00	5.28	2.1	329.7		26.23	0.00	0.00	1.74		10.35	18.92	83.84	86.68	06-Aug-18 05:00:00		**36.58**	**18.92**	**83.84**	**88.42**
06-Aug-18 06:00:00	06-Aug-18 07:00:00		56.50	0.00	0.00	5.28	2.1	329.7		18.63	0.00	0.00	1.74		10.35	18.92	83.84	86.68	06-Aug-18 06:00:00		**28.98**	**18.92**	**83.84**	**88.42**
06-Aug-18 07:00:00	06-Aug-18 08:00:00		70.63	0.00	0.00	5.29	2.1	329.7		23.29	0.00	0.00	1.74		10.35	18.92	83.84	86.68	06-Aug-18 07:00:00		**33.64**	**18.92**	**83.84**	**88.42**
06-Aug-18 08:00:00	06-Aug-18 09:00:00		65.89	0.00	0.00	5.31	2.1	329.7		21.72	0.00	0.00	1.75		10.35	18.92	83.84	86.68	06-Aug-18 08:00:00		**32.07**	**18.92**	**83.84**	**88.43**
06-Aug-18 09:00:00	06-Aug-18 10:00:00		65.14	0.00	0.00	5.37	2.1	329.7		21.48	0.00	0.00	1.77		10.35	18.92	83.84	86.68	06-Aug-18 09:00:00		**31.83**	**18.92**	**83.84**	**88.45**
06-Aug-18 10:00:00	06-Aug-18 11:00:00		63.39	0.00	0.00	5.12	2.1	329.7		20.90	0.00	0.00	1.69		10.35	18.92	83.84	86.68	06-Aug-18 10:00:00		**31.25**	**18.92**	**83.84**	**88.37**
06-Aug-18 11:00:00	06-Aug-18 12:00:00		48.38	0.00	0.00	4.86	2.1	329.7		15.95	0.00	0.00	1.60		10.35	18.92	83.84	86.68	06-Aug-18 11:00:00		**26.30**	**18.92**	**83.84**	**88.28**
06-Aug-18 12:00:00	06-Aug-18 13:00:00		21.16	0.00	0.00	4.62	2.1	329.7		6.98	0.00	0.00	1.52		10.35	18.92	83.84	86.68	06-Aug-18 12:00:00		**17.33**	**18.92**	**83.84**	**88.20**
06-Aug-18 13:00:00	06-Aug-18 14:00:00		34.87	0.00	0.00	4.54	2.1	329.7		11.50	0.00	0.00	1.50		10.35	18.92	83.84	86.68	06-Aug-18 13:00:00		**21.85**	**18.92**	**83.84**	**88.18**
06-Aug-18 14:00:00	06-Aug-18 15:00:00		38.71	0.00	0.00	4.61	2.1	329.7		12.76	0.00	0.00	1.52		10.35	18.92	83.84	86.68	06-Aug-18 14:00:00		**23.11**	**18.92**	**83.84**	**88.20**
06-Aug-18 15:00:00	06-Aug-18 16:00:00		23.23	0.00	0.00	4.67	2.1	329.7		7.66	0.00	0.00	1.54		10.35	18.92	83.84	86.68	06-Aug-18 15:00:00		**18.01**	**18.92**	**83.84**	**88.22**
06-Aug-18 16:00:00	06-Aug-18 17:00:00		28.16	0.00	0.00	4.74	2.1	329.7		9.28	0.00	0.00	1.56		10.35	18.92	83.84	86.68	06-Aug-18 16:00:00		**19.63**	**18.92**	**83.84**	**88.24**
06-Aug-18 17:00:00	06-Aug-18 18:00:00		19.41	0.00	0.00	260.97	2.1	329.7		6.40	0.00	0.00	86.04		10.35	18.92	83.84	86.68	06-Aug-18 17:00:00		**16.75**	**18.92**	**83.84**	**172.72**
06-Aug-18 18:00:00	06-Aug-18 19:00:00		16.24	0.00	0.00	30.80	2.1	329.7		5.36	0.00	0.00	10.15		10.35	18.92	83.84	86.68	06-Aug-18 18:00:00		**15.71**	**18.92**	**83.84**	**96.83**
06-Aug-18 19:00:00	06-Aug-18 20:00:00		10.13	0.00	0.00	155.17	2.1	329.7		3.34	0.00	0.00	51.16		10.35	18.92	83.84	86.68	06-Aug-18 19:00:00		**13.69**	**18.92**	**83.84**	**137.84**
06-Aug-18 20:00:00	06-Aug-18 21:00:00		46.10	0.00	0.00	44.48	2.1	329.7		15.20	0.00	0.00	14.66		10.35	18.92	83.84	86.68	06-Aug-18 20:00:00		**25.55**	**18.92**	**83.84**	**101.94**
06-Aug-18 21:00:00	06-Aug-18 22:00:00		60.74	0.00	0.00	5.81	2.1	329.7		20.02	0.00	0.00	1.92		10.35	18.92	83.84	86.68	06-Aug-18 21:00:00		**30.37**	**18.92**	**83.84**	**88.60**
06-Aug-18 22:00:00	06-Aug-18 23:00:00		58.53	0.00	0.00	5.79	2.1	329.7		19.30	0.00	0.00	1.91		10.35	18.92	83.84	86.68	06-Aug-18 22:00:00		**29.65**	**18.92**	**83.84**	**88.59**
06-Aug-18 23:00:00	07-Aug-18 00:00:00		74.94	0.00	0.00	5.77	2.1	329.7		24.71	0.00	0.00	1.90		10.35	18.92	83.84	86.68	06-Aug-18 23:00:00		**35.06**	**18.92**	**83.84**	**88.58**
07-Aug-18 00:00:00	07-Aug-18 01:00:00		45.28	0.00	0.00	5.62	2.1	329.7		14.93	0.00	0.00	1.85		10.35	18.92	83.84	86.68	07-Aug-18 00:00:00		**25.28**	**18.92**	**83.84**	**88.53**
07-Aug-18 01:00:00	07-Aug-18 02:00:00		36.76	0.00	0.00	5.61	2.1	329.7		12.12	0.00	0.00	1.85		10.35	18.92	83.84	86.68	07-Aug-18 01:00:00		**22.47**	**18.92**	**83.84**	**88.53**
07-Aug-18 02:00:00	07-Aug-18 03:00:00		56.67	0.00	0.00	5.63	2.1	329.7		18.69	0.00	0.00	1.86		10.35	18.92	83.84	86.68	07-Aug-18 02:00:00		**29.04**	**18.92**	**83.84**	**88.54**
07-Aug-18 03:00:00	07-Aug-18 04:00:00		59.89	0.00	0.00	5.65	2.1	329.7		19.74	0.00	0.00	1.86		10.35	18.92	83.84	86.68	07-Aug-18 03:00:00		**30.09**	**18.92**	**83.84**	**88.54**
07-Aug-18 04:00:00	07-Aug-18 05:00:00		59.96	0.00	0.00	5.71	2.1	329.7		19.77	0.00	0.00	1.88		10.35	18.92	83.84	86.68	07-Aug-18 04:00:00		**30.12**	**18.92**	**83.84**	**88.56**
07-Aug-18 05:00:00	07-Aug-18 06:00:00		58.70	0.00	0.00	5.74	2.1	329.7		19.35	0.00	0.00	1.89		10.35	18.92	83.84	86.68	07-Aug-18 05:00:00		**29.70**	**18.92**	**83.84**	**88.57**
07-Aug-18 06:00:00	07-Aug-18 07:00:00		39.67	0.00	0.00	5.78	2.1	329.7		13.08	0.00	0.00	1.91		10.35	18.92	83.84	86.68	07-Aug-18 06:00:00		**23.43**	**18.92**	**83.84**	**88.59**
07-Aug-18 07:00:00	07-Aug-18 08:00:00		46.22	0.00	0.00	5.81	2.1	329.7		15.24	0.00	0.00	1.92		10.35	18.92	83.84	86.68	07-Aug-18 07:00:00		**25.59**	**18.92**	**83.84**	**88.60**
07-Aug-18 08:00:00	07-Aug-18 09:00:00		54.83	0.00	0.00	5.68	2.1	329.7		18.08	0.00	0.00	1.87		10.35	18.92	83.84	86.68	07-Aug-18 08:00:00		**28.43**	**18.92**	**83.84**	**88.55**
07-Aug-18 09:00:00	07-Aug-18 10:00:00		55.87	0.00	0.00	5.41	2.1	329.7		18.42	0.00	0.00	1.78		10.35	18.92	83.84	86.68	07-Aug-18 09:00:00		**28.77**	**18.92**	**83.84**	**88.46**
07-Aug-18 10:00:00	07-Aug-18 11:00:00		55.80	0.00	0.00	5.

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
09-Aug-18 12:00:00	09-Aug-18 13:00:00		41.15	0.00	0.00	4.69	2.1	329.7		13.57	0.00	0.00	1.55		10.35	18.92	83.84	86.68	09-Aug-18 12:00:00		23.92	18.92	83.84	88.23
09-Aug-18 13:00:00	09-Aug-18 14:00:00		45.03	0.00	0.00	4.64	2.1	329.7		14.84	0.00	0.00	1.53		10.35	18.92	83.84	86.68	09-Aug-18 13:00:00		25.19	18.92	83.84	88.21
09-Aug-18 14:00:00	09-Aug-18 15:00:00		40.52	0.00	0.00	4.64	2.1	329.7		13.36	0.00	0.00	1.53		10.35	18.92	83.84	86.68	09-Aug-18 14:00:00		23.71	18.92	83.84	88.21
09-Aug-18 15:00:00	09-Aug-18 16:00:00		35.36	0.00	0.00	4.63	2.1	329.7		11.66	0.00	0.00	1.53		10.35	18.92	83.84	86.68	09-Aug-18 15:00:00		22.01	18.92	83.84	88.21
09-Aug-18 16:00:00	09-Aug-18 17:00:00		10.93	0.00	0.00	4.83	2.1	329.7		3.60	0.00	0.00	1.59		10.35	18.92	83.84	86.68	09-Aug-18 16:00:00		13.95	18.92	83.84	88.27
09-Aug-18 17:00:00	09-Aug-18 18:00:00		10.77	0.00	0.00	4.70	2.1	329.7		3.55	0.00	0.00	1.55		10.35	18.92	83.84	86.68	09-Aug-18 17:00:00		13.90	18.92	83.84	88.23
09-Aug-18 18:00:00	09-Aug-18 19:00:00		12.12	0.00	0.00	4.82	2.1	329.7		4.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	09-Aug-18 18:00:00		14.35	18.92	83.84	88.27
09-Aug-18 19:00:00	09-Aug-18 20:00:00		12.41	0.00	0.00	4.94	2.1	329.7		4.09	0.00	0.00	1.63		10.35	18.92	83.84	86.68	09-Aug-18 19:00:00		14.44	18.92	83.84	88.31
09-Aug-18 20:00:00	09-Aug-18 21:00:00		10.74	0.00	0.00	5.08	2.1	329.7		3.54	0.00	0.00	1.67		10.35	18.92	83.84	86.68	09-Aug-18 20:00:00		13.89	18.92	83.84	88.35
09-Aug-18 21:00:00	09-Aug-18 22:00:00		18.27	0.00	0.00	5.33	2.1	329.7		6.02	0.00	0.00	1.76		10.35	18.92	83.84	86.68	09-Aug-18 21:00:00		16.37	18.92	83.84	88.44
09-Aug-18 22:00:00	09-Aug-18 23:00:00		35.90	0.00	0.00	10.11	2.1	329.7		11.84	0.00	0.00	3.33		10.35	18.92	83.84	86.68	09-Aug-18 22:00:00		22.19	18.92	83.84	90.01
09-Aug-18 23:00:00	10-Aug-18 00:00:00		16.37	0.00	0.00	5.77	2.1	329.7		5.40	0.00	0.00	1.90		10.35	18.92	83.84	86.68	09-Aug-18 23:00:00		15.75	18.92	83.84	88.58
10-Aug-18 00:00:00	10-Aug-18 01:00:00		54.70	0.00	0.00	5.78	2.1	329.7		18.03	0.00	0.00	1.91		10.35	18.92	83.84	86.68	10-Aug-18 00:00:00		28.38	18.92	83.84	88.59
10-Aug-18 01:00:00	10-Aug-18 02:00:00		55.41	0.00	0.00	5.79	2.1	329.7		18.27	0.00	0.00	1.91		10.35	18.92	83.84	86.68	10-Aug-18 01:00:00		28.62	18.92	83.84	88.59
10-Aug-18 02:00:00	10-Aug-18 03:00:00		42.61	0.00	0.00	5.81	2.1	329.7		14.05	0.00	0.00	1.91		10.35	18.92	83.84	86.68	10-Aug-18 02:00:00		24.40	18.92	83.84	88.59
10-Aug-18 03:00:00	10-Aug-18 04:00:00		70.52	0.00	0.00	5.89	2.1	329.7		23.25	0.00	0.00	1.94		10.35	18.92	83.84	86.68	10-Aug-18 03:00:00		33.60	18.92	83.84	88.62
10-Aug-18 04:00:00	10-Aug-18 05:00:00		81.56	0.00	0.00	5.96	2.1	329.7		26.89	0.00	0.00	1.97		10.35	18.92	83.84	86.68	10-Aug-18 04:00:00		37.24	18.92	83.84	88.65
10-Aug-18 05:00:00	10-Aug-18 06:00:00		69.07	0.00	0.00	6.04	2.1	329.7		22.77	0.00	0.00	1.99		10.35	18.92	83.84	86.68	10-Aug-18 05:00:00		33.12	18.92	83.84	88.67
10-Aug-18 06:00:00	10-Aug-18 07:00:00		71.84	0.00	0.00	6.11	2.1	329.7		23.69	0.00	0.00	2.01		10.35	18.92	83.84	86.68	10-Aug-18 06:00:00		34.04	18.92	83.84	88.69
10-Aug-18 07:00:00	10-Aug-18 08:00:00		68.76	0.00	0.00	5.98	2.1	329.7		22.67	0.00	0.00	1.97		10.35	18.92	83.84	86.68	10-Aug-18 07:00:00		33.02	18.92	83.84	88.65
10-Aug-18 08:00:00	10-Aug-18 09:00:00		64.16	0.00	0.00	5.77	2.1	329.7		21.15	0.00	0.00	1.90		10.35	18.92	83.84	86.68	10-Aug-18 08:00:00		31.50	18.92	83.84	88.58
10-Aug-18 09:00:00	10-Aug-18 10:00:00		57.22	0.00	0.00	5.57	2.1	329.7		18.87	0.00	0.00	1.84		10.35	18.92	83.84	86.68	10-Aug-18 09:00:00		29.22	18.92	83.84	88.52
10-Aug-18 10:00:00	10-Aug-18 11:00:00		56.63	0.00	0.00	5.34	2.1	329.7		18.67	0.00	0.00	1.76		10.35	18.92	83.84	86.68	10-Aug-18 10:00:00		29.02	18.92	83.84	88.44
10-Aug-18 11:00:00	10-Aug-18 12:00:00		38.15	0.00	0.00	5.10	2.1	329.7		12.58	0.00	0.00	1.68		10.35	18.92	83.84	86.68	10-Aug-18 11:00:00		22.93	18.92	83.84	88.36
10-Aug-18 12:00:00	10-Aug-18 13:00:00		50.69	0.00	0.00	4.94	2.1	329.7		16.71	0.00	0.00	1.63		10.35	18.92	83.84	86.68	10-Aug-18 12:00:00		27.06	18.92	83.84	88.31
10-Aug-18 13:00:00	10-Aug-18 14:00:00		22.78	0.00	0.00	4.78	2.1	329.7		7.51	0.00	0.00	1.58		10.35	18.92	83.84	86.68	10-Aug-18 13:00:00		17.86	18.92	83.84	88.26
10-Aug-18 14:00:00	10-Aug-18 15:00:00		36.33	0.00	0.00	4.61	2.1	329.7		11.98	0.00	0.00	1.52		10.35	18.92	83.84	86.68	10-Aug-18 14:00:00		22.33	18.92	83.84	88.20
10-Aug-18 15:00:00	10-Aug-18 16:00:00		28.27	0.00	0.00	4.51	2.1	329.7		9.32	0.00	0.00	1.49		10.35	18.92	83.84	86.68	10-Aug-18 15:00:00		19.67	18.92	83.84	88.17
10-Aug-18 16:00:00	10-Aug-18 17:00:00		51.37	0.00	0.00	4.57	2.1	329.7		16.94	0.00	0.00	1.51		10.35	18.92	83.84	86.68	10-Aug-18 16:00:00		27.29	18.92	83.84	88.19
10-Aug-18 17:00:00	10-Aug-18 18:00:00		46.04	0.00	0.00	4.64	2.1	329.7		15.18	0.00	0.00	1.53		10.35	18.92	83.84	86.68	10-Aug-18 17:00:00		25.53	18.92	83.84	88.21
10-Aug-18 18:00:00	10-Aug-18 19:00:00		48.44	0.00	0.00	4.69	2.1	329.7		15.97	0.00	0.00	1.55		10.35	18.92	83.84	86.68	10-Aug-18 18:00:00		26.32	18.92	83.84	88.23
10-Aug-18 19:00:00	10-Aug-18 20:00:00		50.44	0.00	0.00	4.77	2.1	329.7		16.63	0.00	0.00	1.57		10.35	18.92	83.84	86.68	10-Aug-18 19:00:00		26.98	18.92	83.84	88.25
10-Aug-18 20:00:00	10-Aug-18 21:00:00		51.37	0.00	0.00	4.89	2.1	329.7		16.94	0.00	0.00	1.61		10.35	18.92	83.84	86.68	10-Aug-18 20:00:00		27.29	18.92	83.84	88.29
10-Aug-18 21:00:00	10-Aug-18 22:00:00		52.47	0.00	0.00	5.02	2.1	329.7		17.30	0.00	0.00	1.66		10.35	18.92	83.84	86.68	10-Aug-18 21:00:00		27.65	18.92	83.84	88.34
10-Aug-18 22:00:00	10-Aug-18 23:00:00		51.02	0.00	0.00	47.63	2.1	329.7		16.82	0.00	0.00	15.70		10.35	18.92	83.84	86.68	10-Aug-18 22:00:00		27.17	18.92	83.84	102.38
10-Aug-18 23:00:00	11-Aug-18 00:00:00		37.96	0.00	0.00	5.23	2.1	329.7		12.51	0.00	0.00	1.72		10.35	18.92	83.84	86.68	10-Aug-18 23:00:00		22.86	18.92	83.84	88.40
11-Aug-18 00:00:00	11-Aug-18 01:00:00		27.50	0.00	0.00	5.25	2.1	329.7		9.07	0.00	0.00	1.73		10.35	18.92	83.84	86.68	11-Aug-18 00:00:00		19.42	18.92	83.84	88.41
11-Aug-18 01:00:00	11-Aug-18 02:00:00		18.62	0.00	0.00	5.26	2.1	329.7		6.14	0.00	0.00	1.74		10.35	18.92	83.84	86.68	11-Aug-18 01:00:00		16.49	18.92	83.84	88.42
11-Aug-18 02:00:00	11-Aug-18 03:00:00		17.04	0.00	0.00	5.27	2.1	329.7		5.62	0.00	0.00	1.74		10.35	18.92	83.84	86.68	11-Aug-18 02:00:00		15.97	18.92	83.84	88.42
11-Aug-18 03:00:00	11-Aug-18 04:00:00		69.75	0.00	0.00	5.28	2.1	329.7		23.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	11-Aug-18 03:00:00		33.35	18.92	83.84	88.42
11-Aug-18 04:00:00	11-Aug-18 05:00:00		42.56	0.00	0.00	5.39	2.1	329.7		14.03	0.00	0.00	1.78		10.35	18.92	83.84	86.68	11-Aug-18 04:00:00		24.38	18.92	83.84	88.46
11-Aug-18 05:00:00	11-Aug-18 06:00:00		72.51	0.00	0.00	5.50	2.1	329.7		23.91	0.00	0.00	1.81		10.35	18.92	83.84	86.68	11-Aug-18 05:00:00		34.26	18.92	83.84	88.49
11-Aug-18 06:00:00	11-Aug-18 07:00:00		66.25	0.00	0.00	5.63	2.1	329.7		21.84	0.00	0.00	1.85		10.35	18.92	83.84	86.68	11-Aug-18 06:00:00		32.19	18.92	83.84	88.53
11-Aug-18 07:00:00	11-Aug-18 08:00:00		62.17	0.00	0.00	5.73	2.1	329.7		20.50	0.00	0.00	1.89		10.35	18.92	83.84	86.68	11-Aug-18 07:00:00		30.85	18.92	83.84	88.57
11-Aug-18 08:00:00	11-Aug-18 09:00:00		55.39	0.00	0.00	5.67	2.1	329.7		18.26	0.00	0.00	1.87		10.35	18.92	83.84	86.68	11-Aug-18 08:00:00		28.61	18.92	83.84	88.55
11-Aug-18 09:00:00	11-Aug-18 10:00:00		53.37	0.00	0.00	5.61	2.1	329.7		17.60	0.00	0.00	1.85		10.35	18.92	83.84	86.68	11-Aug-18 09:00:00		27.95	18.92	83.84	88.53
11-Aug-18 10:00:00	11-Aug-18 11:00:00		52.71	0.00	0.00	5.55	2.1	329.7		17.38	0.00	0.00	1.83		10.35	18.92	83.84	86.68	11-Aug-18 10:00:00		27.73	18.92	83.84	88.51
11-Aug-18 11:00:00	11-Aug-18 12:00:00		49.54	0.00	0.00	5.48	2.1	329.7		16.33	0.00	0.00	1.81		10.35	18.92	83.84	86.68	11-Aug-18 11:00:00		26.68	18.92	83.84	88.49
11-Aug-18 12:00:00	11-Aug-18 13:00:00		50.14	0.00	0.00	5.43	2.1	329.7		16.53	0.00	0.00	1.79		10.35	18.92	83.84	86.68	11-Aug-18 12:00:00		26.88	18.92	83.84	88.47
11-Aug-18 13:00:00	11-Aug-18 14:00:00		62.63	0.00	0.00	5.37	2.1	329.7		20.65	0.00	0.00	1.77		10.35	18.92	83.84	86.68	11-Aug-18 13:00:00		31.00	18.92	83.84	88.45
11-Aug-18 14:00:00	11-Aug-18 15:00:00		45.06	0.00	0.00	5.31	2.1	329.7		14.86	0.00	0.00	1.75		10.35	18.92	83.84	86.68	11-Aug-18 14:00:00		25.21	18.92	83.84	88.43
11-Aug-18 15:00:00	11-Aug-18 16:00:00		26.38	0.00	0.00	5.17	2.1	329.7		8.70	0.00	0.00	1.70		10.35	18.92	83.84	86.68	11-Aug-18 15:00:00		19.05	18.92	83.84	88.38
11-Aug-18 16:00:00	11-Aug-18 17:00:00		31.78	0.00	0.00	5.10	2.1	329.7		10.48	0.00	0.00	1.68		10.35	18.92	83.84	86.68	11-Aug-18 16:00:00		20.83	18.92	83.84	88.36
11-Aug-18 17:00:00	11-Aug-18 18:00:00		18.73	0.00	0.00	5.03	2.1	329.7		6.17	0.00	0.00	1.66		10.35	18.92	83.84	86.68	11-Aug-18 17:00:00		16.52	18.92	83.84	88.34
11-Aug-18 18:00:00	11-Aug-18 19:00:00		31.90	0.00	0.00	4.96	2.1	329.7		10.52	0.00	0.00	1.63		10.35	18.92	83.84	86.68	11-Aug-18 18:00:00		20.87	18.92	83.84	88.31
11-Aug-18 19:00:00	11-Aug-18 20:00:00		41.62	0.00	0.00	4.90	2.1	329.7		13.72	0.00	0.00	1.61		10.35	18.92	83.84	86.68	11-Aug-18 19:00:00		24.07	18.92	83.84	88.29
11-Aug-18 20:00:00	11-Aug-18 21:00:00		47.76	0.00	0.00	4.84	2.1	329.7		15.75	0.00	0.00	1.59		10.35	18.92	83.84	86.68	11-Aug-18 20:00:00		26.10	18.92	83.84	88.27
11-Aug-18 21:00:00	11-Aug-18 22:00:00		45.85	0.00	0.00	14.37	2.1	329.7		15.12	0.00	0.00	4.74		10.35	18.92	83.84	86.68	11-Aug-18 21:00:00		25.47	18.92	83.84	91.42
11-Aug-18 22:00:00	11-Aug-18 23:00:00		21.81	0.00	0.00	4.93	2.1	329.7		7.19	0.00	0.00	1.63		10.35	18.92	83.84	86.68	11-Aug-18 22:00:00		17.54	18.92	83.84	88.31
11-Aug-18 23:00:00	12-Aug-18 00:00:00		18.56	0.00	0.00	5.15	2.1	329.7		6.12	0.00	0.00	1.70		10.35	18.92	83.84	86.68	11-Aug-18 23:00:00		16.47	18.92	83.84	88.38
12-Aug-18 00:00:00	12-Aug-18 01:00:00		58.77	0.00	0.00	5.36	2.1	329.7		19.38	0.00	0.00	1.77		10.35	18.92	83.84	86.68	12-Aug-18 00:00:00		29.73	18.92	83.84	88.45
12-Aug-18 01:00:00	12-Aug-18 02:00:00		60.56	0.00	0.00	5.38	2.1	329.7		19.97	0.00	0.00	1.77		10.35	18.92	83.84	86.68	12-Aug-18 01:00:00		30.32	18.92	83.84	88.45
12-Aug-18 02:00:00	12-Aug-18 03:00:00		62.29	0.00	0.00	5.39	2.1	329.7		20.54	0.00	0.00	1.78		10.35	18.92	83.84	86.68	12-Aug-18 02:00:00		30.89	18.92	83.84	88.46
12-Aug-18 03:00:00	12-Aug-18 04:00:00		57.72	0.00	0.00	5.43	2.1	329.7		19.03	0.00	0.00	1.79		10.35	18.92	83.84	86.68	12-Aug-18 03:00:00		29.38	18.92	83.84	88.47
12-Aug-18 04:00:00	12-Aug-18 05:00:00		57.58	0.00	0.00	5.46	2.1	329.7		18.98	0.00	0.00	1.80		10.35	18.92	83.84	86.68	12-Aug-18 04:00:00		29.33	18.92	83.84	88.48
12-Aug-18 05:00:00	12-Aug-18 06:00:00		53.61	0.00	0.00	5.54	2.1	329.7		17.67	0.00	0.00	1.83		10.35	18.92	83.84	86.68	12-Aug-18 05:00:00		28.02	18.92	83.84	88.51
12-Aug-18 06:00:00	12-Aug-18 07:00:00		35.20	0.00	0.00	5.49	2.1	329.7		11.61	0.00	0.00	1.81		10.35	18.92	83.84	86.68	12-Aug-18 06:00:00		21.96	18.92	83.84	88.49
12-Aug-18 07:00:00	12-Aug-18 08:00:00		37.94	0.00	0.00	5.43	2.1	329.7		12.51	0.00	0.00	1.79		10.35	18.92	83.84	86.68	12-Aug-18 07:00:00		22.86	18.92	83.84	88.47
12-Aug-18 08:00:00	12-Aug-18 09:00:00		39.38	0.00	0.00	5.36	2.1	329.7		12.98	0.00	0.00	1.77		10.35	18.92	83.84	86.68	12-Aug-18 08:00:00		23.33	18.92	83.84	88.45
12-Aug-18 09:00:00	12-Aug-18 10:00:00		34.61	0.00	0.00	5.28	2.1	329.7		11.41	0.00	0.00	1.74		10.35	18.92	83.84	86.68	12-Aug-18 09:00:00		21.76	18.92	83.84	88.42
12-Aug-18 10:00:00	12-Aug-18 11:00:00		27.84	0.00	0.00	5.11	2.1	329.7		9.18	0.00	0.00	1.69		10.35	18.92	83.84	86.68	12-Aug-18 10:00:00		19.53	18.92	83.84	88.37
12-Aug-18 11:00:00	12-Aug-18 12:00:00		47.53	0.00	0.00	4.94	2.1	329.7		15.67	0.00	0.00	1.63		10.35	18.92	83.84	86.68	12-Aug-18 11:00:00		26.02	18.92	83.84	88.31
12-Aug-18 12:00:00	12-Aug-18 13:00:00		64.38	0.00	0.00	4.77	2.1	329.7		21.23	0.00	0.00	1.57		10.35	18.92	83.84	86.68	12-Aug-18 12:00:00		31.58	18.92	83.84	88.25
12-Aug-18 13:00:00	12-Aug-18 14:00:00		20.17	0.00	0.00	4.74	2.1	329.7		6.65	0.00	0.00	1.56		10.35	18.92	83.84	86.68	12-Aug-18 13:00:00		17.00	18.92	83.84	88.24
12-Aug-18 14:00:00	12-Aug-18 15:00:00		32.04	0.00	0.00	4.68	2.1	329.7		10.56	0.00	0.00	1.54		10.35	18.92	83.84	86.68	12-Aug-18 14:00:00		20.91	18.92	83.84	88.22
12-Aug-18 15:00:00	12-Aug-18 16:00:00		43.85	0.00	0.00	4.60	2.1	329.7		14.46	0.00	0.00	1.52		10.35	18.92	83.84	86.68	12-Aug-18 15:00:00		24.81	18.92	83.84	88.20
12-Aug-18 16:00:00	12-Aug-18 17:00:00		55.89	0.00	0.00	4.52	2.1	329.7		18.43	0.00	0.00	1.49		10.35	18.92	83.84	86.68	12-Aug-18 16:00:00		28.78	18.92	83.84	88.17
12-Aug-18 17:00:00	12-Aug-18 18:00:00		58.01	0.00	0.00	4.57	2.1	329.7		19.13	0.00	0.00	1.51		10.35	18.92	83.84	86.68	12-Aug-18 17:00:00		29.48	18.92	83.84	88.19
12-Aug-18 18:00:00	12-Aug-18 19:00:00		43.49	0.00	0.00	4.74	2.1	329.7		14.34	0.00	0.00	1.56		10.35	18.92	83.84	86.68	12-Aug-18 18:00:00		24.69	18.92	83.84	88.24
12-Aug-18 19:00:00	12-Aug-18 20:00:00		43.37	0.00	0.00	4.90	2.1	329.7		14.30	0.00	0.00	1.62		10.35	18.92	83.84	86.68	12-Aug-18 19:00:00		24.65	18.92	83.84	88.30
12-Aug-18 20:00:00	12-Aug-18 21:00:00		50.90	0.00	0.00	5.06	2.1	329.7		16.78	0.00	0.00	1.67		10.35	18.92	83.84	86.68	12-Aug-18 20:00:00		27.13	18.92	83.84	88.35
12-Aug-18 21:00:00	12-Aug-18 22:00:00		36.53	0.00	0.00	5.24	2.1	329.7		12.04	0.00	0.00	1.73		10.35	18.92	83.84	86.68	12-Aug-18 21:00:00		22.39	18.92	83.84	88.41
12-Aug-18 22:00:00	12-Aug-18 23:00:00		21.52	0.00	0.00	5.46	2.1	329.7		7.10	0.00	0.00	1.80		10.35	18.92	83.84	86.68	12-Aug-18 22:00:00		17.45	18.92	83.84	88.48
12-Aug-18 23:00:00	13-Aug-18 00:00:00		55.04	0.00	0.00	5.68	2.1	329.7		18.15	0.00	0.00	1.87		10.35	18.92	83.84	86.68	12-Aug-18 23:00:00		28.50	18.92	83.84	88.55
13-Aug-18 00:00:00	13-Aug-18 01:00:00		54.72	0.00	0.00	5.91	2.1	329.7		18.04	0.00	0.00	1.95		10.35	18.92	83.84	86.68	13-Aug-18 00:00:00		28.39	18.92	83.84	88.63
13-Aug-18 01:00:00	13-Aug-18 02:00:00		80.89	0.00	0.00	6.02	2.1	329.7		26.67	0.00	0.00	1.98		10.35	18.92	83.84	86.68	13-Aug-18 01:00:00		37.02	18.92	83.84	88.66
13-Aug-18 02:00:00	13-Aug-18 03:00:00		54.45	0.00	0.00	6.10	2.1	329.7		17.95	0.00	0.00	2.01		10.35	18.92	83.84	86.68	13-Aug-18 02:00:00		28.30	18.92	83.84	88.69
13-Aug-18 03:00:00	13-Aug-18 04:00:00		52.55	0.00	0.00	6.19	2.1	329.7		17.33	0.00	0.00	2.04		10.35	18.92	83.84	86.68	13-Aug-18 03:00:00		27.68	18.92	83.84	88.72
13-Aug-18 04:00:00	13-Aug-18 05:00:00		55.90	0.00	0.00	6.29	2.1	329.7		18.43	0.00	0.00	2.07		10.35	18.92	83.84	86.68	13-Aug-18 04:00:00		28.78	18.92	83.84	88.75
13-Aug-18 05:00:00	13-Aug-18 06:00:00		68.83	0.00	0.00	6.31	2.1	329.7		22.69	0.00	0.00	2.08		10.35	18.92	83.84	86.68	13-Aug-18 05:00:00		33.04	18.92	83.84	88.76
13-Aug-18 06:00:00	13-Aug-18 07:00:00		75.50	0.00	0.00	6.19	2.1	329.7		24.89	0.00	0.00	2.04		10.35	18.92	83.84	86.68	13-Aug-18 06:00:00		35.24	18.92	83.84	88.72
13-Aug-18 07:00:00	13-Aug-18 08:00:00		73.35	0.00	0.00	6.08	2.1	329.7		24.18	0.00	0.00	2.01		10.35	18.92	83.84	86.68	13-Aug-18 07:00:00		34.53	18.92	83.84	88.69
13-Aug-18 08:00:00	13-Aug-18 09:00:00		74.88	0.00	0.00	5.97	2.1	329.7		24.69	0.00	0.00	1.97		10.35	18.92	83.84	86.68	13-Aug-18 08:00:00		35.04	18.92	83.84	88.65
13-Aug-18 09:00:00	13-Aug-18 10:00:00		68.76	0.00	0.00	5.86

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
15-Aug-18 11:00:00	15-Aug-18 12:00:00		640.48	0.00	0.00	4.75	2.1	329.7		211.17	0.00	0.00	1.57		10.35	18.92	83.84	86.68	15-Aug-18 11:00:00		221.52	18.92	83.84	88.25
15-Aug-18 12:00:00	15-Aug-18 13:00:00		621.76	0.00	0.00	4.68	2.1	329.7		204.99	0.00	0.00	1.54		10.35	18.92	83.84	86.68	15-Aug-18 12:00:00		215.34	18.92	83.84	88.22
15-Aug-18 13:00:00	15-Aug-18 14:00:00		575.19	0.00	0.00	4.67	2.1	329.7		189.64	0.00	0.00	1.54		10.35	18.92	83.84	86.68	15-Aug-18 13:00:00		199.99	18.92	83.84	88.22
15-Aug-18 14:00:00	15-Aug-18 15:00:00		597.85	0.00	0.00	4.66	2.1	329.7		197.11	0.00	0.00	1.54		10.35	18.92	83.84	86.68	15-Aug-18 14:00:00		207.46	18.92	83.84	88.22
15-Aug-18 15:00:00	15-Aug-18 16:00:00		576.66	0.00	0.00	4.65	2.1	329.7		190.12	0.00	0.00	1.53		10.35	18.92	83.84	86.68	15-Aug-18 15:00:00		200.47	18.92	83.84	88.21
15-Aug-18 16:00:00	15-Aug-18 17:00:00		452.00	0.00	0.00	4.67	2.1	329.7		149.03	0.00	0.00	1.54		10.35	18.92	83.84	86.68	15-Aug-18 16:00:00		159.38	18.92	83.84	88.22
15-Aug-18 17:00:00	15-Aug-18 18:00:00		679.37	0.00	0.00	4.67	2.1	329.7		223.99	0.00	0.00	1.54		10.35	18.92	83.84	86.68	15-Aug-18 17:00:00		234.34	18.92	83.84	88.22
15-Aug-18 18:00:00	15-Aug-18 19:00:00		785.54	0.00	0.00	4.66	2.1	329.7		258.99	0.00	0.00	1.54		10.35	18.92	83.84	86.68	15-Aug-18 18:00:00		269.34	18.92	83.84	88.22
15-Aug-18 19:00:00	15-Aug-18 20:00:00		780.28	0.00	0.00	4.67	2.1	329.7		257.26	0.00	0.00	1.54		10.35	18.92	83.84	86.68	15-Aug-18 19:00:00		267.61	18.92	83.84	88.22
15-Aug-18 20:00:00	15-Aug-18 21:00:00		603.07	0.00	0.00	4.85	2.1	329.7		198.83	0.00	0.00	1.60		10.35	18.92	83.84	86.68	15-Aug-18 20:00:00		209.18	18.92	83.84	88.28
15-Aug-18 21:00:00	15-Aug-18 22:00:00		521.35	0.00	0.00	4.97	2.1	329.7		171.89	0.00	0.00	1.64		10.35	18.92	83.84	86.68	15-Aug-18 21:00:00		182.24	18.92	83.84	88.32
15-Aug-18 22:00:00	15-Aug-18 23:00:00		509.31	0.00	0.00	5.09	2.1	329.7		167.92	0.00	0.00	1.68		10.35	18.92	83.84	86.68	15-Aug-18 22:00:00		178.27	18.92	83.84	88.36
15-Aug-18 23:00:00	16-Aug-18 00:00:00		547.39	0.00	0.00	5.21	2.1	329.7		180.47	0.00	0.00	1.72		10.35	18.92	83.84	86.68	15-Aug-18 23:00:00		190.82	18.92	83.84	88.40
16-Aug-18 00:00:00	16-Aug-18 01:00:00		103.42	0.90	0.00	5.25	2.1	329.7		34.10	0.30	0.00	1.73		10.35	18.92	83.84	86.68	16-Aug-18 00:00:00		44.45	19.22	83.84	88.41
16-Aug-18 01:00:00	16-Aug-18 02:00:00		64.87	0.00	0.00	5.32	2.1	329.7		21.39	0.00	0.00	1.76		10.35	18.92	83.84	86.68	16-Aug-18 01:00:00		31.74	18.92	83.84	88.44
16-Aug-18 02:00:00	16-Aug-18 03:00:00		42.89	0.00	0.00	5.40	2.1	329.7		14.14	0.00	0.00	1.78		10.35	18.92	83.84	86.68	16-Aug-18 02:00:00		24.49	18.92	83.84	88.46
16-Aug-18 03:00:00	16-Aug-18 04:00:00		44.42	0.00	0.00	5.47	2.1	329.7		14.65	0.00	0.00	1.80		10.35	18.92	83.84	86.68	16-Aug-18 03:00:00		25.00	18.92	83.84	88.48
16-Aug-18 04:00:00	16-Aug-18 05:00:00		63.82	0.00	0.00	5.61	2.1	329.7		21.04	0.00	0.00	1.85		10.35	18.92	83.84	86.68	16-Aug-18 04:00:00		31.39	18.92	83.84	88.53
16-Aug-18 05:00:00	16-Aug-18 06:00:00		57.14	0.00	0.00	5.65	2.1	329.7		18.84	0.00	0.00	1.86		10.35	18.92	83.84	86.68	16-Aug-18 05:00:00		29.19	18.92	83.84	88.54
16-Aug-18 06:00:00	16-Aug-18 07:00:00		65.77	0.00	0.00	5.70	2.1	329.7		21.68	0.00	0.00	1.88		10.35	18.92	83.84	86.68	16-Aug-18 06:00:00		32.03	18.92	83.84	88.56
16-Aug-18 07:00:00	16-Aug-18 08:00:00		75.17	0.00	0.00	5.74	2.1	329.7		24.78	0.00	0.00	1.89		10.35	18.92	83.84	86.68	16-Aug-18 07:00:00		35.13	18.92	83.84	88.57
16-Aug-18 08:00:00	16-Aug-18 09:00:00		82.29	0.00	0.00	5.64	2.1	329.7		27.13	0.00	0.00	1.86		10.35	18.92	83.84	86.68	16-Aug-18 08:00:00		37.48	18.92	83.84	88.54
16-Aug-18 09:00:00	16-Aug-18 10:00:00		80.12	0.00	0.00	5.44	2.1	329.7		26.41	0.00	0.00	1.79		10.35	18.92	83.84	86.68	16-Aug-18 09:00:00		36.76	18.92	83.84	88.47
16-Aug-18 10:00:00	16-Aug-18 11:00:00		69.15	0.00	0.00	5.23	2.1	329.7		22.80	0.00	0.00	1.72		10.35	18.92	83.84	86.68	16-Aug-18 10:00:00		33.15	18.92	83.84	88.40
16-Aug-18 11:00:00	16-Aug-18 12:00:00		45.17	0.00	0.00	25.91	2.1	329.7		14.89	0.00	0.00	8.54		10.35	18.92	83.84	86.68	16-Aug-18 11:00:00		25.24	18.92	83.84	95.22
16-Aug-18 12:00:00	16-Aug-18 13:00:00		42.58	0.00	0.00	4.85	2.1	329.7		14.04	0.00	0.00	1.60		10.35	18.92	83.84	86.68	16-Aug-18 12:00:00		24.39	18.92	83.84	88.28
16-Aug-18 13:00:00	16-Aug-18 14:00:00		20.56	0.00	0.00	4.75	2.1	329.7		6.78	0.00	0.00	1.57		10.35	18.92	83.84	86.68	16-Aug-18 13:00:00		17.13	18.92	83.84	88.25
16-Aug-18 14:00:00	16-Aug-18 15:00:00		9.75	0.00	0.00	4.65	2.1	329.7		3.22	0.00	0.00	1.53		10.35	18.92	83.84	86.68	16-Aug-18 14:00:00		13.57	18.92	83.84	88.21
16-Aug-18 15:00:00	16-Aug-18 16:00:00		7.74	0.00	0.00	4.53	2.1	329.7		2.55	0.00	0.00	1.49		10.35	18.92	83.84	86.68	16-Aug-18 15:00:00		12.90	18.92	83.84	88.17
16-Aug-18 16:00:00	16-Aug-18 17:00:00		8.33	0.00	0.00	4.39	2.1	329.7		2.74	0.00	0.00	1.45		10.35	18.92	83.84	86.68	16-Aug-18 16:00:00		13.09	18.92	83.84	88.13
16-Aug-18 17:00:00	16-Aug-18 18:00:00		8.91	0.00	0.00	4.47	2.1	329.7		2.94	0.00	0.00	1.47		10.35	18.92	83.84	86.68	16-Aug-18 17:00:00		13.29	18.92	83.84	88.15
16-Aug-18 18:00:00	16-Aug-18 19:00:00		9.52	0.00	0.00	4.54	2.1	329.7		3.14	0.00	0.00	1.50		10.35	18.92	83.84	86.68	16-Aug-18 18:00:00		13.49	18.92	83.84	88.18
16-Aug-18 19:00:00	16-Aug-18 20:00:00		10.53	0.00	0.00	4.62	2.1	329.7		3.47	0.00	0.00	1.52		10.35	18.92	83.84	86.68	16-Aug-18 19:00:00		13.82	18.92	83.84	88.20
16-Aug-18 20:00:00	16-Aug-18 21:00:00		13.16	0.00	0.00	4.75	2.1	329.7		4.34	0.00	0.00	1.57		10.35	18.92	83.84	86.68	16-Aug-18 20:00:00		14.69	18.92	83.84	88.25
16-Aug-18 21:00:00	16-Aug-18 22:00:00		41.92	0.00	0.00	4.93	2.1	329.7		13.82	0.00	0.00	1.63		10.35	18.92	83.84	86.68	16-Aug-18 21:00:00		24.17	18.92	83.84	88.31
16-Aug-18 22:00:00	16-Aug-18 23:00:00		22.90	0.00	0.00	5.11	2.1	329.7		7.55	0.00	0.00	1.69		10.35	18.92	83.84	86.68	16-Aug-18 22:00:00		17.90	18.92	83.84	88.37
16-Aug-18 23:00:00	17-Aug-18 00:00:00		37.67	0.00	0.00	5.28	2.1	329.7		12.42	0.00	0.00	1.74		10.35	18.92	83.84	86.68	16-Aug-18 23:00:00		22.77	18.92	83.84	88.42
17-Aug-18 00:00:00	17-Aug-18 01:00:00		53.51	0.00	0.00	5.28	2.1	329.7		17.64	0.00	0.00	1.74		10.35	18.92	83.84	86.68	17-Aug-18 00:00:00		27.99	18.92	83.84	88.42
17-Aug-18 01:00:00	17-Aug-18 02:00:00		11.58	0.00	0.00	5.30	2.1	329.7		3.82	0.00	0.00	1.75		10.35	18.92	83.84	86.68	17-Aug-18 01:00:00		14.17	18.92	83.84	88.43
17-Aug-18 02:00:00	17-Aug-18 03:00:00		25.17	0.00	0.00	5.33	2.1	329.7		8.30	0.00	0.00	1.76		10.35	18.92	83.84	86.68	17-Aug-18 02:00:00		18.65	18.92	83.84	88.44
17-Aug-18 03:00:00	17-Aug-18 04:00:00		34.95	0.00	0.00	5.37	2.1	329.7		11.52	0.00	0.00	1.77		10.35	18.92	83.84	86.68	17-Aug-18 03:00:00		21.87	18.92	83.84	88.45
17-Aug-18 04:00:00	17-Aug-18 05:00:00		40.42	0.00	0.00	5.53	2.1	329.7		13.33	0.00	0.00	1.82		10.35	18.92	83.84	86.68	17-Aug-18 04:00:00		23.68	18.92	83.84	88.50
17-Aug-18 05:00:00	17-Aug-18 06:00:00		60.63	0.00	0.00	5.56	2.1	329.7		19.99	0.00	0.00	1.83		10.35	18.92	83.84	86.68	17-Aug-18 05:00:00		30.34	18.92	83.84	88.51
17-Aug-18 06:00:00	17-Aug-18 07:00:00		51.77	0.00	0.00	5.59	2.1	329.7		17.07	0.00	0.00	1.84		10.35	18.92	83.84	86.68	17-Aug-18 06:00:00		27.42	18.92	83.84	88.52
17-Aug-18 07:00:00	17-Aug-18 08:00:00		54.59	0.00	0.00	5.63	2.1	329.7		18.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	17-Aug-18 07:00:00		28.35	18.92	83.84	88.54
17-Aug-18 08:00:00	17-Aug-18 09:00:00		58.27	0.00	0.00	5.68	2.1	329.7		19.21	0.00	0.00	1.87		10.35	18.92	83.84	86.68	17-Aug-18 08:00:00		29.56	18.92	83.84	88.55
17-Aug-18 09:00:00	17-Aug-18 10:00:00		57.04	0.00	0.00	5.58	2.1	329.7		18.81	0.00	0.00	1.84		10.35	18.92	83.84	86.68	17-Aug-18 09:00:00		29.16	18.92	83.84	88.52
17-Aug-18 10:00:00	17-Aug-18 11:00:00		17.77	0.00	0.00	5.49	2.1	329.7		5.86	0.00	0.00	1.81		10.35	18.92	83.84	86.68	17-Aug-18 10:00:00		16.21	18.92	83.84	88.49
17-Aug-18 11:00:00	17-Aug-18 12:00:00		43.70	0.00	0.00	5.38	2.1	329.7		14.41	0.00	0.00	1.77		10.35	18.92	83.84	86.68	17-Aug-18 11:00:00		24.76	18.92	83.84	88.45
17-Aug-18 12:00:00	17-Aug-18 13:00:00		33.79	0.00	0.00	5.17	2.1	329.7		11.14	0.00	0.00	1.70		10.35	18.92	83.84	86.68	17-Aug-18 12:00:00		21.49	18.92	83.84	88.38
17-Aug-18 13:00:00	17-Aug-18 14:00:00		44.76	0.00	0.00	5.10	2.1	329.7		14.76	0.00	0.00	1.68		10.35	18.92	83.84	86.68	17-Aug-18 13:00:00		25.11	18.92	83.84	88.36
17-Aug-18 14:00:00	17-Aug-18 15:00:00		47.55	0.00	0.00	5.03	2.1	329.7		15.68	0.00	0.00	1.66		10.35	18.92	83.84	86.68	17-Aug-18 14:00:00		26.03	18.92	83.84	88.34
17-Aug-18 15:00:00	17-Aug-18 16:00:00		45.28	0.00	0.00	4.94	2.1	329.7		14.93	0.00	0.00	1.63		10.35	18.92	83.84	86.68	17-Aug-18 15:00:00		25.28	18.92	83.84	88.31
17-Aug-18 16:00:00	17-Aug-18 17:00:00		17.23	0.00	0.00	4.74	2.1	329.7		5.68	0.00	0.00	1.56		10.35	18.92	83.84	86.68	17-Aug-18 16:00:00		16.03	18.92	83.84	88.24
17-Aug-18 17:00:00	17-Aug-18 18:00:00		18.84	0.00	0.00	4.71	2.1	329.7		6.21	0.00	0.00	1.55		10.35	18.92	83.84	86.68	17-Aug-18 17:00:00		16.56	18.92	83.84	88.23
17-Aug-18 18:00:00	17-Aug-18 19:00:00		31.06	0.00	0.00	4.68	2.1	329.7		10.24	0.00	0.00	1.54		10.35	18.92	83.84	86.68	17-Aug-18 18:00:00		20.59	18.92	83.84	88.22
17-Aug-18 19:00:00	17-Aug-18 20:00:00		45.98	0.00	0.00	4.66	2.1	329.7		15.16	0.00	0.00	1.54		10.35	18.92	83.84	86.68	17-Aug-18 19:00:00		25.51	18.92	83.84	88.22
17-Aug-18 20:00:00	17-Aug-18 21:00:00		43.25	0.00	0.00	4.80	2.1	329.7		14.26	0.00	0.00	1.58		10.35	18.92	83.84	86.68	17-Aug-18 20:00:00		24.61	18.92	83.84	88.26
17-Aug-18 21:00:00	17-Aug-18 22:00:00		49.27	0.00	0.00	5.07	2.1	329.7		16.25	0.00	0.00	1.67		10.35	18.92	83.84	86.68	17-Aug-18 21:00:00		26.60	18.92	83.84	88.35
17-Aug-18 22:00:00	17-Aug-18 23:00:00		28.46	0.00	0.00	5.33	2.1	329.7		9.38	0.00	0.00	1.76		10.35	18.92	83.84	86.68	17-Aug-18 22:00:00		19.73	18.92	83.84	88.44
17-Aug-18 23:00:00	18-Aug-18 00:00:00		22.06	0.00	0.00	5.60	2.1	329.7		7.27	0.00	0.00	1.85		10.35	18.92	83.84	86.68	17-Aug-18 23:00:00		17.62	18.92	83.84	88.53
18-Aug-18 00:00:00	18-Aug-18 01:00:00		19.56	0.00	0.00	5.70	2.1	329.7		6.45	0.00	0.00	1.88		10.35	18.92	83.84	86.68	18-Aug-18 00:00:00		16.80	18.92	83.84	88.56
18-Aug-18 01:00:00	18-Aug-18 02:00:00		43.25	0.00	0.00	5.72	2.1	329.7		14.26	0.00	0.00	1.89		10.35	18.92	83.84	86.68	18-Aug-18 01:00:00		24.61	18.92	83.84	88.57
18-Aug-18 02:00:00	18-Aug-18 03:00:00		54.41	0.00	0.00	5.74	2.1	329.7		17.94	0.00	0.00	1.89		10.35	18.92	83.84	86.68	18-Aug-18 02:00:00		28.29	18.92	83.84	88.57
18-Aug-18 03:00:00	18-Aug-18 04:00:00		29.08	0.00	0.00	5.77	2.1	329.7		9.59	0.00	0.00	1.90		10.35	18.92	83.84	86.68	18-Aug-18 03:00:00		19.94	18.92	83.84	88.58
18-Aug-18 04:00:00	18-Aug-18 05:00:00		15.83	0.00	0.00	5.88	2.1	329.7		5.22	0.00	0.00	1.94		10.35	18.92	83.84	86.68	18-Aug-18 04:00:00		15.57	18.92	83.84	88.62
18-Aug-18 05:00:00	18-Aug-18 06:00:00		12.74	0.00	0.00	5.92	2.1	329.7		4.20	0.00	0.00	1.95		10.35	18.92	83.84	86.68	18-Aug-18 05:00:00		14.55	18.92	83.84	88.63
18-Aug-18 06:00:00	18-Aug-18 07:00:00		27.84	0.00	0.00	5.95	2.1	329.7		9.18	0.00	0.00	1.96		10.35	18.92	83.84	86.68	18-Aug-18 06:00:00		19.53	18.92	83.84	88.64
18-Aug-18 07:00:00	18-Aug-18 08:00:00		10.69	0.00	0.00	5.99	2.1	329.7		3.53	0.00	0.00	1.98		10.35	18.92	83.84	86.68	18-Aug-18 07:00:00		13.88	18.92	83.84	88.66
18-Aug-18 08:00:00	18-Aug-18 09:00:00		8.81	0.00	0.00	5.97	2.1	329.7		2.90	0.00	0.00	1.97		10.35	18.92	83.84	86.68	18-Aug-18 08:00:00		13.25	18.92	83.84	88.65
18-Aug-18 09:00:00	18-Aug-18 10:00:00		8.23	0.00	0.00	5.89	2.1	329.7		2.71	0.00	0.00	1.94		10.35	18.92	83.84	86.68	18-Aug-18 09:00:00		13.06	18.92	83.84	88.62
18-Aug-18 10:00:00	18-Aug-18 11:00:00		8.79	0.00	0.00	5.82	2.1	329.7		2.90	0.00	0.00	1.92		10.35	18.92	83.84	86.68	18-Aug-18 10:00:00		13.25	18.92	83.84	88.60
18-Aug-18 11:00:00	18-Aug-18 12:00:00		12.74	0.00	0.00	5.74	2.1	329.7		4.20	0.00	0.00	1.89		10.35	18.92	83.84	86.68	18-Aug-18 11:00:00		14.55	18.92	83.84	88.57
18-Aug-18 12:00:00	18-Aug-18 13:00:00		45.82	0.00	0.00	5.56	2.1	329.7		15.11	0.00	0.00	1.83		10.35	18.92	83.84	86.68	18-Aug-18 12:00:00		25.46	18.92	83.84	88.51
18-Aug-18 13:00:00	18-Aug-18 14:00:00		24.63	0.00	0.00	5.45	2.1	329.7		8.12	0.00	0.00	1.80		10.35	18.92	83.84	86.68	18-Aug-18 13:00:00		18.47	18.92	83.84	88.48
18-Aug-18 14:00:00	18-Aug-18 15:00:00		42.16	0.00	0.00	5.35	2.1	329.7		13.90	0.00	0.00	1.76		10.35	18.92	83.84	86.68	18-Aug-18 14:00:00		24.25	18.92	83.84	88.44
18-Aug-18 15:00:00	18-Aug-18 16:00:00		53.11	0.00	0.00	5.25	2.1	329.7		17.51	0.00	0.00	1.73		10.35	18.92	83.84	86.68	18-Aug-18 15:00:00		27.86	18.92	83.84	88.41
18-Aug-18 16:00:00	18-Aug-18 17:00:00		23.95	0.00	0.00	5.12	2.1	329.7		7.90	0.00	0.00	1.69		10.35	18.92	83.84	86.68	18-Aug-18 16:00:00		18.25	18.92	83.84	88.37
18-Aug-18 17:00:00	18-Aug-18 18:00:00		33.67	0.00	0.00	5.01	2.1	329.7		11.10	0.00	0.00	1.65		10.35	18.92	83.84	86.68	18-Aug-18 17:00:00		21.45	18.92	83.84	88.33
18-Aug-18 18:00:00	18-Aug-18 19:00:00		37.38	0.00	0.00	4.89	2.1	329.7		12.33	0.00	0.00	1.61		10.35	18.92	83.84	86.68	18-Aug-18 18:00:00		22.68	18.92	83.84	88.29
18-Aug-18 19:00:00	18-Aug-18 20:00:00		27.53	0.00	0.00	4.78	2.1	329.7		9.08	0.00	0.00	1.58		10.35	18.92	83.84	86.68	18-Aug-18 19:00:00		19.43	18.92	83.84	88.26
18-Aug-18 20:00:00	18-Aug-18 21:00:00		39.27	0.00	0.00	4.98	2.1	329.7		12.95	0.00	0.00	1.64		10.35	18.92	83.84	86.68	18-Aug-18 20:00:00		23.30	18.92	83.84	88.32
18-Aug-18 21:00:00	18-Aug-18 22:00:00		31.33	0.00	0.00	358.97	2.1	329.7		10.33	0.00	0.00	118.35		10.35	18.92	83.84	86.68	18-Aug-18 21:00:00		20.68	18.92	83.84	205.03
18-Aug-18 22:00:00	18-Aug-18 23:00:00		28.96	0.00	0.00	93.53	2.1	329.7		9.55	0.00	0.00	30.84		10.35	18.92	83.84	86.68	18-Aug-18 22:00:00		19.90	18.92	83.84	117.52
18-Aug-18 23:00:00	19-Aug-18 00:00:00		82.18	0.00	0.00	6.15	2.1	329.7		27.10	0.00	0.00	2.03		10.35	18.92	83.84	86.68	18-Aug-18 23:00:00		37.45	18.92	83.84	88.71
19-Aug-18 00:00:00	19-Aug-18 01:00:00		64.98	0.00	0.00	6.02	2.1	329.7		21.42	0.00	0.00	1.98		10.35	18.92	83.84	86.68	19-Aug-18 00:00:00		31.77	18.92	83.84	88.66
19-Aug-18 01:00:00	19-Aug-18 02:00:00		20.17	0.00	0.00	5.89	2.1	329.7		6.65	0.00	0.00	1.94		10.35	18.92	83.84	86.68	19-Aug-18 01:00:00		17.00	18.92	83.84	88.62
19-Aug-18 02:00:00	19-Aug-18 03:00:00		23.29	0.00	0.00	5.84	2.1	329.7		7.68	0.00	0.00	1.92		10.35	18.92	83.84	86.68	19-Aug-18 02:00:00		18.03	18.92	83.84	88.60
19-Aug-18 03:00:00	19-Aug-18 04:00:00		11.59	0.00	0.00	5.84	2.1	329.7		3.82	0.00	0.00	1.93		10.35	18.92	83.84	86.68	19-Aug-18 03:00:00		14.17	18.92	83.84	88.61
19-Aug-18 04:00:00	19-Aug-18 05:00:00		11.53	0.00	0.00	5.84	2.1	329.7		3.80	0.00	0.00	1.92		10.35	18.92	83.84	86.68	19-Aug-18 04:00:00		14.15	18.92	83.84	88.60
19-Aug-18 05:00:00	19-Aug-18 06:00:00		11.46	0.00	0.00	5.84	2.1	329.7		3.78	0.00	0.00	1.92		10.35	18.92	83.84	86.68	19-Aug-18 05:00:00		14.13	18.92	83.84	88.60
19-Aug-18 06:00:00	19-Aug-18 07:00:00		11.13	0.00	0.00	5.84	2.1	329.7		3.67	0.00	0.00	1.93		10.35	18.92	83.84	86.68	19-Aug-18 06:00:00		14.02	18.92	83.84	88.61
19-Aug-18 07:00:00	19-Aug-18 08:00:00		10.47	0.00	0.00	5.75	2.1	329.7		3.45	0.00	0.00	1.90		10.35	18.92	83.84	86.68	19-Aug-18 07:00:00		13.80	18.92	83.84	88.58
19-Aug-18 08:00:00	19-Aug-18 09:00:00		10.31	0.00	0.00	5.65

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
21-Aug-18 10:00:00	21-Aug-18 11:00:00		14.20	0.00	0.00	5.72	2.1	329.7		4.68	0.00	0.00	1.88		10.35	18.92	83.84	86.68	21-Aug-18 10:00:00		**15.03**	**18.92**	**83.84**	**88.56**
21-Aug-18 11:00:00	21-Aug-18 12:00:00		13.06	0.00	0.00	5.68	2.1	329.7		4.30	0.00	0.00	1.87		10.35	18.92	83.84	86.68	21-Aug-18 11:00:00		**14.65**	**18.92**	**83.84**	**88.55**
21-Aug-18 12:00:00	21-Aug-18 13:00:00		14.04	0.00	0.00	5.65	2.1	329.7		4.63	0.00	0.00	1.86		10.35	18.92	83.84	86.68	21-Aug-18 12:00:00		**14.98**	**18.92**	**83.84**	**88.54**
21-Aug-18 13:00:00	21-Aug-18 14:00:00		10.09	0.00	0.00	5.53	2.1	329.7		3.33	0.00	0.00	1.82		10.35	18.92	83.84	86.68	21-Aug-18 13:00:00		**13.68**	**18.92**	**83.84**	**88.50**
21-Aug-18 14:00:00	21-Aug-18 15:00:00		29.67	0.00	0.00	5.39	2.1	329.7		9.78	0.00	0.00	1.78		10.35	18.92	83.84	86.68	21-Aug-18 14:00:00		**20.13**	**18.92**	**83.84**	**88.46**
21-Aug-18 15:00:00	21-Aug-18 16:00:00		22.24	0.00	0.00	5.26	2.1	329.7		7.33	0.00	0.00	1.73		10.35	18.92	83.84	86.68	21-Aug-18 15:00:00		**17.68**	**18.92**	**83.84**	**88.41**
21-Aug-18 16:00:00	21-Aug-18 17:00:00		18.00	0.00	0.00	5.15	2.1	329.7		5.94	0.00	0.00	1.70		10.35	18.92	83.84	86.68	21-Aug-18 16:00:00		**16.29**	**18.92**	**83.84**	**88.38**
21-Aug-18 17:00:00	21-Aug-18 18:00:00		20.10	0.00	0.00	5.02	2.1	329.7		6.63	0.00	0.00	1.66		10.35	18.92	83.84	86.68	21-Aug-18 17:00:00		**16.98**	**18.92**	**83.84**	**88.34**
21-Aug-18 18:00:00	21-Aug-18 19:00:00		20.14	0.00	0.00	4.89	2.1	329.7		6.64	0.00	0.00	1.61		10.35	18.92	83.84	86.68	21-Aug-18 18:00:00		**16.99**	**18.92**	**83.84**	**88.29**
21-Aug-18 19:00:00	21-Aug-18 20:00:00		21.30	0.00	0.00	4.76	2.1	329.7		7.02	0.00	0.00	1.57		10.35	18.92	83.84	86.68	21-Aug-18 19:00:00		**17.37**	**18.92**	**83.84**	**88.25**
21-Aug-18 20:00:00	21-Aug-18 21:00:00		20.69	0.00	0.00	394.33	2.1	329.7		6.82	0.00	0.00	130.01		10.35	18.92	83.84	86.68	21-Aug-18 20:00:00		**17.17**	**18.92**	**83.84**	**216.69**
21-Aug-18 21:00:00	21-Aug-18 22:00:00		26.60	0.00	0.00	6.20	2.1	329.7		8.77	0.00	0.00	2.04		10.35	18.92	83.84	86.68	21-Aug-18 21:00:00		**19.12**	**18.92**	**83.84**	**88.72**
21-Aug-18 22:00:00	21-Aug-18 23:00:00		39.02	0.00	0.00	6.05	2.1	329.7		12.87	0.00	0.00	2.00		10.35	18.92	83.84	86.68	21-Aug-18 22:00:00		**23.22**	**18.92**	**83.84**	**88.68**
21-Aug-18 23:00:00	22-Aug-18 00:00:00		41.35	0.00	0.00	5.91	2.1	329.7		13.63	0.00	0.00	1.95		10.35	18.92	83.84	86.68	21-Aug-18 23:00:00		**23.98**	**18.92**	**83.84**	**88.63**
22-Aug-18 00:00:00	22-Aug-18 01:00:00		40.41	0.00	0.00	5.75	2.1	329.7		13.32	0.00	0.00	1.90		10.35	18.92	83.84	86.68	22-Aug-18 00:00:00		**23.67**	**18.92**	**83.84**	**88.58**
22-Aug-18 01:00:00	22-Aug-18 02:00:00		40.09	0.00	0.00	5.67	2.1	329.7		13.22	0.00	0.00	1.87		10.35	18.92	83.84	86.68	22-Aug-18 01:00:00		**23.57**	**18.92**	**83.84**	**88.55**
22-Aug-18 02:00:00	22-Aug-18 03:00:00		42.73	0.00	0.00	5.70	2.1	329.7		14.09	0.00	0.00	1.88		10.35	18.92	83.84	86.68	22-Aug-18 02:00:00		**24.44**	**18.92**	**83.84**	**88.56**
22-Aug-18 03:00:00	22-Aug-18 04:00:00		40.20	0.00	0.00	5.72	2.1	329.7		13.25	0.00	0.00	1.89		10.35	18.92	83.84	86.68	22-Aug-18 03:00:00		**23.60**	**18.92**	**83.84**	**88.57**
22-Aug-18 04:00:00	22-Aug-18 05:00:00		42.92	0.00	0.00	5.73	2.1	329.7		14.15	0.00	0.00	1.89		10.35	18.92	83.84	86.68	22-Aug-18 04:00:00		**24.50**	**18.92**	**83.84**	**88.57**
22-Aug-18 05:00:00	22-Aug-18 06:00:00		36.03	0.00	0.00	5.73	2.1	329.7		11.88	0.00	0.00	1.89		10.35	18.92	83.84	86.68	22-Aug-18 05:00:00		**22.23**	**18.92**	**83.84**	**88.57**
22-Aug-18 06:00:00	22-Aug-18 07:00:00		32.33	0.00	0.00	5.78	2.1	329.7		10.66	0.00	0.00	1.91		10.35	18.92	83.84	86.68	22-Aug-18 06:00:00		**21.01**	**18.92**	**83.84**	**88.59**
22-Aug-18 07:00:00	22-Aug-18 08:00:00		28.90	0.00	0.00	5.83	2.1	329.7		9.53	0.00	0.00	1.92		10.35	18.92	83.84	86.68	22-Aug-18 07:00:00		**19.88**	**18.92**	**83.84**	**88.60**
22-Aug-18 08:00:00	22-Aug-18 09:00:00		33.09	0.00	0.00	5.92	2.1	329.7		10.91	0.00	0.00	1.95		10.35	18.92	83.84	86.68	22-Aug-18 08:00:00		**21.26**	**18.92**	**83.84**	**88.63**
22-Aug-18 09:00:00	22-Aug-18 10:00:00		31.43	0.00	0.00	5.88	2.1	329.7		10.36	0.00	0.00	1.94		10.35	18.92	83.84	86.68	22-Aug-18 09:00:00		**20.71**	**18.92**	**83.84**	**88.62**
22-Aug-18 10:00:00	22-Aug-18 11:00:00		33.90	0.00	0.00	5.52	2.1	329.7		11.18	0.00	0.00	1.82		10.35	18.92	83.84	86.68	22-Aug-18 10:00:00		**21.53**	**18.92**	**83.84**	**88.50**
22-Aug-18 11:00:00	22-Aug-18 12:00:00		48.56	0.00	0.00	5.17	2.1	329.7		16.01	0.00	0.00	1.70		10.35	18.92	83.84	86.68	22-Aug-18 11:00:00		**26.36**	**18.92**	**83.84**	**88.38**
22-Aug-18 12:00:00	22-Aug-18 13:00:00		59.69	0.00	0.00	4.85	2.1	329.7		19.68	0.00	0.00	1.60		10.35	18.92	83.84	86.68	22-Aug-18 12:00:00		**30.03**	**18.92**	**83.84**	**88.28**
22-Aug-18 13:00:00	22-Aug-18 14:00:00		21.97	0.00	0.00	4.81	2.1	329.7		7.24	0.00	0.00	1.59		10.35	18.92	83.84	86.68	22-Aug-18 13:00:00		**17.59**	**18.92**	**83.84**	**88.27**
22-Aug-18 14:00:00	22-Aug-18 15:00:00		14.95	0.00	0.00	4.79	2.1	329.7		4.93	0.00	0.00	1.58		10.35	18.92	83.84	86.68	22-Aug-18 14:00:00		**15.28**	**18.92**	**83.84**	**88.26**
22-Aug-18 15:00:00	22-Aug-18 16:00:00		23.52	0.00	0.00	4.77	2.1	329.7		7.76	0.00	0.00	1.57		10.35	18.92	83.84	86.68	22-Aug-18 15:00:00		**18.11**	**18.92**	**83.84**	**88.25**
22-Aug-18 16:00:00	22-Aug-18 17:00:00		2.36	0.00	0.00	4.73	2.1	329.7		0.78	0.00	0.00	1.56		10.35	18.92	83.84	86.68	22-Aug-18 16:00:00		**11.13**	**18.92**	**83.84**	**88.24**
22-Aug-18 17:00:00	22-Aug-18 18:00:00		2.99	0.00	0.00	4.65	2.1	329.7		0.99	0.00	0.00	1.53		10.35	18.92	83.84	86.68	22-Aug-18 17:00:00		**11.34**	**18.92**	**83.84**	**88.21**
22-Aug-18 18:00:00	22-Aug-18 19:00:00		27.84	0.00	0.00	4.67	2.1	329.7		9.18	0.00	0.00	1.54		10.35	18.92	83.84	86.68	22-Aug-18 18:00:00		**19.53**	**18.92**	**83.84**	**88.22**
22-Aug-18 19:00:00	22-Aug-18 20:00:00		29.02	0.00	0.00	4.68	2.1	329.7		9.57	0.00	0.00	1.54		10.35	18.92	83.84	86.68	22-Aug-18 19:00:00		**19.92**	**18.92**	**83.84**	**88.22**
22-Aug-18 20:00:00	22-Aug-18 21:00:00		30.16	0.00	0.00	4.70	2.1	329.7		9.94	0.00	0.00	1.55		10.35	18.92	83.84	86.68	22-Aug-18 20:00:00		**20.29**	**18.92**	**83.84**	**88.23**
22-Aug-18 21:00:00	22-Aug-18 22:00:00		28.62	0.00	0.00	4.77	2.1	329.7		9.44	0.00	0.00	1.57		10.35	18.92	83.84	86.68	22-Aug-18 21:00:00		**19.79**	**18.92**	**83.84**	**88.25**
22-Aug-18 22:00:00	22-Aug-18 23:00:00		27.97	0.00	0.00	4.85	2.1	329.7		9.22	0.00	0.00	1.60		10.35	18.92	83.84	86.68	22-Aug-18 22:00:00		**19.57**	**18.92**	**83.84**	**88.28**
22-Aug-18 23:00:00	23-Aug-18 00:00:00		20.74	0.00	0.00	4.93	2.1	329.7		6.84	0.00	0.00	1.62		10.35	18.92	83.84	86.68	22-Aug-18 23:00:00		**17.19**	**18.92**	**83.84**	**88.30**
23-Aug-18 00:00:00	23-Aug-18 01:00:00		11.49	0.00	0.00	5.02	2.1	329.7		3.79	0.00	0.00	1.65		10.35	18.92	83.84	86.68	23-Aug-18 00:00:00		**14.14**	**18.92**	**83.84**	**88.33**
23-Aug-18 01:00:00	23-Aug-18 02:00:00		7.73	0.00	0.00	5.21	2.1	329.7		2.55	0.00	0.00	1.72		10.35	18.92	83.84	86.68	23-Aug-18 01:00:00		**12.90**	**18.92**	**83.84**	**88.40**
23-Aug-18 02:00:00	23-Aug-18 03:00:00		27.16	0.00	0.00	5.41	2.1	329.7		8.96	0.00	0.00	1.78		10.35	18.92	83.84	86.68	23-Aug-18 02:00:00		**19.31**	**18.92**	**83.84**	**88.46**
23-Aug-18 03:00:00	23-Aug-18 04:00:00		35.50	0.00	0.00	5.61	2.1	329.7		11.70	0.00	0.00	1.85		10.35	18.92	83.84	86.68	23-Aug-18 03:00:00		**22.05**	**18.92**	**83.84**	**88.53**
23-Aug-18 04:00:00	23-Aug-18 05:00:00		18.29	0.00	0.00	5.80	2.1	329.7		6.03	0.00	0.00	1.91		10.35	18.92	83.84	86.68	23-Aug-18 04:00:00		**16.38**	**18.92**	**83.84**	**88.59**
23-Aug-18 05:00:00	23-Aug-18 06:00:00		31.58	0.00	0.00	5.94	2.1	329.7		10.41	0.00	0.00	1.96		10.35	18.92	83.84	86.68	23-Aug-18 05:00:00		**20.76**	**18.92**	**83.84**	**88.64**
23-Aug-18 06:00:00	23-Aug-18 07:00:00		30.78	0.00	0.00	6.02	2.1	329.7		10.15	0.00	0.00	1.98		10.35	18.92	83.84	86.68	23-Aug-18 06:00:00		**20.50**	**18.92**	**83.84**	**88.66**
23-Aug-18 07:00:00	23-Aug-18 08:00:00		35.15	0.00	0.00	6.10	2.1	329.7		11.59	0.00	0.00	2.01		10.35	18.92	83.84	86.68	23-Aug-18 07:00:00		**21.94**	**18.92**	**83.84**	**88.69**
23-Aug-18 08:00:00	23-Aug-18 09:00:00		48.34	0.00	0.00	6.18	2.1	329.7		15.94	0.00	0.00	2.04		10.35	18.92	83.84	86.68	23-Aug-18 08:00:00		**26.29**	**18.92**	**83.84**	**88.72**
23-Aug-18 09:00:00	23-Aug-18 10:00:00		75.62	0.00	0.00	6.11	2.1	329.7		24.93	0.00	0.00	2.02		10.35	18.92	83.84	86.68	23-Aug-18 09:00:00		**35.28**	**18.92**	**83.84**	**88.70**
23-Aug-18 10:00:00	23-Aug-18 11:00:00		73.30	0.00	0.00	5.85	2.1	329.7		24.17	0.00	0.00	1.93		10.35	18.92	83.84	86.68	23-Aug-18 10:00:00		**34.52**	**18.92**	**83.84**	**88.61**
23-Aug-18 11:00:00	23-Aug-18 12:00:00		67.24	0.00	0.00	5.59	2.1	329.7		22.17	0.00	0.00	1.84		10.35	18.92	83.84	86.68	23-Aug-18 11:00:00		**32.52**	**18.92**	**83.84**	**88.52**
23-Aug-18 12:00:00	23-Aug-18 13:00:00		65.77	0.00	0.00	5.32	2.1	329.7		21.68	0.00	0.00	1.75		10.35	18.92	83.84	86.68	23-Aug-18 12:00:00		**32.03**	**18.92**	**83.84**	**88.43**
23-Aug-18 13:00:00	23-Aug-18 14:00:00		64.48	0.00	0.00	5.10	2.1	329.7		21.26	0.00	0.00	1.68		10.35	18.92	83.84	86.68	23-Aug-18 13:00:00		**31.61**	**18.92**	**83.84**	**88.36**
23-Aug-18 14:00:00	23-Aug-18 15:00:00		53.92	0.00	0.00	5.01	2.1	329.7		17.78	0.00	0.00	1.65		10.35	18.92	83.84	86.68	23-Aug-18 14:00:00		**28.13**	**18.92**	**83.84**	**88.33**
23-Aug-18 15:00:00	23-Aug-18 16:00:00		63.65	0.00	0.00	4.93	2.1	329.7		20.99	0.00	0.00	1.62		10.35	18.92	83.84	86.68	23-Aug-18 15:00:00		**31.34**	**18.92**	**83.84**	**88.30**
23-Aug-18 16:00:00	23-Aug-18 17:00:00		14.95	0.00	0.00	4.84	2.1	329.7		4.93	0.00	0.00	1.60		10.35	18.92	83.84	86.68	23-Aug-18 16:00:00		**15.28**	**18.92**	**83.84**	**88.28**
23-Aug-18 17:00:00	23-Aug-18 18:00:00		15.11	0.00	0.00	4.93	2.1	329.7		4.98	0.00	0.00	1.63		10.35	18.92	83.84	86.68	23-Aug-18 17:00:00		**15.33**	**18.92**	**83.84**	**88.31**
23-Aug-18 18:00:00	23-Aug-18 19:00:00		16.14	0.00	0.00	5.15	2.1	329.7		5.32	0.00	0.00	1.70		10.35	18.92	83.84	86.68	23-Aug-18 18:00:00		**15.67**	**18.92**	**83.84**	**88.38**
23-Aug-18 19:00:00	23-Aug-18 20:00:00		15.64	0.00	0.00	5.36	2.1	329.7		5.16	0.00	0.00	1.77		10.35	18.92	83.84	86.68	23-Aug-18 19:00:00		**15.51**	**18.92**	**83.84**	**88.45**
23-Aug-18 20:00:00	23-Aug-18 21:00:00		13.12	0.00	0.00	5.55	2.1	329.7		4.33	0.00	0.00	1.83		10.35	18.92	83.84	86.68	23-Aug-18 20:00:00		**14.68**	**18.92**	**83.84**	**88.51**
23-Aug-18 21:00:00	23-Aug-18 22:00:00		31.52	0.00	0.00	5.60	2.1	329.7		10.39	0.00	0.00	1.85		10.35	18.92	83.84	86.68	23-Aug-18 21:00:00		**20.74**	**18.92**	**83.84**	**88.53**
23-Aug-18 22:00:00	23-Aug-18 23:00:00		64.44	0.00	0.00	5.81	2.1	329.7		21.25	0.00	0.00	1.91		10.35	18.92	83.84	86.68	23-Aug-18 22:00:00		**31.60**	**18.92**	**83.84**	**88.59**
23-Aug-18 23:00:00	24-Aug-18 00:00:00		73.73	0.00	0.00	6.02	2.1	329.7		24.31	0.00	0.00	1.98		10.35	18.92	83.84	86.68	23-Aug-18 23:00:00		**34.66**	**18.92**	**83.84**	**88.66**
24-Aug-18 00:00:00	24-Aug-18 01:00:00		78.98	0.00	0.00	6.22	2.1	329.7		26.04	0.00	0.00	2.05		10.35	18.92	83.84	86.68	24-Aug-18 00:00:00		**36.39**	**18.92**	**83.84**	**88.73**
24-Aug-18 01:00:00	24-Aug-18 02:00:00		53.58	0.00	0.00	6.31	2.1	329.7		17.67	0.00	0.00	2.08		10.35	18.92	83.84	86.68	24-Aug-18 01:00:00		**28.02**	**18.92**	**83.84**	**88.76**
24-Aug-18 02:00:00	24-Aug-18 03:00:00		40.47	0.00	0.00	6.39	2.1	329.7		13.34	0.00	0.00	2.11		10.35	18.92	83.84	86.68	24-Aug-18 02:00:00		**23.69**	**18.92**	**83.84**	**88.79**
24-Aug-18 03:00:00	24-Aug-18 04:00:00		40.06	0.00	0.00	6.46	2.1	329.7		13.21	0.00	0.00	2.13		10.35	18.92	83.84	86.68	24-Aug-18 03:00:00		**23.56**	**18.92**	**83.84**	**88.81**
24-Aug-18 04:00:00	24-Aug-18 05:00:00		36.85	0.00	0.00	6.53	2.1	329.7		12.15	0.00	0.00	2.15		10.35	18.92	83.84	86.68	24-Aug-18 04:00:00		**22.50**	**18.92**	**83.84**	**88.83**
24-Aug-18 05:00:00	24-Aug-18 06:00:00		0.46	0.00	0.00	6.53	2.1	329.7		0.15	0.00	0.00	2.15		10.35	18.92	83.84	86.68	24-Aug-18 05:00:00		**10.50**	**18.92**	**83.84**	**88.83**
24-Aug-18 06:00:00	24-Aug-18 07:00:00		12.03	0.00	0.00	6.54	2.1	329.7		3.97	0.00	0.00	2.16		10.35	18.92	83.84	86.68	24-Aug-18 06:00:00		**14.32**	**18.92**	**83.84**	**88.84**
24-Aug-18 07:00:00	24-Aug-18 08:00:00		38.73	0.00	0.00	6.55	2.1	329.7		12.77	0.00	0.00	2.16		10.35	18.92	83.84	86.68	24-Aug-18 07:00:00		**23.12**	**18.92**	**83.84**	**88.84**
24-Aug-18 08:00:00	24-Aug-18 09:00:00		24.02	0.00	0.00	6.56	2.1	329.7		7.92	0.00	0.00	2.16		10.35	18.92	83.84	86.68	24-Aug-18 08:00:00		**18.27**	**18.92**	**83.84**	**88.84**
24-Aug-18 09:00:00	24-Aug-18 10:00:00		26.18	0.00	0.00	6.40	2.1	329.7		8.63	0.00	0.00	2.11		10.35	18.92	83.84	86.68	24-Aug-18 09:00:00		**18.98**	**18.92**	**83.84**	**88.79**
24-Aug-18 10:00:00	24-Aug-18 11:00:00		19.08	0.00	0.00	6.04	2.1	329.7		6.29	0.00	0.00	1.99		10.35	18.92	83.84	86.68	24-Aug-18 10:00:00		**16.64**	**18.92**	**83.84**	**88.67**
24-Aug-18 11:00:00	24-Aug-18 12:00:00		22.48	0.00	0.00	5.69	2.1	329.7		7.41	0.00	0.00	1.88		10.35	18.92	83.84	86.68	24-Aug-18 11:00:00		**17.76**	**18.92**	**83.84**	**88.56**
24-Aug-18 12:00:00	24-Aug-18 13:00:00		25.39	0.00	0.00	5.36	2.1	329.7		8.37	0.00	0.00	1.77		10.35	18.92	83.84	86.68	24-Aug-18 12:00:00		**18.72**	**18.92**	**83.84**	**88.45**
24-Aug-18 13:00:00	24-Aug-18 14:00:00		46.09	0.00	0.00	5.25	2.1	329.7		15.20	0.00	0.00	1.73		10.35	18.92	83.84	86.68	24-Aug-18 13:00:00		**25.55**	**18.92**	**83.84**	**88.41**
24-Aug-18 14:00:00	24-Aug-18 15:00:00		46.05	0.00	0.00	5.15	2.1	329.7		15.18	0.00	0.00	1.70		10.35	18.92	83.84	86.68	24-Aug-18 14:00:00		**25.53**	**18.92**	**83.84**	**88.38**
24-Aug-18 15:00:00	24-Aug-18 16:00:00		33.89	0.00	0.00	5.05	2.1	329.7		11.17	0.00	0.00	1.66		10.35	18.92	83.84	86.68	24-Aug-18 15:00:00		**21.52**	**18.92**	**83.84**	**88.34**
24-Aug-18 16:00:00	24-Aug-18 17:00:00		40.60	0.00	0.00	4.95	2.1	329.7		13.39	0.00	0.00	1.63		10.35	18.92	83.84	86.68	24-Aug-18 16:00:00		**23.74**	**18.92**	**83.84**	**88.31**
24-Aug-18 17:00:00	24-Aug-18 18:00:00		43.92	0.00	0.00	5.04	2.1	329.7		14.48	0.00	0.00	1.66		10.35	18.92	83.84	86.68	24-Aug-18 17:00:00		**24.83**	**18.92**	**83.84**	**88.34**
24-Aug-18 18:00:00	24-Aug-18 19:00:00		41.93	0.00	0.00	5.12	2.1	329.7		13.82	0.00	0.00	1.69		10.35	18.92	83.84	86.68	24-Aug-18 18:00:00		**24.17**	**18.92**	**83.84**	**88.37**
24-Aug-18 19:00:00	24-Aug-18 20:00:00		46.79	0.00	0.00	5.21	2.1	329.7		15.43	0.00	0.00	1.72		10.35	18.92	83.84	86.68	24-Aug-18 19:00:00		**25.78**	**18.92**	**83.84**	**88.40**
24-Aug-18 20:00:00	24-Aug-18 21:00:00		47.51	0.00	0.00	5.30	2.1	329.7		15.66	0.00	0.00	1.75		10.35	18.92	83.84	86.68	24-Aug-18 20:00:00		**26.01**	**18.92**	**83.84**	**88.43**
24-Aug-18 21:00:00	24-Aug-18 22:00:00		52.58	0.00	0.00	5.39	2.1	329.7		17.33	0.00	0.00	1.78		10.35	18.92	83.84	86.68	24-Aug-18 21:00:00		**27.68**	**18.92**	**83.84**	**88.46**
24-Aug-18 22:00:00	24-Aug-18 23:00:00		61.32	0.00	0.00	5.53	2.1	329.7		20.22	0.00	0.00	1.82		10.35	18.92	83.84	86.68	24-Aug-18 22:00:00		**30.57**	**18.92**	**83.84**	**88.50**
24-Aug-18 23:00:00	25-Aug-18 00:00:00		31.93	0.00	0.00	5.67	2.1	329.7		10.53	0.00	0.00	1.87		10.35	18.92	83.84	86.68	24-Aug-18 23:00:00		**20.88**	**18.92**	**83.84**	**88.55**
25-Aug-18 00:00:00	25-Aug-18 01:00:00		54.34	0.00	0.00	5.82	2.1	329.7		17.92	0.00	0.00	1.92		10.35	18.92	83.84	86.68	25-Aug-18 00:00:00		**28.27**	**18.92**	**83.84**	**88.60**
25-Aug-18 01:00:00	25-Aug-18 02:00:00		33.62	0.00	0.00	5.89	2.1	329.7		11.08	0.00	0.00	1.94		10.35	18.92	83.84	86.68	25-Aug-18 01:00:00		**21.43**	**18.92**	**83.84**	**88.62**
25-Aug-18 02:00:00	25-Aug-18 03:00:00		35.38	0.00	0.00	5.93	2.1	329.7		11.66	0.00	0.00	1.96		10.35	18.92	83.84	86.68	25-Aug-18 02:00:00		**22.01**	**18.92**	**83.84**	**88.64**
25-Aug-18 03:00:00	25-Aug-18 04:00:00		7.23	0.00	0.00	5.97	2.1	329.7		2.38	0.00	0.00	1.97		10.35	18.92	83.84	86.68	25-Aug-18 03:00:00		**12.73**	**18.92**	**83.84**	**88.65**
25-Aug-18 04:00:00	25-Aug-18 05:00:00		11.05	0.00	0.00	6.02	2.1	329.7		3.64	0.00	0.00	1.98		10.35	18.92	83.84	86.68	25-Aug-18 04:00:00		**13.99**	**18.92**	**83.84**	**88.66**
25-Aug-18 05:00:00	25-Aug-18 06:00:00		11.37	0.00	0.00	6.07	2.1	329.7		3.75	0.00	0.00	2.00		10.35	18.92	83.84	86.68	25-Aug-18 05:00:00		**14.10**	**18.92**	**83.84**	**88.68**
25-Aug-18 06:00:00	25-Aug-18 07:00:00		11.60	0.00	0.00	6.04	2.1	329.7		3.82	0.00	0.00	1.99		10.35	18.92	83.84	86.68	25-Aug-18 06:00:00		**14.17**	**18.92**	**83.84**	**88.67**
25-Aug-18 07:00:00	25-Aug-18 08:00:00		11.83	0.00	0.00	6.01

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
27-Aug-18 09:00:00	27-Aug-18 10:00:00		0.00	0.00	0.00	5.62	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	27-Aug-18 09:00:00		**10.35**	**18.92**	**83.84**	**88.53**
27-Aug-18 10:00:00	27-Aug-18 11:00:00		0.00	0.00	0.00	5.33	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	27-Aug-18 10:00:00		**10.35**	**18.92**	**83.84**	**88.44**
27-Aug-18 11:00:00	27-Aug-18 12:00:00		0.00	0.00	0.00	5.05	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	27-Aug-18 11:00:00		**10.35**	**18.92**	**83.84**	**88.34**
27-Aug-18 12:00:00	27-Aug-18 13:00:00		0.00	0.00	0.00	4.76	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	27-Aug-18 12:00:00		**10.35**	**18.92**	**83.84**	**88.25**
27-Aug-18 13:00:00	27-Aug-18 14:00:00		0.00	0.00	0.00	4.51	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	27-Aug-18 13:00:00		**10.35**	**18.92**	**83.84**	**88.17**
27-Aug-18 14:00:00	27-Aug-18 15:00:00		0.00	0.00	0.00	4.43	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	27-Aug-18 14:00:00		**10.35**	**18.92**	**83.84**	**88.14**
27-Aug-18 15:00:00	27-Aug-18 16:00:00		0.00	0.00	0.00	4.35	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	27-Aug-18 15:00:00		**10.35**	**18.92**	**83.84**	**88.11**
27-Aug-18 16:00:00	27-Aug-18 17:00:00		0.00	0.00	0.00	4.27	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	27-Aug-18 16:00:00		**10.35**	**18.92**	**83.84**	**88.09**
27-Aug-18 17:00:00	27-Aug-18 18:00:00		0.00	0.00	0.00	4.41	2.1	329.7		0.00	0.00	0.00	1.45		10.35	18.92	83.84	86.68	27-Aug-18 17:00:00		**10.35**	**18.92**	**83.84**	**88.13**
27-Aug-18 18:00:00	27-Aug-18 19:00:00		0.00	0.00	0.00	4.56	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	27-Aug-18 18:00:00		**10.35**	**18.92**	**83.84**	**88.18**
27-Aug-18 19:00:00	27-Aug-18 20:00:00		0.00	0.00	0.00	4.71	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	27-Aug-18 19:00:00		**10.35**	**18.92**	**83.84**	**88.23**
27-Aug-18 20:00:00	27-Aug-18 21:00:00		0.10	0.00	0.00	4.86	2.1	329.7		0.03	0.00	0.00	1.60		10.35	18.92	83.84	86.68	27-Aug-18 20:00:00		**10.38**	**18.92**	**83.84**	**88.28**
27-Aug-18 21:00:00	27-Aug-18 22:00:00		0.80	0.00	0.00	4.85	2.1	329.7		0.26	0.00	0.00	1.60		10.35	18.92	83.84	86.68	27-Aug-18 21:00:00		**10.61**	**18.92**	**83.84**	**88.28**
27-Aug-18 22:00:00	27-Aug-18 23:00:00		1.59	0.00	0.00	4.96	2.1	329.7		0.52	0.00	0.00	1.63		10.35	18.92	83.84	86.68	27-Aug-18 22:00:00		**10.87**	**18.92**	**83.84**	**88.31**
27-Aug-18 23:00:00	28-Aug-18 00:00:00		453.96	0.00	0.00	5.07	2.1	329.7		149.67	0.00	0.00	1.67		10.35	18.92	83.84	86.68	27-Aug-18 23:00:00		**160.02**	**18.92**	**83.84**	**88.35**
28-Aug-18 00:00:00	28-Aug-18 01:00:00		554.08	0.00	0.00	5.19	2.1	329.7		182.68	0.00	0.00	1.71		10.35	18.92	83.84	86.68	28-Aug-18 00:00:00		**193.03**	**18.92**	**83.84**	**88.39**
28-Aug-18 01:00:00	28-Aug-18 02:00:00		382.00	0.00	0.00	5.28	2.1	329.7		125.94	0.00	0.00	1.74		10.35	18.92	83.84	86.68	28-Aug-18 01:00:00		**136.29**	**18.92**	**83.84**	**88.42**
28-Aug-18 02:00:00	28-Aug-18 03:00:00		556.88	0.00	0.00	5.42	2.1	329.7		183.60	0.00	0.00	1.79		10.35	18.92	83.84	86.68	28-Aug-18 02:00:00		**193.95**	**18.92**	**83.84**	**88.47**
28-Aug-18 03:00:00	28-Aug-18 04:00:00		1,209.22	0.00	0.00	5.55	2.1	329.7		398.68	0.00	0.00	1.83		10.35	18.92	83.84	86.68	28-Aug-18 03:00:00		**409.03**	**18.92**	**83.84**	**88.51**
28-Aug-18 04:00:00	28-Aug-18 05:00:00		769.85	0.00	0.00	5.69	2.1	329.7		253.82	0.00	0.00	1.88		10.35	18.92	83.84	86.68	28-Aug-18 04:00:00		**264.17**	**18.92**	**83.84**	**88.56**
28-Aug-18 05:00:00	28-Aug-18 06:00:00		505.03	0.00	0.00	5.68	2.1	329.7		166.51	0.00	0.00	1.87		10.35	18.92	83.84	86.68	28-Aug-18 05:00:00		**176.86**	**18.92**	**83.84**	**88.55**
28-Aug-18 06:00:00	28-Aug-18 07:00:00		42.99	0.00	0.00	5.71	2.1	329.7		14.17	0.00	0.00	1.88		10.35	18.92	83.84	86.68	28-Aug-18 06:00:00		**24.52**	**18.92**	**83.84**	**88.56**
28-Aug-18 07:00:00	28-Aug-18 08:00:00		20.36	0.00	0.00	5.76	2.1	329.7		6.71	0.00	0.00	1.90		10.35	18.92	83.84	86.68	28-Aug-18 07:00:00		**17.06**	**18.92**	**83.84**	**88.58**
28-Aug-18 08:00:00	28-Aug-18 09:00:00		24.22	0.00	0.00	5.80	2.1	329.7		7.98	0.00	0.00	1.91		10.35	18.92	83.84	86.68	28-Aug-18 08:00:00		**18.33**	**18.92**	**83.84**	**88.59**
28-Aug-18 09:00:00	28-Aug-18 10:00:00		20.60	0.00	0.00	5.68	2.1	329.7		6.79	0.00	0.00	1.87		10.35	18.92	83.84	86.68	28-Aug-18 09:00:00		**17.14**	**18.92**	**83.84**	**88.55**
28-Aug-18 10:00:00	28-Aug-18 11:00:00		17.17	0.00	0.00	5.39	2.1	329.7		5.66	0.00	0.00	1.78		10.35	18.92	83.84	86.68	28-Aug-18 10:00:00		**16.01**	**18.92**	**83.84**	**88.46**
28-Aug-18 11:00:00	28-Aug-18 12:00:00		38.08	0.00	0.00	5.10	2.1	329.7		12.56	0.00	0.00	1.68		10.35	18.92	83.84	86.68	28-Aug-18 11:00:00		**22.91**	**18.92**	**83.84**	**88.36**
28-Aug-18 12:00:00	28-Aug-18 13:00:00		59.33	0.00	0.00	4.81	2.1	329.7		19.56	0.00	0.00	1.59		10.35	18.92	83.84	86.68	28-Aug-18 12:00:00		**29.91**	**18.92**	**83.84**	**88.27**
28-Aug-18 13:00:00	28-Aug-18 14:00:00		72.88	0.00	0.00	4.62	2.1	329.7		24.03	0.00	0.00	1.52		10.35	18.92	83.84	86.68	28-Aug-18 13:00:00		**34.38**	**18.92**	**83.84**	**88.20**
28-Aug-18 14:00:00	28-Aug-18 15:00:00		38.98	0.00	0.00	4.53	2.1	329.7		12.85	0.00	0.00	1.49		10.35	18.92	83.84	86.68	28-Aug-18 14:00:00		**23.20**	**18.92**	**83.84**	**88.17**
28-Aug-18 15:00:00	28-Aug-18 16:00:00		30.69	0.00	0.00	4.44	2.1	329.7		10.12	0.00	0.00	1.47		10.35	18.92	83.84	86.68	28-Aug-18 15:00:00		**20.47**	**18.92**	**83.84**	**88.15**
28-Aug-18 16:00:00	28-Aug-18 17:00:00		43.82	0.00	0.00	4.36	2.1	329.7		14.45	0.00	0.00	1.44		10.35	18.92	83.84	86.68	28-Aug-18 16:00:00		**24.80**	**18.92**	**83.84**	**88.12**
28-Aug-18 17:00:00	28-Aug-18 18:00:00		48.73	0.00	0.00	4.22	2.1	329.7		16.07	0.00	0.00	1.39		10.35	18.92	83.84	86.68	28-Aug-18 17:00:00		**26.42**	**18.92**	**83.84**	**88.07**
28-Aug-18 18:00:00	28-Aug-18 19:00:00		22.10	0.00	0.00	4.36	2.1	329.7		7.29	0.00	0.00	1.44		10.35	18.92	83.84	86.68	28-Aug-18 18:00:00		**17.64**	**18.92**	**83.84**	**88.12**
28-Aug-18 19:00:00	28-Aug-18 20:00:00		19.00	0.00	0.00	4.51	2.1	329.7		6.26	0.00	0.00	1.49		10.35	18.92	83.84	86.68	28-Aug-18 19:00:00		**16.61**	**18.92**	**83.84**	**88.17**
28-Aug-18 20:00:00	28-Aug-18 21:00:00		19.77	0.00	0.00	4.67	2.1	329.7		6.52	0.00	0.00	1.54		10.35	18.92	83.84	86.68	28-Aug-18 20:00:00		**16.87**	**18.92**	**83.84**	**88.22**
28-Aug-18 21:00:00	28-Aug-18 22:00:00		29.19	0.00	0.00	4.88	2.1	329.7		9.62	0.00	0.00	1.61		10.35	18.92	83.84	86.68	28-Aug-18 21:00:00		**19.97**	**18.92**	**83.84**	**88.29**
28-Aug-18 22:00:00	28-Aug-18 23:00:00		46.00	0.00	0.00	5.03	2.1	329.7		15.17	0.00	0.00	1.66		10.35	18.92	83.84	86.68	28-Aug-18 22:00:00		**25.52**	**18.92**	**83.84**	**88.34**
28-Aug-18 23:00:00	29-Aug-18 00:00:00		53.93	0.00	0.00	5.18	2.1	329.7		17.78	0.00	0.00	1.71		10.35	18.92	83.84	86.68	28-Aug-18 23:00:00		**28.13**	**18.92**	**83.84**	**88.39**
29-Aug-18 00:00:00	29-Aug-18 01:00:00		63.40	0.00	0.00	5.32	2.1	329.7		20.90	0.00	0.00	1.75		10.35	18.92	83.84	86.68	29-Aug-18 00:00:00		**31.25**	**18.92**	**83.84**	**88.43**
29-Aug-18 01:00:00	29-Aug-18 02:00:00		61.19	0.00	0.00	5.48	2.1	329.7		20.17	0.00	0.00	1.81		10.35	18.92	83.84	86.68	29-Aug-18 01:00:00		**30.52**	**18.92**	**83.84**	**88.49**
29-Aug-18 02:00:00	29-Aug-18 03:00:00		27.48	0.00	0.00	5.57	2.1	329.7		9.06	0.00	0.00	1.84		10.35	18.92	83.84	86.68	29-Aug-18 02:00:00		**19.41**	**18.92**	**83.84**	**88.52**
29-Aug-18 03:00:00	29-Aug-18 04:00:00		52.77	0.00	0.00	5.65	2.1	329.7		17.40	0.00	0.00	1.86		10.35	18.92	83.84	86.68	29-Aug-18 03:00:00		**27.75**	**18.92**	**83.84**	**88.54**
29-Aug-18 04:00:00	29-Aug-18 05:00:00		79.35	0.00	0.00	5.74	2.1	329.7		26.16	0.00	0.00	1.89		10.35	18.92	83.84	86.68	29-Aug-18 04:00:00		**36.51**	**18.92**	**83.84**	**88.57**
29-Aug-18 05:00:00	29-Aug-18 06:00:00		51.14	0.00	0.00	5.73	2.1	329.7		16.86	0.00	0.00	1.89		10.35	18.92	83.84	86.68	29-Aug-18 05:00:00		**27.21**	**18.92**	**83.84**	**88.57**
29-Aug-18 06:00:00	29-Aug-18 07:00:00		57.33	0.00	0.00	5.74	2.1	329.7		18.90	0.00	0.00	1.89		10.35	18.92	83.84	86.68	29-Aug-18 06:00:00		**29.25**	**18.92**	**83.84**	**88.57**
29-Aug-18 07:00:00	29-Aug-18 08:00:00		62.61	0.00	0.00	5.76	2.1	329.7		20.64	0.00	0.00	1.90		10.35	18.92	83.84	86.68	29-Aug-18 07:00:00		**30.99**	**18.92**	**83.84**	**88.58**
29-Aug-18 08:00:00	29-Aug-18 09:00:00		63.53	0.00	0.00	5.78	2.1	329.7		20.95	0.00	0.00	1.91		10.35	18.92	83.84	86.68	29-Aug-18 08:00:00		**31.30**	**18.92**	**83.84**	**88.59**
29-Aug-18 09:00:00	29-Aug-18 10:00:00		40.49	0.00	0.00	5.70	2.1	329.7		13.35	0.00	0.00	1.88		10.35	18.92	83.84	86.68	29-Aug-18 09:00:00		**23.70**	**18.92**	**83.84**	**88.56**
29-Aug-18 10:00:00	29-Aug-18 11:00:00		21.53	0.00	0.00	5.39	2.1	329.7		7.10	0.00	0.00	1.78		10.35	18.92	83.84	86.68	29-Aug-18 10:00:00		**17.45**	**18.92**	**83.84**	**88.46**
29-Aug-18 11:00:00	29-Aug-18 12:00:00		55.12	0.00	0.00	5.07	2.1	329.7		18.17	0.00	0.00	1.67		10.35	18.92	83.84	86.68	29-Aug-18 11:00:00		**28.52**	**18.92**	**83.84**	**88.35**
29-Aug-18 12:00:00	29-Aug-18 13:00:00		43.47	0.00	0.00	4.75	2.1	329.7		14.33	0.00	0.00	1.57		10.35	18.92	83.84	86.68	29-Aug-18 12:00:00		**24.68**	**18.92**	**83.84**	**88.25**
29-Aug-18 13:00:00	29-Aug-18 14:00:00		34.49	0.00	0.00	4.64	2.1	329.7		11.37	0.00	0.00	1.53		10.35	18.92	83.84	86.68	29-Aug-18 13:00:00		**21.72**	**18.92**	**83.84**	**88.21**
29-Aug-18 14:00:00	29-Aug-18 15:00:00		42.14	0.00	0.00	4.68	2.1	329.7		13.89	0.00	0.00	1.54		10.35	18.92	83.84	86.68	29-Aug-18 14:00:00		**24.24**	**18.92**	**83.84**	**88.22**
29-Aug-18 15:00:00	29-Aug-18 16:00:00		58.68	0.00	0.00	4.70	2.1	329.7		19.35	0.00	0.00	1.55		10.35	18.92	83.84	86.68	29-Aug-18 15:00:00		**29.70**	**18.92**	**83.84**	**88.23**
29-Aug-18 16:00:00	29-Aug-18 17:00:00		45.89	0.00	0.00	4.73	2.1	329.7		15.13	0.00	0.00	1.56		10.35	18.92	83.84	86.68	29-Aug-18 16:00:00		**25.48**	**18.92**	**83.84**	**88.24**
29-Aug-18 17:00:00	29-Aug-18 18:00:00		47.89	0.00	0.00	4.74	2.1	329.7		15.79	0.00	0.00	1.56		10.35	18.92	83.84	86.68	29-Aug-18 17:00:00		**26.14**	**18.92**	**83.84**	**88.24**
29-Aug-18 18:00:00	29-Aug-18 19:00:00		49.08	0.00	0.00	4.79	2.1	329.7		16.18	0.00	0.00	1.58		10.35	18.92	83.84	86.68	29-Aug-18 18:00:00		**26.53**	**18.92**	**83.84**	**88.26**
29-Aug-18 19:00:00	29-Aug-18 20:00:00		50.27	0.00	0.00	4.84	2.1	329.7		16.58	0.00	0.00	1.60		10.35	18.92	83.84	86.68	29-Aug-18 19:00:00		**26.93**	**18.92**	**83.84**	**88.28**
29-Aug-18 20:00:00	29-Aug-18 21:00:00		57.89	0.00	0.00	4.90	2.1	329.7		19.09	0.00	0.00	1.61		10.35	18.92	83.84	86.68	29-Aug-18 20:00:00		**29.44**	**18.92**	**83.84**	**88.29**
29-Aug-18 21:00:00	29-Aug-18 22:00:00		49.13	0.00	0.00	4.94	2.1	329.7		16.20	0.00	0.00	1.63		10.35	18.92	83.84	86.68	29-Aug-18 21:00:00		**26.55**	**18.92**	**83.84**	**88.31**
29-Aug-18 22:00:00	29-Aug-18 23:00:00		45.75	0.00	0.00	5.02	2.1	329.7		15.09	0.00	0.00	1.66		10.35	18.92	83.84	86.68	29-Aug-18 22:00:00		**25.44**	**18.92**	**83.84**	**88.34**
29-Aug-18 23:00:00	30-Aug-18 00:00:00		45.50	0.00	0.00	5.11	2.1	329.7		15.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	29-Aug-18 23:00:00		**25.35**	**18.92**	**83.84**	**88.36**
30-Aug-18 00:00:00	30-Aug-18 01:00:00		72.23	0.00	0.00	5.20	2.1	329.7		23.82	0.00	0.00	1.71		10.35	18.92	83.84	86.68	30-Aug-18 00:00:00		**34.17**	**18.92**	**83.84**	**88.39**
30-Aug-18 01:00:00	30-Aug-18 02:00:00		81.76	0.00	0.00	5.32	2.1	329.7		26.96	0.00	0.00	1.75		10.35	18.92	83.84	86.68	30-Aug-18 01:00:00		**37.31**	**18.92**	**83.84**	**88.43**
30-Aug-18 02:00:00	30-Aug-18 03:00:00		47.95	0.00	0.00	5.44	2.1	329.7		15.81	0.00	0.00	1.80		10.35	18.92	83.84	86.68	30-Aug-18 02:00:00		**26.16**	**18.92**	**83.84**	**88.48**
30-Aug-18 03:00:00	30-Aug-18 04:00:00		58.27	0.00	0.00	5.57	2.1	329.7		19.21	0.00	0.00	1.84		10.35	18.92	83.84	86.68	30-Aug-18 03:00:00		**29.56**	**18.92**	**83.84**	**88.52**
30-Aug-18 04:00:00	30-Aug-18 05:00:00		59.51	0.00	0.00	5.69	2.1	329.7		19.62	0.00	0.00	1.88		10.35	18.92	83.84	86.68	30-Aug-18 04:00:00		**29.97**	**18.92**	**83.84**	**88.56**
30-Aug-18 05:00:00	30-Aug-18 06:00:00		55.73	0.00	0.00	5.76	2.1	329.7		18.37	0.00	0.00	1.90		10.35	18.92	83.84	86.68	30-Aug-18 05:00:00		**28.72**	**18.92**	**83.84**	**88.58**
30-Aug-18 06:00:00	30-Aug-18 07:00:00		36.19	0.00	0.00	5.80	2.1	329.7		11.93	0.00	0.00	1.91		10.35	18.92	83.84	86.68	30-Aug-18 06:00:00		**22.28**	**18.92**	**83.84**	**88.59**
30-Aug-18 07:00:00	30-Aug-18 08:00:00		57.06	0.00	0.00	5.83	2.1	329.7		18.81	0.00	0.00	1.92		10.35	18.92	83.84	86.68	30-Aug-18 07:00:00		**29.16**	**18.92**	**83.84**	**88.60**
30-Aug-18 08:00:00	30-Aug-18 09:00:00		54.50	0.00	0.00	5.86	2.1	329.7		17.97	0.00	0.00	1.93		10.35	18.92	83.84	86.68	30-Aug-18 08:00:00		**28.32**	**18.92**	**83.84**	**88.61**
30-Aug-18 09:00:00	30-Aug-18 10:00:00		34.94	0.00	0.00	5.78	2.1	329.7		11.52	0.00	0.00	1.91		10.35	18.92	83.84	86.68	30-Aug-18 09:00:00		**21.87**	**18.92**	**83.84**	**88.59**
30-Aug-18 10:00:00	30-Aug-18 11:00:00		45.31	0.00	0.00	5.45	2.1	329.7		14.94	0.00	0.00	1.80		10.35	18.92	83.84	86.68	30-Aug-18 10:00:00		**25.29**	**18.92**	**83.84**	**88.48**
30-Aug-18 11:00:00	30-Aug-18 12:00:00		35.63	0.00	0.00	5.12	2.1	329.7		11.75	0.00	0.00	1.69		10.35	18.92	83.84	86.68	30-Aug-18 11:00:00		**22.10**	**18.92**	**83.84**	**88.37**
30-Aug-18 12:00:00	30-Aug-18 13:00:00		40.24	0.00	0.00	4.78	2.1	329.7		13.27	0.00	0.00	1.58		10.35	18.92	83.84	86.68	30-Aug-18 12:00:00		**23.62**	**18.92**	**83.84**	**88.26**
30-Aug-18 13:00:00	30-Aug-18 14:00:00		39.33	0.00	0.00	4.48	2.1	329.7		12.97	0.00	0.00	1.48		10.35	18.92	83.84	86.68	30-Aug-18 13:00:00		**23.32**	**18.92**	**83.84**	**88.16**
30-Aug-18 14:00:00	30-Aug-18 15:00:00		51.45	0.00	0.00	4.46	2.1	329.7		16.96	0.00	0.00	1.47		10.35	18.92	83.84	86.68	30-Aug-18 14:00:00		**27.31**	**18.92**	**83.84**	**88.15**
30-Aug-18 15:00:00	30-Aug-18 16:00:00		56.77	0.00	0.00	4.47	2.1	329.7		18.72	0.00	0.00	1.48		10.35	18.92	83.84	86.68	30-Aug-18 15:00:00		**29.07**	**18.92**	**83.84**	**88.16**
30-Aug-18 16:00:00	30-Aug-18 17:00:00		70.24	0.00	0.00	4.48	2.1	329.7		23.16	0.00	0.00	1.48		10.35	18.92	83.84	86.68	30-Aug-18 16:00:00		**33.51**	**18.92**	**83.84**	**88.16**
30-Aug-18 17:00:00	30-Aug-18 18:00:00		45.33	0.00	0.00	4.54	2.1	329.7		14.95	0.00	0.00	1.50		10.35	18.92	83.84	86.68	30-Aug-18 17:00:00		**25.30**	**18.92**	**83.84**	**88.18**
30-Aug-18 18:00:00	30-Aug-18 19:00:00		43.74	0.00	0.00	4.68	2.1	329.7		14.42	0.00	0.00	1.54		10.35	18.92	83.84	86.68	30-Aug-18 18:00:00		**24.77**	**18.92**	**83.84**	**88.22**
30-Aug-18 19:00:00	30-Aug-18 20:00:00		44.00	0.00	0.00	4.82	2.1	329.7		14.51	0.00	0.00	1.59		10.35	18.92	83.84	86.68	30-Aug-18 19:00:00		**24.86**	**18.92**	**83.84**	**88.27**
30-Aug-18 20:00:00	30-Aug-18 21:00:00		50.95	0.00	0.00	4.96	2.1	329.7		16.80	0.00	0.00	1.64		10.35	18.92	83.84	86.68	30-Aug-18 20:00:00		**27.15**	**18.92**	**83.84**	**88.32**
30-Aug-18 21:00:00	30-Aug-18 22:00:00		21.07	0.00	0.00	5.15	2.1	329.7		6.95	0.00	0.00	1.70		10.35	18.92	83.84	86.68	30-Aug-18 21:00:00		**17.30**	**18.92**	**83.84**	**88.38**
30-Aug-18 22:00:00	30-Aug-18 23:00:00		55.58	0.00	0.00	5.19	2.1	329.7		18.32	0.00	0.00	1.71		10.35	18.92	83.84	86.68	30-Aug-18 22:00:00		**28.67**	**18.92**	**83.84**	**88.39**
30-Aug-18 23:00:00	31-Aug-18 00:00:00		64.75	0.00	0.00	5.22	2.1	329.7		21.35	0.00	0.00	1.72		10.35	18.92	83.84	86.68	30-Aug-18 23:00:00		**31.70**	**18.92**	**83.84**	**88.40**
31-Aug-18 00:00:00	31-Aug-18 01:00:00		57.02	0.00	0.00	5.25	2.1	329.7		18.80	0.00	0.00	1.73		10.35	18.92	83.84	86.68	31-Aug-18 00:00:00		**29.15**	**18.92**	**83.84**	**88.41**
31-Aug-18 01:00:00	31-Aug-18 02:00:00		49.99	0.00	0.00	5.30	2.1	329.7		16.48	0.00	0.00	1.75		10.35	18.92	83.84	86.68	31-Aug-18 01:00:00		**26.83**	**18.92**	**83.84**	**88.43**
31-Aug-18 02:00:00	31-Aug-18 03:00:00		30.00	0.00	0.00	5.44	2.1	329.7		9.89	0.00	0.00	1.79		10.35	18.92	83.84	86.68	31-Aug-18 02:00:00		**20.24**	**18.92**	**83.84**	**88.47**
31-Aug-18 03:00:00	31-Aug-18 04:00:00		68.66	0.00	0.00	5.57	2.1	329.7		22.64	0.00	0.00	1.84		10.35	18.92	83.84	86.68	31-Aug-18 03:00:00		**32.99**	**18.92**	**83.84**	**88.52**
31-Aug-18 04:00:00	31-Aug-18 05:00:00		88.94	0.00	0.00	5.71	2.1	329.7		29.32	0.00	0.00	1.88		10.35	18.92	83.84	86.68	31-Aug-18 04:00:00		**39.67**	**18.92**	**83.84**	**88.56**
31-Aug-18 05:00:00	31-Aug-18 06:00:00		38.67	0.00	0.00	5.78	2.1	329.7		12.75	0.00	0.00	1.91		10.35	18.92	83.84	86.68	31-Aug-18 05:00:00		**23.10**	**18.92**	**83.84**	**88.59**
31-Aug-18 06:00:00	31-Aug-18 07:00:00		28.91	0.00	0.00

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
02-Sep-18 08:00:00	02-Sep-18 09:00:00		27.71	0.00	0.00	5.63	2.1	329.7		9.14	0.00	0.00	1.86		10.35	18.92	83.84	86.68	02-Sep-18 08:00:00		**19.49**	**18.92**	**83.84**	**88.54**
02-Sep-18 09:00:00	02-Sep-18 10:00:00		7.32	0.00	0.00	5.46	2.1	329.7		2.41	0.00	0.00	1.80		10.35	18.92	83.84	86.68	02-Sep-18 09:00:00		**12.76**	**18.92**	**83.84**	**88.48**
02-Sep-18 10:00:00	02-Sep-18 11:00:00		6.41	0.00	0.00	5.23	2.1	329.7		2.11	0.00	0.00	1.72		10.35	18.92	83.84	86.68	02-Sep-18 10:00:00		**12.46**	**18.92**	**83.84**	**88.40**
02-Sep-18 11:00:00	02-Sep-18 12:00:00		7.98	0.00	0.00	5.03	2.1	329.7		2.63	0.00	0.00	1.66		10.35	18.92	83.84	86.68	02-Sep-18 11:00:00		**12.98**	**18.92**	**83.84**	**88.34**
02-Sep-18 12:00:00	02-Sep-18 13:00:00		38.26	0.00	0.00	4.82	2.1	329.7		12.61	0.00	0.00	1.59		10.35	18.92	83.84	86.68	02-Sep-18 12:00:00		**22.96**	**18.92**	**83.84**	**88.27**
02-Sep-18 13:00:00	02-Sep-18 14:00:00		39.09	0.00	0.00	4.66	2.1	329.7		12.89	0.00	0.00	1.54		10.35	18.92	83.84	86.68	02-Sep-18 13:00:00		**23.24**	**18.92**	**83.84**	**88.22**
02-Sep-18 14:00:00	02-Sep-18 15:00:00		37.26	0.00	0.00	4.66	2.1	329.7		12.29	0.00	0.00	1.54		10.35	18.92	83.84	86.68	02-Sep-18 14:00:00		**22.64**	**18.92**	**83.84**	**88.22**
02-Sep-18 15:00:00	02-Sep-18 16:00:00		39.96	0.00	0.00	4.67	2.1	329.7		13.18	0.00	0.00	1.54		10.35	18.92	83.84	86.68	02-Sep-18 15:00:00		**23.53**	**18.92**	**83.84**	**88.22**
02-Sep-18 16:00:00	02-Sep-18 17:00:00		12.70	0.00	0.00	4.68	2.1	329.7		4.19	0.00	0.00	1.54		10.35	18.92	83.84	86.68	02-Sep-18 16:00:00		**14.54**	**18.92**	**83.84**	**88.22**
02-Sep-18 17:00:00	02-Sep-18 18:00:00		34.09	0.00	0.00	4.74	2.1	329.7		11.24	0.00	0.00	1.56		10.35	18.92	83.84	86.68	02-Sep-18 17:00:00		**21.59**	**18.92**	**83.84**	**88.24**
02-Sep-18 18:00:00	02-Sep-18 19:00:00		55.56	0.00	0.00	4.86	2.1	329.7		18.32	0.00	0.00	1.60		10.35	18.92	83.84	86.68	02-Sep-18 18:00:00		**28.67**	**18.92**	**83.84**	**88.28**
02-Sep-18 19:00:00	02-Sep-18 20:00:00		59.20	0.00	0.00	4.99	2.1	329.7		19.52	0.00	0.00	1.65		10.35	18.92	83.84	86.68	02-Sep-18 19:00:00		**29.87**	**18.92**	**83.84**	**88.33**
02-Sep-18 20:00:00	02-Sep-18 21:00:00		52.36	0.00	0.00	5.12	2.1	329.7		17.26	0.00	0.00	1.69		10.35	18.92	83.84	86.68	02-Sep-18 20:00:00		**27.61**	**18.92**	**83.84**	**88.37**
02-Sep-18 21:00:00	02-Sep-18 22:00:00		47.09	0.00	0.00	5.24	2.1	329.7		15.53	0.00	0.00	1.73		10.35	18.92	83.84	86.68	02-Sep-18 21:00:00		**25.88**	**18.92**	**83.84**	**88.41**
02-Sep-18 22:00:00	02-Sep-18 23:00:00		32.82	0.00	0.00	5.36	2.1	329.7		10.82	0.00	0.00	1.77		10.35	18.92	83.84	86.68	02-Sep-18 22:00:00		**21.17**	**18.92**	**83.84**	**88.45**
02-Sep-18 23:00:00	03-Sep-18 00:00:00		51.44	0.00	0.00	5.49	2.1	329.7		16.96	0.00	0.00	1.81		10.35	18.92	83.84	86.68	02-Sep-18 23:00:00		**27.31**	**18.92**	**83.84**	**88.49**
03-Sep-18 00:00:00	03-Sep-18 01:00:00		45.63	0.00	0.00	5.62	2.1	329.7		15.05	0.00	0.00	1.85		10.35	18.92	83.84	86.68	03-Sep-18 00:00:00		**25.40**	**18.92**	**83.84**	**88.53**
03-Sep-18 01:00:00	03-Sep-18 02:00:00		77.44	0.00	0.00	5.72	2.1	329.7		25.53	0.00	0.00	1.89		10.35	18.92	83.84	86.68	03-Sep-18 01:00:00		**35.88**	**18.92**	**83.84**	**88.57**
03-Sep-18 02:00:00	03-Sep-18 03:00:00		56.89	0.00	0.00	5.73	2.1	329.7		18.76	0.00	0.00	1.89		10.35	18.92	83.84	86.68	03-Sep-18 02:00:00		**29.11**	**18.92**	**83.84**	**88.57**
03-Sep-18 03:00:00	03-Sep-18 04:00:00		57.14	0.00	0.00	5.74	2.1	329.7		18.84	0.00	0.00	1.89		10.35	18.92	83.84	86.68	03-Sep-18 03:00:00		**29.19**	**18.92**	**83.84**	**88.57**
03-Sep-18 04:00:00	03-Sep-18 05:00:00		38.01	0.00	0.00	5.75	2.1	329.7		12.53	0.00	0.00	1.89		10.35	18.92	83.84	86.68	03-Sep-18 04:00:00		**22.88**	**18.92**	**83.84**	**88.57**
03-Sep-18 05:00:00	03-Sep-18 06:00:00		50.44	0.00	0.00	5.74	2.1	329.7		16.63	0.00	0.00	1.89		10.35	18.92	83.84	86.68	03-Sep-18 05:00:00		**26.98**	**18.92**	**83.84**	**88.57**
03-Sep-18 06:00:00	03-Sep-18 07:00:00		37.91	0.00	0.00	5.65	2.1	329.7		12.50	0.00	0.00	1.86		10.35	18.92	83.84	86.68	03-Sep-18 06:00:00		**22.85**	**18.92**	**83.84**	**88.54**
03-Sep-18 07:00:00	03-Sep-18 08:00:00		45.53	0.00	0.00	5.55	2.1	329.7		15.01	0.00	0.00	1.83		10.35	18.92	83.84	86.68	03-Sep-18 07:00:00		**25.36**	**18.92**	**83.84**	**88.51**
03-Sep-18 08:00:00	03-Sep-18 09:00:00		51.45	0.00	0.00	5.46	2.1	329.7		16.96	0.00	0.00	1.80		10.35	18.92	83.84	86.68	03-Sep-18 08:00:00		**27.31**	**18.92**	**83.84**	**88.48**
03-Sep-18 09:00:00	03-Sep-18 10:00:00		49.93	0.00	0.00	5.37	2.1	329.7		16.46	0.00	0.00	1.77		10.35	18.92	83.84	86.68	03-Sep-18 09:00:00		**26.81**	**18.92**	**83.84**	**88.45**
03-Sep-18 10:00:00	03-Sep-18 11:00:00		35.38	0.00	0.00	5.13	2.1	329.7		11.67	0.00	0.00	1.69		10.35	18.92	83.84	86.68	03-Sep-18 10:00:00		**22.02**	**18.92**	**83.84**	**88.37**
03-Sep-18 11:00:00	03-Sep-18 12:00:00		43.46	0.00	0.00	4.84	2.1	329.7		14.33	0.00	0.00	1.60		10.35	18.92	83.84	86.68	03-Sep-18 11:00:00		**24.68**	**18.92**	**83.84**	**88.28**
03-Sep-18 12:00:00	03-Sep-18 13:00:00		38.06	0.00	0.00	4.56	2.1	329.7		12.55	0.00	0.00	1.50		10.35	18.92	83.84	86.68	03-Sep-18 12:00:00		**22.90**	**18.92**	**83.84**	**88.18**
03-Sep-18 13:00:00	03-Sep-18 14:00:00		45.22	0.00	0.00	4.40	2.1	329.7		14.91	0.00	0.00	1.45		10.35	18.92	83.84	86.68	03-Sep-18 13:00:00		**25.26**	**18.92**	**83.84**	**88.13**
03-Sep-18 14:00:00	03-Sep-18 15:00:00		64.46	0.00	0.00	4.44	2.1	329.7		21.25	0.00	0.00	1.46		10.35	18.92	83.84	86.68	03-Sep-18 14:00:00		**31.60**	**18.92**	**83.84**	**88.14**
03-Sep-18 15:00:00	03-Sep-18 16:00:00		54.41	0.00	0.00	4.46	2.1	329.7		17.94	0.00	0.00	1.47		10.35	18.92	83.84	86.68	03-Sep-18 15:00:00		**28.29**	**18.92**	**83.84**	**88.15**
03-Sep-18 16:00:00	03-Sep-18 17:00:00		61.02	0.00	0.00	4.48	2.1	329.7		20.12	0.00	0.00	1.48		10.35	18.92	83.84	86.68	03-Sep-18 16:00:00		**30.47**	**18.92**	**83.84**	**88.16**
03-Sep-18 17:00:00	03-Sep-18 18:00:00		62.19	0.00	0.00	4.49	2.1	329.7		20.50	0.00	0.00	1.48		10.35	18.92	83.84	86.68	03-Sep-18 17:00:00		**30.85**	**18.92**	**83.84**	**88.16**
03-Sep-18 18:00:00	03-Sep-18 19:00:00		12.92	0.00	0.00	4.65	2.1	329.7		4.26	0.00	0.00	1.53		10.35	18.92	83.84	86.68	03-Sep-18 18:00:00		**14.61**	**18.92**	**83.84**	**88.21**
03-Sep-18 19:00:00	03-Sep-18 20:00:00		18.62	0.00	0.00	4.86	2.1	329.7		6.14	0.00	0.00	1.60		10.35	18.92	83.84	86.68	03-Sep-18 19:00:00		**16.49**	**18.92**	**83.84**	**88.28**
03-Sep-18 20:00:00	03-Sep-18 21:00:00		15.27	0.00	0.00	5.07	2.1	329.7		5.03	0.00	0.00	1.67		10.35	18.92	83.84	86.68	03-Sep-18 20:00:00		**15.38**	**18.92**	**83.84**	**88.35**
03-Sep-18 21:00:00	03-Sep-18 22:00:00		21.44	0.00	0.00	5.37	2.1	329.7		7.07	0.00	0.00	1.77		10.35	18.92	83.84	86.68	03-Sep-18 21:00:00		**17.42**	**18.92**	**83.84**	**88.45**
03-Sep-18 22:00:00	03-Sep-18 23:00:00		49.36	0.00	0.00	5.53	2.1	329.7		16.27	0.00	0.00	1.82		10.35	18.92	83.84	86.68	03-Sep-18 22:00:00		**26.62**	**18.92**	**83.84**	**88.50**
03-Sep-18 23:00:00	04-Sep-18 00:00:00		40.25	0.00	0.00	5.61	2.1	329.7		13.27	0.00	0.00	1.85		10.35	18.92	83.84	86.68	03-Sep-18 23:00:00		**23.62**	**18.92**	**83.84**	**88.53**
04-Sep-18 00:00:00	04-Sep-18 01:00:00		33.91	0.00	0.00	5.70	2.1	329.7		11.18	0.00	0.00	1.88		10.35	18.92	83.84	86.68	04-Sep-18 00:00:00		**21.53**	**18.92**	**83.84**	**88.56**
04-Sep-18 01:00:00	04-Sep-18 02:00:00		53.43	0.00	0.00	5.73	2.1	329.7		17.62	0.00	0.00	1.89		10.35	18.92	83.84	86.68	04-Sep-18 01:00:00		**27.97**	**18.92**	**83.84**	**88.57**
04-Sep-18 02:00:00	04-Sep-18 03:00:00		50.78	0.00	0.00	5.78	2.1	329.7		16.74	0.00	0.00	1.91		10.35	18.92	83.84	86.68	04-Sep-18 02:00:00		**27.09**	**18.92**	**83.84**	**88.59**
04-Sep-18 03:00:00	04-Sep-18 04:00:00		50.36	0.00	0.00	5.88	2.1	329.7		16.60	0.00	0.00	1.94		10.35	18.92	83.84	86.68	04-Sep-18 03:00:00		**26.95**	**18.92**	**83.84**	**88.62**
04-Sep-18 04:00:00	04-Sep-18 05:00:00		30.14	0.00	0.00	5.97	2.1	329.7		9.94	0.00	0.00	1.97		10.35	18.92	83.84	86.68	04-Sep-18 04:00:00		**20.29**	**18.92**	**83.84**	**88.65**
04-Sep-18 05:00:00	04-Sep-18 06:00:00		30.19	0.00	0.00	5.94	2.1	329.7		9.95	0.00	0.00	1.96		10.35	18.92	83.84	86.68	04-Sep-18 05:00:00		**20.30**	**18.92**	**83.84**	**88.64**
04-Sep-18 06:00:00	04-Sep-18 07:00:00		30.87	0.00	0.00	5.85	2.1	329.7		10.18	0.00	0.00	1.93		10.35	18.92	83.84	86.68	04-Sep-18 06:00:00		**20.53**	**18.92**	**83.84**	**88.61**
04-Sep-18 07:00:00	04-Sep-18 08:00:00		30.10	0.00	0.00	5.83	2.1	329.7		9.92	0.00	0.00	1.92		10.35	18.92	83.84	86.68	04-Sep-18 07:00:00		**20.27**	**18.92**	**83.84**	**88.60**
04-Sep-18 08:00:00	04-Sep-18 09:00:00		30.40	0.00	0.00	5.81	2.1	329.7		10.02	0.00	0.00	1.91		10.35	18.92	83.84	86.68	04-Sep-18 08:00:00		**20.37**	**18.92**	**83.84**	**88.59**
04-Sep-18 09:00:00	04-Sep-18 10:00:00		30.07	0.00	0.00	5.76	2.1	329.7		9.91	0.00	0.00	1.90		10.35	18.92	83.84	86.68	04-Sep-18 09:00:00		**20.26**	**18.92**	**83.84**	**88.58**
04-Sep-18 10:00:00	04-Sep-18 11:00:00		38.33	0.00	0.00	5.52	2.1	329.7		12.64	0.00	0.00	1.82		10.35	18.92	83.84	86.68	04-Sep-18 10:00:00		**22.99**	**18.92**	**83.84**	**88.50**
04-Sep-18 11:00:00	04-Sep-18 12:00:00		51.78	0.00	0.00	5.25	2.1	329.7		17.07	0.00	0.00	1.73		10.35	18.92	83.84	86.68	04-Sep-18 11:00:00		**27.42**	**18.92**	**83.84**	**88.41**
04-Sep-18 12:00:00	04-Sep-18 13:00:00		40.30	0.00	0.00	4.98	2.1	329.7		13.29	0.00	0.00	1.64		10.35	18.92	83.84	86.68	04-Sep-18 12:00:00		**23.64**	**18.92**	**83.84**	**88.32**
04-Sep-18 13:00:00	04-Sep-18 14:00:00		45.27	0.00	0.00	4.83	2.1	329.7		14.93	0.00	0.00	1.59		10.35	18.92	83.84	86.68	04-Sep-18 13:00:00		**25.28**	**18.92**	**83.84**	**88.27**
04-Sep-18 14:00:00	04-Sep-18 15:00:00		26.44	0.00	0.00	4.93	2.1	329.7		8.72	0.00	0.00	1.63		10.35	18.92	83.84	86.68	04-Sep-18 14:00:00		**19.07**	**18.92**	**83.84**	**88.31**
04-Sep-18 15:00:00	04-Sep-18 16:00:00		21.55	0.00	0.00	5.03	2.1	329.7		7.10	0.00	0.00	1.66		10.35	18.92	83.84	86.68	04-Sep-18 15:00:00		**17.45**	**18.92**	**83.84**	**88.34**
04-Sep-18 16:00:00	04-Sep-18 17:00:00		24.56	0.00	0.00	5.13	2.1	329.7		8.10	0.00	0.00	1.69		10.35	18.92	83.84	86.68	04-Sep-18 16:00:00		**18.45**	**18.92**	**83.84**	**88.37**
04-Sep-18 17:00:00	04-Sep-18 18:00:00		25.14	0.00	0.00	5.26	2.1	329.7		8.29	0.00	0.00	1.74		10.35	18.92	83.84	86.68	04-Sep-18 17:00:00		**18.64**	**18.92**	**83.84**	**88.42**
04-Sep-18 18:00:00	04-Sep-18 19:00:00		27.90	0.00	0.00	5.37	2.1	329.7		9.20	0.00	0.00	1.77		10.35	18.92	83.84	86.68	04-Sep-18 18:00:00		**19.55**	**18.92**	**83.84**	**88.45**
04-Sep-18 19:00:00	04-Sep-18 20:00:00		30.69	0.00	0.00	5.45	2.1	329.7		10.12	0.00	0.00	1.80		10.35	18.92	83.84	86.68	04-Sep-18 19:00:00		**20.47**	**18.92**	**83.84**	**88.48**
04-Sep-18 20:00:00	04-Sep-18 21:00:00		43.66	0.00	0.00	5.52	2.1	329.7		14.40	0.00	0.00	1.82		10.35	18.92	83.84	86.68	04-Sep-18 20:00:00		**24.75**	**18.92**	**83.84**	**88.50**
04-Sep-18 21:00:00	04-Sep-18 22:00:00		48.04	0.00	0.00	5.67	2.1	329.7		15.84	0.00	0.00	1.87		10.35	18.92	83.84	86.68	04-Sep-18 21:00:00		**26.19**	**18.92**	**83.84**	**88.55**
04-Sep-18 22:00:00	04-Sep-18 23:00:00		47.23	0.00	0.00	5.76	2.1	329.7		15.57	0.00	0.00	1.90		10.35	18.92	83.84	86.68	04-Sep-18 22:00:00		**25.92**	**18.92**	**83.84**	**88.58**
04-Sep-18 23:00:00	05-Sep-18 00:00:00		50.16	0.00	0.00	5.80	2.1	329.7		16.54	0.00	0.00	1.91		10.35	18.92	83.84	86.68	04-Sep-18 23:00:00		**26.89**	**18.92**	**83.84**	**88.59**
05-Sep-18 00:00:00	05-Sep-18 01:00:00		61.67	0.00	0.00	5.83	2.1	329.7		20.33	0.00	0.00	1.92		10.35	18.92	83.84	86.68	05-Sep-18 00:00:00		**30.68**	**18.92**	**83.84**	**88.60**
05-Sep-18 01:00:00	05-Sep-18 02:00:00		62.23	0.00	0.00	5.87	2.1	329.7		20.52	0.00	0.00	1.93		10.35	18.92	83.84	86.68	05-Sep-18 01:00:00		**30.87**	**18.92**	**83.84**	**88.61**
05-Sep-18 02:00:00	05-Sep-18 03:00:00		73.42	0.00	0.00	5.86	2.1	329.7		24.20	0.00	0.00	1.93		10.35	18.92	83.84	86.68	05-Sep-18 02:00:00		**34.55**	**18.92**	**83.84**	**88.61**
05-Sep-18 03:00:00	05-Sep-18 04:00:00		37.69	0.00	0.00	5.85	2.1	329.7		12.43	0.00	0.00	1.93		10.35	18.92	83.84	86.68	05-Sep-18 03:00:00		**22.78**	**18.92**	**83.84**	**88.61**
05-Sep-18 04:00:00	05-Sep-18 05:00:00		24.94	0.00	0.00	5.84	2.1	329.7		8.22	0.00	0.00	1.92		10.35	18.92	83.84	86.68	05-Sep-18 04:00:00		**18.57**	**18.92**	**83.84**	**88.60**
05-Sep-18 05:00:00	05-Sep-18 06:00:00		34.24	0.00	0.00	5.93	2.1	329.7		11.29	0.00	0.00	1.95		10.35	18.92	83.84	86.68	05-Sep-18 05:00:00		**21.64**	**18.92**	**83.84**	**88.63**
05-Sep-18 06:00:00	05-Sep-18 07:00:00		32.92	0.00	0.00	5.95	2.1	329.7		10.85	0.00	0.00	1.96		10.35	18.92	83.84	86.68	05-Sep-18 06:00:00		**21.20**	**18.92**	**83.84**	**88.64**
05-Sep-18 07:00:00	05-Sep-18 08:00:00		32.27	0.00	0.00	5.90	2.1	329.7		10.64	0.00	0.00	1.94		10.35	18.92	83.84	86.68	05-Sep-18 07:00:00		**20.99**	**18.92**	**83.84**	**88.62**
05-Sep-18 08:00:00	05-Sep-18 09:00:00		31.61	0.00	0.00	5.84	2.1	329.7		10.42	0.00	0.00	1.93		10.35	18.92	83.84	86.68	05-Sep-18 08:00:00		**20.77**	**18.92**	**83.84**	**88.61**
05-Sep-18 09:00:00	05-Sep-18 10:00:00		30.65	0.00	0.00	5.75	2.1	329.7		10.11	0.00	0.00	1.89		10.35	18.92	83.84	86.68	05-Sep-18 09:00:00		**20.46**	**18.92**	**83.84**	**88.57**
05-Sep-18 10:00:00	05-Sep-18 11:00:00		27.27	0.00	0.00	5.48	2.1	329.7		8.99	0.00	0.00	1.81		10.35	18.92	83.84	86.68	05-Sep-18 10:00:00		**19.34**	**18.92**	**83.84**	**88.49**
05-Sep-18 11:00:00	05-Sep-18 12:00:00		15.89	0.00	0.00	5.20	2.1	329.7		5.24	0.00	0.00	1.71		10.35	18.92	83.84	86.68	05-Sep-18 11:00:00		**15.59**	**18.92**	**83.84**	**88.39**
05-Sep-18 12:00:00	05-Sep-18 13:00:00		43.36	0.00	0.00	4.92	2.1	329.7		14.30	0.00	0.00	1.62		10.35	18.92	83.84	86.68	05-Sep-18 12:00:00		**24.65**	**18.92**	**83.84**	**88.30**
05-Sep-18 13:00:00	05-Sep-18 14:00:00		40.65	0.00	0.00	4.76	2.1	329.7		13.40	0.00	0.00	1.57		10.35	18.92	83.84	86.68	05-Sep-18 13:00:00		**23.75**	**18.92**	**83.84**	**88.25**
05-Sep-18 14:00:00	05-Sep-18 15:00:00		204.15	0.00	0.00	4.74	2.1	329.7		67.31	0.00	0.00	1.56		10.35	18.92	83.84	86.68	05-Sep-18 14:00:00		**77.66**	**18.92**	**83.84**	**88.24**
05-Sep-18 15:00:00	05-Sep-18 16:00:00		523.51	0.00	0.00	4.66	2.1	329.7		172.60	0.00	0.00	1.54		10.35	18.92	83.84	86.68	05-Sep-18 15:00:00		**182.95**	**18.92**	**83.84**	**88.22**
05-Sep-18 16:00:00	05-Sep-18 17:00:00		532.54	0.00	0.00	4.58	2.1	329.7		175.58	0.00	0.00	1.51		10.35	18.92	83.84	86.68	05-Sep-18 16:00:00		**185.93**	**18.92**	**83.84**	**88.19**
05-Sep-18 17:00:00	05-Sep-18 18:00:00		536.12	0.00	0.00	4.56	2.1	329.7		176.76	0.00	0.00	1.50		10.35	18.92	83.84	86.68	05-Sep-18 17:00:00		**187.11**	**18.92**	**83.84**	**88.18**
05-Sep-18 18:00:00	05-Sep-18 19:00:00		540.04	0.00	0.00	4.72	2.1	329.7		178.05	0.00	0.00	1.56		10.35	18.92	83.84	86.68	05-Sep-18 18:00:00		**188.40**	**18.92**	**83.84**	**88.24**
05-Sep-18 19:00:00	05-Sep-18 20:00:00		493.31	0.00	0.00	4.87	2.1	329.7		162.64	0.00	0.00	1.61		10.35	18.92	83.84	86.68	05-Sep-18 19:00:00		**172.99**	**18.92**	**83.84**	**88.29**
05-Sep-18 20:00:00	05-Sep-18 21:00:00		375.37	0.00	0.00	5.02	2.1	329.7		123.76	0.00	0.00	1.65		10.35	18.92	83.84	86.68	05-Sep-18 20:00:00		**134.11**	**18.92**	**83.84**	**88.33**
05-Sep-18 21:00:00	05-Sep-18 22:00:00		344.05	0.00	0.00	5.18	2.1	329.7		113.43	0.00	0.00	1.71		10.35	18.92	83.84	86.68	05-Sep-18 21:00:00		**123.78**	**18.92**	**83.84**	**88.39**
05-Sep-18 22:00:00	05-Sep-18 23:00:00		417.39	0.00	0.00	5.26	2.1	329.7		137.61	0.00	0.00	1.74		10.35	18.92	83.84	86.68	05-Sep-18 22:00:00		**147.96**	**18.92**	**83.84**	**88.42**
05-Sep-18 23:00:00	06-Sep-18 00:00:00		423.56	0.00	0.00	5.32	2.1	329.7		139.65	0.00	0.00	1.75		10.35	18.92	83.84	86.68	05-Sep-18 23:00:00		**150.00**	**18.92**	**83.84**	**88.43**
06-Sep-18 00:00:00	06-Sep-18 01:00:00		232.68	0.00	0.00	5.37	2.1	329.7		76.71	0.00	0.00	1.77		10.35	18.92	83.84	86.68	06-Sep-18 00:00:00		**87.06**	**18.92**	**83.84**	**88.45**
06-Sep-18 01:00:00	06-Sep-18 02:00:00		222.67	0.00	0.00	5.48	2.1	329.7		73.41	0.00	0.00	1.81		10.35	18.92	83.84	86.68	06-Sep-18 01:00:00		**83.76**	**18.92**	**83.84**	**88.49**
06-Sep-18 02:00:00	06-Sep-18 03:00:00		228.56	0.00	0.00	5.51	2.1	329.7		75.35	0.00	0.00	1.82		10.35	18.92	83.84	86.68	06-Sep-18 02:00:00		**85.70**	**18.92**	**83.84**	**88.50**
06-Sep-18 03:00:00	06-Sep-18 04:00:00		213.38	0.00	0.00	5.45	2.1	329.7		70.35	0.00	0.00	1.80		10.35	18.92	83.84	86.68	06-Sep-18 03:00:00		**80.70**	**18.92**	**83.84**	**88.48**
06-Sep-18 04:00:00	06-Sep-18 05:00:00		198.24	0.00	0.00	5.39	2.1	329.7		65.36	0.00	0.00	1.78		10.35	18.92	83.84	86.68	06-Sep-18 04:00:00		**75.71**	**18.92**	**83.84**	**88.46**
06-Sep-18 05:00:00	06-Sep-18 06:00:00		85.38	0.00	0.00	5.34

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
08-Sep-18 07:00:00	08-Sep-18 08:00:00		52.60	0.00	0.00	5.29	2.1	329.7		17.34	0.00	0.00	1.74		10.35	18.92	83.84	86.68	08-Sep-18 07:00:00		**27.69**	**18.92**	**83.84**	**88.42**
08-Sep-18 08:00:00	08-Sep-18 09:00:00		51.82	0.00	0.00	5.25	2.1	329.7		17.08	0.00	0.00	1.73		10.35	18.92	83.84	86.68	08-Sep-18 08:00:00		**27.43**	**18.92**	**83.84**	**88.41**
08-Sep-18 09:00:00	08-Sep-18 10:00:00		52.35	0.00	0.00	5.20	2.1	329.7		17.26	0.00	0.00	1.71		10.35	18.92	83.84	86.68	08-Sep-18 09:00:00		**27.61**	**18.92**	**83.84**	**88.39**
08-Sep-18 10:00:00	08-Sep-18 11:00:00		47.79	0.00	0.00	4.97	2.1	329.7		15.76	0.00	0.00	1.64		10.35	18.92	83.84	86.68	08-Sep-18 10:00:00		**26.11**	**18.92**	**83.84**	**88.32**
08-Sep-18 11:00:00	08-Sep-18 12:00:00		31.94	0.00	0.00	4.68	2.1	329.7		10.53	0.00	0.00	1.54		10.35	18.92	83.84	86.68	08-Sep-18 11:00:00		**20.88**	**18.92**	**83.84**	**88.22**
08-Sep-18 12:00:00	08-Sep-18 13:00:00		41.71	0.00	0.00	4.39	2.1	329.7		13.75	0.00	0.00	1.45		10.35	18.92	83.84	86.68	08-Sep-18 12:00:00		**24.10**	**18.92**	**83.84**	**88.13**
08-Sep-18 13:00:00	08-Sep-18 14:00:00		28.41	0.00	0.00	4.12	2.1	329.7		9.37	0.00	0.00	1.36		10.35	18.92	83.84	86.68	08-Sep-18 13:00:00		**19.72**	**18.92**	**83.84**	**88.04**
08-Sep-18 14:00:00	08-Sep-18 15:00:00		27.56	0.00	0.00	4.07	2.1	329.7		9.09	0.00	0.00	1.34		10.35	18.92	83.84	86.68	08-Sep-18 14:00:00		**19.44**	**18.92**	**83.84**	**88.02**
08-Sep-18 15:00:00	08-Sep-18 16:00:00		36.50	0.00	0.00	4.07	2.1	329.7		12.04	0.00	0.00	1.34		10.35	18.92	83.84	86.68	08-Sep-18 15:00:00		**22.39**	**18.92**	**83.84**	**88.02**
08-Sep-18 16:00:00	08-Sep-18 17:00:00		55.71	0.00	0.00	4.07	2.1	329.7		18.37	0.00	0.00	1.34		10.35	18.92	83.84	86.68	08-Sep-18 16:00:00		**28.72**	**18.92**	**83.84**	**88.02**
08-Sep-18 17:00:00	08-Sep-18 18:00:00		39.37	0.00	0.00	4.08	2.1	329.7		12.98	0.00	0.00	1.35		10.35	18.92	83.84	86.68	08-Sep-18 17:00:00		**23.33**	**18.92**	**83.84**	**88.03**
08-Sep-18 18:00:00	08-Sep-18 19:00:00		48.01	0.00	0.00	4.20	2.1	329.7		15.83	0.00	0.00	1.38		10.35	18.92	83.84	86.68	08-Sep-18 18:00:00		**26.18**	**18.92**	**83.84**	**88.06**
08-Sep-18 19:00:00	08-Sep-18 20:00:00		46.33	0.00	0.00	4.34	2.1	329.7		15.27	0.00	0.00	1.43		10.35	18.92	83.84	86.68	08-Sep-18 19:00:00		**25.62**	**18.92**	**83.84**	**88.11**
08-Sep-18 20:00:00	08-Sep-18 21:00:00		48.02	0.00	0.00	4.49	2.1	329.7		15.83	0.00	0.00	1.48		10.35	18.92	83.84	86.68	08-Sep-18 20:00:00		**26.18**	**18.92**	**83.84**	**88.16**
08-Sep-18 21:00:00	08-Sep-18 22:00:00		51.78	0.00	0.00	4.64	2.1	329.7		17.07	0.00	0.00	1.53		10.35	18.92	83.84	86.68	08-Sep-18 21:00:00		**27.42**	**18.92**	**83.84**	**88.21**
08-Sep-18 22:00:00	08-Sep-18 23:00:00		54.20	0.00	0.00	4.79	2.1	329.7		17.87	0.00	0.00	1.58		10.35	18.92	83.84	86.68	08-Sep-18 22:00:00		**28.22**	**18.92**	**83.84**	**88.26**
08-Sep-18 23:00:00	09-Sep-18 00:00:00		37.78	0.00	0.00	4.92	2.1	329.7		12.46	0.00	0.00	1.62		10.35	18.92	83.84	86.68	08-Sep-18 23:00:00		**22.81**	**18.92**	**83.84**	**88.30**
09-Sep-18 00:00:00	09-Sep-18 01:00:00		32.45	0.00	0.00	5.06	2.1	329.7		10.70	0.00	0.00	1.67		10.35	18.92	83.84	86.68	09-Sep-18 00:00:00		**21.05**	**18.92**	**83.84**	**88.35**
09-Sep-18 01:00:00	09-Sep-18 02:00:00		32.67	0.00	0.00	5.20	2.1	329.7		10.77	0.00	0.00	1.72		10.35	18.92	83.84	86.68	09-Sep-18 01:00:00		**21.12**	**18.92**	**83.84**	**88.40**
09-Sep-18 02:00:00	09-Sep-18 03:00:00		44.22	0.00	0.00	5.26	2.1	329.7		14.58	0.00	0.00	1.74		10.35	18.92	83.84	86.68	09-Sep-18 02:00:00		**24.93**	**18.92**	**83.84**	**88.42**
09-Sep-18 03:00:00	09-Sep-18 04:00:00		56.20	0.00	0.00	5.26	2.1	329.7		18.53	0.00	0.00	1.73		10.35	18.92	83.84	86.68	09-Sep-18 03:00:00		**28.88**	**18.92**	**83.84**	**88.41**
09-Sep-18 04:00:00	09-Sep-18 05:00:00		25.57	0.00	0.00	5.25	2.1	329.7		8.43	0.00	0.00	1.73		10.35	18.92	83.84	86.68	09-Sep-18 04:00:00		**18.78**	**18.92**	**83.84**	**88.41**
09-Sep-18 05:00:00	09-Sep-18 06:00:00		28.43	0.00	0.00	5.25	2.1	329.7		9.37	0.00	0.00	1.73		10.35	18.92	83.84	86.68	09-Sep-18 05:00:00		**19.72**	**18.92**	**83.84**	**88.41**
09-Sep-18 06:00:00	09-Sep-18 07:00:00		41.10	0.00	0.00	5.23	2.1	329.7		13.55	0.00	0.00	1.72		10.35	18.92	83.84	86.68	09-Sep-18 06:00:00		**23.90**	**18.92**	**83.84**	**88.40**
09-Sep-18 07:00:00	09-Sep-18 08:00:00		54.96	0.00	0.00	5.18	2.1	329.7		18.12	0.00	0.00	1.71		10.35	18.92	83.84	86.68	09-Sep-18 07:00:00		**28.47**	**18.92**	**83.84**	**88.39**
09-Sep-18 08:00:00	09-Sep-18 09:00:00		61.16	0.00	0.00	5.14	2.1	329.7		20.16	0.00	0.00	1.69		10.35	18.92	83.84	86.68	09-Sep-18 08:00:00		**30.51**	**18.92**	**83.84**	**88.37**
09-Sep-18 09:00:00	09-Sep-18 10:00:00		53.54	0.00	0.00	5.14	2.1	329.7		17.65	0.00	0.00	1.69		10.35	18.92	83.84	86.68	09-Sep-18 09:00:00		**28.00**	**18.92**	**83.84**	**88.37**
09-Sep-18 10:00:00	09-Sep-18 11:00:00		44.09	0.00	0.00	5.07	2.1	329.7		14.54	0.00	0.00	1.67		10.35	18.92	83.84	86.68	09-Sep-18 10:00:00		**24.89**	**18.92**	**83.84**	**88.35**
09-Sep-18 11:00:00	09-Sep-18 12:00:00		30.95	0.00	0.00	4.86	2.1	329.7		10.20	0.00	0.00	1.60		10.35	18.92	83.84	86.68	09-Sep-18 11:00:00		**20.55**	**18.92**	**83.84**	**88.28**
09-Sep-18 12:00:00	09-Sep-18 13:00:00		37.44	0.00	0.00	4.65	2.1	329.7		12.34	0.00	0.00	1.53		10.35	18.92	83.84	86.68	09-Sep-18 12:00:00		**22.69**	**18.92**	**83.84**	**88.21**
09-Sep-18 13:00:00	09-Sep-18 14:00:00		25.17	0.00	0.00	4.46	2.1	329.7		8.30	0.00	0.00	1.47		10.35	18.92	83.84	86.68	09-Sep-18 13:00:00		**18.65**	**18.92**	**83.84**	**88.15**
09-Sep-18 14:00:00	09-Sep-18 15:00:00		30.39	0.00	0.00	4.35	2.1	329.7		10.02	0.00	0.00	1.43		10.35	18.92	83.84	86.68	09-Sep-18 14:00:00		**20.37**	**18.92**	**83.84**	**88.11**
09-Sep-18 15:00:00	09-Sep-18 16:00:00		41.17	0.00	0.00	4.26	2.1	329.7		13.57	0.00	0.00	1.41		10.35	18.92	83.84	86.68	09-Sep-18 15:00:00		**23.92**	**18.92**	**83.84**	**88.09**
09-Sep-18 16:00:00	09-Sep-18 17:00:00		29.90	0.00	0.00	4.18	2.1	329.7		9.86	0.00	0.00	1.38		10.35	18.92	83.84	86.68	09-Sep-18 16:00:00		**20.21**	**18.92**	**83.84**	**88.06**
09-Sep-18 17:00:00	09-Sep-18 18:00:00		58.66	0.00	0.00	4.11	2.1	329.7		19.34	0.00	0.00	1.35		10.35	18.92	83.84	86.68	09-Sep-18 17:00:00		**29.69**	**18.92**	**83.84**	**88.03**
09-Sep-18 18:00:00	09-Sep-18 19:00:00		63.66	0.00	0.00	4.22	2.1	329.7		20.99	0.00	0.00	1.39		10.35	18.92	83.84	86.68	09-Sep-18 18:00:00		**31.34**	**18.92**	**83.84**	**88.07**
09-Sep-18 19:00:00	09-Sep-18 20:00:00		63.11	0.00	0.00	4.39	2.1	329.7		20.81	0.00	0.00	1.45		10.35	18.92	83.84	86.68	09-Sep-18 19:00:00		**31.16**	**18.92**	**83.84**	**88.13**
09-Sep-18 20:00:00	09-Sep-18 21:00:00		35.72	0.00	0.00	4.57	2.1	329.7		11.78	0.00	0.00	1.51		10.35	18.92	83.84	86.68	09-Sep-18 20:00:00		**22.13**	**18.92**	**83.84**	**88.19**
09-Sep-18 21:00:00	09-Sep-18 22:00:00		36.19	0.00	0.00	4.73	2.1	329.7		11.93	0.00	0.00	1.56		10.35	18.92	83.84	86.68	09-Sep-18 21:00:00		**22.28**	**18.92**	**83.84**	**88.24**
09-Sep-18 22:00:00	09-Sep-18 23:00:00		27.91	0.00	0.00	4.91	2.1	329.7		9.20	0.00	0.00	1.62		10.35	18.92	83.84	86.68	09-Sep-18 22:00:00		**19.55**	**18.92**	**83.84**	**88.30**
09-Sep-18 23:00:00	10-Sep-18 00:00:00		40.44	0.00	0.00	5.11	2.1	329.7		13.33	0.00	0.00	1.68		10.35	18.92	83.84	86.68	09-Sep-18 23:00:00		**23.68**	**18.92**	**83.84**	**88.36**
10-Sep-18 00:00:00	10-Sep-18 01:00:00		26.04	0.00	0.00	5.31	2.1	329.7		8.59	0.00	0.00	1.75		10.35	18.92	83.84	86.68	10-Sep-18 00:00:00		**18.94**	**18.92**	**83.84**	**88.43**
10-Sep-18 01:00:00	10-Sep-18 02:00:00		29.76	0.00	0.00	5.49	2.1	329.7		9.81	0.00	0.00	1.81		10.35	18.92	83.84	86.68	10-Sep-18 01:00:00		**20.16**	**18.92**	**83.84**	**88.49**
10-Sep-18 02:00:00	10-Sep-18 03:00:00		19.75	0.00	0.00	5.59	2.1	329.7		6.51	0.00	0.00	1.84		10.35	18.92	83.84	86.68	10-Sep-18 02:00:00		**16.86**	**18.92**	**83.84**	**88.52**
10-Sep-18 03:00:00	10-Sep-18 04:00:00		34.76	0.00	0.00	42.42	2.1	329.7		11.46	0.00	0.00	13.98		10.35	18.92	83.84	86.68	10-Sep-18 03:00:00		**21.81**	**18.92**	**83.84**	**100.66**
10-Sep-18 04:00:00	10-Sep-18 05:00:00		53.87	0.00	0.00	5.54	2.1	329.7		17.76	0.00	0.00	1.83		10.35	18.92	83.84	86.68	10-Sep-18 04:00:00		**28.11**	**18.92**	**83.84**	**88.51**
10-Sep-18 05:00:00	10-Sep-18 06:00:00		68.15	0.00	0.00	5.62	2.1	329.7		22.47	0.00	0.00	1.85		10.35	18.92	83.84	86.68	10-Sep-18 05:00:00		**32.82**	**18.92**	**83.84**	**88.53**
10-Sep-18 06:00:00	10-Sep-18 07:00:00		35.13	0.00	0.00	5.69	2.1	329.7		11.58	0.00	0.00	1.88		10.35	18.92	83.84	86.68	10-Sep-18 06:00:00		**21.93**	**18.92**	**83.84**	**88.56**
10-Sep-18 07:00:00	10-Sep-18 08:00:00		31.85	0.00	0.00	5.75	2.1	329.7		10.50	0.00	0.00	1.90		10.35	18.92	83.84	86.68	10-Sep-18 07:00:00		**20.85**	**18.92**	**83.84**	**88.58**
10-Sep-18 08:00:00	10-Sep-18 09:00:00		29.91	0.00	0.00	5.68	2.1	329.7		9.86	0.00	0.00	1.87		10.35	18.92	83.84	86.68	10-Sep-18 08:00:00		**20.21**	**18.92**	**83.84**	**88.55**
10-Sep-18 09:00:00	10-Sep-18 10:00:00		29.26	0.00	0.00	5.57	2.1	329.7		9.65	0.00	0.00	1.84		10.35	18.92	83.84	86.68	10-Sep-18 09:00:00		**20.00**	**18.92**	**83.84**	**88.52**
10-Sep-18 10:00:00	10-Sep-18 11:00:00		30.58	0.00	0.00	5.46	2.1	329.7		10.08	0.00	0.00	1.80		10.35	18.92	83.84	86.68	10-Sep-18 10:00:00		**20.43**	**18.92**	**83.84**	**88.48**
10-Sep-18 11:00:00	10-Sep-18 12:00:00		41.66	0.00	0.00	5.36	2.1	329.7		13.74	0.00	0.00	1.77		10.35	18.92	83.84	86.68	10-Sep-18 11:00:00		**24.09**	**18.92**	**83.84**	**88.45**
10-Sep-18 12:00:00	10-Sep-18 13:00:00		53.90	0.00	0.00	5.35	2.1	329.7		17.77	0.00	0.00	1.76		10.35	18.92	83.84	86.68	10-Sep-18 12:00:00		**28.12**	**18.92**	**83.84**	**88.44**
10-Sep-18 13:00:00	10-Sep-18 14:00:00		37.09	0.00	0.00	5.35	2.1	329.7		12.23	0.00	0.00	1.77		10.35	18.92	83.84	86.68	10-Sep-18 13:00:00		**22.58**	**18.92**	**83.84**	**88.45**
10-Sep-18 14:00:00	10-Sep-18 15:00:00		14.18	0.00	0.00	5.36	2.1	329.7		4.67	0.00	0.00	1.77		10.35	18.92	83.84	86.68	10-Sep-18 14:00:00		**15.02**	**18.92**	**83.84**	**88.45**
10-Sep-18 15:00:00	10-Sep-18 16:00:00		24.40	0.00	0.00	128.57	2.1	329.7		8.05	0.00	0.00	42.39		10.35	18.92	83.84	86.68	10-Sep-18 15:00:00		**18.40**	**18.92**	**83.84**	**129.07**
10-Sep-18 16:00:00	10-Sep-18 17:00:00		15.65	0.00	0.00	5.83	2.1	329.7		5.16	0.00	0.00	1.92		10.35	18.92	83.84	86.68	10-Sep-18 16:00:00		**15.51**	**18.92**	**83.84**	**88.60**
10-Sep-18 17:00:00	10-Sep-18 18:00:00		12.92	0.00	0.00	5.82	2.1	329.7		4.26	0.00	0.00	1.92		10.35	18.92	83.84	86.68	10-Sep-18 17:00:00		**14.61**	**18.92**	**83.84**	**88.60**
10-Sep-18 18:00:00	10-Sep-18 19:00:00		12.50	0.00	0.00	5.81	2.1	329.7		4.12	0.00	0.00	1.91		10.35	18.92	83.84	86.68	10-Sep-18 18:00:00		**14.47**	**18.92**	**83.84**	**88.59**
10-Sep-18 19:00:00	10-Sep-18 20:00:00		12.07	0.00	0.00	5.79	2.1	329.7		3.98	0.00	0.00	1.91		10.35	18.92	83.84	86.68	10-Sep-18 19:00:00		**14.33**	**18.92**	**83.84**	**88.59**
10-Sep-18 20:00:00	10-Sep-18 21:00:00		11.83	0.00	0.00	5.79	2.1	329.7		3.90	0.00	0.00	1.91		10.35	18.92	83.84	86.68	10-Sep-18 20:00:00		**14.25**	**18.92**	**83.84**	**88.59**
10-Sep-18 21:00:00	10-Sep-18 22:00:00		11.64	0.00	0.00	5.79	2.1	329.7		3.84	0.00	0.00	1.91		10.35	18.92	83.84	86.68	10-Sep-18 21:00:00		**14.19**	**18.92**	**83.84**	**88.59**
10-Sep-18 22:00:00	10-Sep-18 23:00:00		10.69	0.00	0.00	5.80	2.1	329.7		3.53	0.00	0.00	1.91		10.35	18.92	83.84	86.68	10-Sep-18 22:00:00		**13.88**	**18.92**	**83.84**	**88.59**
10-Sep-18 23:00:00	11-Sep-18 00:00:00		17.50	0.00	0.00	5.81	2.1	329.7		5.77	0.00	0.00	1.92		10.35	18.92	83.84	86.68	10-Sep-18 23:00:00		**16.12**	**18.92**	**83.84**	**88.60**
11-Sep-18 00:00:00	11-Sep-18 01:00:00		49.86	0.00	0.00	5.93	2.1	329.7		16.44	0.00	0.00	1.96		10.35	18.92	83.84	86.68	11-Sep-18 00:00:00		**26.79**	**18.92**	**83.84**	**88.64**
11-Sep-18 01:00:00	11-Sep-18 02:00:00		41.07	0.00	0.00	5.88	2.1	329.7		13.54	0.00	0.00	1.94		10.35	18.92	83.84	86.68	11-Sep-18 01:00:00		**23.89**	**18.92**	**83.84**	**88.62**
11-Sep-18 02:00:00	11-Sep-18 03:00:00		42.14	0.00	0.00	5.83	2.1	329.7		13.89	0.00	0.00	1.92		10.35	18.92	83.84	86.68	11-Sep-18 02:00:00		**24.24**	**18.92**	**83.84**	**88.60**
11-Sep-18 03:00:00	11-Sep-18 04:00:00		39.25	0.00	0.00	5.77	2.1	329.7		12.94	0.00	0.00	1.90		10.35	18.92	83.84	86.68	11-Sep-18 03:00:00		**23.29**	**18.92**	**83.84**	**88.58**
11-Sep-18 04:00:00	11-Sep-18 05:00:00		36.15	0.00	0.00	5.68	2.1	329.7		11.92	0.00	0.00	1.87		10.35	18.92	83.84	86.68	11-Sep-18 04:00:00		**22.27**	**18.92**	**83.84**	**88.55**
11-Sep-18 05:00:00	11-Sep-18 06:00:00		37.18	0.00	0.00	5.71	2.1	329.7		12.26	0.00	0.00	1.88		10.35	18.92	83.84	86.68	11-Sep-18 05:00:00		**22.61**	**18.92**	**83.84**	**88.56**
11-Sep-18 06:00:00	11-Sep-18 07:00:00		44.30	0.00	0.00	5.73	2.1	329.7		14.60	0.00	0.00	1.89		10.35	18.92	83.84	86.68	11-Sep-18 06:00:00		**24.95**	**18.92**	**83.84**	**88.57**
11-Sep-18 07:00:00	11-Sep-18 08:00:00		46.43	0.00	0.00	5.76	2.1	329.7		15.31	0.00	0.00	1.90		10.35	18.92	83.84	86.68	11-Sep-18 07:00:00		**25.66**	**18.92**	**83.84**	**88.58**
11-Sep-18 08:00:00	11-Sep-18 09:00:00		49.01	0.00	0.00	5.73	2.1	329.7		16.16	0.00	0.00	1.89		10.35	18.92	83.84	86.68	11-Sep-18 08:00:00		**26.51**	**18.92**	**83.84**	**88.57**
11-Sep-18 09:00:00	11-Sep-18 10:00:00		46.53	0.00	0.00	5.59	2.1	329.7		15.34	0.00	0.00	1.84		10.35	18.92	83.84	86.68	11-Sep-18 09:00:00		**25.69**	**18.92**	**83.84**	**88.52**
11-Sep-18 10:00:00	11-Sep-18 11:00:00		43.21	0.00	0.00	5.45	2.1	329.7		14.25	0.00	0.00	1.80		10.35	18.92	83.84	86.68	11-Sep-18 10:00:00		**24.60**	**18.92**	**83.84**	**88.48**
11-Sep-18 11:00:00	11-Sep-18 12:00:00		39.72	0.00	0.00	5.31	2.1	329.7		13.10	0.00	0.00	1.75		10.35	18.92	83.84	86.68	11-Sep-18 11:00:00		**23.45**	**18.92**	**83.84**	**88.43**
11-Sep-18 12:00:00	11-Sep-18 13:00:00		30.29	0.00	0.00	5.14	2.1	329.7		9.99	0.00	0.00	1.69		10.35	18.92	83.84	86.68	11-Sep-18 12:00:00		**20.34**	**18.92**	**83.84**	**88.37**
11-Sep-18 13:00:00	11-Sep-18 14:00:00		23.71	0.00	0.00	4.94	2.1	329.7		7.82	0.00	0.00	1.63		10.35	18.92	83.84	86.68	11-Sep-18 13:00:00		**18.17**	**18.92**	**83.84**	**88.31**
11-Sep-18 14:00:00	11-Sep-18 15:00:00		38.08	0.00	0.00	4.74	2.1	329.7		12.56	0.00	0.00	1.56		10.35	18.92	83.84	86.68	11-Sep-18 14:00:00		**22.91**	**18.92**	**83.84**	**88.24**
11-Sep-18 15:00:00	11-Sep-18 16:00:00		32.39	0.00	0.00	4.54	2.1	329.7		10.68	0.00	0.00	1.50		10.35	18.92	83.84	86.68	11-Sep-18 15:00:00		**21.03**	**18.92**	**83.84**	**88.18**
11-Sep-18 16:00:00	11-Sep-18 17:00:00		19.84	0.00	0.00	4.44	2.1	329.7		6.54	0.00	0.00	1.47		10.35	18.92	83.84	86.68	11-Sep-18 16:00:00		**16.89**	**18.92**	**83.84**	**88.15**
11-Sep-18 17:00:00	11-Sep-18 18:00:00		23.71	0.00	0.00	4.51	2.1	329.7		7.82	0.00	0.00	1.49		10.35	18.92	83.84	86.68	11-Sep-18 17:00:00		**18.17**	**18.92**	**83.84**	**88.17**
11-Sep-18 18:00:00	11-Sep-18 19:00:00		31.95	0.00	0.00	4.57	2.1	329.7		10.53	0.00	0.00	1.51		10.35	18.92	83.84	86.68	11-Sep-18 18:00:00		**20.88**	**18.92**	**83.84**	**88.19**
11-Sep-18 19:00:00	11-Sep-18 20:00:00		21.50	0.00	0.00	4.64	2.1	329.7		7.09	0.00	0.00	1.53		10.35	18.92	83.84	86.68	11-Sep-18 19:00:00		**17.44**	**18.92**	**83.84**	**88.21**
11-Sep-18 20:00:00	11-Sep-18 21:00:00		24.19	0.00	0.00	4.73	2.1	329.7		7.98	0.00	0.00	1.56		10.35	18.92	83.84	86.68	11-Sep-18 20:00:00		**18.33**	**18.92**	**83.84**	**88.24**
11-Sep-18 21:00:00	11-Sep-18 22:00:00		35.72	0.00	0.00	4.88	2.1	329.7		11.78	0.00	0.00	1.61		10.35	18.92	83.84	86.68	11-Sep-18 21:00:00		**22.13**	**18.92**	**83.84**	**88.29**
11-Sep-18 22:00:00	11-Sep-18 23:00:00		25.07	0.00	0.00	5.03	2.1	329.7		8.27	0.00	0.00	1.66		10.35	18.92	83.84	86.68	11-Sep-18 22:00:00		**18.62**	**18.92**	**83.84**	**88.34**
11-Sep-18 23:00:00	12-Sep-18 00:00:00		25.21	0.00	0.00	5.18	2.1	329.7		8.31	0.00	0.00	1.71		10.35	18.92	83.84	86.68	11-Sep-18 23:00:00		**18.66**	**18.92**	**83.84**	**88.39**
12-Sep-18 00:00:00	12-Sep-18 01:00:00		38.57	0.00	0.00	5.30	2.1	329.7		12.72	0.00	0.00	1.75		10.35	18.92	83.84	86.68	12-Sep-18 00:00:00		**23.07**	**18.92**	**83.84**	**88.43**
12-Sep-18 01:00:00	12-Sep-18 02:00:00		28.75	0.00	0.00	5.42	2.1	329.7		9.48	0.00	0.00	1.79		10.35	18.92	83.84	86.68	12-Sep-18 01:00:00		**19.83**	**18.92**	**83.84**	**88.47**
12-Sep-18 02:00:00	12-Sep-18 03:00:00		26.56	0.00	0.00	5.54	2.1	329.7		8.76	0.00	0.00	1.83		10.35	18.92	83.84	86.68	12-Sep-18 02:00:00		**19.11**	**18.92**	**83.84**	**88.51**
12-Sep-18 03:00:00	12-Sep-18 04:00:00		31.22	0.00	0.00	5.66	2.1	329.7		10.29	0.00	0.00	1.87		10.35	18.92	83.84	86.68	12-Sep-18 03:00:00		**20.64**	**18.92**	**83.84**	**88.55**
12-Sep-18 04:00:00	12-Sep-18 05:00:00		51.62	0.00	0.00	5.70

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
14-Sep-18 06:00:00	14-Sep-18 07:00:00		20.97	0.00	0.00	4.65	2.1	329.7		6.92	0.00	0.00	1.53		10.35	18.92	83.84	86.68	14-Sep-18 06:00:00		**17.27**	**18.92**	**83.84**	**88.21**
14-Sep-18 07:00:00	14-Sep-18 08:00:00		21.87	0.00	0.00	4.65	2.1	329.7		7.21	0.00	0.00	1.53		10.35	18.92	83.84	86.68	14-Sep-18 07:00:00		**17.56**	**18.92**	**83.84**	**88.21**
14-Sep-18 08:00:00	14-Sep-18 09:00:00		23.68	0.00	0.00	4.60	2.1	329.7		7.81	0.00	0.00	1.52		10.35	18.92	83.84	86.68	14-Sep-18 08:00:00		**18.16**	**18.92**	**83.84**	**88.20**
14-Sep-18 09:00:00	14-Sep-18 10:00:00		17.83	0.00	0.00	4.51	2.1	329.7		5.88	0.00	0.00	1.49		10.35	18.92	83.84	86.68	14-Sep-18 09:00:00		**16.23**	**18.92**	**83.84**	**88.17**
14-Sep-18 10:00:00	14-Sep-18 11:00:00		13.94	0.00	0.00	4.42	2.1	329.7		4.59	0.00	0.00	1.46		10.35	18.92	83.84	86.68	14-Sep-18 10:00:00		**14.94**	**18.92**	**83.84**	**88.14**
14-Sep-18 11:00:00	14-Sep-18 12:00:00		9.30	0.00	0.00	4.32	2.1	329.7		3.07	0.00	0.00	1.43		10.35	18.92	83.84	86.68	14-Sep-18 11:00:00		**13.42**	**18.92**	**83.84**	**88.11**
14-Sep-18 12:00:00	14-Sep-18 13:00:00		8.88	0.00	0.00	4.41	2.1	329.7		2.93	0.00	0.00	1.45		10.35	18.92	83.84	86.68	14-Sep-18 12:00:00		**13.28**	**18.92**	**83.84**	**88.13**
14-Sep-18 13:00:00	14-Sep-18 14:00:00		8.46	0.00	0.00	4.39	2.1	329.7		2.79	0.00	0.00	1.45		10.35	18.92	83.84	86.68	14-Sep-18 13:00:00		**13.14**	**18.92**	**83.84**	**88.13**
14-Sep-18 14:00:00	14-Sep-18 15:00:00		8.11	0.00	0.00	4.35	2.1	329.7		2.67	0.00	0.00	1.43		10.35	18.92	83.84	86.68	14-Sep-18 14:00:00		**13.02**	**18.92**	**83.84**	**88.11**
14-Sep-18 15:00:00	14-Sep-18 16:00:00		8.46	0.00	0.00	4.31	2.1	329.7		2.79	0.00	0.00	1.42		10.35	18.92	83.84	86.68	14-Sep-18 15:00:00		**13.14**	**18.92**	**83.84**	**88.10**
14-Sep-18 16:00:00	14-Sep-18 17:00:00		8.96	0.00	0.00	4.44	2.1	329.7		2.95	0.00	0.00	1.46		10.35	18.92	83.84	86.68	14-Sep-18 16:00:00		**13.30**	**18.92**	**83.84**	**88.14**
14-Sep-18 17:00:00	14-Sep-18 18:00:00		9.46	0.00	0.00	4.66	2.1	329.7		3.12	0.00	0.00	1.54		10.35	18.92	83.84	86.68	14-Sep-18 17:00:00		**13.47**	**18.92**	**83.84**	**88.22**
14-Sep-18 18:00:00	14-Sep-18 19:00:00		19.01	0.00	0.00	4.87	2.1	329.7		6.27	0.00	0.00	1.61		10.35	18.92	83.84	86.68	14-Sep-18 18:00:00		**16.62**	**18.92**	**83.84**	**88.29**
14-Sep-18 19:00:00	14-Sep-18 20:00:00		10.78	0.00	0.00	5.08	2.1	329.7		3.55	0.00	0.00	1.68		10.35	18.92	83.84	86.68	14-Sep-18 19:00:00		**13.90**	**18.92**	**83.84**	**88.36**
14-Sep-18 20:00:00	14-Sep-18 21:00:00		5.39	0.00	0.00	5.26	2.1	329.7		1.78	0.00	0.00	1.74		10.35	18.92	83.84	86.68	14-Sep-18 20:00:00		**12.13**	**18.92**	**83.84**	**88.42**
14-Sep-18 21:00:00	14-Sep-18 22:00:00		8.75	0.00	0.00	5.23	2.1	329.7		2.88	0.00	0.00	1.72		10.35	18.92	83.84	86.68	14-Sep-18 21:00:00		**13.23**	**18.92**	**83.84**	**88.40**
14-Sep-18 22:00:00	14-Sep-18 23:00:00		12.10	0.00	0.00	5.18	2.1	329.7		3.99	0.00	0.00	1.71		10.35	18.92	83.84	86.68	14-Sep-18 22:00:00		**14.34**	**18.92**	**83.84**	**88.39**
14-Sep-18 23:00:00	15-Sep-18 00:00:00		9.85	0.00	0.00	5.13	2.1	329.7		3.25	0.00	0.00	1.69		10.35	18.92	83.84	86.68	14-Sep-18 23:00:00		**13.60**	**18.92**	**83.84**	**88.37**
15-Sep-18 00:00:00	15-Sep-18 01:00:00		34.62	0.00	0.00	5.16	2.1	329.7		11.42	0.00	0.00	1.70		10.35	18.92	83.84	86.68	15-Sep-18 00:00:00		**21.77**	**18.92**	**83.84**	**88.38**
15-Sep-18 01:00:00	15-Sep-18 02:00:00		54.90	0.00	0.00	5.14	2.1	329.7		18.10	0.00	0.00	1.70		10.35	18.92	83.84	86.68	15-Sep-18 01:00:00		**28.45**	**18.92**	**83.84**	**88.38**
15-Sep-18 02:00:00	15-Sep-18 03:00:00		51.84	0.00	0.00	5.12	2.1	329.7		17.09	0.00	0.00	1.69		10.35	18.92	83.84	86.68	15-Sep-18 02:00:00		**27.44**	**18.92**	**83.84**	**88.37**
15-Sep-18 03:00:00	15-Sep-18 04:00:00		50.57	0.00	0.00	5.09	2.1	329.7		16.67	0.00	0.00	1.68		10.35	18.92	83.84	86.68	15-Sep-18 03:00:00		**27.02**	**18.92**	**83.84**	**88.36**
15-Sep-18 04:00:00	15-Sep-18 05:00:00		50.53	0.00	0.00	5.17	2.1	329.7		16.66	0.00	0.00	1.70		10.35	18.92	83.84	86.68	15-Sep-18 04:00:00		**27.01**	**18.92**	**83.84**	**88.38**
15-Sep-18 05:00:00	15-Sep-18 06:00:00		52.81	0.00	0.00	5.20	2.1	329.7		17.41	0.00	0.00	1.72		10.35	18.92	83.84	86.68	15-Sep-18 05:00:00		**27.76**	**18.92**	**83.84**	**88.40**
15-Sep-18 06:00:00	15-Sep-18 07:00:00		53.52	0.00	0.00	5.23	2.1	329.7		17.64	0.00	0.00	1.72		10.35	18.92	83.84	86.68	15-Sep-18 06:00:00		**27.99**	**18.92**	**83.84**	**88.40**
15-Sep-18 07:00:00	15-Sep-18 08:00:00		62.92	0.00	0.00	5.25	2.1	329.7		20.75	0.00	0.00	1.73		10.35	18.92	83.84	86.68	15-Sep-18 07:00:00		**31.10**	**18.92**	**83.84**	**88.41**
15-Sep-18 08:00:00	15-Sep-18 09:00:00		50.40	0.00	0.00	5.26	2.1	329.7		16.62	0.00	0.00	1.73		10.35	18.92	83.84	86.68	15-Sep-18 08:00:00		**26.97**	**18.92**	**83.84**	**88.41**
15-Sep-18 09:00:00	15-Sep-18 10:00:00		45.80	0.00	0.00	5.22	2.1	329.7		15.10	0.00	0.00	1.72		10.35	18.92	83.84	86.68	15-Sep-18 09:00:00		**25.45**	**18.92**	**83.84**	**88.40**
15-Sep-18 10:00:00	15-Sep-18 11:00:00		45.16	0.00	0.00	5.19	2.1	329.7		14.89	0.00	0.00	1.71		10.35	18.92	83.84	86.68	15-Sep-18 10:00:00		**25.24**	**18.92**	**83.84**	**88.39**
15-Sep-18 11:00:00	15-Sep-18 12:00:00		42.95	0.00	0.00	5.15	2.1	329.7		14.16	0.00	0.00	1.70		10.35	18.92	83.84	86.68	15-Sep-18 11:00:00		**24.51**	**18.92**	**83.84**	**88.38**
15-Sep-18 12:00:00	15-Sep-18 13:00:00		46.14	0.00	0.00	5.14	2.1	329.7		15.21	0.00	0.00	1.69		10.35	18.92	83.84	86.68	15-Sep-18 12:00:00		**25.56**	**18.92**	**83.84**	**88.37**
15-Sep-18 13:00:00	15-Sep-18 14:00:00		48.13	0.00	0.00	5.26	2.1	329.7		15.87	0.00	0.00	1.73		10.35	18.92	83.84	86.68	15-Sep-18 13:00:00		**26.22**	**18.92**	**83.84**	**88.41**
15-Sep-18 14:00:00	15-Sep-18 15:00:00		48.74	0.00	0.00	5.39	2.1	329.7		16.07	0.00	0.00	1.78		10.35	18.92	83.84	86.68	15-Sep-18 14:00:00		**26.42**	**18.92**	**83.84**	**88.46**
15-Sep-18 15:00:00	15-Sep-18 16:00:00		50.13	0.00	0.00	5.51	2.1	329.7		16.53	0.00	0.00	1.82		10.35	18.92	83.84	86.68	15-Sep-18 15:00:00		**26.88**	**18.92**	**83.84**	**88.50**
15-Sep-18 16:00:00	15-Sep-18 17:00:00		28.51	0.00	0.00	5.54	2.1	329.7		9.40	0.00	0.00	1.83		10.35	18.92	83.84	86.68	15-Sep-18 16:00:00		**19.75**	**18.92**	**83.84**	**88.51**
15-Sep-18 17:00:00	15-Sep-18 18:00:00		41.92	0.00	0.00	37.89	2.1	329.7		13.82	0.00	0.00	12.49		10.35	18.92	83.84	86.68	15-Sep-18 17:00:00		**24.17**	**18.92**	**83.84**	**99.17**
15-Sep-18 18:00:00	15-Sep-18 19:00:00		43.00	0.00	0.00	5.54	2.1	329.7		14.18	0.00	0.00	1.83		10.35	18.92	83.84	86.68	15-Sep-18 18:00:00		**24.53**	**18.92**	**83.84**	**88.51**
15-Sep-18 19:00:00	15-Sep-18 20:00:00		66.55	0.00	0.00	5.72	2.1	329.7		21.94	0.00	0.00	1.89		10.35	18.92	83.84	86.68	15-Sep-18 19:00:00		**32.29**	**18.92**	**83.84**	**88.57**
15-Sep-18 20:00:00	15-Sep-18 21:00:00		28.99	0.00	0.00	5.91	2.1	329.7		9.56	0.00	0.00	1.95		10.35	18.92	83.84	86.68	15-Sep-18 20:00:00		**19.91**	**18.92**	**83.84**	**88.63**
15-Sep-18 21:00:00	15-Sep-18 22:00:00		71.66	0.00	0.00	6.13	2.1	329.7		23.63	0.00	0.00	2.02		10.35	18.92	83.84	86.68	15-Sep-18 21:00:00		**33.98**	**18.92**	**83.84**	**88.70**
15-Sep-18 22:00:00	15-Sep-18 23:00:00		74.78	0.00	0.00	6.17	2.1	329.7		24.66	0.00	0.00	2.03		10.35	18.92	83.84	86.68	15-Sep-18 22:00:00		**35.01**	**18.92**	**83.84**	**88.71**
15-Sep-18 23:00:00	16-Sep-18 00:00:00		65.26	0.00	0.00	6.04	2.1	329.7		21.52	0.00	0.00	1.99		10.35	18.92	83.84	86.68	15-Sep-18 23:00:00		**31.87**	**18.92**	**83.84**	**88.67**
16-Sep-18 00:00:00	16-Sep-18 01:00:00		66.76	0.00	0.00	5.92	2.1	329.7		22.01	0.00	0.00	1.95		10.35	18.92	83.84	86.68	16-Sep-18 00:00:00		**32.36**	**18.92**	**83.84**	**88.63**
16-Sep-18 01:00:00	16-Sep-18 02:00:00		66.29	0.00	0.00	5.80	2.1	329.7		21.86	0.00	0.00	1.91		10.35	18.92	83.84	86.68	16-Sep-18 01:00:00		**32.21**	**18.92**	**83.84**	**88.59**
16-Sep-18 02:00:00	16-Sep-18 03:00:00		65.27	0.00	0.00	5.78	2.1	329.7		21.52	0.00	0.00	1.91		10.35	18.92	83.84	86.68	16-Sep-18 02:00:00		**31.87**	**18.92**	**83.84**	**88.59**
16-Sep-18 03:00:00	16-Sep-18 04:00:00		31.96	0.00	0.00	5.83	2.1	329.7		10.54	0.00	0.00	1.92		10.35	18.92	83.84	86.68	16-Sep-18 03:00:00		**20.89**	**18.92**	**83.84**	**88.60**
16-Sep-18 04:00:00	16-Sep-18 05:00:00		18.86	0.00	0.00	5.88	2.1	329.7		6.22	0.00	0.00	1.94		10.35	18.92	83.84	86.68	16-Sep-18 04:00:00		**16.57**	**18.92**	**83.84**	**88.62**
16-Sep-18 05:00:00	16-Sep-18 06:00:00		39.75	0.00	0.00	6.02	2.1	329.7		13.11	0.00	0.00	1.99		10.35	18.92	83.84	86.68	16-Sep-18 05:00:00		**23.46**	**18.92**	**83.84**	**88.67**
16-Sep-18 06:00:00	16-Sep-18 07:00:00		45.97	0.00	0.00	6.24	2.1	329.7		15.16	0.00	0.00	2.06		10.35	18.92	83.84	86.68	16-Sep-18 06:00:00		**25.51**	**18.92**	**83.84**	**88.74**
16-Sep-18 07:00:00	16-Sep-18 08:00:00		47.55	0.00	0.00	6.22	2.1	329.7		15.68	0.00	0.00	2.05		10.35	18.92	83.84	86.68	16-Sep-18 07:00:00		**26.03**	**18.92**	**83.84**	**88.73**
16-Sep-18 08:00:00	16-Sep-18 09:00:00		58.58	0.00	0.00	6.19	2.1	329.7		19.31	0.00	0.00	2.04		10.35	18.92	83.84	86.68	16-Sep-18 08:00:00		**29.66**	**18.92**	**83.84**	**88.72**
16-Sep-18 09:00:00	16-Sep-18 10:00:00		62.92	0.00	0.00	6.20	2.1	329.7		20.75	0.00	0.00	2.04		10.35	18.92	83.84	86.68	16-Sep-18 09:00:00		**31.10**	**18.92**	**83.84**	**88.72**
16-Sep-18 10:00:00	16-Sep-18 11:00:00		50.92	0.00	0.00	6.21	2.1	329.7		16.79	0.00	0.00	2.05		10.35	18.92	83.84	86.68	16-Sep-18 10:00:00		**27.14**	**18.92**	**83.84**	**88.73**
16-Sep-18 11:00:00	16-Sep-18 12:00:00		25.68	0.00	0.00	6.15	2.1	329.7		8.47	0.00	0.00	2.03		10.35	18.92	83.84	86.68	16-Sep-18 11:00:00		**18.82**	**18.92**	**83.84**	**88.71**
16-Sep-18 12:00:00	16-Sep-18 13:00:00		26.85	0.00	0.00	6.09	2.1	329.7		8.85	0.00	0.00	2.01		10.35	18.92	83.84	86.68	16-Sep-18 12:00:00		**19.20**	**18.92**	**83.84**	**88.69**
16-Sep-18 13:00:00	16-Sep-18 14:00:00		27.42	0.00	0.00	6.04	2.1	329.7		9.04	0.00	0.00	1.99		10.35	18.92	83.84	86.68	16-Sep-18 13:00:00		**19.39**	**18.92**	**83.84**	**88.67**
16-Sep-18 14:00:00	16-Sep-18 15:00:00		28.73	0.00	0.00	5.99	2.1	329.7		9.47	0.00	0.00	1.97		10.35	18.92	83.84	86.68	16-Sep-18 14:00:00		**19.82**	**18.92**	**83.84**	**88.65**
16-Sep-18 15:00:00	16-Sep-18 16:00:00		28.65	0.00	0.00	5.90	2.1	329.7		9.45	0.00	0.00	1.95		10.35	18.92	83.84	86.68	16-Sep-18 15:00:00		**19.80**	**18.92**	**83.84**	**88.63**
16-Sep-18 16:00:00	16-Sep-18 17:00:00		26.33	0.00	0.00	5.82	2.1	329.7		8.68	0.00	0.00	1.92		10.35	18.92	83.84	86.68	16-Sep-18 16:00:00		**19.03**	**18.92**	**83.84**	**88.60**
16-Sep-18 17:00:00	16-Sep-18 18:00:00		27.69	0.00	0.00	5.75	2.1	329.7		9.13	0.00	0.00	1.90		10.35	18.92	83.84	86.68	16-Sep-18 17:00:00		**19.48**	**18.92**	**83.84**	**88.58**
16-Sep-18 18:00:00	16-Sep-18 19:00:00		27.37	0.00	0.00	5.74	2.1	329.7		9.02	0.00	0.00	1.89		10.35	18.92	83.84	86.68	16-Sep-18 18:00:00		**19.37**	**18.92**	**83.84**	**88.57**
16-Sep-18 19:00:00	16-Sep-18 20:00:00		28.73	0.00	0.00	5.71	2.1	329.7		9.47	0.00	0.00	1.88		10.35	18.92	83.84	86.68	16-Sep-18 19:00:00		**19.82**	**18.92**	**83.84**	**88.56**
16-Sep-18 20:00:00	16-Sep-18 21:00:00		32.61	0.00	0.00	5.67	2.1	329.7		10.75	0.00	0.00	1.87		10.35	18.92	83.84	86.68	16-Sep-18 20:00:00		**21.10**	**18.92**	**83.84**	**88.55**
16-Sep-18 21:00:00	16-Sep-18 22:00:00		31.50	0.00	0.00	5.55	2.1	329.7		10.38	0.00	0.00	1.83		10.35	18.92	83.84	86.68	16-Sep-18 21:00:00		**20.73**	**18.92**	**83.84**	**88.51**
16-Sep-18 22:00:00	16-Sep-18 23:00:00		27.61	0.00	0.00	5.31	2.1	329.7		9.10	0.00	0.00	1.75		10.35	18.92	83.84	86.68	16-Sep-18 22:00:00		**19.45**	**18.92**	**83.84**	**88.43**
16-Sep-18 23:00:00	17-Sep-18 00:00:00		27.19	0.00	0.00	5.29	2.1	329.7		8.97	0.00	0.00	1.74		10.35	18.92	83.84	86.68	16-Sep-18 23:00:00		**19.32**	**18.92**	**83.84**	**88.42**
17-Sep-18 00:00:00	17-Sep-18 01:00:00		24.14	0.00	0.00	5.27	2.1	329.7		7.96	0.00	0.00	1.74		10.35	18.92	83.84	86.68	17-Sep-18 00:00:00		**18.31**	**18.92**	**83.84**	**88.42**
17-Sep-18 01:00:00	17-Sep-18 02:00:00		24.84	0.00	0.00	5.26	2.1	329.7		8.19	0.00	0.00	1.73		10.35	18.92	83.84	86.68	17-Sep-18 01:00:00		**18.54**	**18.92**	**83.84**	**88.41**
17-Sep-18 02:00:00	17-Sep-18 03:00:00		24.52	0.00	0.00	5.23	2.1	329.7		8.09	0.00	0.00	1.72		10.35	18.92	83.84	86.68	17-Sep-18 02:00:00		**18.44**	**18.92**	**83.84**	**88.40**
17-Sep-18 03:00:00	17-Sep-18 04:00:00		24.21	0.00	0.00	5.18	2.1	329.7		7.98	0.00	0.00	1.71		10.35	18.92	83.84	86.68	17-Sep-18 03:00:00		**18.33**	**18.92**	**83.84**	**88.39**
17-Sep-18 04:00:00	17-Sep-18 05:00:00		27.53	0.00	0.00	5.14	2.1	329.7		9.08	0.00	0.00	1.69		10.35	18.92	83.84	86.68	17-Sep-18 04:00:00		**19.43**	**18.92**	**83.84**	**88.37**
17-Sep-18 05:00:00	17-Sep-18 06:00:00		24.08	0.00	0.00	5.05	2.1	329.7		7.94	0.00	0.00	1.67		10.35	18.92	83.84	86.68	17-Sep-18 05:00:00		**18.29**	**18.92**	**83.84**	**88.35**
17-Sep-18 06:00:00	17-Sep-18 07:00:00		689.45	467.40	0.00	4.89	2.1	329.7		227.31	154.10	0.00	1.61		10.35	18.92	83.84	86.68	17-Sep-18 06:00:00		**237.66**	**173.02**	**83.84**	**88.29**
17-Sep-18 07:00:00	17-Sep-18 08:00:00		1,212.61	578.54	0.00	4.84	2.1	329.7		399.80	190.74	0.00	1.60		10.35	18.92	83.84	86.68	17-Sep-18 07:00:00		**410.15**	**209.66**	**83.84**	**88.28**
17-Sep-18 08:00:00	17-Sep-18 09:00:00		1,084.12	530.59	0.00	4.80	2.1	329.7		357.43	174.94	0.00	1.58		10.35	18.92	83.84	86.68	17-Sep-18 08:00:00		**367.78**	**193.86**	**83.84**	**88.26**
17-Sep-18 09:00:00	17-Sep-18 10:00:00		999.96	470.85	0.00	4.75	2.1	329.7		329.69	155.24	0.00	1.57		10.35	18.92	83.84	86.68	17-Sep-18 09:00:00		**340.04**	**174.16**	**83.84**	**88.25**
17-Sep-18 10:00:00	17-Sep-18 11:00:00		148.63	436.53	0.00	4.71	2.1	329.7		49.00	143.92	0.00	1.55		10.35	18.92	83.84	86.68	17-Sep-18 10:00:00		**59.35**	**162.84**	**83.84**	**88.23**
17-Sep-18 11:00:00	17-Sep-18 12:00:00		1,134.41	543.73	0.00	4.69	2.1	329.7		374.01	179.27	0.00	1.55		10.35	18.92	83.84	86.68	17-Sep-18 11:00:00		**384.36**	**198.19**	**83.84**	**88.23**
17-Sep-18 12:00:00	17-Sep-18 13:00:00		783.69	1,019.47	0.00	4.67	2.1	329.7		258.38	336.12	0.00	1.54		10.35	18.92	83.84	86.68	17-Sep-18 12:00:00		**268.73**	**355.04**	**83.84**	**88.22**
17-Sep-18 13:00:00	17-Sep-18 14:00:00		672.24	613.12	0.00	4.67	2.1	329.7		221.64	202.14	0.00	1.54		10.35	18.92	83.84	86.68	17-Sep-18 13:00:00		**231.99**	**221.06**	**83.84**	**88.22**
17-Sep-18 14:00:00	17-Sep-18 15:00:00		476.40	852.01	0.00	4.67	2.1	329.7		157.07	280.91	0.00	1.54		10.35	18.92	83.84	86.68	17-Sep-18 14:00:00		**167.42**	**299.83**	**83.84**	**88.22**
17-Sep-18 15:00:00	17-Sep-18 16:00:00		660.88	1,072.18	0.00	4.58	2.1	329.7		217.89	353.50	0.00	1.51		10.35	18.92	83.84	86.68	17-Sep-18 15:00:00		**228.24**	**372.42**	**83.84**	**88.19**
17-Sep-18 16:00:00	17-Sep-18 17:00:00		563.92	1,088.66	0.00	4.48	2.1	329.7		185.92	358.93	0.00	1.48		10.35	18.92	83.84	86.68	17-Sep-18 16:00:00		**196.27**	**377.85**	**83.84**	**88.16**
17-Sep-18 17:00:00	17-Sep-18 18:00:00		351.46	1,084.83	0.00	4.33	2.1	329.7		115.88	357.67	0.00	1.43		10.35	18.92	83.84	86.68	17-Sep-18 17:00:00		**126.23**	**376.59**	**83.84**	**88.11**
17-Sep-18 18:00:00	17-Sep-18 19:00:00		0.00	1,086.44	0.00	4.22	2.1	329.7		0.00	358.20	0.00	1.39		10.35	18.92	83.84	86.68	17-Sep-18 18:00:00		**10.35**	**377.12**	**83.84**	**88.07**
17-Sep-18 19:00:00	17-Sep-18 20:00:00		0.00	1,089.79	0.00	4.35	2.1	329.7		0.00	359.30	0.00	1.44		10.35	18.92	83.84	86.68	17-Sep-18 19:00:00		**10.35**	**378.22**	**83.84**	**88.12**
17-Sep-18 20:00:00	17-Sep-18 21:00:00		0.00	1,089.79	0.00	4.48	2.1	329.7		0.00	359.30	0.00	1.48		10.35	18.92	83.84	86.68	17-Sep-18 20:00:00		**10.35**	**378.22**	**83.84**	**88.16**
17-Sep-18 21:00:00	17-Sep-18 22:00:00		0.00	1,094.07	0.00	4.66	2.1	329.7		0.00	360.71	0.00	1.54		10.35	18.92	83.84	86.68	17-Sep-18 21:00:00		**10.35**	**379.63**	**83.84**	**88.22**
17-Sep-18 22:00:00	17-Sep-18 23:00:00		0.00	1,094.12	0.00	4.92	2.1	329.7		0.00	360.73	0.00	1.62		10.35	18.92	83.84	86.68	17-Sep-18 22:00:00		**10.35**	**379.65**	**83.84**	**88.30**
17-Sep-18 23:00:00	18-Sep-18 00:00:00		0.00	1,095.80	0.00	5.02	2.1	329.7		0.00	361.29	0.00	1.66		10.35	18.92	83.84	86.68	17-Sep-18 23:00:00		**10.35**	**380.21**	**83.84**	**88.34**
18-Sep-18 00:00:00	18-Sep-18 01:00:00		0.00	810.37	0.00	5.13	2.1	329.7		0.00	267.18	0.00	1.69		10.35	18.92	83.84	86.68	18-Sep-18 00:00:00		**10.35**	**286.10**	**83.84**	**88.37**
18-Sep-18 01:00:00	18-Sep-18 02:00:00		0.00	507.93	0.00	5.22	2.1	329.7		0.00	167.46	0.00	1.72		10.35	18.92	83.84	86.68	18-Sep-18 01:00:00		**10.35**	**186.38**	**83.84**	**88.40**
18-Sep-18 02:00:00	18-Sep-18 03:00:00		0.00	508.36	0.00	5.24	2.1	329.7		0.00	167.61	0.00	1.73		10.35	18.92	83.84	86.68	18-Sep-18 02:00:00		**10.35**	**186.53**	**83.84**	**88.41**
18-Sep-18 03:00:00	18-Sep-18 04:00

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
20-Sep-18 05:00:00	20-Sep-18 06:00:00		36.85	0.00	0.00	5.66	2.1	329.7		12.15	0.00	0.00	1.87		10.35	18.92	83.84	86.68	20-Sep-18 05:00:00		22.50	18.92	83.84	88.55
20-Sep-18 06:00:00	20-Sep-18 07:00:00		78.74	0.00	0.00	5.66	2.1	329.7		25.96	0.00	0.00	1.87		10.35	18.92	83.84	86.68	20-Sep-18 06:00:00		36.31	18.92	83.84	88.55
20-Sep-18 07:00:00	20-Sep-18 08:00:00		76.81	0.00	0.00	5.49	2.1	329.7		25.33	0.00	0.00	1.81		10.35	18.92	83.84	86.68	20-Sep-18 07:00:00		35.68	18.92	83.84	88.49
20-Sep-18 08:00:00	20-Sep-18 09:00:00		67.69	0.00	0.00	5.32	2.1	329.7		22.32	0.00	0.00	1.75		10.35	18.92	83.84	86.68	20-Sep-18 08:00:00		32.67	18.92	83.84	88.43
20-Sep-18 09:00:00	20-Sep-18 10:00:00		52.27	0.00	0.00	5.16	2.1	329.7		17.23	0.00	0.00	1.70		10.35	18.92	83.84	86.68	20-Sep-18 09:00:00		27.58	18.92	83.84	88.38
20-Sep-18 10:00:00	20-Sep-18 11:00:00		41.49	0.00	0.00	5.07	2.1	329.7		13.68	0.00	0.00	1.67		10.35	18.92	83.84	86.68	20-Sep-18 10:00:00		24.03	18.92	83.84	88.35
20-Sep-18 11:00:00	20-Sep-18 12:00:00		24.06	0.00	0.00	4.84	2.1	329.7		7.93	0.00	0.00	1.60		10.35	18.92	83.84	86.68	20-Sep-18 11:00:00		18.28	18.92	83.84	88.28
20-Sep-18 12:00:00	20-Sep-18 13:00:00		44.76	0.00	0.00	4.61	2.1	329.7		14.76	0.00	0.00	1.52		10.35	18.92	83.84	86.68	20-Sep-18 12:00:00		25.11	18.92	83.84	88.20
20-Sep-18 13:00:00	20-Sep-18 14:00:00		19.99	0.00	0.00	4.37	2.1	329.7		6.59	0.00	0.00	1.44		10.35	18.92	83.84	86.68	20-Sep-18 13:00:00		16.94	18.92	83.84	88.12
20-Sep-18 14:00:00	20-Sep-18 15:00:00		37.54	0.00	0.00	4.18	2.1	329.7		12.38	0.00	0.00	1.38		10.35	18.92	83.84	86.68	20-Sep-18 14:00:00		22.73	18.92	83.84	88.06
20-Sep-18 15:00:00	20-Sep-18 16:00:00		36.94	0.00	0.00	4.23	2.1	329.7		12.18	0.00	0.00	1.40		10.35	18.92	83.84	86.68	20-Sep-18 15:00:00		22.53	18.92	83.84	88.08
20-Sep-18 16:00:00	20-Sep-18 17:00:00		43.93	0.00	0.00	4.28	2.1	329.7		14.48	0.00	0.00	1.41		10.35	18.92	83.84	86.68	20-Sep-18 16:00:00		24.83	18.92	83.84	88.09
20-Sep-18 17:00:00	20-Sep-18 18:00:00		38.22	0.00	0.00	4.33	2.1	329.7		12.60	0.00	0.00	1.43		10.35	18.92	83.84	86.68	20-Sep-18 17:00:00		22.95	18.92	83.84	88.11
20-Sep-18 18:00:00	20-Sep-18 19:00:00		38.26	0.00	0.00	4.48	2.1	329.7		12.61	0.00	0.00	1.48		10.35	18.92	83.84	86.68	20-Sep-18 18:00:00		22.96	18.92	83.84	88.16
20-Sep-18 19:00:00	20-Sep-18 20:00:00		39.97	0.00	0.00	4.68	2.1	329.7		13.18	0.00	0.00	1.54		10.35	18.92	83.84	86.68	20-Sep-18 19:00:00		23.53	18.92	83.84	88.22
20-Sep-18 20:00:00	20-Sep-18 21:00:00		44.50	0.00	0.00	4.89	2.1	329.7		14.67	0.00	0.00	1.61		10.35	18.92	83.84	86.68	20-Sep-18 20:00:00		25.02	18.92	83.84	88.29
20-Sep-18 21:00:00	20-Sep-18 22:00:00		25.92	0.00	0.00	5.09	2.1	329.7		8.55	0.00	0.00	1.68		10.35	18.92	83.84	86.68	20-Sep-18 21:00:00		18.90	18.92	83.84	88.36
20-Sep-18 22:00:00	20-Sep-18 23:00:00		20.05	0.00	0.00	5.24	2.1	329.7		6.61	0.00	0.00	1.73		10.35	18.92	83.84	86.68	20-Sep-18 22:00:00		16.96	18.92	83.84	88.41
20-Sep-18 23:00:00	21-Sep-18 00:00:00		39.69	0.00	0.00	5.35	2.1	329.7		13.09	0.00	0.00	1.77		10.35	18.92	83.84	86.68	20-Sep-18 23:00:00		23.44	18.92	83.84	88.45
21-Sep-18 00:00:00	21-Sep-18 01:00:00		50.99	0.00	0.00	5.47	2.1	329.7		16.81	0.00	0.00	1.80		10.35	18.92	83.84	86.68	21-Sep-18 00:00:00		27.16	18.92	83.84	88.48
21-Sep-18 01:00:00	21-Sep-18 02:00:00		19.84	0.00	0.00	5.59	2.1	329.7		6.54	0.00	0.00	1.84		10.35	18.92	83.84	86.68	21-Sep-18 01:00:00		16.89	18.92	83.84	88.52
21-Sep-18 02:00:00	21-Sep-18 03:00:00		18.05	0.00	0.00	5.68	2.1	329.7		5.95	0.00	0.00	1.87		10.35	18.92	83.84	86.68	21-Sep-18 02:00:00		16.30	18.92	83.84	88.55
21-Sep-18 03:00:00	21-Sep-18 04:00:00		16.85	0.00	0.00	5.70	2.1	329.7		5.55	0.00	0.00	1.88		10.35	18.92	83.84	86.68	21-Sep-18 03:00:00		15.90	18.92	83.84	88.56
21-Sep-18 04:00:00	21-Sep-18 05:00:00		43.24	0.00	0.00	5.71	2.1	329.7		14.26	0.00	0.00	1.88		10.35	18.92	83.84	86.68	21-Sep-18 04:00:00		24.61	18.92	83.84	88.56
21-Sep-18 05:00:00	21-Sep-18 06:00:00		74.55	0.00	0.00	5.73	2.1	329.7		24.58	0.00	0.00	1.89		10.35	18.92	83.84	86.68	21-Sep-18 05:00:00		34.93	18.92	83.84	88.57
21-Sep-18 06:00:00	21-Sep-18 07:00:00		74.81	0.00	0.00	5.66	2.1	329.7		24.66	0.00	0.00	1.87		10.35	18.92	83.84	86.68	21-Sep-18 06:00:00		35.01	18.92	83.84	88.55
21-Sep-18 07:00:00	21-Sep-18 08:00:00		81.16	0.00	0.00	5.53	2.1	329.7		26.76	0.00	0.00	1.82		10.35	18.92	83.84	86.68	21-Sep-18 07:00:00		37.11	18.92	83.84	88.50
21-Sep-18 08:00:00	21-Sep-18 09:00:00		74.13	0.00	0.00	5.40	2.1	329.7		24.44	0.00	0.00	1.78		10.35	18.92	83.84	86.68	21-Sep-18 08:00:00		34.79	18.92	83.84	88.46
21-Sep-18 09:00:00	21-Sep-18 10:00:00		74.63	0.00	0.00	5.27	2.1	329.7		24.61	0.00	0.00	1.74		10.35	18.92	83.84	86.68	21-Sep-18 09:00:00		34.96	18.92	83.84	88.42
21-Sep-18 10:00:00	21-Sep-18 11:00:00		75.17	0.00	0.00	5.13	2.1	329.7		24.78	0.00	0.00	1.69		10.35	18.92	83.84	86.68	21-Sep-18 10:00:00		35.13	18.92	83.84	88.37
21-Sep-18 11:00:00	21-Sep-18 12:00:00		51.77	0.00	0.00	4.95	2.1	329.7		17.07	0.00	0.00	1.63		10.35	18.92	83.84	86.68	21-Sep-18 11:00:00		27.42	18.92	83.84	88.31
21-Sep-18 12:00:00	21-Sep-18 13:00:00		15.98	0.00	0.00	4.78	2.1	329.7		5.27	0.00	0.00	1.58		10.35	18.92	83.84	86.68	21-Sep-18 12:00:00		15.62	18.92	83.84	88.26
21-Sep-18 13:00:00	21-Sep-18 14:00:00		33.75	0.00	0.00	4.61	2.1	329.7		11.13	0.00	0.00	1.52		10.35	18.92	83.84	86.68	21-Sep-18 13:00:00		21.48	18.92	83.84	88.20
21-Sep-18 14:00:00	21-Sep-18 15:00:00		27.47	0.00	0.00	4.52	2.1	329.7		9.06	0.00	0.00	1.49		10.35	18.92	83.84	86.68	21-Sep-18 14:00:00		19.41	18.92	83.84	88.17
21-Sep-18 15:00:00	21-Sep-18 16:00:00		23.50	0.00	0.00	4.41	2.1	329.7		7.75	0.00	0.00	1.46		10.35	18.92	83.84	86.68	21-Sep-18 15:00:00		18.10	18.92	83.84	88.14
21-Sep-18 16:00:00	21-Sep-18 17:00:00		44.75	0.00	0.00	4.31	2.1	329.7		14.75	0.00	0.00	1.42		10.35	18.92	83.84	86.68	21-Sep-18 16:00:00		25.10	18.92	83.84	88.10
21-Sep-18 17:00:00	21-Sep-18 18:00:00		48.13	0.00	0.00	4.21	2.1	329.7		15.87	0.00	0.00	1.39		10.35	18.92	83.84	86.68	21-Sep-18 17:00:00		26.22	18.92	83.84	88.07
21-Sep-18 18:00:00	21-Sep-18 19:00:00		26.69	0.00	0.00	4.38	2.1	329.7		8.80	0.00	0.00	1.44		10.35	18.92	83.84	86.68	21-Sep-18 18:00:00		19.15	18.92	83.84	88.12
21-Sep-18 19:00:00	21-Sep-18 20:00:00		18.87	0.00	0.00	4.54	2.1	329.7		6.22	0.00	0.00	1.50		10.35	18.92	83.84	86.68	21-Sep-18 19:00:00		16.57	18.92	83.84	88.18
21-Sep-18 20:00:00	21-Sep-18 21:00:00		16.48	0.00	0.00	4.69	2.1	329.7		5.43	0.00	0.00	1.55		10.35	18.92	83.84	86.68	21-Sep-18 20:00:00		15.78	18.92	83.84	88.23
21-Sep-18 21:00:00	21-Sep-18 22:00:00		14.41	0.00	0.00	4.86	2.1	329.7		4.75	0.00	0.00	1.60		10.35	18.92	83.84	86.68	21-Sep-18 21:00:00		15.10	18.92	83.84	88.28
21-Sep-18 22:00:00	21-Sep-18 23:00:00		22.10	0.00	0.00	5.13	2.1	329.7		7.29	0.00	0.00	1.69		10.35	18.92	83.84	86.68	21-Sep-18 22:00:00		17.64	18.92	83.84	88.37
21-Sep-18 23:00:00	22-Sep-18 00:00:00		34.64	0.00	0.00	5.19	2.1	329.7		11.42	0.00	0.00	1.71		10.35	18.92	83.84	86.68	21-Sep-18 23:00:00		21.77	18.92	83.84	88.39
22-Sep-18 00:00:00	22-Sep-18 01:00:00		19.08	0.00	0.00	5.24	2.1	329.7		6.29	0.00	0.00	1.73		10.35	18.92	83.84	86.68	22-Sep-18 00:00:00		16.64	18.92	83.84	88.41
22-Sep-18 01:00:00	22-Sep-18 02:00:00		14.70	0.00	0.00	5.30	2.1	329.7		4.85	0.00	0.00	1.75		10.35	18.92	83.84	86.68	22-Sep-18 01:00:00		15.20	18.92	83.84	88.43
22-Sep-18 02:00:00	22-Sep-18 03:00:00		27.65	0.00	0.00	5.45	2.1	329.7		9.12	0.00	0.00	1.80		10.35	18.92	83.84	86.68	22-Sep-18 02:00:00		19.47	18.92	83.84	88.48
22-Sep-18 03:00:00	22-Sep-18 04:00:00		38.16	0.00	0.00	5.56	2.1	329.7		12.58	0.00	0.00	1.83		10.35	18.92	83.84	86.68	22-Sep-18 03:00:00		22.93	18.92	83.84	88.51
22-Sep-18 04:00:00	22-Sep-18 05:00:00		32.34	0.00	0.00	5.66	2.1	329.7		10.66	0.00	0.00	1.87		10.35	18.92	83.84	86.68	22-Sep-18 04:00:00		21.01	18.92	83.84	88.55
22-Sep-18 05:00:00	22-Sep-18 06:00:00		8.07	0.00	0.00	5.76	2.1	329.7		2.66	0.00	0.00	1.90		10.35	18.92	83.84	86.68	22-Sep-18 05:00:00		13.01	18.92	83.84	88.58
22-Sep-18 06:00:00	22-Sep-18 07:00:00		11.57	0.00	0.00	5.77	2.1	329.7		3.82	0.00	0.00	1.90		10.35	18.92	83.84	86.68	22-Sep-18 06:00:00		14.17	18.92	83.84	88.58
22-Sep-18 07:00:00	22-Sep-18 08:00:00		10.98	0.00	0.00	5.76	2.1	329.7		3.62	0.00	0.00	1.90		10.35	18.92	83.84	86.68	22-Sep-18 07:00:00		13.97	18.92	83.84	88.58
22-Sep-18 08:00:00	22-Sep-18 09:00:00		15.99	0.00	0.00	5.75	2.1	329.7		5.27	0.00	0.00	1.90		10.35	18.92	83.84	86.68	22-Sep-18 08:00:00		15.62	18.92	83.84	88.58
22-Sep-18 09:00:00	22-Sep-18 10:00:00		14.51	0.00	0.00	5.74	2.1	329.7		4.79	0.00	0.00	1.89		10.35	18.92	83.84	86.68	22-Sep-18 09:00:00		15.14	18.92	83.84	88.57
22-Sep-18 10:00:00	22-Sep-18 11:00:00		11.34	0.00	0.00	5.46	2.1	329.7		3.74	0.00	0.00	1.80		10.35	18.92	83.84	86.68	22-Sep-18 10:00:00		14.09	18.92	83.84	88.48
22-Sep-18 11:00:00	22-Sep-18 12:00:00		16.79	0.00	0.00	5.24	2.1	329.7		5.54	0.00	0.00	1.73		10.35	18.92	83.84	86.68	22-Sep-18 11:00:00		15.89	18.92	83.84	88.41
22-Sep-18 12:00:00	22-Sep-18 13:00:00		27.11	0.00	0.00	5.02	2.1	329.7		8.94	0.00	0.00	1.66		10.35	18.92	83.84	86.68	22-Sep-18 12:00:00		19.29	18.92	83.84	88.34
22-Sep-18 13:00:00	22-Sep-18 14:00:00		22.09	0.00	0.00	4.81	2.1	329.7		7.28	0.00	0.00	1.59		10.35	18.92	83.84	86.68	22-Sep-18 13:00:00		17.63	18.92	83.84	88.27
22-Sep-18 14:00:00	22-Sep-18 15:00:00		13.92	0.00	0.00	4.61	2.1	329.7		4.59	0.00	0.00	1.52		10.35	18.92	83.84	86.68	22-Sep-18 14:00:00		14.94	18.92	83.84	88.20
22-Sep-18 15:00:00	22-Sep-18 16:00:00		27.22	0.00	0.00	4.51	2.1	329.7		8.97	0.00	0.00	1.49		10.35	18.92	83.84	86.68	22-Sep-18 15:00:00		19.32	18.92	83.84	88.17
22-Sep-18 16:00:00	22-Sep-18 17:00:00		29.57	0.00	0.00	4.41	2.1	329.7		9.75	0.00	0.00	1.46		10.35	18.92	83.84	86.68	22-Sep-18 16:00:00		20.10	18.92	83.84	88.14
22-Sep-18 17:00:00	22-Sep-18 18:00:00		31.30	0.00	0.00	4.31	2.1	329.7		10.32	0.00	0.00	1.42		10.35	18.92	83.84	86.68	22-Sep-18 17:00:00		20.67	18.92	83.84	88.10
22-Sep-18 18:00:00	22-Sep-18 19:00:00		31.57	0.00	0.00	4.30	2.1	329.7		10.41	0.00	0.00	1.42		10.35	18.92	83.84	86.68	22-Sep-18 18:00:00		20.76	18.92	83.84	88.10
22-Sep-18 19:00:00	22-Sep-18 20:00:00		30.54	0.00	0.00	4.56	2.1	329.7		10.07	0.00	0.00	1.50		10.35	18.92	83.84	86.68	22-Sep-18 19:00:00		20.42	18.92	83.84	88.18
22-Sep-18 20:00:00	22-Sep-18 21:00:00		29.77	0.00	0.00	4.81	2.1	329.7		9.81	0.00	0.00	1.59		10.35	18.92	83.84	86.68	22-Sep-18 20:00:00		20.16	18.92	83.84	88.27
22-Sep-18 21:00:00	22-Sep-18 22:00:00		28.28	0.00	0.00	5.06	2.1	329.7		9.32	0.00	0.00	1.67		10.35	18.92	83.84	86.68	22-Sep-18 21:00:00		19.67	18.92	83.84	88.35
22-Sep-18 22:00:00	22-Sep-18 23:00:00		22.51	0.00	0.00	5.11	2.1	329.7		7.42	0.00	0.00	1.68		10.35	18.92	83.84	86.68	22-Sep-18 22:00:00		17.77	18.92	83.84	88.36
22-Sep-18 23:00:00	23-Sep-18 00:00:00		23.91	0.00	0.00	5.22	2.1	329.7		7.88	0.00	0.00	1.72		10.35	18.92	83.84	86.68	22-Sep-18 23:00:00		18.23	18.92	83.84	88.40
23-Sep-18 00:00:00	23-Sep-18 01:00:00		35.52	0.00	0.00	5.33	2.1	329.7		11.71	0.00	0.00	1.76		10.35	18.92	83.84	86.68	23-Sep-18 00:00:00		22.06	18.92	83.84	88.44
23-Sep-18 01:00:00	23-Sep-18 02:00:00		24.91	0.00	0.00	5.44	2.1	329.7		8.21	0.00	0.00	1.79		10.35	18.92	83.84	86.68	23-Sep-18 01:00:00		18.56	18.92	83.84	88.47
23-Sep-18 02:00:00	23-Sep-18 03:00:00		37.61	0.00	0.00	5.61	2.1	329.7		12.40	0.00	0.00	1.85		10.35	18.92	83.84	86.68	23-Sep-18 02:00:00		22.75	18.92	83.84	88.53
23-Sep-18 03:00:00	23-Sep-18 04:00:00		38.95	0.00	0.00	5.66	2.1	329.7		12.84	0.00	0.00	1.87		10.35	18.92	83.84	86.68	23-Sep-18 03:00:00		23.19	18.92	83.84	88.55
23-Sep-18 04:00:00	23-Sep-18 05:00:00		11.15	0.00	0.00	5.71	2.1	329.7		3.67	0.00	0.00	1.88		10.35	18.92	83.84	86.68	23-Sep-18 04:00:00		14.02	18.92	83.84	88.56
23-Sep-18 05:00:00	23-Sep-18 06:00:00		20.32	0.00	0.00	5.75	2.1	329.7		6.70	0.00	0.00	1.90		10.35	18.92	83.84	86.68	23-Sep-18 05:00:00		17.05	18.92	83.84	88.58
23-Sep-18 06:00:00	23-Sep-18 07:00:00		28.64	0.00	0.00	5.71	2.1	329.7		9.44	0.00	0.00	1.88		10.35	18.92	83.84	86.68	23-Sep-18 06:00:00		19.79	18.92	83.84	88.56
23-Sep-18 07:00:00	23-Sep-18 08:00:00		30.93	0.00	0.00	5.60	2.1	329.7		10.20	0.00	0.00	1.84		10.35	18.92	83.84	86.68	23-Sep-18 07:00:00		20.55	18.92	83.84	88.52
23-Sep-18 08:00:00	23-Sep-18 09:00:00		16.95	0.00	0.00	5.48	2.1	329.7		5.59	0.00	0.00	1.81		10.35	18.92	83.84	86.68	23-Sep-18 08:00:00		15.94	18.92	83.84	88.49
23-Sep-18 09:00:00	23-Sep-18 10:00:00		12.36	0.00	0.00	5.37	2.1	329.7		4.07	0.00	0.00	1.77		10.35	18.92	83.84	86.68	23-Sep-18 09:00:00		14.42	18.92	83.84	88.45
23-Sep-18 10:00:00	23-Sep-18 11:00:00		11.73	0.00	0.00	5.25	2.1	329.7		3.87	0.00	0.00	1.73		10.35	18.92	83.84	86.68	23-Sep-18 10:00:00		14.22	18.92	83.84	88.41
23-Sep-18 11:00:00	23-Sep-18 12:00:00		19.18	0.00	0.00	5.10	2.1	329.7		6.32	0.00	0.00	1.68		10.35	18.92	83.84	86.68	23-Sep-18 11:00:00		16.67	18.92	83.84	88.36
23-Sep-18 12:00:00	23-Sep-18 13:00:00		39.68	0.00	0.00	4.96	2.1	329.7		13.08	0.00	0.00	1.64		10.35	18.92	83.84	86.68	23-Sep-18 12:00:00		23.43	18.92	83.84	88.32
23-Sep-18 13:00:00	23-Sep-18 14:00:00		19.62	0.00	0.00	4.82	2.1	329.7		6.47	0.00	0.00	1.59		10.35	18.92	83.84	86.68	23-Sep-18 13:00:00		16.82	18.92	83.84	88.27
23-Sep-18 14:00:00	23-Sep-18 15:00:00		11.38	0.00	0.00	4.73	2.1	329.7		3.75	0.00	0.00	1.56		10.35	18.92	83.84	86.68	23-Sep-18 14:00:00		14.10	18.92	83.84	88.24
23-Sep-18 15:00:00	23-Sep-18 16:00:00		9.23	0.00	0.00	4.75	2.1	329.7		3.04	0.00	0.00	1.57		10.35	18.92	83.84	86.68	23-Sep-18 15:00:00		13.39	18.92	83.84	88.25
23-Sep-18 16:00:00	23-Sep-18 17:00:00		20.54	0.00	0.00	4.77	2.1	329.7		6.77	0.00	0.00	1.57		10.35	18.92	83.84	86.68	23-Sep-18 16:00:00		17.12	18.92	83.84	88.25
23-Sep-18 17:00:00	23-Sep-18 18:00:00		19.96	0.00	0.00	4.79	2.1	329.7		6.58	0.00	0.00	1.58		10.35	18.92	83.84	86.68	23-Sep-18 17:00:00		16.93	18.92	83.84	88.26
23-Sep-18 18:00:00	23-Sep-18 19:00:00		19.91	0.00	0.00	4.93	2.1	329.7		6.57	0.00	0.00	1.63		10.35	18.92	83.84	86.68	23-Sep-18 18:00:00		16.92	18.92	83.84	88.31
23-Sep-18 19:00:00	23-Sep-18 20:00:00		19.87	0.00	0.00	5.15	2.1	329.7		6.55	0.00	0.00	1.70		10.35	18.92	83.84	86.68	23-Sep-18 19:00:00		16.90	18.92	83.84	88.38
23-Sep-18 20:00:00	23-Sep-18 21:00:00		19.31	0.00	0.00	5.37	2.1	329.7		6.37	0.00	0.00	1.77		10.35	18.92	83.84	86.68	23-Sep-18 20:00:00		16.72	18.92	83.84	88.45
23-Sep-18 21:00:00	23-Sep-18 22:00:00		18.34	0.00	0.00	5.59	2.1	329.7		6.05	0.00	0.00	1.84		10.35	18.92	83.84	86.68	23-Sep-18 21:00:00		16.40	18.92	83.84	88.52
23-Sep-18 22:00:00	23-Sep-18 23:00:00		17.47	0.00	0.00	5.65	2.1	329.7		5.76	0.00	0.00	1.86		10.35	18.92	83.84	86.68	23-Sep-18 22:00:00		16.11	18.92	83.84	88.54
23-Sep-18 23:00:00	24-Sep-18 00:00:00		15.98	0.00	0.00	5.70	2.1	329.7		5.27	0.00	0.00	1.88		10.35	18.92	83.84	86.68	23-Sep-18 23:00:00		15.62	18.92	83.84	88.56
24-Sep-18 00:00:00	24-Sep-18 01:00:00		9.78	0.00	0.00	5.76	2.1	329.7		3.22	0.00	0.00	1.90		10.35	18.92	83.84	86.68	24-Sep-18 00:00:00		13.57	18.92	83.84	88.58
24-Sep-18 01:00:00	24-Sep-18 02:00:00		14.64	0.00	0.00	5.81	2.1	329.7		4.83	0.00	0.00	1.92		10.35	18.92	83.84	86.68	24-Sep-18 01:00:00		15.18	18.92	83.84	88.60
24-Sep-18 02:00:00	24-Sep-18 03:00:00		30.52	0.00	0.00	5.92

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10³ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
26-Sep-18 04:00:00	26-Sep-18 05:00:00		32.67	0.00	0.00	5.75	2.1	329.7		10.77	0.00	0.00	1.90		10.35	18.92	83.84	86.68	26-Sep-18 04:00:00		**21.12**	**18.92**	**83.84**	**88.58**
26-Sep-18 05:00:00	26-Sep-18 06:00:00		23.61	0.00	0.00	5.82	2.1	329.7		7.78	0.00	0.00	1.92		10.35	18.92	83.84	86.68	26-Sep-18 05:00:00		**18.13**	**18.92**	**83.84**	**88.60**
26-Sep-18 06:00:00	26-Sep-18 07:00:00		14.13	0.00	0.00	5.71	2.1	329.7		4.66	0.00	0.00	1.88		10.35	18.92	83.84	86.68	26-Sep-18 06:00:00		**15.01**	**18.92**	**83.84**	**88.56**
26-Sep-18 07:00:00	26-Sep-18 08:00:00		21.70	0.00	0.00	5.59	2.1	329.7		7.15	0.00	0.00	1.84		10.35	18.92	83.84	86.68	26-Sep-18 07:00:00		**17.50**	**18.92**	**83.84**	**88.52**
26-Sep-18 08:00:00	26-Sep-18 09:00:00		22.41	0.00	0.00	5.50	2.1	329.7		7.39	0.00	0.00	1.81		10.35	18.92	83.84	86.68	26-Sep-18 08:00:00		**17.74**	**18.92**	**83.84**	**88.49**
26-Sep-18 09:00:00	26-Sep-18 10:00:00		20.63	0.00	0.00	5.41	2.1	329.7		6.80	0.00	0.00	1.78		10.35	18.92	83.84	86.68	26-Sep-18 09:00:00		**17.15**	**18.92**	**83.84**	**88.46**
26-Sep-18 10:00:00	26-Sep-18 11:00:00		16.41	0.00	0.00	5.30	2.1	329.7		5.41	0.00	0.00	1.75		10.35	18.92	83.84	86.68	26-Sep-18 10:00:00		**15.76**	**18.92**	**83.84**	**88.43**
26-Sep-18 11:00:00	26-Sep-18 12:00:00		28.36	0.00	0.00	80.57	2.1	329.7		9.35	0.00	0.00	26.56		10.35	18.92	83.84	86.68	26-Sep-18 11:00:00		**19.70**	**18.92**	**83.84**	**113.24**
26-Sep-18 12:00:00	26-Sep-18 13:00:00		27.82	0.00	0.00	5.05	2.1	329.7		9.17	0.00	0.00	1.66		10.35	18.92	83.84	86.68	26-Sep-18 12:00:00		**19.52**	**18.92**	**83.84**	**88.34**
26-Sep-18 13:00:00	26-Sep-18 14:00:00		46.83	0.00	0.00	4.92	2.1	329.7		15.44	0.00	0.00	1.62		10.35	18.92	83.84	86.68	26-Sep-18 13:00:00		**25.79**	**18.92**	**83.84**	**88.30**
26-Sep-18 14:00:00	26-Sep-18 15:00:00		22.49	0.00	0.00	4.79	2.1	329.7		7.41	0.00	0.00	1.58		10.35	18.92	83.84	86.68	26-Sep-18 14:00:00		**17.76**	**18.92**	**83.84**	**88.26**
26-Sep-18 15:00:00	26-Sep-18 16:00:00		42.11	0.00	0.00	4.67	2.1	329.7		13.88	0.00	0.00	1.54		10.35	18.92	83.84	86.68	26-Sep-18 15:00:00		**24.23**	**18.92**	**83.84**	**88.22**
26-Sep-18 16:00:00	26-Sep-18 17:00:00		32.68	0.00	0.00	4.64	2.1	329.7		10.77	0.00	0.00	1.53		10.35	18.92	83.84	86.68	26-Sep-18 16:00:00		**21.12**	**18.92**	**83.84**	**88.21**
26-Sep-18 17:00:00	26-Sep-18 18:00:00		29.37	0.00	0.00	99.53	2.1	329.7		9.68	0.00	0.00	32.81		10.35	18.92	83.84	86.68	26-Sep-18 17:00:00		**20.03**	**18.92**	**83.84**	**119.49**
26-Sep-18 18:00:00	26-Sep-18 19:00:00		30.15	0.00	0.00	4.91	2.1	329.7		9.94	0.00	0.00	1.62		10.35	18.92	83.84	86.68	26-Sep-18 18:00:00		**20.29**	**18.92**	**83.84**	**88.30**
26-Sep-18 19:00:00	26-Sep-18 20:00:00		30.93	0.00	0.00	5.36	2.1	329.7		10.20	0.00	0.00	1.77		10.35	18.92	83.84	86.68	26-Sep-18 19:00:00		**20.55**	**18.92**	**83.84**	**88.45**
26-Sep-18 20:00:00	26-Sep-18 21:00:00		27.85	0.00	0.00	5.81	2.1	329.7		9.18	0.00	0.00	1.92		10.35	18.92	83.84	86.68	26-Sep-18 20:00:00		**19.53**	**18.92**	**83.84**	**88.60**
26-Sep-18 21:00:00	26-Sep-18 22:00:00		28.73	0.00	0.00	6.18	2.1	329.7		9.47	0.00	0.00	2.04		10.35	18.92	83.84	86.68	26-Sep-18 21:00:00		**19.82**	**18.92**	**83.84**	**88.72**
26-Sep-18 22:00:00	26-Sep-18 23:00:00		10.66	0.00	0.00	6.06	2.1	329.7		3.51	0.00	0.00	2.00		10.35	18.92	83.84	86.68	26-Sep-18 22:00:00		**13.86**	**18.92**	**83.84**	**88.68**
26-Sep-18 23:00:00	27-Sep-18 00:00:00		4.85	0.00	0.00	5.85	2.1	329.7		1.60	0.00	0.00	1.93		10.35	18.92	83.84	86.68	26-Sep-18 23:00:00		**11.95**	**18.92**	**83.84**	**88.61**
27-Sep-18 00:00:00	27-Sep-18 01:00:00		16.70	0.00	0.00	5.65	2.1	329.7		5.51	0.00	0.00	1.86		10.35	18.92	83.84	86.68	27-Sep-18 00:00:00		**15.86**	**18.92**	**83.84**	**88.54**
27-Sep-18 01:00:00	27-Sep-18 02:00:00		39.39	0.00	0.00	5.50	2.1	329.7		12.99	0.00	0.00	1.81		10.35	18.92	83.84	86.68	27-Sep-18 01:00:00		**23.34**	**18.92**	**83.84**	**88.49**
27-Sep-18 02:00:00	27-Sep-18 03:00:00		25.49	0.00	0.00	5.54	2.1	329.7		8.40	0.00	0.00	1.83		10.35	18.92	83.84	86.68	27-Sep-18 02:00:00		**18.75**	**18.92**	**83.84**	**88.51**
27-Sep-18 03:00:00	27-Sep-18 04:00:00		25.27	0.00	0.00	5.56	2.1	329.7		8.33	0.00	0.00	1.83		10.35	18.92	83.84	86.68	27-Sep-18 03:00:00		**18.68**	**18.92**	**83.84**	**88.51**
27-Sep-18 04:00:00	27-Sep-18 05:00:00		25.43	0.00	0.00	5.59	2.1	329.7		8.39	0.00	0.00	1.84		10.35	18.92	83.84	86.68	27-Sep-18 04:00:00		**18.74**	**18.92**	**83.84**	**88.52**
27-Sep-18 05:00:00	27-Sep-18 06:00:00		26.35	0.00	0.00	5.57	2.1	329.7		8.69	0.00	0.00	1.84		10.35	18.92	83.84	86.68	27-Sep-18 05:00:00		**19.04**	**18.92**	**83.84**	**88.52**
27-Sep-18 06:00:00	27-Sep-18 07:00:00		26.78	0.00	0.00	5.45	2.1	329.7		8.83	0.00	0.00	1.80		10.35	18.92	83.84	86.68	27-Sep-18 06:00:00		**19.18**	**18.92**	**83.84**	**88.48**
27-Sep-18 07:00:00	27-Sep-18 08:00:00		25.02	0.00	0.00	5.39	2.1	329.7		8.25	0.00	0.00	1.78		10.35	18.92	83.84	86.68	27-Sep-18 07:00:00		**18.60**	**18.92**	**83.84**	**88.46**
27-Sep-18 08:00:00	27-Sep-18 09:00:00		24.47	0.00	0.00	5.32	2.1	329.7		8.07	0.00	0.00	1.75		10.35	18.92	83.84	86.68	27-Sep-18 08:00:00		**18.42**	**18.92**	**83.84**	**88.43**
27-Sep-18 09:00:00	27-Sep-18 10:00:00		24.18	0.00	0.00	5.25	2.1	329.7		7.97	0.00	0.00	1.73		10.35	18.92	83.84	86.68	27-Sep-18 09:00:00		**18.32**	**18.92**	**83.84**	**88.41**
27-Sep-18 10:00:00	27-Sep-18 11:00:00		23.21	0.00	0.00	5.13	2.1	329.7		7.65	0.00	0.00	1.69		10.35	18.92	83.84	86.68	27-Sep-18 10:00:00		**18.00**	**18.92**	**83.84**	**88.37**
27-Sep-18 11:00:00	27-Sep-18 12:00:00		22.70	0.00	0.00	4.99	2.1	329.7		7.48	0.00	0.00	1.65		10.35	18.92	83.84	86.68	27-Sep-18 11:00:00		**17.83**	**18.92**	**83.84**	**88.33**
27-Sep-18 12:00:00	27-Sep-18 13:00:00		24.45	0.00	0.00	4.85	2.1	329.7		8.06	0.00	0.00	1.60		10.35	18.92	83.84	86.68	27-Sep-18 12:00:00		**18.41**	**18.92**	**83.84**	**88.28**
27-Sep-18 13:00:00	27-Sep-18 14:00:00		22.59	0.00	0.00	4.73	2.1	329.7		7.45	0.00	0.00	1.56		10.35	18.92	83.84	86.68	27-Sep-18 13:00:00		**17.80**	**18.92**	**83.84**	**88.24**
27-Sep-18 14:00:00	27-Sep-18 15:00:00		275.62	0.00	0.00	4.70	2.1	329.7		90.87	0.00	0.00	1.55		10.35	18.92	83.84	86.68	27-Sep-18 14:00:00		**101.22**	**18.92**	**83.84**	**88.23**
27-Sep-18 15:00:00	27-Sep-18 16:00:00		17.77	0.00	0.00	4.67	2.1	329.7		5.86	0.00	0.00	1.54		10.35	18.92	83.84	86.68	27-Sep-18 15:00:00		**16.21**	**18.92**	**83.84**	**88.22**
27-Sep-18 16:00:00	27-Sep-18 17:00:00		18.68	0.00	0.00	4.64	2.1	329.7		6.16	0.00	0.00	1.53		10.35	18.92	83.84	86.68	27-Sep-18 16:00:00		**16.51**	**18.92**	**83.84**	**88.21**
27-Sep-18 17:00:00	27-Sep-18 18:00:00		20.59	0.00	0.00	4.62	2.1	329.7		6.79	0.00	0.00	1.52		10.35	18.92	83.84	86.68	27-Sep-18 17:00:00		**17.14**	**18.92**	**83.84**	**88.20**
27-Sep-18 18:00:00	27-Sep-18 19:00:00		21.69	0.00	0.00	4.77	2.1	329.7		7.15	0.00	0.00	1.57		10.35	18.92	83.84	86.68	27-Sep-18 18:00:00		**17.50**	**18.92**	**83.84**	**88.25**
27-Sep-18 19:00:00	27-Sep-18 20:00:00		19.72	0.00	0.00	4.97	2.1	329.7		6.50	0.00	0.00	1.64		10.35	18.92	83.84	86.68	27-Sep-18 19:00:00		**16.85**	**18.92**	**83.84**	**88.32**
27-Sep-18 20:00:00	27-Sep-18 21:00:00		20.09	0.00	0.00	5.17	2.1	329.7		6.62	0.00	0.00	1.70		10.35	18.92	83.84	86.68	27-Sep-18 20:00:00		**16.97**	**18.92**	**83.84**	**88.38**
27-Sep-18 21:00:00	27-Sep-18 22:00:00		18.84	0.00	0.00	79.61	2.1	329.7		6.21	0.00	0.00	26.25		10.35	18.92	83.84	86.68	27-Sep-18 21:00:00		**16.56**	**18.92**	**83.84**	**112.93**
27-Sep-18 22:00:00	27-Sep-18 23:00:00		13.22	0.00	0.00	5.54	2.1	329.7		4.36	0.00	0.00	1.83		10.35	18.92	83.84	86.68	27-Sep-18 22:00:00		**14.71**	**18.92**	**83.84**	**88.51**
27-Sep-18 23:00:00	28-Sep-18 00:00:00		11.42	0.00	0.00	5.55	2.1	329.7		3.76	0.00	0.00	1.83		10.35	18.92	83.84	86.68	27-Sep-18 23:00:00		**14.11**	**18.92**	**83.84**	**88.51**
28-Sep-18 00:00:00	28-Sep-18 01:00:00		8.28	0.00	0.00	5.57	2.1	329.7		2.73	0.00	0.00	1.84		10.35	18.92	83.84	86.68	28-Sep-18 00:00:00		**13.08**	**18.92**	**83.84**	**88.52**
28-Sep-18 01:00:00	28-Sep-18 02:00:00		9.38	0.00	0.00	5.60	2.1	329.7		3.09	0.00	0.00	1.85		10.35	18.92	83.84	86.68	28-Sep-18 01:00:00		**13.44**	**18.92**	**83.84**	**88.53**
28-Sep-18 02:00:00	28-Sep-18 03:00:00		8.12	0.00	0.00	5.64	2.1	329.7		2.68	0.00	0.00	1.86		10.35	18.92	83.84	86.68	28-Sep-18 02:00:00		**13.03**	**18.92**	**83.84**	**88.54**
28-Sep-18 03:00:00	28-Sep-18 04:00:00		6.79	0.00	0.00	5.65	2.1	329.7		2.24	0.00	0.00	1.86		10.35	18.92	83.84	86.68	28-Sep-18 03:00:00		**12.59**	**18.92**	**83.84**	**88.54**
28-Sep-18 04:00:00	28-Sep-18 05:00:00		9.30	0.00	0.00	5.67	2.1	329.7		3.07	0.00	0.00	1.87		10.35	18.92	83.84	86.68	28-Sep-18 04:00:00		**13.42**	**18.92**	**83.84**	**88.55**
28-Sep-18 05:00:00	28-Sep-18 06:00:00		10.11	0.00	0.00	5.69	2.1	329.7		3.33	0.00	0.00	1.88		10.35	18.92	83.84	86.68	28-Sep-18 05:00:00		**13.68**	**18.92**	**83.84**	**88.56**
28-Sep-18 06:00:00	28-Sep-18 07:00:00		11.80	0.00	0.00	5.73	2.1	329.7		3.89	0.00	0.00	1.89		10.35	18.92	83.84	86.68	28-Sep-18 06:00:00		**14.24**	**18.92**	**83.84**	**88.57**
28-Sep-18 07:00:00	28-Sep-18 08:00:00		11.94	0.00	0.00	5.76	2.1	329.7		3.94	0.00	0.00	1.90		10.35	18.92	83.84	86.68	28-Sep-18 07:00:00		**14.29**	**18.92**	**83.84**	**88.58**
28-Sep-18 08:00:00	28-Sep-18 09:00:00		11.84	0.00	0.00	5.79	2.1	329.7		3.90	0.00	0.00	1.91		10.35	18.92	83.84	86.68	28-Sep-18 08:00:00		**14.25**	**18.92**	**83.84**	**88.59**
28-Sep-18 09:00:00	28-Sep-18 10:00:00		11.88	0.00	0.00	5.88	2.1	329.7		3.92	0.00	0.00	1.94		10.35	18.92	83.84	86.68	28-Sep-18 09:00:00		**14.27**	**18.92**	**83.84**	**88.62**
28-Sep-18 10:00:00	28-Sep-18 11:00:00		11.93	0.00	0.00	5.82	2.1	329.7		3.93	0.00	0.00	1.92		10.35	18.92	83.84	86.68	28-Sep-18 10:00:00		**14.28**	**18.92**	**83.84**	**88.60**
28-Sep-18 11:00:00	28-Sep-18 12:00:00		11.74	0.00	0.00	5.64	2.1	329.7		3.87	0.00	0.00	1.86		10.35	18.92	83.84	86.68	28-Sep-18 11:00:00		**14.22**	**18.92**	**83.84**	**88.54**
28-Sep-18 12:00:00	28-Sep-18 13:00:00		10.03	0.00	0.00	5.46	2.1	329.7		3.31	0.00	0.00	1.80		10.35	18.92	83.84	86.68	28-Sep-18 12:00:00		**13.66**	**18.92**	**83.84**	**88.48**
28-Sep-18 13:00:00	28-Sep-18 14:00:00		3.53	0.00	0.00	5.31	2.1	329.7		1.17	0.00	0.00	1.75		10.35	18.92	83.84	86.68	28-Sep-18 13:00:00		**11.52**	**18.92**	**83.84**	**88.43**
28-Sep-18 14:00:00	28-Sep-18 15:00:00		1.55	0.00	0.00	5.17	2.1	329.7		0.51	0.00	0.00	1.70		10.35	18.92	83.84	86.68	28-Sep-18 14:00:00		**10.86**	**18.92**	**83.84**	**88.38**
28-Sep-18 15:00:00	28-Sep-18 16:00:00		5.61	0.00	0.00	5.00	2.1	329.7		1.85	0.00	0.00	1.65		10.35	18.92	83.84	86.68	28-Sep-18 15:00:00		**12.20**	**18.92**	**83.84**	**88.33**
28-Sep-18 16:00:00	28-Sep-18 17:00:00		6.46	0.00	0.00	4.82	2.1	329.7		2.13	0.00	0.00	1.59		10.35	18.92	83.84	86.68	28-Sep-18 16:00:00		**12.48**	**18.92**	**83.84**	**88.27**
28-Sep-18 17:00:00	28-Sep-18 18:00:00		6.05	0.00	0.00	4.68	2.1	329.7		1.99	0.00	0.00	1.54		10.35	18.92	83.84	86.68	28-Sep-18 17:00:00		**12.34**	**18.92**	**83.84**	**88.22**
28-Sep-18 18:00:00	28-Sep-18 19:00:00		5.65	0.00	0.00	4.76	2.1	329.7		1.86	0.00	0.00	1.57		10.35	18.92	83.84	86.68	28-Sep-18 18:00:00		**12.21**	**18.92**	**83.84**	**88.25**
28-Sep-18 19:00:00	28-Sep-18 20:00:00		5.11	0.00	0.00	4.89	2.1	329.7		1.68	0.00	0.00	1.61		10.35	18.92	83.84	86.68	28-Sep-18 19:00:00		**12.03**	**18.92**	**83.84**	**88.29**
28-Sep-18 20:00:00	28-Sep-18 21:00:00		5.15	0.00	0.00	5.02	2.1	329.7		1.70	0.00	0.00	1.66		10.35	18.92	83.84	86.68	28-Sep-18 20:00:00		**12.05**	**18.92**	**83.84**	**88.34**
28-Sep-18 21:00:00	28-Sep-18 22:00:00		5.42	0.00	0.00	5.14	2.1	329.7		1.79	0.00	0.00	1.70		10.35	18.92	83.84	86.68	28-Sep-18 21:00:00		**12.14**	**18.92**	**83.84**	**88.38**
28-Sep-18 22:00:00	28-Sep-18 23:00:00		5.69	0.00	0.00	5.22	2.1	329.7		1.88	0.00	0.00	1.72		10.35	18.92	83.84	86.68	28-Sep-18 22:00:00		**12.23**	**18.92**	**83.84**	**88.40**
28-Sep-18 23:00:00	29-Sep-18 00:00:00		3.76	0.00	0.00	5.30	2.1	329.7		1.24	0.00	0.00	1.75		10.35	18.92	83.84	86.68	28-Sep-18 23:00:00		**11.59**	**18.92**	**83.84**	**88.43**
29-Sep-18 00:00:00	29-Sep-18 01:00:00		1.29	0.00	0.00	5.38	2.1	329.7		0.43	0.00	0.00	1.78		10.35	18.92	83.84	86.68	29-Sep-18 00:00:00		**10.78**	**18.92**	**83.84**	**88.46**
29-Sep-18 01:00:00	29-Sep-18 02:00:00		0.88	0.00	0.00	5.42	2.1	329.7		0.29	0.00	0.00	1.79		10.35	18.92	83.84	86.68	29-Sep-18 01:00:00		**10.64**	**18.92**	**83.84**	**88.47**
29-Sep-18 02:00:00	29-Sep-18 03:00:00		0.46	0.00	0.00	5.48	2.1	329.7		0.15	0.00	0.00	1.81		10.35	18.92	83.84	86.68	29-Sep-18 02:00:00		**10.50**	**18.92**	**83.84**	**88.49**
29-Sep-18 03:00:00	29-Sep-18 04:00:00		0.08	0.00	0.00	5.61	2.1	329.7		0.03	0.00	0.00	1.85		10.35	18.92	83.84	86.68	29-Sep-18 03:00:00		**10.38**	**18.92**	**83.84**	**88.53**
29-Sep-18 04:00:00	29-Sep-18 05:00:00		0.00	0.00	0.00	5.74	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	29-Sep-18 04:00:00		**10.35**	**18.92**	**83.84**	**88.57**
29-Sep-18 05:00:00	29-Sep-18 06:00:00		0.00	0.00	0.00	5.81	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	29-Sep-18 05:00:00		**10.35**	**18.92**	**83.84**	**88.60**
29-Sep-18 06:00:00	29-Sep-18 07:00:00		0.00	0.00	0.00	5.78	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	29-Sep-18 06:00:00		**10.35**	**18.92**	**83.84**	**88.59**
29-Sep-18 07:00:00	29-Sep-18 08:00:00		0.14	0.00	0.00	5.80	2.1	329.7		0.05	0.00	0.00	1.91		10.35	18.92	83.84	86.68	29-Sep-18 07:00:00		**10.40**	**18.92**	**83.84**	**88.59**
29-Sep-18 08:00:00	29-Sep-18 09:00:00		3.28	0.00	0.00	5.81	2.1	329.7		1.08	0.00	0.00	1.91		10.35	18.92	83.84	86.68	29-Sep-18 08:00:00		**11.43**	**18.92**	**83.84**	**88.59**
29-Sep-18 09:00:00	29-Sep-18 10:00:00		7.32	0.00	0.00	5.75	2.1	329.7		2.41	0.00	0.00	1.90		10.35	18.92	83.84	86.68	29-Sep-18 09:00:00		**12.76**	**18.92**	**83.84**	**88.58**
29-Sep-18 10:00:00	29-Sep-18 11:00:00		7.64	0.00	0.00	5.51	2.1	329.7		2.52	0.00	0.00	1.82		10.35	18.92	83.84	86.68	29-Sep-18 10:00:00		**12.87**	**18.92**	**83.84**	**88.50**
29-Sep-18 11:00:00	29-Sep-18 12:00:00		6.71	0.00	0.00	5.29	2.1	329.7		2.21	0.00	0.00	1.74		10.35	18.92	83.84	86.68	29-Sep-18 11:00:00		**12.56**	**18.92**	**83.84**	**88.42**
29-Sep-18 12:00:00	29-Sep-18 13:00:00		5.65	0.00	0.00	5.08	2.1	329.7		1.86	0.00	0.00	1.67		10.35	18.92	83.84	86.68	29-Sep-18 12:00:00		**12.21**	**18.92**	**83.84**	**88.35**
29-Sep-18 13:00:00	29-Sep-18 14:00:00		2.56	0.00	0.00	4.87	2.1	329.7		0.84	0.00	0.00	1.61		10.35	18.92	83.84	86.68	29-Sep-18 13:00:00		**11.19**	**18.92**	**83.84**	**88.29**
29-Sep-18 14:00:00	29-Sep-18 15:00:00		2.17	0.00	0.00	4.79	2.1	329.7		0.72	0.00	0.00	1.58		10.35	18.92	83.84	86.68	29-Sep-18 14:00:00		**11.07**	**18.92**	**83.84**	**88.26**
29-Sep-18 15:00:00	29-Sep-18 16:00:00		3.99	0.00	0.00	4.74	2.1	329.7		1.31	0.00	0.00	1.56		10.35	18.92	83.84	86.68	29-Sep-18 15:00:00		**11.66**	**18.92**	**83.84**	**88.24**
29-Sep-18 16:00:00	29-Sep-18 17:00:00		1.29	0.00	0.00	4.70	2.1	329.7		0.42	0.00	0.00	1.55		10.35	18.92	83.84	86.68	29-Sep-18 16:00:00		**10.77**	**18.92**	**83.84**	**88.23**
29-Sep-18 17:00:00	29-Sep-18 18:00:00		0.00	0.00	0.00	4.68	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	29-Sep-18 17:00:00		**10.35**	**18.92**	**83.84**	**88.22**
29-Sep-18 18:00:00	29-Sep-18 19:00:00		0.00	0.00	0.00	4.83	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	29-Sep-18 18:00:00		**10.35**	**18.92**	**83.84**	**88.27**
29-Sep-18 19:00:00	29-Sep-18 20:00:00		0.00	0.00	0.00	5.01	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	29-Sep-18 19:00:00		**10.35**	**18.92**	**83.84**	**88.33**
29-Sep-18 20:00:00	29-Sep-18 21:00:00		0.00	0.00	0.00	5.20	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	29-Sep-18 20:00:00		**10.35**	**18.92**	**83.84**	**88.39**
29-Sep-18 21:00:00	29-Sep-18 22:00:00		0.00	0.00	0.00	5.39	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	29-Sep-18 21:00:00		**10.35**	**18.92**	**83.84**	**88.46**
29-Sep-18 22:00:00	29-Sep-18 23:00:00		0.00	0.00	0.00	5.51	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	29-Sep-18 22:00:00		**10.35**	**18.92**	**83.84**	**88.50**
29-Sep-18 23:00:00	30-Sep-18 00:00:00		0.00	0.00	0.00	5.60	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	29-Sep-18 23:00:00		**10.35**	**18.92**	**83.84**	**88.53**
30-Sep-18 00:00:00	30-Sep-18 01:00:00		0.00	0.00	0.00	5.69	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	30-Sep-18 00:00:00		**10.35**	**18.92**	**83.84**	**88.56**
30-Sep-18 01:00:00	30-Sep-18 02:00:00		0.00	0.00	0.00	5.76	2.

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
02-Oct-18 03:00:00	02-Oct-18 04:00:00		3.39	0.00	0.00	5.84	2.1	329.7		1.12	0.00	0.00	1.92		10.35	18.92	83.84	86.68	02-Oct-18 03:00:00		11.47	18.92	83.84	88.60
02-Oct-18 04:00:00	02-Oct-18 05:00:00		13.44	0.00	0.00	5.88	2.1	329.7		4.43	0.00	0.00	1.94		10.35	18.92	83.84	86.68	02-Oct-18 04:00:00		14.78	18.92	83.84	88.62
02-Oct-18 05:00:00	02-Oct-18 06:00:00		44.24	0.00	0.00	5.90	2.1	329.7		14.59	0.00	0.00	1.95		10.35	18.92	83.84	86.68	02-Oct-18 05:00:00		24.94	18.92	83.84	88.63
02-Oct-18 06:00:00	02-Oct-18 07:00:00		31.04	0.00	0.00	5.88	2.1	329.7		10.23	0.00	0.00	1.94		10.35	18.92	83.84	86.68	02-Oct-18 06:00:00		20.58	18.92	83.84	88.62
02-Oct-18 07:00:00	02-Oct-18 08:00:00		44.60	0.00	0.00	5.88	2.1	329.7		14.71	0.00	0.00	1.94		10.35	18.92	83.84	86.68	02-Oct-18 07:00:00		25.06	18.92	83.84	88.62
02-Oct-18 08:00:00	02-Oct-18 09:00:00		49.36	0.00	0.00	5.89	2.1	329.7		16.27	0.00	0.00	1.94		10.35	18.92	83.84	86.68	02-Oct-18 08:00:00		26.62	18.92	83.84	88.62
02-Oct-18 09:00:00	02-Oct-18 10:00:00		50.18	0.00	0.00	5.85	2.1	329.7		16.54	0.00	0.00	1.93		10.35	18.92	83.84	86.68	02-Oct-18 09:00:00		26.89	18.92	83.84	88.61
02-Oct-18 10:00:00	02-Oct-18 11:00:00		38.18	0.00	0.00	5.56	2.1	329.7		12.59	0.00	0.00	1.83		10.35	18.92	83.84	86.68	02-Oct-18 10:00:00		22.94	18.92	83.84	88.51
02-Oct-18 11:00:00	02-Oct-18 12:00:00		18.69	0.00	0.00	5.25	2.1	329.7		6.16	0.00	0.00	1.73		10.35	18.92	83.84	86.68	02-Oct-18 11:00:00		16.51	18.92	83.84	88.41
02-Oct-18 12:00:00	02-Oct-18 13:00:00		11.83	0.00	0.00	4.94	2.1	329.7		3.90	0.00	0.00	1.63		10.35	18.92	83.84	86.68	02-Oct-18 12:00:00		14.25	18.92	83.84	88.31
02-Oct-18 13:00:00	02-Oct-18 14:00:00		26.17	0.00	0.00	4.66	2.1	329.7		8.63	0.00	0.00	1.54		10.35	18.92	83.84	86.68	02-Oct-18 13:00:00		18.98	18.92	83.84	88.22
02-Oct-18 14:00:00	02-Oct-18 15:00:00		9.54	0.00	0.00	4.61	2.1	329.7		3.15	0.00	0.00	1.52		10.35	18.92	83.84	86.68	02-Oct-18 14:00:00		13.50	18.92	83.84	88.20
02-Oct-18 15:00:00	02-Oct-18 16:00:00		26.70	0.00	0.00	4.58	2.1	329.7		8.80	0.00	0.00	1.51		10.35	18.92	83.84	86.68	02-Oct-18 15:00:00		19.15	18.92	83.84	88.19
02-Oct-18 16:00:00	02-Oct-18 17:00:00		4.42	0.00	0.00	4.54	2.1	329.7		1.46	0.00	0.00	1.50		10.35	18.92	83.84	86.68	02-Oct-18 16:00:00		11.81	18.92	83.84	88.18
02-Oct-18 17:00:00	02-Oct-18 18:00:00		1.61	0.00	0.00	4.57	2.1	329.7		0.53	0.00	0.00	1.51		10.35	18.92	83.84	86.68	02-Oct-18 17:00:00		10.88	18.92	83.84	88.19
02-Oct-18 18:00:00	02-Oct-18 19:00:00		2.91	0.00	0.00	4.81	2.1	329.7		0.96	0.00	0.00	1.58		10.35	18.92	83.84	86.68	02-Oct-18 18:00:00		11.31	18.92	83.84	88.26
02-Oct-18 19:00:00	02-Oct-18 20:00:00		2.65	0.00	0.00	4.93	2.1	329.7		0.87	0.00	0.00	1.63		10.35	18.92	83.84	86.68	02-Oct-18 19:00:00		11.22	18.92	83.84	88.31
02-Oct-18 20:00:00	02-Oct-18 21:00:00		0.78	0.00	0.00	5.06	2.1	329.7		0.26	0.00	0.00	1.67		10.35	18.92	83.84	86.68	02-Oct-18 20:00:00		10.61	18.92	83.84	88.35
02-Oct-18 21:00:00	02-Oct-18 22:00:00		3.65	0.00	0.00	5.23	2.1	329.7		1.20	0.00	0.00	1.72		10.35	18.92	83.84	86.68	02-Oct-18 21:00:00		11.55	18.92	83.84	88.40
02-Oct-18 22:00:00	02-Oct-18 23:00:00		1.97	0.00	0.00	5.43	2.1	329.7		0.65	0.00	0.00	1.79		10.35	18.92	83.84	86.68	02-Oct-18 22:00:00		11.00	18.92	83.84	88.47
02-Oct-18 23:00:00	03-Oct-18 00:00:00		7.18	0.00	0.00	5.50	2.1	329.7		2.37	0.00	0.00	1.81		10.35	18.92	83.84	86.68	02-Oct-18 23:00:00		12.72	18.92	83.84	88.49
03-Oct-18 00:00:00	03-Oct-18 01:00:00		18.36	0.00	0.00	5.56	2.1	329.7		6.05	0.00	0.00	1.83		10.35	18.92	83.84	86.68	03-Oct-18 00:00:00		16.40	18.92	83.84	88.51
03-Oct-18 01:00:00	03-Oct-18 02:00:00		175.13	0.00	0.00	5.64	2.1	329.7		57.74	0.00	0.00	1.86		10.35	18.92	83.84	86.68	03-Oct-18 01:00:00		68.09	18.92	83.84	88.54
03-Oct-18 02:00:00	03-Oct-18 03:00:00		943.20	0.00	0.00	5.73	2.1	329.7		310.97	0.00	0.00	1.89		10.35	18.92	83.84	86.68	03-Oct-18 02:00:00		321.32	18.92	83.84	88.57
03-Oct-18 03:00:00	03-Oct-18 04:00:00		1,068.04	0.00	0.00	5.74	2.1	329.7		352.13	0.00	0.00	1.89		10.35	18.92	83.84	86.68	03-Oct-18 03:00:00		362.48	18.92	83.84	88.57
03-Oct-18 04:00:00	03-Oct-18 05:00:00		1,005.74	0.00	0.00	5.76	2.1	329.7		331.59	0.00	0.00	1.90		10.35	18.92	83.84	86.68	03-Oct-18 04:00:00		341.94	18.92	83.84	88.58
03-Oct-18 05:00:00	03-Oct-18 06:00:00		1,023.78	0.00	0.00	5.79	2.1	329.7		337.54	0.00	0.00	1.91		10.35	18.92	83.84	86.68	03-Oct-18 05:00:00		347.89	18.92	83.84	88.59
03-Oct-18 06:00:00	03-Oct-18 07:00:00		1,126.95	0.00	0.00	5.82	2.1	329.7		371.55	0.00	0.00	1.92		10.35	18.92	83.84	86.68	03-Oct-18 06:00:00		381.90	18.92	83.84	88.60
03-Oct-18 07:00:00	03-Oct-18 08:00:00		160.25	0.00	0.00	5.77	2.1	329.7		52.83	0.00	0.00	1.90		10.35	18.92	83.84	86.68	03-Oct-18 07:00:00		63.18	18.92	83.84	88.58
03-Oct-18 08:00:00	03-Oct-18 09:00:00		21.58	0.00	0.00	5.72	2.1	329.7		7.12	0.00	0.00	1.89		10.35	18.92	83.84	86.68	03-Oct-18 08:00:00		17.47	18.92	83.84	88.57
03-Oct-18 09:00:00	03-Oct-18 10:00:00		26.08	0.00	0.00	5.64	2.1	329.7		8.60	0.00	0.00	1.86		10.35	18.92	83.84	86.68	03-Oct-18 09:00:00		18.95	18.92	83.84	88.54
03-Oct-18 10:00:00	03-Oct-18 11:00:00		22.07	0.00	0.00	5.42	2.1	329.7		7.28	0.00	0.00	1.79		10.35	18.92	83.84	86.68	03-Oct-18 10:00:00		17.63	18.92	83.84	88.47
03-Oct-18 11:00:00	03-Oct-18 12:00:00		25.68	0.00	0.00	5.22	2.1	329.7		8.47	0.00	0.00	1.72		10.35	18.92	83.84	86.68	03-Oct-18 11:00:00		18.82	18.92	83.84	88.40
03-Oct-18 12:00:00	03-Oct-18 13:00:00		49.61	0.00	0.00	5.01	2.1	329.7		16.36	0.00	0.00	1.65		10.35	18.92	83.84	86.68	03-Oct-18 12:00:00		26.71	18.92	83.84	88.33
03-Oct-18 13:00:00	03-Oct-18 14:00:00		35.82	0.00	0.00	4.83	2.1	329.7		11.81	0.00	0.00	1.59		10.35	18.92	83.84	86.68	03-Oct-18 13:00:00		22.16	18.92	83.84	88.27
03-Oct-18 14:00:00	03-Oct-18 15:00:00		24.55	0.00	0.00	4.82	2.1	329.7		8.09	0.00	0.00	1.59		10.35	18.92	83.84	86.68	03-Oct-18 14:00:00		18.44	18.92	83.84	88.27
03-Oct-18 15:00:00	03-Oct-18 16:00:00		46.76	0.00	0.00	4.81	2.1	329.7		15.42	0.00	0.00	1.58		10.35	18.92	83.84	86.68	03-Oct-18 15:00:00		25.77	18.92	83.84	88.26
03-Oct-18 16:00:00	03-Oct-18 17:00:00		43.40	0.00	0.00	4.80	2.1	329.7		14.31	0.00	0.00	1.58		10.35	18.92	83.84	86.68	03-Oct-18 16:00:00		24.66	18.92	83.84	88.26
03-Oct-18 17:00:00	03-Oct-18 18:00:00		42.00	0.00	0.00	4.75	2.1	329.7		13.85	0.00	0.00	1.56		10.35	18.92	83.84	86.68	03-Oct-18 17:00:00		24.20	18.92	83.84	88.24
03-Oct-18 18:00:00	03-Oct-18 19:00:00		45.64	0.00	0.00	4.69	2.1	329.7		15.05	0.00	0.00	1.55		10.35	18.92	83.84	86.68	03-Oct-18 18:00:00		25.40	18.92	83.84	88.23
03-Oct-18 19:00:00	03-Oct-18 20:00:00		46.59	0.00	0.00	4.85	2.1	329.7		15.36	0.00	0.00	1.60		10.35	18.92	83.84	86.68	03-Oct-18 19:00:00		25.71	18.92	83.84	88.28
03-Oct-18 20:00:00	03-Oct-18 21:00:00		48.09	0.00	0.00	5.01	2.1	329.7		15.85	0.00	0.00	1.65		10.35	18.92	83.84	86.68	03-Oct-18 20:00:00		26.20	18.92	83.84	88.33
03-Oct-18 21:00:00	03-Oct-18 22:00:00		46.42	0.00	0.00	5.16	2.1	329.7		15.31	0.00	0.00	1.70		10.35	18.92	83.84	86.68	03-Oct-18 21:00:00		25.66	18.92	83.84	88.38
03-Oct-18 22:00:00	03-Oct-18 23:00:00		39.90	0.00	0.00	5.22	2.1	329.7		13.16	0.00	0.00	1.72		10.35	18.92	83.84	86.68	03-Oct-18 22:00:00		23.51	18.92	83.84	88.40
03-Oct-18 23:00:00	04-Oct-18 00:00:00		25.98	0.00	0.00	5.25	2.1	329.7		8.56	0.00	0.00	1.73		10.35	18.92	83.84	86.68	03-Oct-18 23:00:00		18.91	18.92	83.84	88.41
04-Oct-18 00:00:00	04-Oct-18 01:00:00		41.82	0.00	0.00	5.27	2.1	329.7		13.79	0.00	0.00	1.74		10.35	18.92	83.84	86.68	04-Oct-18 00:00:00		24.14	18.92	83.84	88.42
04-Oct-18 01:00:00	04-Oct-18 02:00:00		27.38	0.00	0.00	5.30	2.1	329.7		9.03	0.00	0.00	1.75		10.35	18.92	83.84	86.68	04-Oct-18 01:00:00		19.38	18.92	83.84	88.43
04-Oct-18 02:00:00	04-Oct-18 03:00:00		34.97	0.00	0.00	10.19	2.1	329.7		11.53	0.00	0.00	3.36		10.35	18.92	83.84	86.68	04-Oct-18 02:00:00		21.88	18.92	83.84	90.04
04-Oct-18 03:00:00	04-Oct-18 04:00:00		21.35	0.00	0.00	5.69	2.1	329.7		7.04	0.00	0.00	1.88		10.35	18.92	83.84	86.68	04-Oct-18 03:00:00		17.39	18.92	83.84	88.56
04-Oct-18 04:00:00	04-Oct-18 05:00:00		46.23	0.00	0.00	5.72	2.1	329.7		15.24	0.00	0.00	1.88		10.35	18.92	83.84	86.68	04-Oct-18 04:00:00		25.59	18.92	83.84	88.56
04-Oct-18 05:00:00	04-Oct-18 06:00:00		45.09	0.00	0.00	5.74	2.1	329.7		14.87	0.00	0.00	1.89		10.35	18.92	83.84	86.68	04-Oct-18 05:00:00		25.22	18.92	83.84	88.57
04-Oct-18 06:00:00	04-Oct-18 07:00:00		38.87	0.00	0.00	5.76	2.1	329.7		12.81	0.00	0.00	1.90		10.35	18.92	83.84	86.68	04-Oct-18 06:00:00		23.16	18.92	83.84	88.58
04-Oct-18 07:00:00	04-Oct-18 08:00:00		38.96	0.00	0.00	5.69	2.1	329.7		12.85	0.00	0.00	1.88		10.35	18.92	83.84	86.68	04-Oct-18 07:00:00		23.20	18.92	83.84	88.56
04-Oct-18 08:00:00	04-Oct-18 09:00:00		36.89	0.00	0.00	5.59	2.1	329.7		12.16	0.00	0.00	1.84		10.35	18.92	83.84	86.68	04-Oct-18 08:00:00		22.51	18.92	83.84	88.52
04-Oct-18 09:00:00	04-Oct-18 10:00:00		34.49	0.00	0.00	5.49	2.1	329.7		11.37	0.00	0.00	1.81		10.35	18.92	83.84	86.68	04-Oct-18 09:00:00		21.72	18.92	83.84	88.49
04-Oct-18 10:00:00	04-Oct-18 11:00:00		33.09	0.00	0.00	5.39	2.1	329.7		10.91	0.00	0.00	1.78		10.35	18.92	83.84	86.68	04-Oct-18 10:00:00		21.26	18.92	83.84	88.46
04-Oct-18 11:00:00	04-Oct-18 12:00:00		29.50	0.00	0.00	5.23	2.1	329.7		9.73	0.00	0.00	1.73		10.35	18.92	83.84	86.68	04-Oct-18 11:00:00		20.08	18.92	83.84	88.41
04-Oct-18 12:00:00	04-Oct-18 13:00:00		20.78	0.00	0.00	5.03	2.1	329.7		6.85	0.00	0.00	1.66		10.35	18.92	83.84	86.68	04-Oct-18 12:00:00		17.20	18.92	83.84	88.34
04-Oct-18 13:00:00	04-Oct-18 14:00:00		48.95	0.00	0.00	4.83	2.1	329.7		16.14	0.00	0.00	1.59		10.35	18.92	83.84	86.68	04-Oct-18 13:00:00		26.49	18.92	83.84	88.27
04-Oct-18 14:00:00	04-Oct-18 15:00:00		46.09	0.00	0.00	4.55	2.1	329.7		15.19	0.00	0.00	1.50		10.35	18.92	83.84	86.68	04-Oct-18 14:00:00		25.54	18.92	83.84	88.18
04-Oct-18 15:00:00	04-Oct-18 16:00:00		46.02	0.00	0.00	4.31	2.1	329.7		15.17	0.00	0.00	1.42		10.35	18.92	83.84	86.68	04-Oct-18 15:00:00		25.52	18.92	83.84	88.10
04-Oct-18 16:00:00	04-Oct-18 17:00:00		15.70	0.00	0.00	4.28	2.1	329.7		5.17	0.00	0.00	1.41		10.35	18.92	83.84	86.68	04-Oct-18 16:00:00		15.52	18.92	83.84	88.09
04-Oct-18 17:00:00	04-Oct-18 18:00:00		13.73	0.00	0.00	4.26	2.1	329.7		4.53	0.00	0.00	1.40		10.35	18.92	83.84	86.68	04-Oct-18 17:00:00		14.88	18.92	83.84	88.08
04-Oct-18 18:00:00	04-Oct-18 19:00:00		15.63	0.00	0.00	4.29	2.1	329.7		5.15	0.00	0.00	1.41		10.35	18.92	83.84	86.68	04-Oct-18 18:00:00		15.50	18.92	83.84	88.09
04-Oct-18 19:00:00	04-Oct-18 20:00:00		19.00	0.00	0.00	4.53	2.1	329.7		6.26	0.00	0.00	1.49		10.35	18.92	83.84	86.68	04-Oct-18 19:00:00		16.61	18.92	83.84	88.17
04-Oct-18 20:00:00	04-Oct-18 21:00:00		34.14	0.00	0.00	4.73	2.1	329.7		11.25	0.00	0.00	1.56		10.35	18.92	83.84	86.68	04-Oct-18 20:00:00		21.60	18.92	83.84	88.24
04-Oct-18 21:00:00	04-Oct-18 22:00:00		53.31	0.00	0.00	4.92	2.1	329.7		17.58	0.00	0.00	1.62		10.35	18.92	83.84	86.68	04-Oct-18 21:00:00		27.93	18.92	83.84	88.30
04-Oct-18 22:00:00	04-Oct-18 23:00:00		45.01	0.00	0.00	5.14	2.1	329.7		14.84	0.00	0.00	1.69		10.35	18.92	83.84	86.68	04-Oct-18 22:00:00		25.19	18.92	83.84	88.37
04-Oct-18 23:00:00	05-Oct-18 00:00:00		28.53	0.00	0.00	5.32	2.1	329.7		9.41	0.00	0.00	1.75		10.35	18.92	83.84	86.68	04-Oct-18 23:00:00		19.76	18.92	83.84	88.43
05-Oct-18 00:00:00	05-Oct-18 01:00:00		44.76	0.00	0.00	5.45	2.1	329.7		14.76	0.00	0.00	1.80		10.35	18.92	83.84	86.68	05-Oct-18 00:00:00		25.11	18.92	83.84	88.48
05-Oct-18 01:00:00	05-Oct-18 02:00:00		21.52	0.00	0.00	5.58	2.1	329.7		7.09	0.00	0.00	1.84		10.35	18.92	83.84	86.68	05-Oct-18 01:00:00		17.44	18.92	83.84	88.52
05-Oct-18 02:00:00	05-Oct-18 03:00:00		23.08	0.00	0.00	5.67	2.1	329.7		7.61	0.00	0.00	1.87		10.35	18.92	83.84	86.68	05-Oct-18 02:00:00		17.96	18.92	83.84	88.55
05-Oct-18 03:00:00	05-Oct-18 04:00:00		36.16	0.00	0.00	5.66	2.1	329.7		11.92	0.00	0.00	1.86		10.35	18.92	83.84	86.68	05-Oct-18 03:00:00		22.27	18.92	83.84	88.54
05-Oct-18 04:00:00	05-Oct-18 05:00:00		43.79	0.00	0.00	5.69	2.1	329.7		14.44	0.00	0.00	1.88		10.35	18.92	83.84	86.68	05-Oct-18 04:00:00		24.79	18.92	83.84	88.56
05-Oct-18 05:00:00	05-Oct-18 06:00:00		40.96	0.00	0.00	5.72	2.1	329.7		13.50	0.00	0.00	1.89		10.35	18.92	83.84	86.68	05-Oct-18 05:00:00		23.85	18.92	83.84	88.57
05-Oct-18 06:00:00	05-Oct-18 07:00:00		36.76	0.00	0.00	5.75	2.1	329.7		12.12	0.00	0.00	1.90		10.35	18.92	83.84	86.68	05-Oct-18 06:00:00		22.47	18.92	83.84	88.58
05-Oct-18 07:00:00	05-Oct-18 08:00:00		49.71	0.00	0.00	5.63	2.1	329.7		16.39	0.00	0.00	1.86		10.35	18.92	83.84	86.68	05-Oct-18 07:00:00		26.74	18.92	83.84	88.54
05-Oct-18 08:00:00	05-Oct-18 09:00:00		51.43	0.00	0.00	5.46	2.1	329.7		16.96	0.00	0.00	1.80		10.35	18.92	83.84	86.68	05-Oct-18 08:00:00		27.31	18.92	83.84	88.48
05-Oct-18 09:00:00	05-Oct-18 10:00:00		61.47	0.00	0.00	5.29	2.1	329.7		20.27	0.00	0.00	1.74		10.35	18.92	83.84	86.68	05-Oct-18 09:00:00		30.62	18.92	83.84	88.42
05-Oct-18 10:00:00	05-Oct-18 11:00:00		45.52	0.00	0.00	5.12	2.1	329.7		15.01	0.00	0.00	1.69		10.35	18.92	83.84	86.68	05-Oct-18 10:00:00		25.36	18.92	83.84	88.37
05-Oct-18 11:00:00	05-Oct-18 12:00:00		31.87	0.00	0.00	4.96	2.1	329.7		10.51	0.00	0.00	1.64		10.35	18.92	83.84	86.68	05-Oct-18 11:00:00		20.86	18.92	83.84	88.32
05-Oct-18 12:00:00	05-Oct-18 13:00:00		53.19	0.00	0.00	4.78	2.1	329.7		17.54	0.00	0.00	1.58		10.35	18.92	83.84	86.68	05-Oct-18 12:00:00		27.89	18.92	83.84	88.26
05-Oct-18 13:00:00	05-Oct-18 14:00:00		52.75	0.00	0.00	4.60	2.1	329.7		17.39	0.00	0.00	1.52		10.35	18.92	83.84	86.68	05-Oct-18 13:00:00		27.74	18.92	83.84	88.20
05-Oct-18 14:00:00	05-Oct-18 15:00:00		37.57	0.00	0.00	4.44	2.1	329.7		12.39	0.00	0.00	1.46		10.35	18.92	83.84	86.68	05-Oct-18 14:00:00		22.74	18.92	83.84	88.14
05-Oct-18 15:00:00	05-Oct-18 16:00:00		43.53	0.00	0.00	4.43	2.1	329.7		14.35	0.00	0.00	1.46		10.35	18.92	83.84	86.68	05-Oct-18 15:00:00		24.70	18.92	83.84	88.14
05-Oct-18 16:00:00	05-Oct-18 17:00:00		29.35	0.00	0.00	4.45	2.1	329.7		9.68	0.00	0.00	1.47		10.35	18.92	83.84	86.68	05-Oct-18 16:00:00		20.03	18.92	83.84	88.15
05-Oct-18 17:00:00	05-Oct-18 18:00:00		26.61	0.00	0.00	4.47	2.1	329.7		8.77	0.00	0.00	1.47		10.35	18.92	83.84	86.68	05-Oct-18 17:00:00		19.12	18.92	83.84	88.15
05-Oct-18 18:00:00	05-Oct-18 19:00:00		21.78	0.00	0.00	4.47	2.1	329.7		7.18	0.00	0.00	1.47		10.35	18.92	83.84	86.68	05-Oct-18 18:00:00		17.53	18.92	83.84	88.15
05-Oct-18 19:00:00	05-Oct-18 20:00:00		21.98	0.00	0.00	4.57	2.1	329.7		7.25	0.00	0.00	1.51		10.35	18.92	83.84	86.68	05-Oct-18 19:00:00		17.60	18.92	83.84	88.19
05-Oct-18 20:00:00	05-Oct-18 21:00:00		40.96	0.00	0.00	4.78	2.1	329.7		13.51	0.00	0.00	1.58		10.35	18.92	83.84	86.68	05-Oct-18 20:00:00		23.86	18.92	83.84	88.26
05-Oct-18 21:00:00	05-Oct-18 22:00:00		38.36	0.00	0.00	5.00	2.1	329.7		12.65	0.00	0.00	1.65		10.35	18.92	83.84	86.68	05-Oct-18 21:00:00		23.00	18.92	83.84	88.33
05-Oct-18 22:00:00	05-Oct-18 23:00:00		57.17	0.00	0.00	5.21	2.1	329.7		18.85	0.00	0.00	1.72		10.35	18.92	83.84	86.68	05-Oct-18 22:00:00		29.20	18.92	83.84	88.40
05-Oct-18 23:00:00	06-Oct-18 00:00:00		44.58	0.00	0.00	5.34	2.1	329.7		14.70	0.00	0.00	1.76		10.35	18.92	83.84	86.68	05-Oct-18 23:00:00		25.05	18.92	83.84	88.44
06-Oct-18 00:00:00	06-Oct-18 01:00:00		49.08	0.00	0.00

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
08-Oct-18 02:00:00	08-Oct-18 03:00:00		13.91	0.00	0.00	5.75	2.1	329.7		4.59	0.00	0.00	1.90		10.35	18.92	83.84	86.68	08-Oct-18 02:00:00		14.94	18.92	83.84	88.58
08-Oct-18 03:00:00	08-Oct-18 04:00:00		23.79	0.00	0.00	5.88	2.1	329.7		7.84	0.00	0.00	1.94		10.35	18.92	83.84	86.68	08-Oct-18 03:00:00		18.19	18.92	83.84	88.62
08-Oct-18 04:00:00	08-Oct-18 05:00:00		14.56	0.00	0.00	5.95	2.1	329.7		4.80	0.00	0.00	1.96		10.35	18.92	83.84	86.68	08-Oct-18 04:00:00		15.15	18.92	83.84	88.64
08-Oct-18 05:00:00	08-Oct-18 06:00:00		14.16	0.00	0.00	6.01	2.1	329.7		4.67	0.00	0.00	1.98		10.35	18.92	83.84	86.68	08-Oct-18 05:00:00		15.02	18.92	83.84	88.66
08-Oct-18 06:00:00	08-Oct-18 07:00:00		43.00	0.00	0.00	6.04	2.1	329.7		14.18	0.00	0.00	1.99		10.35	18.92	83.84	86.68	08-Oct-18 06:00:00		24.53	18.92	83.84	88.67
08-Oct-18 07:00:00	08-Oct-18 08:00:00		28.83	0.00	0.00	5.84	2.1	329.7		9.50	0.00	0.00	1.92		10.35	18.92	83.84	86.68	08-Oct-18 07:00:00		19.85	18.92	83.84	88.60
08-Oct-18 08:00:00	08-Oct-18 09:00:00		26.54	0.00	0.00	5.73	2.1	329.7		8.75	0.00	0.00	1.89		10.35	18.92	83.84	86.68	08-Oct-18 08:00:00		19.10	18.92	83.84	88.57
08-Oct-18 09:00:00	08-Oct-18 10:00:00		25.81	0.00	0.00	5.62	2.1	329.7		8.51	0.00	0.00	1.85		10.35	18.92	83.84	86.68	08-Oct-18 09:00:00		18.86	18.92	83.84	88.53
08-Oct-18 10:00:00	08-Oct-18 11:00:00		25.25	0.00	0.00	5.53	2.1	329.7		8.32	0.00	0.00	1.82		10.35	18.92	83.84	86.68	08-Oct-18 10:00:00		18.67	18.92	83.84	88.50
08-Oct-18 11:00:00	08-Oct-18 12:00:00		38.29	0.00	0.00	5.49	2.1	329.7		12.63	0.00	0.00	1.81		10.35	18.92	83.84	86.68	08-Oct-18 11:00:00		22.98	18.92	83.84	88.49
08-Oct-18 12:00:00	08-Oct-18 13:00:00		41.48	0.00	0.00	5.35	2.1	329.7		13.68	0.00	0.00	1.76		10.35	18.92	83.84	86.68	08-Oct-18 12:00:00		24.03	18.92	83.84	88.44
08-Oct-18 13:00:00	08-Oct-18 14:00:00		30.21	0.00	0.00	5.21	2.1	329.7		9.96	0.00	0.00	1.72		10.35	18.92	83.84	86.68	08-Oct-18 13:00:00		20.31	18.92	83.84	88.40
08-Oct-18 14:00:00	08-Oct-18 15:00:00		33.26	0.00	0.00	5.08	2.1	329.7		10.97	0.00	0.00	1.67		10.35	18.92	83.84	86.68	08-Oct-18 14:00:00		21.32	18.92	83.84	88.35
08-Oct-18 15:00:00	08-Oct-18 16:00:00		41.13	0.00	0.00	5.15	2.1	329.7		13.56	0.00	0.00	1.70		10.35	18.92	83.84	86.68	08-Oct-18 15:00:00		23.91	18.92	83.84	88.38
08-Oct-18 16:00:00	08-Oct-18 17:00:00		63.98	0.00	0.00	5.33	2.1	329.7		21.10	0.00	0.00	1.76		10.35	18.92	83.84	86.68	08-Oct-18 16:00:00		31.45	18.92	83.84	88.44
08-Oct-18 17:00:00	08-Oct-18 18:00:00		74.40	0.00	0.00	5.52	2.1	329.7		24.53	0.00	0.00	1.82		10.35	18.92	83.84	86.68	08-Oct-18 17:00:00		34.88	18.92	83.84	88.50
08-Oct-18 18:00:00	08-Oct-18 19:00:00		67.57	0.00	0.00	5.71	2.1	329.7		22.28	0.00	0.00	1.88		10.35	18.92	83.84	86.68	08-Oct-18 18:00:00		32.63	18.92	83.84	88.56
08-Oct-18 19:00:00	08-Oct-18 20:00:00		69.20	0.00	0.00	5.80	2.1	329.7		22.82	0.00	0.00	1.91		10.35	18.92	83.84	86.68	08-Oct-18 19:00:00		33.17	18.92	83.84	88.59
08-Oct-18 20:00:00	08-Oct-18 21:00:00		73.40	0.00	0.00	5.83	2.1	329.7		24.20	0.00	0.00	1.92		10.35	18.92	83.84	86.68	08-Oct-18 20:00:00		34.55	18.92	83.84	88.60
08-Oct-18 21:00:00	08-Oct-18 22:00:00		77.24	0.00	0.00	5.87	2.1	329.7		25.47	0.00	0.00	1.94		10.35	18.92	83.84	86.68	08-Oct-18 21:00:00		35.82	18.92	83.84	88.62
08-Oct-18 22:00:00	08-Oct-18 23:00:00		63.22	0.00	0.00	5.89	2.1	329.7		20.84	0.00	0.00	1.94		10.35	18.92	83.84	86.68	08-Oct-18 22:00:00		31.19	18.92	83.84	88.62
08-Oct-18 23:00:00	09-Oct-18 00:00:00		24.71	0.00	0.00	5.81	2.1	329.7		8.15	0.00	0.00	1.92		10.35	18.92	83.84	86.68	08-Oct-18 23:00:00		18.50	18.92	83.84	88.60
09-Oct-18 00:00:00	09-Oct-18 01:00:00		40.58	0.00	0.00	5.84	2.1	329.7		13.38	0.00	0.00	1.93		10.35	18.92	83.84	86.68	09-Oct-18 00:00:00		23.73	18.92	83.84	88.61
09-Oct-18 01:00:00	09-Oct-18 02:00:00		33.73	0.00	0.00	5.87	2.1	329.7		11.12	0.00	0.00	1.94		10.35	18.92	83.84	86.68	09-Oct-18 01:00:00		21.47	18.92	83.84	88.62
09-Oct-18 02:00:00	09-Oct-18 03:00:00		30.56	0.00	0.00	5.93	2.1	329.7		10.08	0.00	0.00	1.95		10.35	18.92	83.84	86.68	09-Oct-18 02:00:00		20.43	18.92	83.84	88.63
09-Oct-18 03:00:00	09-Oct-18 04:00:00		38.18	0.00	0.00	6.08	2.1	329.7		12.59	0.00	0.00	2.01		10.35	18.92	83.84	86.68	09-Oct-18 03:00:00		22.94	18.92	83.84	88.69
09-Oct-18 04:00:00	09-Oct-18 05:00:00		36.42	93.14	0.00	6.00	2.1	329.7		12.01	30.71	0.00	1.98		10.35	18.92	83.84	86.68	09-Oct-18 04:00:00		22.36	49.63	83.84	88.66
09-Oct-18 05:00:00	09-Oct-18 06:00:00		39.99	0.00	0.00	5.92	2.1	329.7		13.18	0.00	0.00	1.95		10.35	18.92	83.84	86.68	09-Oct-18 05:00:00		23.53	18.92	83.84	88.63
09-Oct-18 06:00:00	09-Oct-18 07:00:00		37.78	0.00	0.00	5.84	2.1	329.7		12.45	0.00	0.00	1.92		10.35	18.92	83.84	86.68	09-Oct-18 06:00:00		22.80	18.92	83.84	88.60
09-Oct-18 07:00:00	09-Oct-18 08:00:00		49.62	0.00	0.00	5.77	2.1	329.7		16.36	0.00	0.00	1.90		10.35	18.92	83.84	86.68	09-Oct-18 07:00:00		26.71	18.92	83.84	88.58
09-Oct-18 08:00:00	09-Oct-18 09:00:00		7.72	0.00	0.00	5.77	2.1	329.7		2.55	0.00	0.00	1.90		10.35	18.92	83.84	86.68	09-Oct-18 08:00:00		12.90	18.92	83.84	88.58
09-Oct-18 09:00:00	09-Oct-18 10:00:00		1.79	0.00	0.00	5.77	2.1	329.7		0.59	0.00	0.00	1.90		10.35	18.92	83.84	86.68	09-Oct-18 09:00:00		10.94	18.92	83.84	88.58
09-Oct-18 10:00:00	09-Oct-18 11:00:00		1.74	0.00	0.00	5.78	2.1	329.7		0.57	0.00	0.00	1.91		10.35	18.92	83.84	86.68	09-Oct-18 10:00:00		10.92	18.92	83.84	88.59
09-Oct-18 11:00:00	09-Oct-18 12:00:00		1.70	0.00	0.00	5.80	2.1	329.7		0.56	0.00	0.00	1.91		10.35	18.92	83.84	86.68	09-Oct-18 11:00:00		10.91	18.92	83.84	88.59
09-Oct-18 12:00:00	09-Oct-18 13:00:00		1.55	0.00	0.00	5.70	2.1	329.7		0.51	0.00	0.00	1.88		10.35	18.92	83.84	86.68	09-Oct-18 12:00:00		10.86	18.92	83.84	88.56
09-Oct-18 13:00:00	09-Oct-18 14:00:00		1.22	0.00	0.00	5.61	2.1	329.7		0.40	0.00	0.00	1.85		10.35	18.92	83.84	86.68	09-Oct-18 13:00:00		10.75	18.92	83.84	88.53
09-Oct-18 14:00:00	09-Oct-18 15:00:00		1.17	0.00	0.00	5.51	2.1	329.7		0.39	0.00	0.00	1.82		10.35	18.92	83.84	86.68	09-Oct-18 14:00:00		10.74	18.92	83.84	88.50
09-Oct-18 15:00:00	09-Oct-18 16:00:00		1.12	0.00	0.00	5.38	2.1	329.7		0.37	0.00	0.00	1.77		10.35	18.92	83.84	86.68	09-Oct-18 15:00:00		10.72	18.92	83.84	88.45
09-Oct-18 16:00:00	09-Oct-18 17:00:00		1.16	0.00	0.00	5.36	2.1	329.7		0.38	0.00	0.00	1.77		10.35	18.92	83.84	86.68	09-Oct-18 16:00:00		10.73	18.92	83.84	88.45
09-Oct-18 17:00:00	09-Oct-18 18:00:00		4.54	0.00	0.00	5.34	2.1	329.7		1.50	0.00	0.00	1.76		10.35	18.92	83.84	86.68	09-Oct-18 17:00:00		11.85	18.92	83.84	88.44
09-Oct-18 18:00:00	09-Oct-18 19:00:00		11.06	0.00	0.00	5.32	2.1	329.7		3.65	0.00	0.00	1.75		10.35	18.92	83.84	86.68	09-Oct-18 18:00:00		14.00	18.92	83.84	88.43
09-Oct-18 19:00:00	09-Oct-18 20:00:00		11.31	0.00	0.00	5.39	2.1	329.7		3.73	0.00	0.00	1.78		10.35	18.92	83.84	86.68	09-Oct-18 19:00:00		14.08	18.92	83.84	88.46
09-Oct-18 20:00:00	09-Oct-18 21:00:00		11.55	0.00	0.00	5.51	2.1	329.7		3.81	0.00	0.00	1.82		10.35	18.92	83.84	86.68	09-Oct-18 20:00:00		14.16	18.92	83.84	88.50
09-Oct-18 21:00:00	09-Oct-18 22:00:00		11.79	0.00	0.00	5.63	2.1	329.7		3.89	0.00	0.00	1.86		10.35	18.92	83.84	86.68	09-Oct-18 21:00:00		14.24	18.92	83.84	88.54
09-Oct-18 22:00:00	09-Oct-18 23:00:00		11.93	0.00	0.00	5.75	2.1	329.7		3.93	0.00	0.00	1.90		10.35	18.92	83.84	86.68	09-Oct-18 22:00:00		14.28	18.92	83.84	88.58
09-Oct-18 23:00:00	10-Oct-18 00:00:00		12.03	0.00	0.00	5.74	2.1	329.7		3.96	0.00	0.00	1.89		10.35	18.92	83.84	86.68	09-Oct-18 23:00:00		14.31	18.92	83.84	88.57
10-Oct-18 00:00:00	10-Oct-18 01:00:00		12.12	0.00	0.00	5.76	2.1	329.7		4.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	10-Oct-18 00:00:00		14.35	18.92	83.84	88.58
10-Oct-18 01:00:00	10-Oct-18 02:00:00		17.42	0.00	0.00	5.77	2.1	329.7		5.74	0.00	0.00	1.90		10.35	18.92	83.84	86.68	10-Oct-18 01:00:00		16.09	18.92	83.84	88.58
10-Oct-18 02:00:00	10-Oct-18 03:00:00		40.79	0.00	0.00	5.79	2.1	329.7		13.45	0.00	0.00	1.91		10.35	18.92	83.84	86.68	10-Oct-18 02:00:00		23.80	18.92	83.84	88.59
10-Oct-18 03:00:00	10-Oct-18 04:00:00		40.13	0.00	0.00	5.83	2.1	329.7		13.23	0.00	0.00	1.92		10.35	18.92	83.84	86.68	10-Oct-18 03:00:00		23.58	18.92	83.84	88.60
10-Oct-18 04:00:00	10-Oct-18 05:00:00		40.37	0.00	0.00	5.89	2.1	329.7		13.31	0.00	0.00	1.94		10.35	18.92	83.84	86.68	10-Oct-18 04:00:00		23.66	18.92	83.84	88.62
10-Oct-18 05:00:00	10-Oct-18 06:00:00		64.29	0.00	0.00	5.95	2.1	329.7		21.20	0.00	0.00	1.96		10.35	18.92	83.84	86.68	10-Oct-18 05:00:00		31.55	18.92	83.84	88.64
10-Oct-18 06:00:00	10-Oct-18 07:00:00		94.16	0.00	0.00	6.01	2.1	329.7		31.04	0.00	0.00	1.98		10.35	18.92	83.84	86.68	10-Oct-18 06:00:00		41.39	18.92	83.84	88.66
10-Oct-18 07:00:00	10-Oct-18 08:00:00		81.24	0.00	0.00	6.05	2.1	329.7		26.79	0.00	0.00	2.00		10.35	18.92	83.84	86.68	10-Oct-18 07:00:00		37.14	18.92	83.84	88.68
10-Oct-18 08:00:00	10-Oct-18 09:00:00		80.20	0.00	0.00	5.99	2.1	329.7		26.44	0.00	0.00	1.97		10.35	18.92	83.84	86.68	10-Oct-18 08:00:00		36.79	18.92	83.84	88.65
10-Oct-18 09:00:00	10-Oct-18 10:00:00		78.85	0.00	0.00	5.92	2.1	329.7		26.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	10-Oct-18 09:00:00		36.35	18.92	83.84	88.63
10-Oct-18 10:00:00	10-Oct-18 11:00:00		78.23	0.00	0.00	5.85	2.1	329.7		25.79	0.00	0.00	1.93		10.35	18.92	83.84	86.68	10-Oct-18 10:00:00		36.14	18.92	83.84	88.61
10-Oct-18 11:00:00	10-Oct-18 12:00:00		77.67	0.00	0.00	5.84	2.1	329.7		25.61	0.00	0.00	1.93		10.35	18.92	83.84	86.68	10-Oct-18 11:00:00		35.96	18.92	83.84	88.61
10-Oct-18 12:00:00	10-Oct-18 13:00:00		75.60	0.00	0.00	5.86	2.1	329.7		24.93	0.00	0.00	1.93		10.35	18.92	83.84	86.68	10-Oct-18 12:00:00		35.28	18.92	83.84	88.61
10-Oct-18 13:00:00	10-Oct-18 14:00:00		74.48	0.00	0.00	5.88	2.1	329.7		24.55	0.00	0.00	1.94		10.35	18.92	83.84	86.68	10-Oct-18 13:00:00		34.90	18.92	83.84	88.62
10-Oct-18 14:00:00	10-Oct-18 15:00:00		73.75	0.00	0.00	5.90	2.1	329.7		24.31	0.00	0.00	1.94		10.35	18.92	83.84	86.68	10-Oct-18 14:00:00		34.66	18.92	83.84	88.62
10-Oct-18 15:00:00	10-Oct-18 16:00:00		71.60	0.00	0.00	6.05	2.1	329.7		23.61	0.00	0.00	1.99		10.35	18.92	83.84	86.68	10-Oct-18 15:00:00		33.96	18.92	83.84	88.67
10-Oct-18 16:00:00	10-Oct-18 17:00:00		72.10	0.00	0.00	5.92	2.1	329.7		23.77	0.00	0.00	1.95		10.35	18.92	83.84	86.68	10-Oct-18 16:00:00		34.12	18.92	83.84	88.63
10-Oct-18 17:00:00	10-Oct-18 18:00:00		72.60	0.00	0.00	5.79	2.1	329.7		23.94	0.00	0.00	1.91		10.35	18.92	83.84	86.68	10-Oct-18 17:00:00		34.29	18.92	83.84	88.59
10-Oct-18 18:00:00	10-Oct-18 19:00:00		73.10	0.00	0.00	5.66	2.1	329.7		24.10	0.00	0.00	1.87		10.35	18.92	83.84	86.68	10-Oct-18 18:00:00		34.45	18.92	83.84	88.55
10-Oct-18 19:00:00	10-Oct-18 20:00:00		73.38	0.00	0.00	5.48	2.1	329.7		24.19	0.00	0.00	1.81		10.35	18.92	83.84	86.68	10-Oct-18 19:00:00		34.54	18.92	83.84	88.49
10-Oct-18 20:00:00	10-Oct-18 21:00:00		73.47	0.00	0.00	5.56	2.1	329.7		24.22	0.00	0.00	1.83		10.35	18.92	83.84	86.68	10-Oct-18 20:00:00		34.57	18.92	83.84	88.51
10-Oct-18 21:00:00	10-Oct-18 22:00:00		73.57	0.00	0.00	5.65	2.1	329.7		24.26	0.00	0.00	1.86		10.35	18.92	83.84	86.68	10-Oct-18 21:00:00		34.61	18.92	83.84	88.54
10-Oct-18 22:00:00	10-Oct-18 23:00:00		75.65	0.00	0.00	5.73	2.1	329.7		24.94	0.00	0.00	1.89		10.35	18.92	83.84	86.68	10-Oct-18 22:00:00		35.29	18.92	83.84	88.57
10-Oct-18 23:00:00	11-Oct-18 00:00:00		72.64	0.00	0.00	5.75	2.1	329.7		23.95	0.00	0.00	1.89		10.35	18.92	83.84	86.68	10-Oct-18 23:00:00		34.30	18.92	83.84	88.57
11-Oct-18 00:00:00	11-Oct-18 01:00:00		75.43	0.00	0.00	5.73	2.1	329.7		24.87	0.00	0.00	1.89		10.35	18.92	83.84	86.68	11-Oct-18 00:00:00		35.22	18.92	83.84	88.57
11-Oct-18 01:00:00	11-Oct-18 02:00:00		77.15	0.00	0.00	5.72	2.1	329.7		25.44	0.00	0.00	1.89		10.35	18.92	83.84	86.68	11-Oct-18 01:00:00		35.79	18.92	83.84	88.57
11-Oct-18 02:00:00	11-Oct-18 03:00:00		75.90	0.00	0.00	5.71	2.1	329.7		25.03	0.00	0.00	1.88		10.35	18.92	83.84	86.68	11-Oct-18 02:00:00		35.38	18.92	83.84	88.56
11-Oct-18 03:00:00	11-Oct-18 04:00:00		76.09	0.00	0.00	5.83	2.1	329.7		25.09	0.00	0.00	1.92		10.35	18.92	83.84	86.68	11-Oct-18 03:00:00		35.44	18.92	83.84	88.60
11-Oct-18 04:00:00	11-Oct-18 05:00:00		74.45	0.00	0.00	5.89	2.1	329.7		24.55	0.00	0.00	1.94		10.35	18.92	83.84	86.68	11-Oct-18 04:00:00		34.90	18.92	83.84	88.62
11-Oct-18 05:00:00	11-Oct-18 06:00:00		71.13	0.00	0.00	5.96	2.1	329.7		23.45	0.00	0.00	1.96		10.35	18.92	83.84	86.68	11-Oct-18 05:00:00		33.80	18.92	83.84	88.64
11-Oct-18 06:00:00	11-Oct-18 07:00:00		70.05	0.00	0.00	6.02	2.1	329.7		23.10	0.00	0.00	1.99		10.35	18.92	83.84	86.68	11-Oct-18 06:00:00		33.45	18.92	83.84	88.67
11-Oct-18 07:00:00	11-Oct-18 08:00:00		69.32	0.00	0.00	6.13	2.1	329.7		22.86	0.00	0.00	2.02		10.35	18.92	83.84	86.68	11-Oct-18 07:00:00		33.21	18.92	83.84	88.70
11-Oct-18 08:00:00	11-Oct-18 09:00:00		70.99	0.00	0.00	6.17	2.1	329.7		23.41	0.00	0.00	2.04		10.35	18.92	83.84	86.68	11-Oct-18 08:00:00		33.76	18.92	83.84	88.72
11-Oct-18 09:00:00	11-Oct-18 10:00:00		71.48	0.00	0.00	6.21	2.1	329.7		23.57	0.00	0.00	2.05		10.35	18.92	83.84	86.68	11-Oct-18 09:00:00		33.92	18.92	83.84	88.73
11-Oct-18 10:00:00	11-Oct-18 11:00:00		73.09	0.00	0.00	6.25	2.1	329.7		24.10	0.00	0.00	2.06		10.35	18.92	83.84	86.68	11-Oct-18 10:00:00		34.45	18.92	83.84	88.74
11-Oct-18 11:00:00	11-Oct-18 12:00:00		72.84	0.00	0.00	6.27	2.1	329.7		24.01	0.00	0.00	2.07		10.35	18.92	83.84	86.68	11-Oct-18 11:00:00		34.36	18.92	83.84	88.75
11-Oct-18 12:00:00	11-Oct-18 13:00:00		64.03	0.00	0.00	6.08	2.1	329.7		21.11	0.00	0.00	2.00		10.35	18.92	83.84	86.68	11-Oct-18 12:00:00		31.46	18.92	83.84	88.68
11-Oct-18 13:00:00	11-Oct-18 14:00:00		49.46	0.00	0.00	5.89	2.1	329.7		16.31	0.00	0.00	1.94		10.35	18.92	83.84	86.68	11-Oct-18 13:00:00		26.66	18.92	83.84	88.62
11-Oct-18 14:00:00	11-Oct-18 15:00:00		47.89	0.00	0.00	5.71	2.1	329.7		15.79	0.00	0.00	1.88		10.35	18.92	83.84	86.68	11-Oct-18 14:00:00		26.14	18.92	83.84	88.56
11-Oct-18 15:00:00	11-Oct-18 16:00:00		60.94	0.00	0.00	5.72	2.1	329.7		20.09	0.00	0.00	1.89		10.35	18.92	83.84	86.68	11-Oct-18 15:00:00		30.44	18.92	83.84	88.57
11-Oct-18 16:00:00	11-Oct-18 17:00:00		76.22	0.00	0.00	5.61	2.1	329.7		25.13	0.00	0.00	1.85		10.35	18.92	83.84	86.68	11-Oct-18 16:00:00		35.48	18.92	83.84	88.53
11-Oct-18 17:00:00	11-Oct-18 18:00:00		61.81	0.00	0.00	5.50	2.1	329.7		20.38	0.00	0.00	1.81		10.35	18.92	83.84	86.68	11-Oct-18 17:00:00		30.73	18.92	83.84	88.49
11-Oct-18 18:00:00	11-Oct-18 19:00:00		71.52	0.00	0.00	5.39	2.1	329.7		23.58	0.00	0.00	1.78		10.35	18.92	83.84	86.68	11-Oct-18 18:00:00		33.93	18.92	83.84	88.46
11-Oct-18 19:00:00	11-Oct-18 20:00:00		70.75	0.00	0.00	5.46	2.1	329.7		23.33	0.00	0.00	1.80		10.35	18.92	83.84	86.68	11-Oct-18 19:00:00		33.68	18.92	83.84	88.48
11-Oct-18 20:00:00	11-Oct-18 21:00:00		66.75	0.00	0.00	5.55	2.1	329.7		22.01	0.00	0.00	1.83		10.35	18.92	83.84	86.68	11-Oct-18 20:00:00		32.36	18.92	83.84	88.51
11-Oct-18 21:00:00	11-Oct-18 22:00:00		76.75	0.00	0.00	5.64	2.1	329.7		25.30	0.00	0.00	1.86		10.35	18.92	83.84	86.68	11-Oct-18 21:00:00		35.65	18.92	83.84	88.54
11-Oct-18 22:00:00	11-Oct-18 23:00:00		70.11	0.00	0.00	5.72	2.1	329.7		23.12	0.00	0.00	1.89		10.35	18.92	83.84	86.68	11-Oct-18 22:00:00		33.47	18.92	83.84	88.57
11-Oct-18 23:00:00	12-Oct-18 00:00:00		64.48	0.00	0.00	5.81

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
14-Oct-18 01:00:00	14-Oct-18 02:00:00		55.76	0.00	0.00	6.64	2.1	329.7		18.38	0.00	0.00	2.19		10.35	18.92	83.84	86.68	14-Oct-18 01:00:00		28.73	18.92	83.84	88.87
14-Oct-18 02:00:00	14-Oct-18 03:00:00		54.52	0.00	0.00	6.80	2.1	329.7		17.97	0.00	0.00	2.24		10.35	18.92	83.84	86.68	14-Oct-18 02:00:00		28.32	18.92	83.84	88.92
14-Oct-18 03:00:00	14-Oct-18 04:00:00		49.17	0.00	0.00	6.86	2.1	329.7		16.21	0.00	0.00	2.26		10.35	18.92	83.84	86.68	14-Oct-18 03:00:00		26.56	18.92	83.84	88.94
14-Oct-18 04:00:00	14-Oct-18 05:00:00		44.04	0.00	0.00	6.75	2.1	329.7		14.52	0.00	0.00	2.23		10.35	18.92	83.84	86.68	14-Oct-18 04:00:00		24.87	18.92	83.84	88.91
14-Oct-18 05:00:00	14-Oct-18 06:00:00		57.97	0.00	0.00	6.64	2.1	329.7		19.11	0.00	0.00	2.19		10.35	18.92	83.84	86.68	14-Oct-18 05:00:00		29.46	18.92	83.84	88.87
14-Oct-18 06:00:00	14-Oct-18 07:00:00		71.14	0.00	0.00	6.52	2.1	329.7		23.45	0.00	0.00	2.15		10.35	18.92	83.84	86.68	14-Oct-18 06:00:00		33.80	18.92	83.84	88.83
14-Oct-18 07:00:00	14-Oct-18 08:00:00		65.35	0.00	0.00	6.45	2.1	329.7		21.55	0.00	0.00	2.13		10.35	18.92	83.84	86.68	14-Oct-18 07:00:00		31.90	18.92	83.84	88.81
14-Oct-18 08:00:00	14-Oct-18 09:00:00		15.44	0.00	0.00	6.38	2.1	329.7		5.09	0.00	0.00	2.10		10.35	18.92	83.84	86.68	14-Oct-18 08:00:00		15.44	18.92	83.84	88.78
14-Oct-18 09:00:00	14-Oct-18 10:00:00		7.22	0.00	0.00	6.30	2.1	329.7		2.38	0.00	0.00	2.08		10.35	18.92	83.84	86.68	14-Oct-18 09:00:00		12.73	18.92	83.84	88.76
14-Oct-18 10:00:00	14-Oct-18 11:00:00		7.17	0.00	0.00	6.22	2.1	329.7		2.37	0.00	0.00	2.05		10.35	18.92	83.84	86.68	14-Oct-18 10:00:00		12.72	18.92	83.84	88.73
14-Oct-18 11:00:00	14-Oct-18 12:00:00		6.20	0.00	0.00	6.04	2.1	329.7		2.04	0.00	0.00	1.99		10.35	18.92	83.84	86.68	14-Oct-18 11:00:00		12.39	18.92	83.84	88.67
14-Oct-18 12:00:00	14-Oct-18 13:00:00		15.06	0.00	0.00	5.81	2.1	329.7		4.97	0.00	0.00	1.91		10.35	18.92	83.84	86.68	14-Oct-18 12:00:00		15.32	18.92	83.84	88.59
14-Oct-18 13:00:00	14-Oct-18 14:00:00		51.21	0.00	0.00	5.58	2.1	329.7		16.89	0.00	0.00	1.84		10.35	18.92	83.84	86.68	14-Oct-18 13:00:00		27.24	18.92	83.84	88.52
14-Oct-18 14:00:00	14-Oct-18 15:00:00		36.92	0.00	0.00	5.35	2.1	329.7		12.17	0.00	0.00	1.77		10.35	18.92	83.84	86.68	14-Oct-18 14:00:00		22.52	18.92	83.84	88.45
14-Oct-18 15:00:00	14-Oct-18 16:00:00		24.62	0.00	0.00	5.38	2.1	329.7		8.12	0.00	0.00	1.77		10.35	18.92	83.84	86.68	14-Oct-18 15:00:00		18.47	18.92	83.84	88.45
14-Oct-18 16:00:00	14-Oct-18 17:00:00		24.86	0.00	0.00	5.34	2.1	329.7		8.19	0.00	0.00	1.76		10.35	18.92	83.84	86.68	14-Oct-18 16:00:00		18.54	18.92	83.84	88.44
14-Oct-18 17:00:00	14-Oct-18 18:00:00		14.90	0.00	0.00	5.27	2.1	329.7		4.91	0.00	0.00	1.74		10.35	18.92	83.84	86.68	14-Oct-18 17:00:00		15.26	18.92	83.84	88.42
14-Oct-18 18:00:00	14-Oct-18 19:00:00		15.19	0.00	0.00	5.20	2.1	329.7		5.01	0.00	0.00	1.71		10.35	18.92	83.84	86.68	14-Oct-18 18:00:00		15.36	18.92	83.84	88.39
14-Oct-18 19:00:00	14-Oct-18 20:00:00		16.05	0.00	0.00	5.28	2.1	329.7		5.29	0.00	0.00	1.74		10.35	18.92	83.84	86.68	14-Oct-18 19:00:00		15.64	18.92	83.84	88.42
14-Oct-18 20:00:00	14-Oct-18 21:00:00		15.81	0.00	0.00	5.52	2.1	329.7		5.21	0.00	0.00	1.82		10.35	18.92	83.84	86.68	14-Oct-18 20:00:00		15.56	18.92	83.84	88.50
14-Oct-18 21:00:00	14-Oct-18 22:00:00		11.70	0.00	0.00	5.75	2.1	329.7		3.86	0.00	0.00	1.89		10.35	18.92	83.84	86.68	14-Oct-18 21:00:00		14.21	18.92	83.84	88.57
14-Oct-18 22:00:00	14-Oct-18 23:00:00		28.30	0.00	0.00	5.97	2.1	329.7		9.33	0.00	0.00	1.97		10.35	18.92	83.84	86.68	14-Oct-18 22:00:00		19.68	18.92	83.84	88.65
14-Oct-18 23:00:00	15-Oct-18 00:00:00		25.25	0.00	0.00	6.23	2.1	329.7		8.33	0.00	0.00	2.05		10.35	18.92	83.84	86.68	14-Oct-18 23:00:00		18.68	18.92	83.84	88.73
15-Oct-18 00:00:00	15-Oct-18 01:00:00		16.83	0.00	0.00	6.30	2.1	329.7		5.55	0.00	0.00	2.08		10.35	18.92	83.84	86.68	15-Oct-18 00:00:00		15.90	18.92	83.84	88.76
15-Oct-18 01:00:00	15-Oct-18 02:00:00		14.53	0.00	0.00	6.36	2.1	329.7		4.79	0.00	0.00	2.10		10.35	18.92	83.84	86.68	15-Oct-18 01:00:00		15.14	18.92	83.84	88.78
15-Oct-18 02:00:00	15-Oct-18 03:00:00		19.37	0.00	0.00	6.41	2.1	329.7		6.39	0.00	0.00	2.11		10.35	18.92	83.84	86.68	15-Oct-18 02:00:00		16.74	18.92	83.84	88.79
15-Oct-18 03:00:00	15-Oct-18 04:00:00		25.13	0.00	0.00	6.26	2.1	329.7		8.29	0.00	0.00	2.06		10.35	18.92	83.84	86.68	15-Oct-18 03:00:00		18.64	18.92	83.84	88.74
15-Oct-18 04:00:00	15-Oct-18 05:00:00		40.01	0.00	0.00	6.20	2.1	329.7		13.19	0.00	0.00	2.05		10.35	18.92	83.84	86.68	15-Oct-18 04:00:00		23.54	18.92	83.84	88.73
15-Oct-18 05:00:00	15-Oct-18 06:00:00		59.80	0.00	0.00	6.18	2.1	329.7		19.72	0.00	0.00	2.04		10.35	18.92	83.84	86.68	15-Oct-18 05:00:00		30.07	18.92	83.84	88.72
15-Oct-18 06:00:00	15-Oct-18 07:00:00		55.17	0.00	0.00	6.15	2.1	329.7		18.19	0.00	0.00	2.03		10.35	18.92	83.84	86.68	15-Oct-18 06:00:00		28.54	18.92	83.84	88.71
15-Oct-18 07:00:00	15-Oct-18 08:00:00		21.21	0.00	0.00	6.00	2.1	329.7		6.99	0.00	0.00	1.98		10.35	18.92	83.84	86.68	15-Oct-18 07:00:00		17.34	18.92	83.84	88.66
15-Oct-18 08:00:00	15-Oct-18 09:00:00		6.26	0.00	0.00	5.79	2.1	329.7		2.07	0.00	0.00	1.91		10.35	18.92	83.84	86.68	15-Oct-18 08:00:00		12.42	18.92	83.84	88.59
15-Oct-18 09:00:00	15-Oct-18 10:00:00		5.45	0.00	0.00	5.60	2.1	329.7		1.80	0.00	0.00	1.84		10.35	18.92	83.84	86.68	15-Oct-18 09:00:00		12.15	18.92	83.84	88.52
15-Oct-18 10:00:00	15-Oct-18 11:00:00		5.45	0.00	0.00	5.40	2.1	329.7		1.80	0.00	0.00	1.78		10.35	18.92	83.84	86.68	15-Oct-18 10:00:00		12.15	18.92	83.84	88.46
15-Oct-18 11:00:00	15-Oct-18 12:00:00		18.34	0.00	0.00	5.12	2.1	329.7		6.05	0.00	0.00	1.69		10.35	18.92	83.84	86.68	15-Oct-18 11:00:00		16.40	18.92	83.84	88.37
15-Oct-18 12:00:00	15-Oct-18 13:00:00		28.82	0.00	0.00	5.08	2.1	329.7		9.50	0.00	0.00	1.67		10.35	18.92	83.84	86.68	15-Oct-18 12:00:00		19.85	18.92	83.84	88.35
15-Oct-18 13:00:00	15-Oct-18 14:00:00		30.38	0.00	0.00	5.07	2.1	329.7		10.02	0.00	0.00	1.67		10.35	18.92	83.84	86.68	15-Oct-18 13:00:00		20.37	18.92	83.84	88.35
15-Oct-18 14:00:00	15-Oct-18 15:00:00		86.97	0.00	0.00	5.07	2.1	329.7		28.67	0.00	0.00	1.67		10.35	18.92	83.84	86.68	15-Oct-18 14:00:00		39.02	18.92	83.84	88.35
15-Oct-18 15:00:00	15-Oct-18 16:00:00		26.36	0.00	0.00	5.09	2.1	329.7		8.69	0.00	0.00	1.68		10.35	18.92	83.84	86.68	15-Oct-18 15:00:00		19.04	18.92	83.84	88.36
15-Oct-18 16:00:00	15-Oct-18 17:00:00		26.99	0.00	0.00	4.99	2.1	329.7		8.90	0.00	0.00	1.64		10.35	18.92	83.84	86.68	15-Oct-18 16:00:00		19.25	18.92	83.84	88.32
15-Oct-18 17:00:00	15-Oct-18 18:00:00		16.29	0.00	0.00	4.87	2.1	329.7		5.37	0.00	0.00	1.61		10.35	18.92	83.84	86.68	15-Oct-18 17:00:00		15.72	18.92	83.84	88.29
15-Oct-18 18:00:00	15-Oct-18 19:00:00		14.92	0.00	0.00	4.75	2.1	329.7		4.92	0.00	0.00	1.57		10.35	18.92	83.84	86.68	15-Oct-18 18:00:00		15.27	18.92	83.84	88.25
15-Oct-18 19:00:00	15-Oct-18 20:00:00		14.79	0.00	0.00	4.69	2.1	329.7		4.87	0.00	0.00	1.55		10.35	18.92	83.84	86.68	15-Oct-18 19:00:00		15.22	18.92	83.84	88.23
15-Oct-18 20:00:00	15-Oct-18 21:00:00		15.10	0.00	0.00	4.83	2.1	329.7		4.98	0.00	0.00	1.59		10.35	18.92	83.84	86.68	15-Oct-18 20:00:00		15.33	18.92	83.84	88.27
15-Oct-18 21:00:00	15-Oct-18 22:00:00		19.17	0.00	0.00	4.97	2.1	329.7		6.32	0.00	0.00	1.64		10.35	18.92	83.84	86.68	15-Oct-18 21:00:00		16.67	18.92	83.84	88.32
15-Oct-18 22:00:00	15-Oct-18 23:00:00		51.37	0.00	0.00	5.12	2.1	329.7		16.94	0.00	0.00	1.69		10.35	18.92	83.84	86.68	15-Oct-18 22:00:00		27.29	18.92	83.84	88.37
15-Oct-18 23:00:00	16-Oct-18 00:00:00		44.12	0.00	0.00	5.31	2.1	329.7		14.55	0.00	0.00	1.75		10.35	18.92	83.84	86.68	15-Oct-18 23:00:00		24.90	18.92	83.84	88.43
16-Oct-18 00:00:00	16-Oct-18 01:00:00		48.75	0.00	0.00	5.39	2.1	329.7		16.07	0.00	0.00	1.78		10.35	18.92	83.84	86.68	16-Oct-18 00:00:00		26.42	18.92	83.84	88.46
16-Oct-18 01:00:00	16-Oct-18 02:00:00		41.56	0.00	0.00	5.43	2.1	329.7		13.70	0.00	0.00	1.79		10.35	18.92	83.84	86.68	16-Oct-18 01:00:00		24.05	18.92	83.84	88.47
16-Oct-18 02:00:00	16-Oct-18 03:00:00		7.99	0.00	0.00	5.48	2.1	329.7		2.64	0.00	0.00	1.81		10.35	18.92	83.84	86.68	16-Oct-18 02:00:00		12.99	18.92	83.84	88.49
16-Oct-18 03:00:00	16-Oct-18 04:00:00		6.83	0.00	0.00	5.70	2.1	329.7		2.25	0.00	0.00	1.88		10.35	18.92	83.84	86.68	16-Oct-18 03:00:00		12.60	18.92	83.84	88.56
16-Oct-18 04:00:00	16-Oct-18 05:00:00		5.82	0.00	0.00	5.76	2.1	329.7		1.92	0.00	0.00	1.90		10.35	18.92	83.84	86.68	16-Oct-18 04:00:00		12.27	18.92	83.84	88.58
16-Oct-18 05:00:00	16-Oct-18 06:00:00		4.33	0.00	0.00	5.76	2.1	329.7		1.43	0.00	0.00	1.90		10.35	18.92	83.84	86.68	16-Oct-18 05:00:00		11.78	18.92	83.84	88.58
16-Oct-18 06:00:00	16-Oct-18 07:00:00		7.91	0.00	0.00	5.77	2.1	329.7		2.61	0.00	0.00	1.90		10.35	18.92	83.84	86.68	16-Oct-18 06:00:00		12.96	18.92	83.84	88.58
16-Oct-18 07:00:00	16-Oct-18 08:00:00		8.60	0.00	0.00	5.80	2.1	329.7		2.83	0.00	0.00	1.91		10.35	18.92	83.84	86.68	16-Oct-18 07:00:00		13.18	18.92	83.84	88.59
16-Oct-18 08:00:00	16-Oct-18 09:00:00		8.53	0.00	0.00	5.65	2.1	329.7		2.81	0.00	0.00	1.86		10.35	18.92	83.84	86.68	16-Oct-18 08:00:00		13.16	18.92	83.84	88.54
16-Oct-18 09:00:00	16-Oct-18 10:00:00		7.68	0.00	0.00	5.47	2.1	329.7		2.53	0.00	0.00	1.80		10.35	18.92	83.84	86.68	16-Oct-18 09:00:00		12.88	18.92	83.84	88.48
16-Oct-18 10:00:00	16-Oct-18 11:00:00		7.22	0.00	0.00	5.29	2.1	329.7		2.38	0.00	0.00	1.74		10.35	18.92	83.84	86.68	16-Oct-18 10:00:00		12.73	18.92	83.84	88.42
16-Oct-18 11:00:00	16-Oct-18 12:00:00		17.90	0.00	0.00	5.20	2.1	329.7		5.90	0.00	0.00	1.71		10.35	18.92	83.84	86.68	16-Oct-18 11:00:00		16.25	18.92	83.84	88.39
16-Oct-18 12:00:00	16-Oct-18 13:00:00		40.67	0.00	0.00	5.12	2.1	329.7		13.41	0.00	0.00	1.69		10.35	18.92	83.84	86.68	16-Oct-18 12:00:00		23.76	18.92	83.84	88.37
16-Oct-18 13:00:00	16-Oct-18 14:00:00		39.32	0.00	0.00	5.03	2.1	329.7		12.97	0.00	0.00	1.66		10.35	18.92	83.84	86.68	16-Oct-18 13:00:00		23.32	18.92	83.84	88.34
16-Oct-18 14:00:00	16-Oct-18 15:00:00		64.47	0.00	0.00	4.93	2.1	329.7		21.25	0.00	0.00	1.63		10.35	18.92	83.84	86.68	16-Oct-18 14:00:00		31.60	18.92	83.84	88.31
16-Oct-18 15:00:00	16-Oct-18 16:00:00		76.07	0.00	0.00	4.91	2.1	329.7		25.08	0.00	0.00	1.62		10.35	18.92	83.84	86.68	16-Oct-18 15:00:00		35.43	18.92	83.84	88.30
16-Oct-18 16:00:00	16-Oct-18 17:00:00		48.04	0.00	0.00	4.89	2.1	329.7		15.84	0.00	0.00	1.61		10.35	18.92	83.84	86.68	16-Oct-18 16:00:00		26.19	18.92	83.84	88.29
16-Oct-18 17:00:00	16-Oct-18 18:00:00		49.62	0.00	0.00	4.86	2.1	329.7		16.36	0.00	0.00	1.60		10.35	18.92	83.84	86.68	16-Oct-18 17:00:00		26.71	18.92	83.84	88.28
16-Oct-18 18:00:00	16-Oct-18 19:00:00		51.29	0.00	0.00	4.83	2.1	329.7		16.91	0.00	0.00	1.59		10.35	18.92	83.84	86.68	16-Oct-18 18:00:00		27.26	18.92	83.84	88.27
16-Oct-18 19:00:00	16-Oct-18 20:00:00		51.84	0.00	0.00	4.80	2.1	329.7		17.09	0.00	0.00	1.58		10.35	18.92	83.84	86.68	16-Oct-18 19:00:00		27.44	18.92	83.84	88.26
16-Oct-18 20:00:00	16-Oct-18 21:00:00		52.50	0.00	0.00	4.91	2.1	329.7		17.31	0.00	0.00	1.62		10.35	18.92	83.84	86.68	16-Oct-18 20:00:00		27.66	18.92	83.84	88.30
16-Oct-18 21:00:00	16-Oct-18 22:00:00		54.34	0.00	0.00	5.05	2.1	329.7		17.92	0.00	0.00	1.66		10.35	18.92	83.84	86.68	16-Oct-18 21:00:00		28.27	18.92	83.84	88.34
16-Oct-18 22:00:00	16-Oct-18 23:00:00		53.92	0.00	0.00	5.18	2.1	329.7		17.78	0.00	0.00	1.71		10.35	18.92	83.84	86.68	16-Oct-18 22:00:00		28.13	18.92	83.84	88.39
16-Oct-18 23:00:00	17-Oct-18 00:00:00		41.90	0.00	0.00	5.48	2.1	329.7		13.81	0.00	0.00	1.81		10.35	18.92	83.84	86.68	16-Oct-18 23:00:00		24.16	18.92	83.84	88.49
17-Oct-18 00:00:00	17-Oct-18 01:00:00		31.05	0.00	0.00	5.60	2.1	329.7		10.24	0.00	0.00	1.85		10.35	18.92	83.84	86.68	17-Oct-18 00:00:00		20.59	18.92	83.84	88.53
17-Oct-18 01:00:00	17-Oct-18 02:00:00		40.78	0.00	0.00	5.67	2.1	329.7		13.44	0.00	0.00	1.87		10.35	18.92	83.84	86.68	17-Oct-18 01:00:00		23.79	18.92	83.84	88.55
17-Oct-18 02:00:00	17-Oct-18 03:00:00		20.71	0.00	0.00	5.73	2.1	329.7		6.83	0.00	0.00	1.89		10.35	18.92	83.84	86.68	17-Oct-18 02:00:00		17.18	18.92	83.84	88.57
17-Oct-18 03:00:00	17-Oct-18 04:00:00		31.07	0.00	0.00	5.82	2.1	329.7		10.24	0.00	0.00	1.92		10.35	18.92	83.84	86.68	17-Oct-18 03:00:00		20.59	18.92	83.84	88.60
17-Oct-18 04:00:00	17-Oct-18 05:00:00		40.88	0.00	0.00	5.87	2.1	329.7		13.48	0.00	0.00	1.93		10.35	18.92	83.84	86.68	17-Oct-18 04:00:00		23.83	18.92	83.84	88.61
17-Oct-18 05:00:00	17-Oct-18 06:00:00		44.10	0.00	0.00	5.90	2.1	329.7		14.54	0.00	0.00	1.95		10.35	18.92	83.84	86.68	17-Oct-18 05:00:00		24.89	18.92	83.84	88.63
17-Oct-18 06:00:00	17-Oct-18 07:00:00		19.46	0.00	0.00	5.93	2.1	329.7		6.42	0.00	0.00	1.96		10.35	18.92	83.84	86.68	17-Oct-18 06:00:00		16.77	18.92	83.84	88.64
17-Oct-18 07:00:00	17-Oct-18 08:00:00		19.27	0.00	0.00	5.93	2.1	329.7		6.35	0.00	0.00	1.96		10.35	18.92	83.84	86.68	17-Oct-18 07:00:00		16.70	18.92	83.84	88.64
17-Oct-18 08:00:00	17-Oct-18 09:00:00		18.87	0.00	0.00	5.89	2.1	329.7		6.22	0.00	0.00	1.94		10.35	18.92	83.84	86.68	17-Oct-18 08:00:00		16.57	18.92	83.84	88.62
17-Oct-18 09:00:00	17-Oct-18 10:00:00		26.97	0.00	0.00	5.85	2.1	329.7		8.89	0.00	0.00	1.93		10.35	18.92	83.84	86.68	17-Oct-18 09:00:00		19.24	18.92	83.84	88.61
17-Oct-18 10:00:00	17-Oct-18 11:00:00		23.52	0.00	0.00	5.81	2.1	329.7		7.75	0.00	0.00	1.91		10.35	18.92	83.84	86.68	17-Oct-18 10:00:00		18.10	18.92	83.84	88.59
17-Oct-18 11:00:00	17-Oct-18 12:00:00		20.30	0.00	0.00	5.78	2.1	329.7		6.69	0.00	0.00	1.91		10.35	18.92	83.84	86.68	17-Oct-18 11:00:00		17.04	18.92	83.84	88.59
17-Oct-18 12:00:00	17-Oct-18 13:00:00		20.00	0.00	0.00	5.62	2.1	329.7		6.59	0.00	0.00	1.85		10.35	18.92	83.84	86.68	17-Oct-18 12:00:00		16.94	18.92	83.84	88.53
17-Oct-18 13:00:00	17-Oct-18 14:00:00		18.33	0.00	0.00	5.43	2.1	329.7		6.04	0.00	0.00	1.79		10.35	18.92	83.84	86.68	17-Oct-18 13:00:00		16.39	18.92	83.84	88.47
17-Oct-18 14:00:00	17-Oct-18 15:00:00		16.28	0.00	0.00	5.24	2.1	329.7		5.37	0.00	0.00	1.73		10.35	18.92	83.84	86.68	17-Oct-18 14:00:00		15.72	18.92	83.84	88.41
17-Oct-18 15:00:00	17-Oct-18 16:00:00		15.80	0.00	0.00	5.15	2.1	329.7		5.21	0.00	0.00	1.70		10.35	18.92	83.84	86.68	17-Oct-18 15:00:00		15.56	18.92	83.84	88.38
17-Oct-18 16:00:00	17-Oct-18 17:00:00		14.36	0.00	0.00	5.30	2.1	329.7		4.73	0.00	0.00	1.75		10.35	18.92	83.84	86.68	17-Oct-18 16:00:00		15.08	18.92	83.84	88.43
17-Oct-18 17:00:00	17-Oct-18 18:00:00		14.66	0.00	0.00	5.47	2.1	329.7		4.83	0.00	0.00	1.80		10.35	18.92	83.84	86.68	17-Oct-18 17:00:00		15.18	18.92	83.84	88.48
17-Oct-18 18:00:00	17-Oct-18 19:00:00		14.99	0.00	0.00	5.64	2.1	329.7		4.94	0.00	0.00	1.86		10.35	18.92	83.84	86.68	17-Oct-18 18:00:00		15.29	18.92	83.84	88.54
17-Oct-18 19:00:00	17-Oct-18 20:00:00		16.91	0.00	0.00	5.77	2.1	329.7		5.58	0.00	0.00	1.90		10.35	18.92	83.84	86.68	17-Oct-18 19:00:00		15.93	18.92	83.84	88.58
17-Oct-18 20:00:00	17-Oct-18 21:00:00		19.87	0.00	0.00	5.78	2.1	329.7		6.55	0.00	0.00	1.90		10.35	18.92	83.84	86.68	17-Oct-18 20:00:00		16.90	18.92	83.84	88.58
17-Oct-18 21:00:00	17-Oct-18 22:00:00		5.35	0.00	0.00	5.78	2.1	329.7		1.76	0.00	0.00	1.90		10.35	18.92	83.84	86.68	17-Oct-18 21:00:00		12.11	18.92	83.84	88.58
17-Oct-18 22:00:00	17-Oct-18 23:00:00		4.73	0.00	0.00	5.78

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
20-Oct-18 00:00:00	20-Oct-18 01:00:00		15.46	0.00	0.00	5.90	2.1	329.7		5.10	0.00	0.00	1.95		10.35	18.92	83.84	86.68	20-Oct-18 00:00:00		**15.45**	**18.92**	**83.84**	**88.63**
20-Oct-18 01:00:00	20-Oct-18 02:00:00		15.83	0.00	0.00	5.94	2.1	329.7		5.22	0.00	0.00	1.96		10.35	18.92	83.84	86.68	20-Oct-18 01:00:00		**15.57**	**18.92**	**83.84**	**88.64**
20-Oct-18 02:00:00	20-Oct-18 03:00:00		15.89	0.00	0.00	5.98	2.1	329.7		5.24	0.00	0.00	1.97		10.35	18.92	83.84	86.68	20-Oct-18 02:00:00		**15.59**	**18.92**	**83.84**	**88.65**
20-Oct-18 03:00:00	20-Oct-18 04:00:00		17.21	0.00	0.00	5.97	2.1	329.7		5.68	0.00	0.00	1.97		10.35	18.92	83.84	86.68	20-Oct-18 03:00:00		**16.03**	**18.92**	**83.84**	**88.65**
20-Oct-18 04:00:00	20-Oct-18 05:00:00		17.82	0.00	0.00	6.00	2.1	329.7		5.88	0.00	0.00	1.98		10.35	18.92	83.84	86.68	20-Oct-18 04:00:00		**16.23**	**18.92**	**83.84**	**88.66**
20-Oct-18 05:00:00	20-Oct-18 06:00:00		18.09	0.00	0.00	6.06	2.1	329.7		5.96	0.00	0.00	2.00		10.35	18.92	83.84	86.68	20-Oct-18 05:00:00		**16.31**	**18.92**	**83.84**	**88.68**
20-Oct-18 06:00:00	20-Oct-18 07:00:00		18.44	0.00	0.00	6.12	2.1	329.7		6.08	0.00	0.00	2.02		10.35	18.92	83.84	86.68	20-Oct-18 06:00:00		**16.43**	**18.92**	**83.84**	**88.70**
20-Oct-18 07:00:00	20-Oct-18 08:00:00		18.60	0.00	0.00	6.29	2.1	329.7		6.13	0.00	0.00	2.07		10.35	18.92	83.84	86.68	20-Oct-18 07:00:00		**16.48**	**18.92**	**83.84**	**88.75**
20-Oct-18 08:00:00	20-Oct-18 09:00:00		16.83	0.00	0.00	6.30	2.1	329.7		5.55	0.00	0.00	2.08		10.35	18.92	83.84	86.68	20-Oct-18 08:00:00		**15.90**	**18.92**	**83.84**	**88.76**
20-Oct-18 09:00:00	20-Oct-18 10:00:00		16.88	0.00	0.00	6.21	2.1	329.7		5.57	0.00	0.00	2.05		10.35	18.92	83.84	86.68	20-Oct-18 09:00:00		**15.92**	**18.92**	**83.84**	**88.73**
20-Oct-18 10:00:00	20-Oct-18 11:00:00		20.73	0.00	0.00	6.11	2.1	329.7		6.84	0.00	0.00	2.02		10.35	18.92	83.84	86.68	20-Oct-18 10:00:00		**17.19**	**18.92**	**83.84**	**88.70**
20-Oct-18 11:00:00	20-Oct-18 12:00:00		20.47	0.00	0.00	6.03	2.1	329.7		6.75	0.00	0.00	1.99		10.35	18.92	83.84	86.68	20-Oct-18 11:00:00		**17.10**	**18.92**	**83.84**	**88.67**
20-Oct-18 12:00:00	20-Oct-18 13:00:00		30.05	0.00	0.00	5.97	2.1	329.7		9.91	0.00	0.00	1.97		10.35	18.92	83.84	86.68	20-Oct-18 12:00:00		**20.26**	**18.92**	**83.84**	**88.65**
20-Oct-18 13:00:00	20-Oct-18 14:00:00		30.36	0.00	0.00	5.92	2.1	329.7		10.01	0.00	0.00	1.95		10.35	18.92	83.84	86.68	20-Oct-18 13:00:00		**20.36**	**18.92**	**83.84**	**88.63**
20-Oct-18 14:00:00	20-Oct-18 15:00:00		31.63	0.00	0.00	5.86	2.1	329.7		10.43	0.00	0.00	1.93		10.35	18.92	83.84	86.68	20-Oct-18 14:00:00		**20.78**	**18.92**	**83.84**	**88.61**
20-Oct-18 15:00:00	20-Oct-18 16:00:00		31.10	0.00	0.00	5.81	2.1	329.7		10.25	0.00	0.00	1.92		10.35	18.92	83.84	86.68	20-Oct-18 15:00:00		**20.60**	**18.92**	**83.84**	**88.60**
20-Oct-18 16:00:00	20-Oct-18 17:00:00		31.19	0.00	0.00	5.70	2.1	329.7		10.28	0.00	0.00	1.88		10.35	18.92	83.84	86.68	20-Oct-18 16:00:00		**20.63**	**18.92**	**83.84**	**88.56**
20-Oct-18 17:00:00	20-Oct-18 18:00:00		33.29	0.00	0.00	5.57	2.1	329.7		10.98	0.00	0.00	1.84		10.35	18.92	83.84	86.68	20-Oct-18 17:00:00		**21.33**	**18.92**	**83.84**	**88.52**
20-Oct-18 18:00:00	20-Oct-18 19:00:00		34.51	0.00	0.00	5.44	2.1	329.7		11.38	0.00	0.00	1.79		10.35	18.92	83.84	86.68	20-Oct-18 18:00:00		**21.73**	**18.92**	**83.84**	**88.47**
20-Oct-18 19:00:00	20-Oct-18 20:00:00		33.28	0.00	0.00	5.45	2.1	329.7		10.97	0.00	0.00	1.80		10.35	18.92	83.84	86.68	20-Oct-18 19:00:00		**21.32**	**18.92**	**83.84**	**88.48**
20-Oct-18 20:00:00	20-Oct-18 21:00:00		39.26	0.00	0.00	5.68	2.1	329.7		12.94	0.00	0.00	1.87		10.35	18.92	83.84	86.68	20-Oct-18 20:00:00		**23.29**	**18.92**	**83.84**	**88.55**
20-Oct-18 21:00:00	20-Oct-18 22:00:00		36.67	0.00	0.00	5.87	2.1	329.7		12.09	0.00	0.00	1.93		10.35	18.92	83.84	86.68	20-Oct-18 21:00:00		**22.44**	**18.92**	**83.84**	**88.61**
20-Oct-18 22:00:00	20-Oct-18 23:00:00		35.58	0.00	0.00	6.06	2.1	329.7		11.73	0.00	0.00	2.00		10.35	18.92	83.84	86.68	20-Oct-18 22:00:00		**22.08**	**18.92**	**83.84**	**88.68**
20-Oct-18 23:00:00	21-Oct-18 00:00:00		36.75	0.00	0.00	6.22	2.1	329.7		12.11	0.00	0.00	2.05		10.35	18.92	83.84	86.68	20-Oct-18 23:00:00		**22.46**	**18.92**	**83.84**	**88.73**
21-Oct-18 00:00:00	21-Oct-18 01:00:00		36.36	0.00	0.00	6.28	2.1	329.7		11.99	0.00	0.00	2.07		10.35	18.92	83.84	86.68	21-Oct-18 00:00:00		**22.34**	**18.92**	**83.84**	**88.75**
21-Oct-18 01:00:00	21-Oct-18 02:00:00		25.19	0.00	0.00	6.33	2.1	329.7		8.31	0.00	0.00	2.09		10.35	18.92	83.84	86.68	21-Oct-18 01:00:00		**18.66**	**18.92**	**83.84**	**88.77**
21-Oct-18 02:00:00	21-Oct-18 03:00:00		23.32	0.00	0.00	6.38	2.1	329.7		7.69	0.00	0.00	2.10		10.35	18.92	83.84	86.68	21-Oct-18 02:00:00		**18.04**	**18.92**	**83.84**	**88.78**
21-Oct-18 03:00:00	21-Oct-18 04:00:00		23.42	0.00	0.00	6.38	2.1	329.7		7.72	0.00	0.00	2.10		10.35	18.92	83.84	86.68	21-Oct-18 03:00:00		**18.07**	**18.92**	**83.84**	**88.78**
21-Oct-18 04:00:00	21-Oct-18 05:00:00		67.10	0.00	0.00	6.34	2.1	329.7		22.12	0.00	0.00	2.09		10.35	18.92	83.84	86.68	21-Oct-18 04:00:00		**32.47**	**18.92**	**83.84**	**88.77**
21-Oct-18 05:00:00	21-Oct-18 06:00:00		79.05	0.00	0.00	6.35	2.1	329.7		26.06	0.00	0.00	2.09		10.35	18.92	83.84	86.68	21-Oct-18 05:00:00		**36.41**	**18.92**	**83.84**	**88.77**
21-Oct-18 06:00:00	21-Oct-18 07:00:00		69.83	0.00	0.00	6.35	2.1	329.7		23.02	0.00	0.00	2.09		10.35	18.92	83.84	86.68	21-Oct-18 06:00:00		**33.37**	**18.92**	**83.84**	**88.77**
21-Oct-18 07:00:00	21-Oct-18 08:00:00		26.40	0.00	0.00	6.34	2.1	329.7		8.70	0.00	0.00	2.09		10.35	18.92	83.84	86.68	21-Oct-18 07:00:00		**19.05**	**18.92**	**83.84**	**88.77**
21-Oct-18 08:00:00	21-Oct-18 09:00:00		18.27	0.00	0.00	6.32	2.1	329.7		6.02	0.00	0.00	2.08		10.35	18.92	83.84	86.68	21-Oct-18 08:00:00		**16.37**	**18.92**	**83.84**	**88.76**
21-Oct-18 09:00:00	21-Oct-18 10:00:00		16.98	0.00	0.00	6.29	2.1	329.7		5.60	0.00	0.00	2.07		10.35	18.92	83.84	86.68	21-Oct-18 09:00:00		**15.95**	**18.92**	**83.84**	**88.75**
21-Oct-18 10:00:00	21-Oct-18 11:00:00		14.74	0.00	0.00	6.27	2.1	329.7		4.86	0.00	0.00	2.07		10.35	18.92	83.84	86.68	21-Oct-18 10:00:00		**15.21**	**18.92**	**83.84**	**88.75**
21-Oct-18 11:00:00	21-Oct-18 12:00:00		16.94	0.00	0.00	6.26	2.1	329.7		5.58	0.00	0.00	2.06		10.35	18.92	83.84	86.68	21-Oct-18 11:00:00		**15.93**	**18.92**	**83.84**	**88.74**
21-Oct-18 12:00:00	21-Oct-18 13:00:00		15.45	0.00	0.00	6.21	2.1	329.7		5.09	0.00	0.00	2.05		10.35	18.92	83.84	86.68	21-Oct-18 12:00:00		**15.44**	**18.92**	**83.84**	**88.73**
21-Oct-18 13:00:00	21-Oct-18 14:00:00		15.66	0.00	0.00	6.12	2.1	329.7		5.16	0.00	0.00	2.02		10.35	18.92	83.84	86.68	21-Oct-18 13:00:00		**15.51**	**18.92**	**83.84**	**88.70**
21-Oct-18 14:00:00	21-Oct-18 15:00:00		17.26	0.00	0.00	6.04	2.1	329.7		5.69	0.00	0.00	1.99		10.35	18.92	83.84	86.68	21-Oct-18 14:00:00		**16.04**	**18.92**	**83.84**	**88.67**
21-Oct-18 15:00:00	21-Oct-18 16:00:00		17.65	0.00	0.00	5.88	2.1	329.7		5.82	0.00	0.00	1.94		10.35	18.92	83.84	86.68	21-Oct-18 15:00:00		**16.17**	**18.92**	**83.84**	**88.62**
21-Oct-18 16:00:00	21-Oct-18 17:00:00		13.82	0.00	0.00	5.79	2.1	329.7		4.56	0.00	0.00	1.91		10.35	18.92	83.84	86.68	21-Oct-18 16:00:00		**14.91**	**18.92**	**83.84**	**88.59**
21-Oct-18 17:00:00	21-Oct-18 18:00:00		14.59	0.00	0.00	5.79	2.1	329.7		4.81	0.00	0.00	1.91		10.35	18.92	83.84	86.68	21-Oct-18 17:00:00		**15.16**	**18.92**	**83.84**	**88.59**
21-Oct-18 18:00:00	21-Oct-18 19:00:00		14.20	0.00	0.00	5.80	2.1	329.7		4.68	0.00	0.00	1.91		10.35	18.92	83.84	86.68	21-Oct-18 18:00:00		**15.03**	**18.92**	**83.84**	**88.59**
21-Oct-18 19:00:00	21-Oct-18 20:00:00		12.55	0.00	0.00	5.91	2.1	329.7		4.14	0.00	0.00	1.95		10.35	18.92	83.84	86.68	21-Oct-18 19:00:00		**14.49**	**18.92**	**83.84**	**88.63**
21-Oct-18 20:00:00	21-Oct-18 21:00:00		47.32	0.00	0.00	6.21	2.1	329.7		15.60	0.00	0.00	2.05		10.35	18.92	83.84	86.68	21-Oct-18 20:00:00		**25.95**	**18.92**	**83.84**	**88.73**
21-Oct-18 21:00:00	21-Oct-18 22:00:00		56.54	0.00	0.00	6.46	2.1	329.7		18.64	0.00	0.00	2.13		10.35	18.92	83.84	86.68	21-Oct-18 21:00:00		**28.99**	**18.92**	**83.84**	**88.81**
21-Oct-18 22:00:00	21-Oct-18 23:00:00		61.06	0.00	0.00	6.71	2.1	329.7		20.13	0.00	0.00	2.21		10.35	18.92	83.84	86.68	21-Oct-18 22:00:00		**30.48**	**18.92**	**83.84**	**88.89**
21-Oct-18 23:00:00	22-Oct-18 00:00:00		86.18	0.00	0.00	6.96	2.1	329.7		28.41	0.00	0.00	2.30		10.35	18.92	83.84	86.68	21-Oct-18 23:00:00		**38.76**	**18.92**	**83.84**	**88.98**
22-Oct-18 00:00:00	22-Oct-18 01:00:00		40.63	0.00	0.00	7.20	2.1	329.7		13.40	0.00	0.00	2.37		10.35	18.92	83.84	86.68	22-Oct-18 00:00:00		**23.75**	**18.92**	**83.84**	**89.05**
22-Oct-18 01:00:00	22-Oct-18 02:00:00		28.99	0.00	0.00	7.19	2.1	329.7		9.56	0.00	0.00	2.37		10.35	18.92	83.84	86.68	22-Oct-18 01:00:00		**19.91**	**18.92**	**83.84**	**89.05**
22-Oct-18 02:00:00	22-Oct-18 03:00:00		24.68	0.00	0.00	7.33	2.1	329.7		8.14	0.00	0.00	2.42		10.35	18.92	83.84	86.68	22-Oct-18 02:00:00		**18.49**	**18.92**	**83.84**	**89.10**
22-Oct-18 03:00:00	22-Oct-18 04:00:00		22.88	0.00	0.00	7.36	2.1	329.7		7.54	0.00	0.00	2.43		10.35	18.92	83.84	86.68	22-Oct-18 03:00:00		**17.89**	**18.92**	**83.84**	**89.11**
22-Oct-18 04:00:00	22-Oct-18 05:00:00		21.73	0.00	0.00	7.39	2.1	329.7		7.16	0.00	0.00	2.44		10.35	18.92	83.84	86.68	22-Oct-18 04:00:00		**17.51**	**18.92**	**83.84**	**89.12**
22-Oct-18 05:00:00	22-Oct-18 06:00:00		21.11	0.00	0.00	7.30	2.1	329.7		6.96	0.00	0.00	2.41		10.35	18.92	83.84	86.68	22-Oct-18 05:00:00		**17.31**	**18.92**	**83.84**	**89.09**
22-Oct-18 06:00:00	22-Oct-18 07:00:00		3.45	0.00	0.00	7.26	2.1	329.7		1.14	0.00	0.00	2.39		10.35	18.92	83.84	86.68	22-Oct-18 06:00:00		**11.49**	**18.92**	**83.84**	**89.07**
22-Oct-18 07:00:00	22-Oct-18 08:00:00		25.12	0.00	0.00	7.24	2.1	329.7		8.28	0.00	0.00	2.39		10.35	18.92	83.84	86.68	22-Oct-18 07:00:00		**18.63**	**18.92**	**83.84**	**89.07**
22-Oct-18 08:00:00	22-Oct-18 09:00:00		33.39	0.00	0.00	7.21	2.1	329.7		11.01	0.00	0.00	2.38		10.35	18.92	83.84	86.68	22-Oct-18 08:00:00		**21.36**	**18.92**	**83.84**	**89.06**
22-Oct-18 09:00:00	22-Oct-18 10:00:00		32.89	0.00	0.00	7.06	2.1	329.7		10.84	0.00	0.00	2.33		10.35	18.92	83.84	86.68	22-Oct-18 09:00:00		**21.19**	**18.92**	**83.84**	**89.01**
22-Oct-18 10:00:00	22-Oct-18 11:00:00		25.75	0.00	0.00	6.75	2.1	329.7		8.49	0.00	0.00	2.22		10.35	18.92	83.84	86.68	22-Oct-18 10:00:00		**18.84**	**18.92**	**83.84**	**88.90**
22-Oct-18 11:00:00	22-Oct-18 12:00:00		4.30	0.00	0.00	6.43	2.1	329.7		1.42	0.00	0.00	2.12		10.35	18.92	83.84	86.68	22-Oct-18 11:00:00		**11.77**	**18.92**	**83.84**	**88.80**
22-Oct-18 12:00:00	22-Oct-18 13:00:00		4.84	0.00	0.00	6.11	2.1	329.7		1.60	0.00	0.00	2.02		10.35	18.92	83.84	86.68	22-Oct-18 12:00:00		**11.95**	**18.92**	**83.84**	**88.70**
22-Oct-18 13:00:00	22-Oct-18 14:00:00		42.89	0.00	0.00	5.74	2.1	329.7		14.14	0.00	0.00	1.89		10.35	18.92	83.84	86.68	22-Oct-18 13:00:00		**24.49**	**18.92**	**83.84**	**88.57**
22-Oct-18 14:00:00	22-Oct-18 15:00:00		42.12	0.00	0.00	5.59	2.1	329.7		13.89	0.00	0.00	1.84		10.35	18.92	83.84	86.68	22-Oct-18 14:00:00		**24.24**	**18.92**	**83.84**	**88.52**
22-Oct-18 15:00:00	22-Oct-18 16:00:00		63.66	0.00	0.00	5.45	2.1	329.7		20.99	0.00	0.00	1.80		10.35	18.92	83.84	86.68	22-Oct-18 15:00:00		**31.34**	**18.92**	**83.84**	**88.48**
22-Oct-18 16:00:00	22-Oct-18 17:00:00		50.94	0.00	0.00	5.32	2.1	329.7		16.79	0.00	0.00	1.75		10.35	18.92	83.84	86.68	22-Oct-18 16:00:00		**27.14**	**18.92**	**83.84**	**88.43**
22-Oct-18 17:00:00	22-Oct-18 18:00:00		33.87	0.00	0.00	5.32	2.1	329.7		11.17	0.00	0.00	1.75		10.35	18.92	83.84	86.68	22-Oct-18 17:00:00		**21.52**	**18.92**	**83.84**	**88.43**
22-Oct-18 18:00:00	22-Oct-18 19:00:00		6.46	0.00	0.00	5.50	2.1	329.7		2.13	0.00	0.00	1.81		10.35	18.92	83.84	86.68	22-Oct-18 18:00:00		**12.48**	**18.92**	**83.84**	**88.49**
22-Oct-18 19:00:00	22-Oct-18 20:00:00		6.23	0.00	0.00	5.69	2.1	329.7		2.06	0.00	0.00	1.87		10.35	18.92	83.84	86.68	22-Oct-18 19:00:00		**12.41**	**18.92**	**83.84**	**88.55**
22-Oct-18 20:00:00	22-Oct-18 21:00:00		22.64	0.00	0.00	5.87	2.1	329.7		7.46	0.00	0.00	1.94		10.35	18.92	83.84	86.68	22-Oct-18 20:00:00		**17.81**	**18.92**	**83.84**	**88.62**
22-Oct-18 21:00:00	22-Oct-18 22:00:00		6.45	0.00	0.00	6.03	2.1	329.7		2.13	0.00	0.00	1.99		10.35	18.92	83.84	86.68	22-Oct-18 21:00:00		**12.48**	**18.92**	**83.84**	**88.67**
22-Oct-18 22:00:00	22-Oct-18 23:00:00		9.28	0.00	0.00	6.17	2.1	329.7		3.06	0.00	0.00	2.04		10.35	18.92	83.84	86.68	22-Oct-18 22:00:00		**13.41**	**18.92**	**83.84**	**88.72**
22-Oct-18 23:00:00	23-Oct-18 00:00:00		23.46	0.00	0.00	6.32	2.1	329.7		7.73	0.00	0.00	2.08		10.35	18.92	83.84	86.68	22-Oct-18 23:00:00		**18.08**	**18.92**	**83.84**	**88.76**
23-Oct-18 00:00:00	23-Oct-18 01:00:00		9.71	0.00	0.00	6.46	2.1	329.7		3.20	0.00	0.00	2.13		10.35	18.92	83.84	86.68	23-Oct-18 00:00:00		**13.55**	**18.92**	**83.84**	**88.81**
23-Oct-18 01:00:00	23-Oct-18 02:00:00		13.06	0.00	0.00	6.83	2.1	329.7		4.30	0.00	0.00	2.25		10.35	18.92	83.84	86.68	23-Oct-18 01:00:00		**14.65**	**18.92**	**83.84**	**88.93**
23-Oct-18 02:00:00	23-Oct-18 03:00:00		40.47	0.00	0.00	6.89	2.1	329.7		13.34	0.00	0.00	2.27		10.35	18.92	83.84	86.68	23-Oct-18 02:00:00		**23.69**	**18.92**	**83.84**	**88.95**
23-Oct-18 03:00:00	23-Oct-18 04:00:00		7.72	0.00	0.00	6.90	2.1	329.7		2.55	0.00	0.00	2.27		10.35	18.92	83.84	86.68	23-Oct-18 03:00:00		**12.90**	**18.92**	**83.84**	**88.95**
23-Oct-18 04:00:00	23-Oct-18 05:00:00		9.41	0.00	0.00	6.90	2.1	329.7		3.10	0.00	0.00	2.28		10.35	18.92	83.84	86.68	23-Oct-18 04:00:00		**13.45**	**18.92**	**83.84**	**88.96**
23-Oct-18 05:00:00	23-Oct-18 06:00:00		7.95	0.00	0.00	6.93	2.1	329.7		2.62	0.00	0.00	2.28		10.35	18.92	83.84	86.68	23-Oct-18 05:00:00		**12.97**	**18.92**	**83.84**	**88.96**
23-Oct-18 06:00:00	23-Oct-18 07:00:00		7.19	0.00	0.00	6.97	2.1	329.7		2.37	0.00	0.00	2.30		10.35	18.92	83.84	86.68	23-Oct-18 06:00:00		**12.72**	**18.92**	**83.84**	**88.98**
23-Oct-18 07:00:00	23-Oct-18 08:00:00		6.84	0.00	0.00	7.01	2.1	329.7		2.26	0.00	0.00	2.31		10.35	18.92	83.84	86.68	23-Oct-18 07:00:00		**12.61**	**18.92**	**83.84**	**88.99**
23-Oct-18 08:00:00	23-Oct-18 09:00:00		7.06	0.00	0.00	7.05	2.1	329.7		2.33	0.00	0.00	2.33		10.35	18.92	83.84	86.68	23-Oct-18 08:00:00		**12.68**	**18.92**	**83.84**	**89.01**
23-Oct-18 09:00:00	23-Oct-18 10:00:00		6.94	0.00	0.00	6.79	2.1	329.7		2.29	0.00	0.00	2.24		10.35	18.92	83.84	86.68	23-Oct-18 09:00:00		**12.64**	**18.92**	**83.84**	**88.92**
23-Oct-18 10:00:00	23-Oct-18 11:00:00		5.93	0.00	0.00	6.50	2.1	329.7		1.95	0.00	0.00	2.14		10.35	18.92	83.84	86.68	23-Oct-18 10:00:00		**12.30**	**18.92**	**83.84**	**88.82**
23-Oct-18 11:00:00	23-Oct-18 12:00:00		5.60	0.00	0.00	6.24	2.1	329.7		1.85	0.00	0.00	2.06		10.35	18.92	83.84	86.68	23-Oct-18 11:00:00		**12.20**	**18.92**	**83.84**	**88.74**
23-Oct-18 12:00:00	23-Oct-18 13:00:00		9.60	0.00	0.00	5.98	2.1	329.7		3.17	0.00	0.00	1.97		10.35	18.92	83.84	86.68	23-Oct-18 12:00:00		**13.52**	**18.92**	**83.84**	**88.65**
23-Oct-18 13:00:00	23-Oct-18 14:00:00		23.10	0.00	0.00	5.84	2.1	329.7		7.62	0.00	0.00	1.92		10.35	18.92	83.84	86.68	23-Oct-18 13:00:00		**17.97**	**18.92**	**83.84**	**88.60**
23-Oct-18 14:00:00	23-Oct-18 15:00:00		15.68	0.00	0.00	5.74	2.1	329.7		5.17	0.00	0.00	1.89		10.35	18.92	83.84	86.68	23-Oct-18 14:00:00		**15.52**	**18.92**	**83.84**	**88.57**
23-Oct-18 15:00:00	23-Oct-18 16:00:00		41.45	0.00	0.00	5.63	2.1	329.7		13.67	0.00	0.00	1.86		10.35	18.92	83.84	86.68	23-Oct-18 15:00:00		**24.02**	**18.92**	**83.84**	**88.54**
23-Oct-18 16:00:00	23-Oct-18 17:00:00		26.28	0.00	0.00	5.52	2.1	329.7		8.66	0.00	0.00	1.82		10.35	18.92	83.84	86.68	23-Oct-18 16:00:00		**19.01**	**18.92**	**83.84**	**88.50**
23-Oct-18 17:00:00	23-Oct-18 18:00:00		13.72	0.00	0.00	5.34	2.1	329.7		4.52	0.00	0.00	1.76		10.35	18.92	83.84	86.68	23-Oct-18 17:00:00		**14.87**	**18.92**	**83.84**	**88.44**
23-Oct-18 18:00:00	23-Oct-18 19:00:00		12.72	0.00	0.00	5.42	2.1	329.7		4.19	0.00	0.00	1.79		10.35	18.92	83.84	86.68	23-Oct-18 18:00:00		**14.54**	**18.92**	**83.84**	**88.47**
23-Oct-18 19:00:00	23-Oct-18 20:00:00		7.04	0.00	0.00	5.55	2.1	329.7		2.32	0.00	0.00	1.83		10.35	18.92	83.84	86.68	23-Oct-18 19:00:00		**12.67**	**18.92**	**83.84**	**88.51**
23-Oct-18 20:00:00	23-Oct-18 21:00:00		4.03	0.00	0.00	5.68	2.1	329.7		1.33	0.00	0.00	1.87		10.35	18.92	83.84	86.68	23-Oct-18 20:00:00		**11.68**	**18.92**	**83.84**	**88.55**
23-Oct-18 21:00:00	23-Oct-18 22:00:00		9.68	0.00	0.00	5.89

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
25-Oct-18 23:00:00	26-Oct-18 00:00:00		14.45	0.00	0.00	6.35	2.1	329.7		4.76	0.00	0.00	2.09		10.35	18.92	83.84	86.68	25-Oct-18 23:00:00		15.11	18.92	83.84	88.77
26-Oct-18 00:00:00	26-Oct-18 01:00:00		14.06	0.00	0.00	6.36	2.1	329.7		4.63	0.00	0.00	2.10		10.35	18.92	83.84	86.68	26-Oct-18 00:00:00		14.98	18.92	83.84	88.78
26-Oct-18 01:00:00	26-Oct-18 02:00:00		13.04	0.00	0.00	6.44	2.1	329.7		4.30	0.00	0.00	2.12		10.35	18.92	83.84	86.68	26-Oct-18 01:00:00		14.65	18.92	83.84	88.80
26-Oct-18 02:00:00	26-Oct-18 03:00:00		13.26	0.00	0.00	6.60	2.1	329.7		4.37	0.00	0.00	2.18		10.35	18.92	83.84	86.68	26-Oct-18 02:00:00		14.72	18.92	83.84	88.86
26-Oct-18 03:00:00	26-Oct-18 04:00:00		13.83	0.00	0.00	6.75	2.1	329.7		4.56	0.00	0.00	2.23		10.35	18.92	83.84	86.68	26-Oct-18 03:00:00		14.91	18.92	83.84	88.91
26-Oct-18 04:00:00	26-Oct-18 05:00:00		11.97	0.00	0.00	6.90	2.1	329.7		3.94	0.00	0.00	2.28		10.35	18.92	83.84	86.68	26-Oct-18 04:00:00		14.29	18.92	83.84	88.96
26-Oct-18 05:00:00	26-Oct-18 06:00:00		3.27	0.00	0.00	6.96	2.1	329.7		1.08	0.00	0.00	2.30		10.35	18.92	83.84	86.68	26-Oct-18 05:00:00		11.43	18.92	83.84	88.98
26-Oct-18 06:00:00	26-Oct-18 07:00:00		2.22	0.00	0.00	7.03	2.1	329.7		0.73	0.00	0.00	2.32		10.35	18.92	83.84	86.68	26-Oct-18 06:00:00		11.08	18.92	83.84	89.00
26-Oct-18 07:00:00	26-Oct-18 08:00:00		3.25	0.00	0.00	7.13	2.1	329.7		1.07	0.00	0.00	2.35		10.35	18.92	83.84	86.68	26-Oct-18 07:00:00		11.42	18.92	83.84	89.03
26-Oct-18 08:00:00	26-Oct-18 09:00:00		4.27	0.00	0.00	7.24	2.1	329.7		1.41	0.00	0.00	2.39		10.35	18.92	83.84	86.68	26-Oct-18 08:00:00		11.76	18.92	83.84	89.07
26-Oct-18 09:00:00	26-Oct-18 10:00:00		7.95	0.00	0.00	7.37	2.1	329.7		2.62	0.00	0.00	2.43		10.35	18.92	83.84	86.68	26-Oct-18 09:00:00		12.97	18.92	83.84	89.11
26-Oct-18 10:00:00	26-Oct-18 11:00:00		8.49	0.00	0.00	7.41	2.1	329.7		2.80	0.00	0.00	2.44		10.35	18.92	83.84	86.68	26-Oct-18 10:00:00		13.15	18.92	83.84	89.12
26-Oct-18 11:00:00	26-Oct-18 12:00:00		7.10	0.00	0.00	7.42	2.1	329.7		2.34	0.00	0.00	2.45		10.35	18.92	83.84	86.68	26-Oct-18 11:00:00		12.69	18.92	83.84	89.13
26-Oct-18 12:00:00	26-Oct-18 13:00:00		7.66	0.00	0.00	7.44	2.1	329.7		2.53	0.00	0.00	2.45		10.35	18.92	83.84	86.68	26-Oct-18 12:00:00		12.88	18.92	83.84	89.13
26-Oct-18 13:00:00	26-Oct-18 14:00:00		8.63	0.00	0.00	7.31	2.1	329.7		2.84	0.00	0.00	2.41		10.35	18.92	83.84	86.68	26-Oct-18 13:00:00		13.19	18.92	83.84	89.09
26-Oct-18 14:00:00	26-Oct-18 15:00:00		17.54	0.00	0.00	7.08	2.1	329.7		5.78	0.00	0.00	2.34		10.35	18.92	83.84	86.68	26-Oct-18 14:00:00		16.13	18.92	83.84	89.02
26-Oct-18 15:00:00	26-Oct-18 16:00:00		20.14	0.00	0.00	6.90	2.1	329.7		6.64	0.00	0.00	2.28		10.35	18.92	83.84	86.68	26-Oct-18 15:00:00		16.99	18.92	83.84	88.96
26-Oct-18 16:00:00	26-Oct-18 17:00:00		20.91	0.00	0.00	6.73	2.1	329.7		6.90	0.00	0.00	2.22		10.35	18.92	83.84	86.68	26-Oct-18 16:00:00		17.25	18.92	83.84	88.90
26-Oct-18 17:00:00	26-Oct-18 18:00:00		22.73	0.00	0.00	6.47	2.1	329.7		7.49	0.00	0.00	2.13		10.35	18.92	83.84	86.68	26-Oct-18 17:00:00		17.84	18.92	83.84	88.81
26-Oct-18 18:00:00	26-Oct-18 19:00:00		19.63	0.00	0.00	6.37	2.1	329.7		6.47	0.00	0.00	2.10		10.35	18.92	83.84	86.68	26-Oct-18 18:00:00		16.82	18.92	83.84	88.78
26-Oct-18 19:00:00	26-Oct-18 20:00:00		15.74	0.00	0.00	6.34	2.1	329.7		5.19	0.00	0.00	2.09		10.35	18.92	83.84	86.68	26-Oct-18 19:00:00		15.54	18.92	83.84	88.77
26-Oct-18 20:00:00	26-Oct-18 21:00:00		12.26	0.00	0.00	6.31	2.1	329.7		4.04	0.00	0.00	2.08		10.35	18.92	83.84	86.68	26-Oct-18 20:00:00		14.39	18.92	83.84	88.76
26-Oct-18 21:00:00	26-Oct-18 22:00:00		12.04	0.00	0.00	6.26	2.1	329.7		3.97	0.00	0.00	2.06		10.35	18.92	83.84	86.68	26-Oct-18 21:00:00		14.32	18.92	83.84	88.74
26-Oct-18 22:00:00	26-Oct-18 23:00:00		11.85	0.00	0.00	6.26	2.1	329.7		3.91	0.00	0.00	2.07		10.35	18.92	83.84	86.68	26-Oct-18 22:00:00		14.26	18.92	83.84	88.75
26-Oct-18 23:00:00	27-Oct-18 00:00:00		11.66	0.00	0.00	6.29	2.1	329.7		3.85	0.00	0.00	2.07		10.35	18.92	83.84	86.68	26-Oct-18 23:00:00		14.20	18.92	83.84	88.75
27-Oct-18 00:00:00	27-Oct-18 01:00:00		11.10	0.00	0.00	6.32	2.1	329.7		3.66	0.00	0.00	2.08		10.35	18.92	83.84	86.68	27-Oct-18 00:00:00		14.01	18.92	83.84	88.76
27-Oct-18 01:00:00	27-Oct-18 02:00:00		11.55	0.00	0.00	6.30	2.1	329.7		3.81	0.00	0.00	2.08		10.35	18.92	83.84	86.68	27-Oct-18 01:00:00		14.16	18.92	83.84	88.76
27-Oct-18 02:00:00	27-Oct-18 03:00:00		7.95	0.00	0.00	6.37	2.1	329.7		2.62	0.00	0.00	2.10		10.35	18.92	83.84	86.68	27-Oct-18 02:00:00		12.97	18.92	83.84	88.78
27-Oct-18 03:00:00	27-Oct-18 04:00:00		5.23	0.00	0.00	6.47	2.1	329.7		1.72	0.00	0.00	2.13		10.35	18.92	83.84	86.68	27-Oct-18 03:00:00		12.07	18.92	83.84	88.81
27-Oct-18 04:00:00	27-Oct-18 05:00:00		4.51	0.00	0.00	6.58	2.1	329.7		1.49	0.00	0.00	2.17		10.35	18.92	83.84	86.68	27-Oct-18 04:00:00		11.84	18.92	83.84	88.85
27-Oct-18 05:00:00	27-Oct-18 06:00:00		5.40	0.00	0.00	6.67	2.1	329.7		1.78	0.00	0.00	2.20		10.35	18.92	83.84	86.68	27-Oct-18 05:00:00		12.13	18.92	83.84	88.88
27-Oct-18 06:00:00	27-Oct-18 07:00:00		3.08	0.00	0.00	6.61	2.1	329.7		1.02	0.00	0.00	2.18		10.35	18.92	83.84	86.68	27-Oct-18 06:00:00		11.37	18.92	83.84	88.86
27-Oct-18 07:00:00	27-Oct-18 08:00:00		6.49	0.00	0.00	6.53	2.1	329.7		2.14	0.00	0.00	2.15		10.35	18.92	83.84	86.68	27-Oct-18 07:00:00		12.49	18.92	83.84	88.83
27-Oct-18 08:00:00	27-Oct-18 09:00:00		5.53	0.00	0.00	6.44	2.1	329.7		1.82	0.00	0.00	2.12		10.35	18.92	83.84	86.68	27-Oct-18 08:00:00		12.17	18.92	83.84	88.80
27-Oct-18 09:00:00	27-Oct-18 10:00:00		2.34	0.00	0.00	6.35	2.1	329.7		0.77	0.00	0.00	2.09		10.35	18.92	83.84	86.68	27-Oct-18 09:00:00		11.12	18.92	83.84	88.77
27-Oct-18 10:00:00	27-Oct-18 11:00:00		1.63	0.00	0.00	6.25	2.1	329.7		0.54	0.00	0.00	2.06		10.35	18.92	83.84	86.68	27-Oct-18 10:00:00		10.89	18.92	83.84	88.74
27-Oct-18 11:00:00	27-Oct-18 12:00:00		3.03	0.00	0.00	6.14	2.1	329.7		1.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	27-Oct-18 11:00:00		11.35	18.92	83.84	88.71
27-Oct-18 12:00:00	27-Oct-18 13:00:00		5.14	0.00	0.00	6.04	2.1	329.7		1.69	0.00	0.00	1.99		10.35	18.92	83.84	86.68	27-Oct-18 12:00:00		12.04	18.92	83.84	88.67
27-Oct-18 13:00:00	27-Oct-18 14:00:00		0.00	0.00	0.00	5.88	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	27-Oct-18 13:00:00		10.35	18.92	83.84	88.62
27-Oct-18 14:00:00	27-Oct-18 15:00:00		0.00	0.00	0.00	5.73	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	27-Oct-18 14:00:00		10.35	18.92	83.84	88.57
27-Oct-18 15:00:00	27-Oct-18 16:00:00		0.00	0.00	0.00	5.61	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	27-Oct-18 15:00:00		10.35	18.92	83.84	88.53
27-Oct-18 16:00:00	27-Oct-18 17:00:00		0.00	0.00	0.00	5.48	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	27-Oct-18 16:00:00		10.35	18.92	83.84	88.49
27-Oct-18 17:00:00	27-Oct-18 18:00:00		0.00	0.00	0.00	5.35	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	27-Oct-18 17:00:00		10.35	18.92	83.84	88.44
27-Oct-18 18:00:00	27-Oct-18 19:00:00		0.00	0.00	0.00	5.49	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	27-Oct-18 18:00:00		10.35	18.92	83.84	88.49
27-Oct-18 19:00:00	27-Oct-18 20:00:00		0.00	0.00	0.00	5.69	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	27-Oct-18 19:00:00		10.35	18.92	83.84	88.56
27-Oct-18 20:00:00	27-Oct-18 21:00:00		0.00	0.00	0.00	5.90	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	27-Oct-18 20:00:00		10.35	18.92	83.84	88.63
27-Oct-18 21:00:00	27-Oct-18 22:00:00		0.00	0.00	0.00	6.11	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	27-Oct-18 21:00:00		10.35	18.92	83.84	88.69
27-Oct-18 22:00:00	27-Oct-18 23:00:00		0.00	0.00	0.00	6.24	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	27-Oct-18 22:00:00		10.35	18.92	83.84	88.74
27-Oct-18 23:00:00	28-Oct-18 00:00:00		0.00	0.00	0.00	6.37	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	27-Oct-18 23:00:00		10.35	18.92	83.84	88.78
28-Oct-18 00:00:00	28-Oct-18 01:00:00		0.00	0.00	0.00	6.49	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	28-Oct-18 00:00:00		10.35	18.92	83.84	88.82
28-Oct-18 01:00:00	28-Oct-18 02:00:00		1.71	0.00	0.00	6.54	2.1	329.7		0.56	0.00	0.00	2.16		10.35	18.92	83.84	86.68	28-Oct-18 01:00:00		10.91	18.92	83.84	88.84
28-Oct-18 02:00:00	28-Oct-18 03:00:00		10.31	0.00	0.00	6.60	2.1	329.7		3.40	0.00	0.00	2.18		10.35	18.92	83.84	86.68	28-Oct-18 02:00:00		13.75	18.92	83.84	88.86
28-Oct-18 03:00:00	28-Oct-18 04:00:00		38.48	0.00	0.00	6.71	2.1	329.7		12.69	0.00	0.00	2.21		10.35	18.92	83.84	86.68	28-Oct-18 03:00:00		23.04	18.92	83.84	88.89
28-Oct-18 04:00:00	28-Oct-18 05:00:00		65.82	0.00	0.00	6.82	2.1	329.7		21.70	0.00	0.00	2.25		10.35	18.92	83.84	86.68	28-Oct-18 04:00:00		32.05	18.92	83.84	88.93
28-Oct-18 05:00:00	28-Oct-18 06:00:00		38.45	0.00	0.00	6.91	2.1	329.7		12.68	0.00	0.00	2.28		10.35	18.92	83.84	86.68	28-Oct-18 05:00:00		23.03	18.92	83.84	88.96
28-Oct-18 06:00:00	28-Oct-18 07:00:00		25.80	0.00	0.00	6.92	2.1	329.7		8.51	0.00	0.00	2.28		10.35	18.92	83.84	86.68	28-Oct-18 06:00:00		18.86	18.92	83.84	88.96
28-Oct-18 07:00:00	28-Oct-18 08:00:00		57.03	0.00	0.00	6.92	2.1	329.7		18.80	0.00	0.00	2.28		10.35	18.92	83.84	86.68	28-Oct-18 07:00:00		29.15	18.92	83.84	88.96
28-Oct-18 08:00:00	28-Oct-18 09:00:00		11.81	0.00	0.00	6.93	2.1	329.7		3.89	0.00	0.00	2.28		10.35	18.92	83.84	86.68	28-Oct-18 08:00:00		14.24	18.92	83.84	88.96
28-Oct-18 09:00:00	28-Oct-18 10:00:00		19.05	0.00	0.00	6.86	2.1	329.7		6.28	0.00	0.00	2.26		10.35	18.92	83.84	86.68	28-Oct-18 09:00:00		16.63	18.92	83.84	88.94
28-Oct-18 10:00:00	28-Oct-18 11:00:00		29.10	0.00	0.00	6.53	2.1	329.7		9.60	0.00	0.00	2.15		10.35	18.92	83.84	86.68	28-Oct-18 10:00:00		19.95	18.92	83.84	88.83
28-Oct-18 11:00:00	28-Oct-18 12:00:00		42.31	0.00	0.00	6.17	2.1	329.7		13.95	0.00	0.00	2.03		10.35	18.92	83.84	86.68	28-Oct-18 11:00:00		24.30	18.92	83.84	88.71
28-Oct-18 12:00:00	28-Oct-18 13:00:00		14.87	0.00	0.00	5.81	2.1	329.7		4.90	0.00	0.00	1.92		10.35	18.92	83.84	86.68	28-Oct-18 12:00:00		15.25	18.92	83.84	88.60
28-Oct-18 13:00:00	28-Oct-18 14:00:00		1.37	0.00	0.00	5.48	2.1	329.7		0.45	0.00	0.00	1.81		10.35	18.92	83.84	86.68	28-Oct-18 13:00:00		10.80	18.92	83.84	88.49
28-Oct-18 14:00:00	28-Oct-18 15:00:00		1.79	0.00	0.00	5.36	2.1	329.7		0.59	0.00	0.00	1.77		10.35	18.92	83.84	86.68	28-Oct-18 14:00:00		10.94	18.92	83.84	88.45
28-Oct-18 15:00:00	28-Oct-18 16:00:00		2.25	0.00	0.00	5.28	2.1	329.7		0.74	0.00	0.00	1.74		10.35	18.92	83.84	86.68	28-Oct-18 15:00:00		11.09	18.92	83.84	88.42
28-Oct-18 16:00:00	28-Oct-18 17:00:00		6.98	0.00	0.00	5.21	2.1	329.7		2.30	0.00	0.00	1.72		10.35	18.92	83.84	86.68	28-Oct-18 16:00:00		12.65	18.92	83.84	88.40
28-Oct-18 17:00:00	28-Oct-18 18:00:00		24.09	0.00	0.00	5.17	2.1	329.7		7.94	0.00	0.00	1.70		10.35	18.92	83.84	86.68	28-Oct-18 17:00:00		18.29	18.92	83.84	88.38
28-Oct-18 18:00:00	28-Oct-18 19:00:00		26.77	0.00	0.00	5.28	2.1	329.7		8.83	0.00	0.00	1.74		10.35	18.92	83.84	86.68	28-Oct-18 18:00:00		19.18	18.92	83.84	88.42
28-Oct-18 19:00:00	28-Oct-18 20:00:00		28.87	0.00	0.00	5.41	2.1	329.7		9.52	0.00	0.00	1.78		10.35	18.92	83.84	86.68	28-Oct-18 19:00:00		19.87	18.92	83.84	88.46
28-Oct-18 20:00:00	28-Oct-18 21:00:00		29.39	0.00	0.00	5.54	2.1	329.7		9.69	0.00	0.00	1.83		10.35	18.92	83.84	86.68	28-Oct-18 20:00:00		20.04	18.92	83.84	88.51
28-Oct-18 21:00:00	28-Oct-18 22:00:00		27.54	0.00	0.00	5.65	2.1	329.7		9.08	0.00	0.00	1.86		10.35	18.92	83.84	86.68	28-Oct-18 21:00:00		19.43	18.92	83.84	88.54
28-Oct-18 22:00:00	28-Oct-18 23:00:00		26.33	0.00	0.00	5.69	2.1	329.7		8.68	0.00	0.00	1.88		10.35	18.92	83.84	86.68	28-Oct-18 22:00:00		19.03	18.92	83.84	88.56
28-Oct-18 23:00:00	29-Oct-18 00:00:00		25.58	0.00	0.00	5.73	2.1	329.7		8.43	0.00	0.00	1.89		10.35	18.92	83.84	86.68	28-Oct-18 23:00:00		18.78	18.92	83.84	88.57
29-Oct-18 00:00:00	29-Oct-18 01:00:00		25.89	0.00	0.00	5.77	2.1	329.7		8.54	0.00	0.00	1.90		10.35	18.92	83.84	86.68	29-Oct-18 00:00:00		18.89	18.92	83.84	88.58
29-Oct-18 01:00:00	29-Oct-18 02:00:00		28.88	0.00	0.00	5.79	2.1	329.7		9.52	0.00	0.00	1.91		10.35	18.92	83.84	86.68	29-Oct-18 01:00:00		19.87	18.92	83.84	88.59
29-Oct-18 02:00:00	29-Oct-18 03:00:00		31.04	0.00	0.00	5.81	2.1	329.7		10.23	0.00	0.00	1.92		10.35	18.92	83.84	86.68	29-Oct-18 02:00:00		20.58	18.92	83.84	88.60
29-Oct-18 03:00:00	29-Oct-18 04:00:00		32.59	0.00	0.00	5.84	2.1	329.7		10.74	0.00	0.00	1.93		10.35	18.92	83.84	86.68	29-Oct-18 03:00:00		21.09	18.92	83.84	88.61
29-Oct-18 04:00:00	29-Oct-18 05:00:00		11.40	0.00	0.00	5.87	2.1	329.7		3.76	0.00	0.00	1.94		10.35	18.92	83.84	86.68	29-Oct-18 04:00:00		14.11	18.92	83.84	88.62
29-Oct-18 05:00:00	29-Oct-18 06:00:00		5.23	0.00	0.00	5.88	2.1	329.7		1.72	0.00	0.00	1.94		10.35	18.92	83.84	86.68	29-Oct-18 05:00:00		12.07	18.92	83.84	88.62
29-Oct-18 06:00:00	29-Oct-18 07:00:00		21.21	0.00	0.00	5.86	2.1	329.7		6.99	0.00	0.00	1.93		10.35	18.92	83.84	86.68	29-Oct-18 06:00:00		17.34	18.92	83.84	88.61
29-Oct-18 07:00:00	29-Oct-18 08:00:00		7.84	0.00	0.00	5.85	2.1	329.7		2.58	0.00	0.00	1.93		10.35	18.92	83.84	86.68	29-Oct-18 07:00:00		12.93	18.92	83.84	88.61
29-Oct-18 08:00:00	29-Oct-18 09:00:00		34.72	0.00	0.00	5.84	2.1	329.7		11.45	0.00	0.00	1.93		10.35	18.92	83.84	86.68	29-Oct-18 08:00:00		21.80	18.92	83.84	88.61
29-Oct-18 09:00:00	29-Oct-18 10:00:00		5.82	0.00	0.00	5.85	2.1	329.7		1.92	0.00	0.00	1.93		10.35	18.92	83.84	86.68	29-Oct-18 09:00:00		12.27	18.92	83.84	88.61
29-Oct-18 10:00:00	29-Oct-18 11:00:00		8.20	0.00	0.00	5.74	2.1	329.7		2.70	0.00	0.00	1.89		10.35	18.92	83.84	86.68	29-Oct-18 10:00:00		13.05	18.92	83.84	88.57
29-Oct-18 11:00:00	29-Oct-18 12:00:00		9.34	0.00	0.00	5.56	2.1	329.7		3.08	0.00	0.00	1.83		10.35	18.92	83.84	86.68	29-Oct-18 11:00:00		13.43	18.92	83.84	88.51
29-Oct-18 12:00:00	29-Oct-18 13:00:00		9.78	0.00	0.00	5.38	2.1	329.7		3.22	0.00	0.00	1.77		10.35	18.92	83.84	86.68	29-Oct-18 12:00:00		13.57	18.92	83.84	88.45
29-Oct-18 13:00:00	29-Oct-18 14:00:00		10.21	0.00	0.00	5.34	2.1	329.7		3.37	0.00	0.00	1.76		10.35	18.92	83.84	86.68	29-Oct-18 13:00:00		13.72	18.92	83.84	88.44
29-Oct-18 14:00:00	29-Oct-18 15:00:00		35.75	0.00	0.00	5.34	2.1	329.7		11.79	0.00	0.00	1.76		10.35	18.92	83.84	86.68	29-Oct-18 14:00:00		22.14	18.92	83.84	88.44
29-Oct-18 15:00:00	29-Oct-18 16:00:00		30.89	0.00	0.00	5.23	2.1	329.7		10.19	0.00	0.00	1.73		10.35	18.92	83.84	86.68	29-Oct-18 15:00:00		20.54	18.92	83.84	88.41
29-Oct-18 16:00:00	29-Oct-18 17:00:00		34.32	0.00	0.00	5.12	2.1	329.7		11.31	0.00	0.00	1.69		10.35	18.92	83.84	86.68	29-Oct-18 16:00:00		21.66	18.92	83.84	88.37
29-Oct-18 17:00:00	29-Oct-18 18:00:00		60.47	0.00	0.00	5.06	2.1	329.7		19.94	0.00	0.00	1.67		10.35	18.92	83.84	86.68	29-Oct-18 17:00:00		30.29	18.92	83.84	88.35
29-Oct-18 18:00:00	29-Oct-18 19:00:00		82.56	0.00	0.00	5.24	2.1	329.7		27.22	0.00	0.00	1.73		10.35	18.92	83.84	86.68	29-Oct-18 18:00:00		37.57	18.92	83.84	88.41
29-Oct-18 19:00:00	29-Oct-18 20:00:00		36.06	0.00	0.00	5.44	2.1	329.7		11.89	0.00	0.00	1.79		10.35	18.92	83.84	86.68	29-Oct-18 19:00:00		22.24	18.92	83.84	88.47
29-Oct-18 20:00:00	29-Oct-18 21:00:00		23.10	0.00	0.00	5.65

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
31-Oct-18 22:00:00	31-Oct-18 23:00:00		37.31	0.00	0.00	5.38	2.1	329.7		12.30	0.00	0.00	1.77		10.35	18.92	83.84	86.68	31-Oct-18 22:00:00		22.65	18.92	83.84	88.45
31-Oct-18 23:00:00	01-Nov-18 00:00:00		35.89	0.00	0.00	5.50	2.1	329.7		11.83	0.00	0.00	1.81		10.35	18.92	83.84	86.68	31-Oct-18 23:00:00		22.18	18.92	83.84	88.49
01-Nov-18 00:00:00	01-Nov-18 01:00:00		36.28	0.00	0.00	5.62	2.1	329.7		11.96	0.00	0.00	1.85		10.35	18.92	83.84	86.68	01-Nov-18 00:00:00		22.31	18.92	83.84	88.53
01-Nov-18 01:00:00	01-Nov-18 02:00:00		27.09	0.00	0.00	5.71	2.1	329.7		8.93	0.00	0.00	1.88		10.35	18.92	83.84	86.68	01-Nov-18 01:00:00		19.28	18.92	83.84	88.56
01-Nov-18 02:00:00	01-Nov-18 03:00:00		28.94	0.00	0.00	5.76	2.1	329.7		9.54	0.00	0.00	1.90		10.35	18.92	83.84	86.68	01-Nov-18 02:00:00		19.89	18.92	83.84	88.58
01-Nov-18 03:00:00	01-Nov-18 04:00:00		0.17	0.00	0.00	5.80	2.1	329.7		0.06	0.00	0.00	1.91		10.35	18.92	83.84	86.68	01-Nov-18 03:00:00		10.41	18.92	83.84	88.59
01-Nov-18 04:00:00	01-Nov-18 05:00:00		9.62	0.00	0.00	5.85	2.1	329.7		3.17	0.00	0.00	1.93		10.35	18.92	83.84	86.68	01-Nov-18 04:00:00		13.52	18.92	83.84	88.61
01-Nov-18 05:00:00	01-Nov-18 06:00:00		15.82	0.00	0.00	5.90	2.1	329.7		5.22	0.00	0.00	1.95		10.35	18.92	83.84	86.68	01-Nov-18 05:00:00		15.57	18.92	83.84	88.63
01-Nov-18 06:00:00	01-Nov-18 07:00:00		15.78	0.00	0.00	5.91	2.1	329.7		5.20	0.00	0.00	1.95		10.35	18.92	83.84	86.68	01-Nov-18 06:00:00		15.55	18.92	83.84	88.63
01-Nov-18 07:00:00	01-Nov-18 08:00:00		15.73	0.00	0.00	5.91	2.1	329.7		5.19	0.00	0.00	1.95		10.35	18.92	83.84	86.68	01-Nov-18 07:00:00		15.54	18.92	83.84	88.63
01-Nov-18 08:00:00	01-Nov-18 09:00:00		15.65	0.00	0.00	5.90	2.1	329.7		5.16	0.00	0.00	1.94		10.35	18.92	83.84	86.68	01-Nov-18 08:00:00		15.51	18.92	83.84	88.62
01-Nov-18 09:00:00	01-Nov-18 10:00:00		14.82	0.00	0.00	5.82	2.1	329.7		4.89	0.00	0.00	1.92		10.35	18.92	83.84	86.68	01-Nov-18 09:00:00		15.24	18.92	83.84	88.60
01-Nov-18 10:00:00	01-Nov-18 11:00:00		13.68	0.00	0.00	5.51	2.1	329.7		4.51	0.00	0.00	1.82		10.35	18.92	83.84	86.68	01-Nov-18 10:00:00		14.86	18.92	83.84	88.50
01-Nov-18 11:00:00	01-Nov-18 12:00:00		16.17	0.00	0.00	5.23	2.1	329.7		5.33	0.00	0.00	1.73		10.35	18.92	83.84	86.68	01-Nov-18 11:00:00		15.68	18.92	83.84	88.41
01-Nov-18 12:00:00	01-Nov-18 13:00:00		22.25	0.00	0.00	4.96	2.1	329.7		7.34	0.00	0.00	1.63		10.35	18.92	83.84	86.68	01-Nov-18 12:00:00		17.69	18.92	83.84	88.31
01-Nov-18 13:00:00	01-Nov-18 14:00:00		9.75	0.00	0.00	4.73	2.1	329.7		3.21	0.00	0.00	1.56		10.35	18.92	83.84	86.68	01-Nov-18 13:00:00		13.56	18.92	83.84	88.24
01-Nov-18 14:00:00	01-Nov-18 15:00:00		35.81	0.00	0.00	4.71	2.1	329.7		11.81	0.00	0.00	1.55		10.35	18.92	83.84	86.68	01-Nov-18 14:00:00		22.16	18.92	83.84	88.23
01-Nov-18 15:00:00	01-Nov-18 16:00:00		7.61	0.00	0.00	4.67	2.1	329.7		2.51	0.00	0.00	1.54		10.35	18.92	83.84	86.68	01-Nov-18 15:00:00		12.86	18.92	83.84	88.22
01-Nov-18 16:00:00	01-Nov-18 17:00:00		10.40	0.00	0.00	4.64	2.1	329.7		3.43	0.00	0.00	1.53		10.35	18.92	83.84	86.68	01-Nov-18 16:00:00		13.78	18.92	83.84	88.21
01-Nov-18 17:00:00	01-Nov-18 18:00:00		27.44	0.00	0.00	4.63	2.1	329.7		9.05	0.00	0.00	1.53		10.35	18.92	83.84	86.68	01-Nov-18 17:00:00		19.40	18.92	83.84	88.21
01-Nov-18 18:00:00	01-Nov-18 19:00:00		25.47	0.00	0.00	4.74	2.1	329.7		8.40	0.00	0.00	1.56		10.35	18.92	83.84	86.68	01-Nov-18 18:00:00		18.75	18.92	83.84	88.24
01-Nov-18 19:00:00	01-Nov-18 20:00:00		24.69	0.00	0.00	4.85	2.1	329.7		8.14	0.00	0.00	1.60		10.35	18.92	83.84	86.68	01-Nov-18 19:00:00		18.49	18.92	83.84	88.28
01-Nov-18 20:00:00	01-Nov-18 21:00:00		24.20	0.00	0.00	4.96	2.1	329.7		7.98	0.00	0.00	1.64		10.35	18.92	83.84	86.68	01-Nov-18 20:00:00		18.33	18.92	83.84	88.32
01-Nov-18 21:00:00	01-Nov-18 22:00:00		23.57	0.00	0.00	5.06	2.1	329.7		7.77	0.00	0.00	1.67		10.35	18.92	83.84	86.68	01-Nov-18 21:00:00		18.12	18.92	83.84	88.35
01-Nov-18 22:00:00	01-Nov-18 23:00:00		13.57	0.00	0.00	5.12	2.1	329.7		4.47	0.00	0.00	1.69		10.35	18.92	83.84	86.68	01-Nov-18 22:00:00		14.82	18.92	83.84	88.37
01-Nov-18 23:00:00	02-Nov-18 00:00:00		3.88	0.00	0.00	5.18	2.1	329.7		1.28	0.00	0.00	1.71		10.35	18.92	83.84	86.68	01-Nov-18 23:00:00		11.63	18.92	83.84	88.39
02-Nov-18 00:00:00	02-Nov-18 01:00:00		3.77	0.00	0.00	5.24	2.1	329.7		1.24	0.00	0.00	1.73		10.35	18.92	83.84	86.68	02-Nov-18 00:00:00		11.59	18.92	83.84	88.41
02-Nov-18 01:00:00	02-Nov-18 02:00:00		3.66	0.00	0.00	5.28	2.1	329.7		1.21	0.00	0.00	1.74		10.35	18.92	83.84	86.68	02-Nov-18 01:00:00		11.56	18.92	83.84	88.42
02-Nov-18 02:00:00	02-Nov-18 03:00:00		3.59	0.00	0.00	5.27	2.1	329.7		1.18	0.00	0.00	1.74		10.35	18.92	83.84	86.68	02-Nov-18 02:00:00		11.53	18.92	83.84	88.42
02-Nov-18 03:00:00	02-Nov-18 04:00:00		3.90	0.00	0.00	5.27	2.1	329.7		1.28	0.00	0.00	1.74		10.35	18.92	83.84	86.68	02-Nov-18 03:00:00		11.63	18.92	83.84	88.42
02-Nov-18 04:00:00	02-Nov-18 05:00:00		4.30	0.00	0.00	5.27	2.1	329.7		1.42	0.00	0.00	1.74		10.35	18.92	83.84	86.68	02-Nov-18 04:00:00		11.77	18.92	83.84	88.42
02-Nov-18 05:00:00	02-Nov-18 06:00:00		4.70	0.00	0.00	5.26	2.1	329.7		1.55	0.00	0.00	1.73		10.35	18.92	83.84	86.68	02-Nov-18 05:00:00		11.90	18.92	83.84	88.41
02-Nov-18 06:00:00	02-Nov-18 07:00:00		5.26	0.00	0.00	5.24	2.1	329.7		1.74	0.00	0.00	1.73		10.35	18.92	83.84	86.68	02-Nov-18 06:00:00		12.09	18.92	83.84	88.41
02-Nov-18 07:00:00	02-Nov-18 08:00:00		5.65	0.00	0.00	5.25	2.1	329.7		1.86	0.00	0.00	1.73		10.35	18.92	83.84	86.68	02-Nov-18 07:00:00		12.21	18.92	83.84	88.41
02-Nov-18 08:00:00	02-Nov-18 09:00:00		5.65	0.00	0.00	5.25	2.1	329.7		1.86	0.00	0.00	1.73		10.35	18.92	83.84	86.68	02-Nov-18 08:00:00		12.21	18.92	83.84	88.41
02-Nov-18 09:00:00	02-Nov-18 10:00:00		5.65	0.00	0.00	5.24	2.1	329.7		1.86	0.00	0.00	1.73		10.35	18.92	83.84	86.68	02-Nov-18 09:00:00		12.21	18.92	83.84	88.41
02-Nov-18 10:00:00	02-Nov-18 11:00:00		5.55	0.00	0.00	5.22	2.1	329.7		1.83	0.00	0.00	1.72		10.35	18.92	83.84	86.68	02-Nov-18 10:00:00		12.18	18.92	83.84	88.40
02-Nov-18 11:00:00	02-Nov-18 12:00:00		5.28	0.00	0.00	5.23	2.1	329.7		1.74	0.00	0.00	1.72		10.35	18.92	83.84	86.68	02-Nov-18 11:00:00		12.09	18.92	83.84	88.40
02-Nov-18 12:00:00	02-Nov-18 13:00:00		5.14	0.00	0.00	5.25	2.1	329.7		1.69	0.00	0.00	1.73		10.35	18.92	83.84	86.68	02-Nov-18 12:00:00		12.04	18.92	83.84	88.41
02-Nov-18 13:00:00	02-Nov-18 14:00:00		5.00	0.00	0.00	5.27	2.1	329.7		1.65	0.00	0.00	1.74		10.35	18.92	83.84	86.68	02-Nov-18 13:00:00		12.00	18.92	83.84	88.42
02-Nov-18 14:00:00	02-Nov-18 15:00:00		4.93	0.00	0.00	5.43	2.1	329.7		1.63	0.00	0.00	1.79		10.35	18.92	83.84	86.68	02-Nov-18 14:00:00		11.98	18.92	83.84	88.47
02-Nov-18 15:00:00	02-Nov-18 16:00:00		5.55	0.00	0.00	5.64	2.1	329.7		1.83	0.00	0.00	1.86		10.35	18.92	83.84	86.68	02-Nov-18 15:00:00		12.18	18.92	83.84	88.54
02-Nov-18 16:00:00	02-Nov-18 17:00:00		6.36	0.00	0.00	5.84	2.1	329.7		2.10	0.00	0.00	1.93		10.35	18.92	83.84	86.68	02-Nov-18 16:00:00		12.45	18.92	83.84	88.61
02-Nov-18 17:00:00	02-Nov-18 18:00:00		8.59	0.00	0.00	6.06	2.1	329.7		2.83	0.00	0.00	2.00		10.35	18.92	83.84	86.68	02-Nov-18 17:00:00		13.18	18.92	83.84	88.68
02-Nov-18 18:00:00	02-Nov-18 19:00:00		10.23	0.00	0.00	6.20	2.1	329.7		3.37	0.00	0.00	2.04		10.35	18.92	83.84	86.68	02-Nov-18 18:00:00		13.72	18.92	83.84	88.72
02-Nov-18 19:00:00	02-Nov-18 20:00:00		11.33	0.00	0.00	6.24	2.1	329.7		3.74	0.00	0.00	2.06		10.35	18.92	83.84	86.68	02-Nov-18 19:00:00		14.09	18.92	83.84	88.74
02-Nov-18 20:00:00	02-Nov-18 21:00:00		10.98	0.00	0.00	6.29	2.1	329.7		3.62	0.00	0.00	2.07		10.35	18.92	83.84	86.68	02-Nov-18 20:00:00		13.97	18.92	83.84	88.75
02-Nov-18 21:00:00	02-Nov-18 22:00:00		8.77	0.00	0.00	6.35	2.1	329.7		2.89	0.00	0.00	2.09		10.35	18.92	83.84	86.68	02-Nov-18 21:00:00		13.24	18.92	83.84	88.77
02-Nov-18 22:00:00	02-Nov-18 23:00:00		4.41	0.00	0.00	6.49	2.1	329.7		1.45	0.00	0.00	2.14		10.35	18.92	83.84	86.68	02-Nov-18 22:00:00		11.80	18.92	83.84	88.82
02-Nov-18 23:00:00	03-Nov-18 00:00:00		1.67	0.00	0.00	6.66	2.1	329.7		0.55	0.00	0.00	2.20		10.35	18.92	83.84	86.68	02-Nov-18 23:00:00		10.90	18.92	83.84	88.88
03-Nov-18 00:00:00	03-Nov-18 01:00:00		28.64	0.00	0.00	6.83	2.1	329.7		9.44	0.00	0.00	2.25		10.35	18.92	83.84	86.68	03-Nov-18 00:00:00		19.79	18.92	83.84	88.93
03-Nov-18 01:00:00	03-Nov-18 02:00:00		7.25	0.00	0.00	7.05	2.1	329.7		2.39	0.00	0.00	2.32		10.35	18.92	83.84	86.68	03-Nov-18 01:00:00		12.74	18.92	83.84	89.00
03-Nov-18 02:00:00	03-Nov-18 03:00:00		11.38	0.00	0.00	7.19	2.1	329.7		3.75	0.00	0.00	2.37		10.35	18.92	83.84	86.68	03-Nov-18 02:00:00		14.10	18.92	83.84	89.05
03-Nov-18 03:00:00	03-Nov-18 04:00:00		4.50	0.00	0.00	7.12	2.1	329.7		1.49	0.00	0.00	2.35		10.35	18.92	83.84	86.68	03-Nov-18 03:00:00		11.84	18.92	83.84	89.03
03-Nov-18 04:00:00	03-Nov-18 05:00:00		19.19	0.00	0.00	7.06	2.1	329.7		6.33	0.00	0.00	2.33		10.35	18.92	83.84	86.68	03-Nov-18 04:00:00		16.68	18.92	83.84	89.01
03-Nov-18 05:00:00	03-Nov-18 06:00:00		13.73	0.00	0.00	7.02	2.1	329.7		4.53	0.00	0.00	2.31		10.35	18.92	83.84	86.68	03-Nov-18 05:00:00		14.88	18.92	83.84	88.99
03-Nov-18 06:00:00	03-Nov-18 07:00:00		47.36	0.00	0.00	7.11	2.1	329.7		15.61	0.00	0.00	2.34		10.35	18.92	83.84	86.68	03-Nov-18 06:00:00		25.96	18.92	83.84	89.02
03-Nov-18 07:00:00	03-Nov-18 08:00:00		70.22	0.00	0.00	7.19	2.1	329.7		23.15	0.00	0.00	2.37		10.35	18.92	83.84	86.68	03-Nov-18 07:00:00		33.50	18.92	83.84	89.05
03-Nov-18 08:00:00	03-Nov-18 09:00:00		106.15	0.00	0.00	7.26	2.1	329.7		35.00	0.00	0.00	2.39		10.35	18.92	83.84	86.68	03-Nov-18 08:00:00		45.35	18.92	83.84	89.07
03-Nov-18 09:00:00	03-Nov-18 10:00:00		64.02	0.00	0.00	7.31	2.1	329.7		21.11	0.00	0.00	2.41		10.35	18.92	83.84	86.68	03-Nov-18 09:00:00		31.46	18.92	83.84	89.09
03-Nov-18 10:00:00	03-Nov-18 11:00:00		95.28	0.00	0.00	7.01	2.1	329.7		31.42	0.00	0.00	2.31		10.35	18.92	83.84	86.68	03-Nov-18 10:00:00		41.77	18.92	83.84	88.99
03-Nov-18 11:00:00	03-Nov-18 12:00:00		19.37	0.00	0.00	6.59	2.1	329.7		6.39	0.00	0.00	2.17		10.35	18.92	83.84	86.68	03-Nov-18 11:00:00		16.74	18.92	83.84	88.85
03-Nov-18 12:00:00	03-Nov-18 13:00:00		10.67	0.00	0.00	6.18	2.1	329.7		3.52	0.00	0.00	2.04		10.35	18.92	83.84	86.68	03-Nov-18 12:00:00		13.87	18.92	83.84	88.72
03-Nov-18 13:00:00	03-Nov-18 14:00:00		23.57	0.00	0.00	5.78	2.1	329.7		7.77	0.00	0.00	1.90		10.35	18.92	83.84	86.68	03-Nov-18 13:00:00		18.12	18.92	83.84	88.58
03-Nov-18 14:00:00	03-Nov-18 15:00:00		17.80	0.00	0.00	5.59	2.1	329.7		5.87	0.00	0.00	1.84		10.35	18.92	83.84	86.68	03-Nov-18 14:00:00		16.22	18.92	83.84	88.52
03-Nov-18 15:00:00	03-Nov-18 16:00:00		6.24	0.00	0.00	5.48	2.1	329.7		2.06	0.00	0.00	1.81		10.35	18.92	83.84	86.68	03-Nov-18 15:00:00		12.41	18.92	83.84	88.49
03-Nov-18 16:00:00	03-Nov-18 17:00:00		2.92	0.00	0.00	5.36	2.1	329.7		0.96	0.00	0.00	1.77		10.35	18.92	83.84	86.68	03-Nov-18 16:00:00		11.31	18.92	83.84	88.45
03-Nov-18 17:00:00	03-Nov-18 18:00:00		3.08	0.00	0.00	5.28	2.1	329.7		1.02	0.00	0.00	1.74		10.35	18.92	83.84	86.68	03-Nov-18 17:00:00		11.37	18.92	83.84	88.42
03-Nov-18 18:00:00	03-Nov-18 19:00:00		3.24	0.00	0.00	5.51	2.1	329.7		1.07	0.00	0.00	1.82		10.35	18.92	83.84	86.68	03-Nov-18 18:00:00		11.42	18.92	83.84	88.50
03-Nov-18 19:00:00	03-Nov-18 20:00:00		3.42	0.00	0.00	5.78	2.1	329.7		1.13	0.00	0.00	1.91		10.35	18.92	83.84	86.68	03-Nov-18 19:00:00		11.48	18.92	83.84	88.59
03-Nov-18 20:00:00	03-Nov-18 21:00:00		9.63	0.00	0.00	6.05	2.1	329.7		3.17	0.00	0.00	2.00		10.35	18.92	83.84	86.68	03-Nov-18 20:00:00		13.52	18.92	83.84	88.68
03-Nov-18 21:00:00	03-Nov-18 22:00:00		17.88	0.00	0.00	6.33	2.1	329.7		5.90	0.00	0.00	2.09		10.35	18.92	83.84	86.68	03-Nov-18 21:00:00		16.25	18.92	83.84	88.77
03-Nov-18 22:00:00	03-Nov-18 23:00:00		17.34	0.00	0.00	6.52	2.1	329.7		5.72	0.00	0.00	2.15		10.35	18.92	83.84	86.68	03-Nov-18 22:00:00		16.07	18.92	83.84	88.83
03-Nov-18 23:00:00	04-Nov-18 00:00:00		31.07	0.00	0.00	6.64	2.1	329.7		10.24	0.00	0.00	2.19		10.35	18.92	83.84	86.68	03-Nov-18 23:00:00		20.59	18.92	83.84	88.87
04-Nov-18 00:00:00	04-Nov-18 01:00:00		88.91	0.00	0.00	6.76	2.1	329.7		29.31	0.00	0.00	2.23		10.35	18.92	83.84	86.68	04-Nov-18 00:00:00		39.66	18.92	83.84	88.91
04-Nov-18 01:00:00	04-Nov-18 01:00:00		35.67	0.00	0.00	6.87	2.1	329.7		11.76	0.00	0.00	2.27		10.35	18.92	83.84	86.68	04-Nov-18 01:00:00		22.11	18.92	83.84	88.95
04-Nov-18 01:00:00	04-Nov-18 02:00:00		25.52	0.00	0.00	6.87	2.1	329.7		8.41	0.00	0.00	2.26		10.35	18.92	83.84	86.68	04-Nov-18 01:00:00		18.76	18.92	83.84	88.94
04-Nov-18 02:00:00	04-Nov-18 03:00:00		10.77	0.00	0.00	6.84	2.1	329.7		3.55	0.00	0.00	2.26		10.35	18.92	83.84	86.68	04-Nov-18 02:00:00		13.90	18.92	83.84	88.94
04-Nov-18 03:00:00	04-Nov-18 04:00:00		23.22	0.00	0.00	6.87	2.1	329.7		7.66	0.00	0.00	2.26		10.35	18.92	83.84	86.68	04-Nov-18 03:00:00		18.01	18.92	83.84	88.94
04-Nov-18 04:00:00	04-Nov-18 05:00:00		22.34	0.00	0.00	6.90	2.1	329.7		7.37	0.00	0.00	2.27		10.35	18.92	83.84	86.68	04-Nov-18 04:00:00		17.72	18.92	83.84	88.95
04-Nov-18 05:00:00	04-Nov-18 06:00:00		25.48	0.00	0.00	6.90	2.1	329.7		8.40	0.00	0.00	2.27		10.35	18.92	83.84	86.68	04-Nov-18 05:00:00		18.75	18.92	83.84	88.95
04-Nov-18 06:00:00	04-Nov-18 07:00:00		28.87	0.00	0.00	6.89	2.1	329.7		9.52	0.00	0.00	2.27		10.35	18.92	83.84	86.68	04-Nov-18 06:00:00		19.87	18.92	83.84	88.95
04-Nov-18 07:00:00	04-Nov-18 08:00:00		28.40	0.00	0.00	6.88	2.1	329.7		9.36	0.00	0.00	2.27		10.35	18.92	83.84	86.68	04-Nov-18 07:00:00		19.71	18.92	83.84	88.95
04-Nov-18 08:00:00	04-Nov-18 09:00:00		26.15	0.00	0.00	6.88	2.1	329.7		8.62	0.00	0.00	2.27		10.35	18.92	83.84	86.68	04-Nov-18 08:00:00		18.97	18.92	83.84	88.95
04-Nov-18 09:00:00	04-Nov-18 10:00:00		27.06	0.00	0.00	6.70	2.1	329.7		8.92	0.00	0.00	2.21		10.35	18.92	83.84	86.68	04-Nov-18 09:00:00		19.27	18.92	83.84	88.89
04-Nov-18 10:00:00	04-Nov-18 11:00:00		31.20	0.00	0.00	6.34	2.1	329.7		10.29	0.00	0.00	2.09		10.35	18.92	83.84	86.68	04-Nov-18 10:00:00		20.64	18.92	83.84	88.77
04-Nov-18 11:00:00	04-Nov-18 12:00:00		3.52	0.00	0.00	5.97	2.1	329.7		1.16	0.00	0.00	1.97		10.35	18.92	83.84	86.68	04-Nov-18 11:00:00		11.51	18.92	83.84	88.65
04-Nov-18 12:00:00	04-Nov-18 13:00:00		18.44	0.00	0.00	5.61	2.1	329.7		6.08	0.00	0.00	1.85		10.35	18.92	83.84	86.68	04-Nov-18 12:00:00		16.43	18.92	83.84	88.53
04-Nov-18 13:00:00	04-Nov-18 14:00:00		3.43	0.00	0.00	5.43	2.1	329.7		1.13	0.00	0.00	1.79		10.35	18.92	83.84	86.68	04-Nov-18 13:00:00		11.48	18.92	83.84	88.47
04-Nov-18 14:00:00	04-Nov-18 15:00:00		1.79	0.00	0.00	5.39	2.1	329.7		0.59	0.00	0.00	1.78		10.35	18.92	83.84	86.68	04-Nov-18 14:00:00		10.94	18.92	83.84	88.46
04-Nov-18 15:00:00	04-Nov-18 16:00:00		3.64	0.00	0.00	5.34	2.1	329.7		1.20	0.00	0.00	1.76		10.35	18.92	83.84	86.68	04-Nov-18 15:00:00		11.55	18.92	83.84	88.44
04-Nov-18 16:00:00	04-Nov-18 17:00:00		11.89	0.00	0.00	5.30	2.1	329.7		3.92	0.00	0.00	1.75		10.35	18.92	83.84	86.68	04-Nov-18 16:00:00		14.27	18.92	83.84	88.43
04-Nov-18 17:00:00	04-Nov-18 18:00:00		6.97	0.00	0.00	5.33	2.1	329.7		2.30	0.00	0.00	1.76		10.35	18.92	83.84	86.68	04-Nov-18 17:00:00		12.65	18.92	83.84	88.44
04-Nov-18 18:00:00	04-Nov-18 19:00:00		11.06	0.00	0.00	5.33

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
06-Nov-18 20:00:00	06-Nov-18 21:00:00		427.63	0.00	0.00	5.24	2.1	329.7		140.99	0.00	0.00	1.73		10.35	18.92	83.84	86.68	06-Nov-18 20:00:00		151.34	18.92	83.84	88.41
06-Nov-18 21:00:00	06-Nov-18 22:00:00		0.12	0.00	0.00	5.63	2.1	329.7		0.04	0.00	0.00	1.86		10.35	18.92	83.84	86.68	06-Nov-18 21:00:00		10.39	18.92	83.84	88.54
06-Nov-18 22:00:00	06-Nov-18 23:00:00		2.96	0.00	0.00	5.70	2.1	329.7		0.98	0.00	0.00	1.88		10.35	18.92	83.84	86.68	06-Nov-18 22:00:00		11.33	18.92	83.84	88.56
06-Nov-18 23:00:00	07-Nov-18 00:00:00		0.30	0.00	0.00	5.75	2.1	329.7		0.10	0.00	0.00	1.90		10.35	18.92	83.84	86.68	06-Nov-18 23:00:00		10.45	18.92	83.84	88.58
07-Nov-18 00:00:00	07-Nov-18 01:00:00		0.40	0.00	0.00	5.79	2.1	329.7		0.13	0.00	0.00	1.91		10.35	18.92	83.84	86.68	07-Nov-18 00:00:00		10.48	18.92	83.84	88.59
07-Nov-18 01:00:00	07-Nov-18 02:00:00		0.80	0.00	0.00	5.90	2.1	329.7		0.26	0.00	0.00	1.94		10.35	18.92	83.84	86.68	07-Nov-18 01:00:00		10.61	18.92	83.84	88.62
07-Nov-18 02:00:00	07-Nov-18 03:00:00		0.00	0.00	0.00	5.94	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	07-Nov-18 02:00:00		10.35	18.92	83.84	88.64
07-Nov-18 03:00:00	07-Nov-18 04:00:00		0.50	0.00	0.00	5.98	2.1	329.7		0.16	0.00	0.00	1.97		10.35	18.92	83.84	86.68	07-Nov-18 03:00:00		10.51	18.92	83.84	88.65
07-Nov-18 04:00:00	07-Nov-18 05:00:00		7.89	0.00	0.00	6.02	2.1	329.7		2.60	0.00	0.00	1.98		10.35	18.92	83.84	86.68	07-Nov-18 04:00:00		12.95	18.92	83.84	88.66
07-Nov-18 05:00:00	07-Nov-18 06:00:00		4.17	0.00	0.00	6.13	2.1	329.7		1.38	0.00	0.00	2.02		10.35	18.92	83.84	86.68	07-Nov-18 05:00:00		11.73	18.92	83.84	88.70
07-Nov-18 06:00:00	07-Nov-18 07:00:00		1.10	0.00	0.00	6.05	2.1	329.7		0.36	0.00	0.00	1.99		10.35	18.92	83.84	86.68	07-Nov-18 06:00:00		10.71	18.92	83.84	88.67
07-Nov-18 07:00:00	07-Nov-18 08:00:00		17.43	0.00	0.00	5.95	2.1	329.7		5.75	0.00	0.00	1.96		10.35	18.92	83.84	86.68	07-Nov-18 07:00:00		16.10	18.92	83.84	88.64
07-Nov-18 08:00:00	07-Nov-18 09:00:00		17.49	0.00	0.00	5.85	2.1	329.7		5.77	0.00	0.00	1.93		10.35	18.92	83.84	86.68	07-Nov-18 08:00:00		16.12	18.92	83.84	88.61
07-Nov-18 09:00:00	07-Nov-18 10:00:00		11.62	0.00	0.00	5.64	2.1	329.7		3.83	0.00	0.00	1.86		10.35	18.92	83.84	86.68	07-Nov-18 09:00:00		14.18	18.92	83.84	88.54
07-Nov-18 10:00:00	07-Nov-18 11:00:00		12.80	0.00	0.00	5.39	2.1	329.7		4.22	0.00	0.00	1.78		10.35	18.92	83.84	86.68	07-Nov-18 10:00:00		14.57	18.92	83.84	88.46
07-Nov-18 11:00:00	07-Nov-18 12:00:00		3.94	0.00	0.00	5.14	2.1	329.7		1.30	0.00	0.00	1.69		10.35	18.92	83.84	86.68	07-Nov-18 11:00:00		11.65	18.92	83.84	88.37
07-Nov-18 12:00:00	07-Nov-18 13:00:00		1.66	0.00	0.00	4.89	2.1	329.7		0.55	0.00	0.00	1.61		10.35	18.92	83.84	86.68	07-Nov-18 12:00:00		10.90	18.92	83.84	88.29
07-Nov-18 13:00:00	07-Nov-18 14:00:00		0.14	0.00	0.00	4.74	2.1	329.7		0.05	0.00	0.00	1.56		10.35	18.92	83.84	86.68	07-Nov-18 13:00:00		10.40	18.92	83.84	88.24
07-Nov-18 14:00:00	07-Nov-18 15:00:00		0.00	0.00	0.00	4.76	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	07-Nov-18 14:00:00		10.35	18.92	83.84	88.25
07-Nov-18 15:00:00	07-Nov-18 16:00:00		149.16	0.00	0.00	4.77	2.1	329.7		49.18	0.00	0.00	1.57		10.35	18.92	83.84	86.68	07-Nov-18 15:00:00		59.53	18.92	83.84	88.25
07-Nov-18 16:00:00	07-Nov-18 17:00:00		311.48	0.00	0.00	4.78	2.1	329.7		102.70	0.00	0.00	1.58		10.35	18.92	83.84	86.68	07-Nov-18 16:00:00		113.05	18.92	83.84	88.26
07-Nov-18 17:00:00	07-Nov-18 18:00:00		424.94	0.00	0.00	5.03	2.1	329.7		140.10	0.00	0.00	1.66		10.35	18.92	83.84	86.68	07-Nov-18 17:00:00		150.45	18.92	83.84	88.34
07-Nov-18 18:00:00	07-Nov-18 19:00:00		358.45	0.00	0.00	5.19	2.1	329.7		118.18	0.00	0.00	1.71		10.35	18.92	83.84	86.68	07-Nov-18 18:00:00		128.53	18.92	83.84	88.39
07-Nov-18 19:00:00	07-Nov-18 20:00:00		626.95	0.00	0.00	5.31	2.1	329.7		206.71	0.00	0.00	1.75		10.35	18.92	83.84	86.68	07-Nov-18 19:00:00		217.06	18.92	83.84	88.43
07-Nov-18 20:00:00	07-Nov-18 21:00:00		1,357.00	0.00	0.00	5.44	2.1	329.7		447.40	0.00	0.00	1.79		10.35	18.92	83.84	86.68	07-Nov-18 20:00:00		457.75	18.92	83.84	88.47
07-Nov-18 21:00:00	07-Nov-18 22:00:00		1,534.96	0.00	0.00	5.48	2.1	329.7		506.07	0.00	0.00	1.81		10.35	18.92	83.84	86.68	07-Nov-18 21:00:00		516.42	18.92	83.84	88.49
07-Nov-18 22:00:00	07-Nov-18 23:00:00		1,461.35	0.00	0.00	5.55	2.1	329.7		481.81	0.00	0.00	1.83		10.35	18.92	83.84	86.68	07-Nov-18 22:00:00		492.16	18.92	83.84	88.51
07-Nov-18 23:00:00	08-Nov-18 00:00:00		1,074.00	0.00	0.00	5.63	2.1	329.7		354.10	0.00	0.00	1.86		10.35	18.92	83.84	86.68	07-Nov-18 23:00:00		364.45	18.92	83.84	88.54
08-Nov-18 00:00:00	08-Nov-18 01:00:00		953.96	0.00	0.00	5.72	2.1	329.7		314.52	0.00	0.00	1.89		10.35	18.92	83.84	86.68	08-Nov-18 00:00:00		324.87	18.92	83.84	88.57
08-Nov-18 01:00:00	08-Nov-18 02:00:00		491.17	0.00	0.00	5.76	2.1	329.7		161.94	0.00	0.00	1.90		10.35	18.92	83.84	86.68	08-Nov-18 01:00:00		172.29	18.92	83.84	88.58
08-Nov-18 02:00:00	08-Nov-18 03:00:00		134.59	0.00	0.00	5.78	2.1	329.7		44.37	0.00	0.00	1.91		10.35	18.92	83.84	86.68	08-Nov-18 02:00:00		54.72	18.92	83.84	88.59
08-Nov-18 03:00:00	08-Nov-18 04:00:00		0.00	0.00	0.00	5.80	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	08-Nov-18 03:00:00		10.35	18.92	83.84	88.59
08-Nov-18 04:00:00	08-Nov-18 05:00:00		0.00	0.00	0.00	5.82	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	08-Nov-18 04:00:00		10.35	18.92	83.84	88.60
08-Nov-18 05:00:00	08-Nov-18 06:00:00		0.00	0.00	0.00	5.88	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	08-Nov-18 05:00:00		10.35	18.92	83.84	88.62
08-Nov-18 06:00:00	08-Nov-18 07:00:00		0.00	0.00	0.00	5.94	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	08-Nov-18 06:00:00		10.35	18.92	83.84	88.64
08-Nov-18 07:00:00	08-Nov-18 08:00:00		0.00	0.00	0.00	5.99	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	08-Nov-18 07:00:00		10.35	18.92	83.84	88.66
08-Nov-18 08:00:00	08-Nov-18 09:00:00		0.00	0.00	0.00	6.05	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	08-Nov-18 08:00:00		10.35	18.92	83.84	88.67
08-Nov-18 09:00:00	08-Nov-18 10:00:00		0.00	0.00	0.00	6.01	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	08-Nov-18 09:00:00		10.35	18.92	83.84	88.66
08-Nov-18 10:00:00	08-Nov-18 11:00:00		0.07	0.00	0.00	5.97	2.1	329.7		0.02	0.00	0.00	1.97		10.35	18.92	83.84	86.68	08-Nov-18 10:00:00		10.37	18.92	83.84	88.65
08-Nov-18 11:00:00	08-Nov-18 12:00:00		0.71	0.00	0.00	5.94	2.1	329.7		0.24	0.00	0.00	1.96		10.35	18.92	83.84	86.68	08-Nov-18 11:00:00		10.59	18.92	83.84	88.64
08-Nov-18 12:00:00	08-Nov-18 13:00:00		1.48	0.00	0.00	5.91	2.1	329.7		0.49	0.00	0.00	1.95		10.35	18.92	83.84	86.68	08-Nov-18 12:00:00		10.84	18.92	83.84	88.63
08-Nov-18 13:00:00	08-Nov-18 14:00:00		2.25	0.00	0.00	5.74	2.1	329.7		0.74	0.00	0.00	1.89		10.35	18.92	83.84	86.68	08-Nov-18 13:00:00		11.09	18.92	83.84	88.57
08-Nov-18 14:00:00	08-Nov-18 15:00:00		1.56	0.00	0.00	5.61	2.1	329.7		0.51	0.00	0.00	1.85		10.35	18.92	83.84	86.68	08-Nov-18 14:00:00		10.86	18.92	83.84	88.53
08-Nov-18 15:00:00	08-Nov-18 16:00:00		4.35	0.00	0.00	5.51	2.1	329.7		1.43	0.00	0.00	1.82		10.35	18.92	83.84	86.68	08-Nov-18 15:00:00		11.78	18.92	83.84	88.50
08-Nov-18 16:00:00	08-Nov-18 17:00:00		4.12	0.00	0.00	5.41	2.1	329.7		1.36	0.00	0.00	1.78		10.35	18.92	83.84	86.68	08-Nov-18 16:00:00		11.71	18.92	83.84	88.46
08-Nov-18 17:00:00	08-Nov-18 18:00:00		4.97	0.00	0.00	5.30	2.1	329.7		1.64	0.00	0.00	1.75		10.35	18.92	83.84	86.68	08-Nov-18 17:00:00		11.99	18.92	83.84	88.43
08-Nov-18 18:00:00	08-Nov-18 19:00:00		5.61	0.00	0.00	5.40	2.1	329.7		1.85	0.00	0.00	1.78		10.35	18.92	83.84	86.68	08-Nov-18 18:00:00		12.20	18.92	83.84	88.46
08-Nov-18 19:00:00	08-Nov-18 20:00:00		5.12	0.00	0.00	5.52	2.1	329.7		1.69	0.00	0.00	1.82		10.35	18.92	83.84	86.68	08-Nov-18 19:00:00		12.04	18.92	83.84	88.50
08-Nov-18 20:00:00	08-Nov-18 21:00:00		4.64	0.00	0.00	5.65	2.1	329.7		1.53	0.00	0.00	1.86		10.35	18.92	83.84	86.68	08-Nov-18 20:00:00		11.88	18.92	83.84	88.54
08-Nov-18 21:00:00	08-Nov-18 22:00:00		4.19	0.00	0.00	5.82	2.1	329.7		1.38	0.00	0.00	1.92		10.35	18.92	83.84	86.68	08-Nov-18 21:00:00		11.73	18.92	83.84	88.60
08-Nov-18 22:00:00	08-Nov-18 23:00:00		4.45	0.00	0.00	5.95	2.1	329.7		1.47	0.00	0.00	1.96		10.35	18.92	83.84	86.68	08-Nov-18 22:00:00		11.82	18.92	83.84	88.64
08-Nov-18 23:00:00	09-Nov-18 00:00:00		2.10	0.00	0.00	6.07	2.1	329.7		0.69	0.00	0.00	2.00		10.35	18.92	83.84	86.68	08-Nov-18 23:00:00		11.04	18.92	83.84	88.68
09-Nov-18 00:00:00	09-Nov-18 01:00:00		2.20	0.00	0.00	6.19	2.1	329.7		0.73	0.00	0.00	2.04		10.35	18.92	83.84	86.68	09-Nov-18 00:00:00		11.08	18.92	83.84	88.72
09-Nov-18 01:00:00	09-Nov-18 02:00:00		2.75	0.00	0.00	6.20	2.1	329.7		0.91	0.00	0.00	2.04		10.35	18.92	83.84	86.68	09-Nov-18 01:00:00		11.26	18.92	83.84	88.72
09-Nov-18 02:00:00	09-Nov-18 03:00:00		4.01	0.00	0.00	6.31	2.1	329.7		1.32	0.00	0.00	2.08		10.35	18.92	83.84	86.68	09-Nov-18 02:00:00		11.67	18.92	83.84	88.76
09-Nov-18 03:00:00	09-Nov-18 04:00:00		4.43	0.00	0.00	6.46	2.1	329.7		1.46	0.00	0.00	2.13		10.35	18.92	83.84	86.68	09-Nov-18 03:00:00		11.81	18.92	83.84	88.81
09-Nov-18 04:00:00	09-Nov-18 05:00:00		0.59	0.00	0.00	6.61	2.1	329.7		0.19	0.00	0.00	2.18		10.35	18.92	83.84	86.68	09-Nov-18 04:00:00		10.54	18.92	83.84	88.86
09-Nov-18 05:00:00	09-Nov-18 06:00:00		0.49	0.00	0.00	6.93	2.1	329.7		0.16	0.00	0.00	2.29		10.35	18.92	83.84	86.68	09-Nov-18 05:00:00		10.51	18.92	83.84	88.97
09-Nov-18 06:00:00	09-Nov-18 07:00:00		3.00	0.00	0.00	7.02	2.1	329.7		0.99	0.00	0.00	2.31		10.35	18.92	83.84	86.68	09-Nov-18 06:00:00		11.34	18.92	83.84	88.99
09-Nov-18 07:00:00	09-Nov-18 08:00:00		0.27	0.00	0.00	7.03	2.1	329.7		0.09	0.00	0.00	2.32		10.35	18.92	83.84	86.68	09-Nov-18 07:00:00		10.44	18.92	83.84	89.00
09-Nov-18 08:00:00	09-Nov-18 09:00:00		0.00	0.00	0.00	7.05	2.1	329.7		0.00	0.00	0.00	2.33		10.35	18.92	83.84	86.68	09-Nov-18 08:00:00		10.35	18.92	83.84	89.01
09-Nov-18 09:00:00	09-Nov-18 10:00:00		0.00	0.00	0.00	6.93	2.1	329.7		0.00	0.00	0.00	2.28		10.35	18.92	83.84	86.68	09-Nov-18 09:00:00		10.35	18.92	83.84	88.96
09-Nov-18 10:00:00	09-Nov-18 11:00:00		0.00	0.00	0.00	6.68	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	09-Nov-18 10:00:00		10.35	18.92	83.84	88.88
09-Nov-18 11:00:00	09-Nov-18 12:00:00		0.00	0.00	0.00	6.44	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	09-Nov-18 11:00:00		10.35	18.92	83.84	88.80
09-Nov-18 12:00:00	09-Nov-18 13:00:00		0.00	0.00	0.00	6.20	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	09-Nov-18 12:00:00		10.35	18.92	83.84	88.73
09-Nov-18 13:00:00	09-Nov-18 14:00:00		0.00	0.00	0.00	6.09	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	09-Nov-18 13:00:00		10.35	18.92	83.84	88.69
09-Nov-18 14:00:00	09-Nov-18 15:00:00		0.00	0.00	0.00	6.09	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	09-Nov-18 14:00:00		10.35	18.92	83.84	88.69
09-Nov-18 15:00:00	09-Nov-18 16:00:00		0.00	0.00	0.00	6.07	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	09-Nov-18 15:00:00		10.35	18.92	83.84	88.68
09-Nov-18 16:00:00	09-Nov-18 17:00:00		0.00	0.00	0.00	6.05	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	09-Nov-18 16:00:00		10.35	18.92	83.84	88.68
09-Nov-18 17:00:00	09-Nov-18 18:00:00		0.00	0.00	0.00	6.02	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	09-Nov-18 17:00:00		10.35	18.92	83.84	88.67
09-Nov-18 18:00:00	09-Nov-18 19:00:00		0.00	0.00	0.00	6.09	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	09-Nov-18 18:00:00		10.35	18.92	83.84	88.69
09-Nov-18 19:00:00	09-Nov-18 20:00:00		0.00	0.00	0.00	6.18	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	09-Nov-18 19:00:00		10.35	18.92	83.84	88.72
09-Nov-18 20:00:00	09-Nov-18 21:00:00		0.00	0.00	0.00	6.27	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	09-Nov-18 20:00:00		10.35	18.92	83.84	88.75
09-Nov-18 21:00:00	09-Nov-18 22:00:00		0.00	0.00	0.00	6.49	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	09-Nov-18 21:00:00		10.35	18.92	83.84	88.82
09-Nov-18 22:00:00	09-Nov-18 23:00:00		0.00	0.00	0.00	6.50	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	09-Nov-18 22:00:00		10.35	18.92	83.84	88.82
09-Nov-18 23:00:00	10-Nov-18 00:00:00		0.00	0.00	0.00	6.44	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	09-Nov-18 23:00:00		10.35	18.92	83.84	88.80
10-Nov-18 00:00:00	10-Nov-18 01:00:00		0.00	0.00	0.00	6.39	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	10-Nov-18 00:00:00		10.35	18.92	83.84	88.79
10-Nov-18 01:00:00	10-Nov-18 02:00:00		0.00	0.00	0.00	6.37	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	10-Nov-18 01:00:00		10.35	18.92	83.84	88.78
10-Nov-18 02:00:00	10-Nov-18 03:00:00		0.00	0.00	0.00	6.25	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	10-Nov-18 02:00:00		10.35	18.92	83.84	88.74
10-Nov-18 03:00:00	10-Nov-18 04:00:00		0.00	0.00	0.00	6.10	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	10-Nov-18 03:00:00		10.35	18.92	83.84	88.69
10-Nov-18 04:00:00	10-Nov-18 05:00:00		0.00	0.00	0.00	5.95	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	10-Nov-18 04:00:00		10.35	18.92	83.84	88.64
10-Nov-18 05:00:00	10-Nov-18 06:00:00		0.00	0.00	0.00	5.84	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	10-Nov-18 05:00:00		10.35	18.92	83.84	88.60
10-Nov-18 06:00:00	10-Nov-18 07:00:00		0.00	0.00	0.00	5.95	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	10-Nov-18 06:00:00		10.35	18.92	83.84	88.64
10-Nov-18 07:00:00	10-Nov-18 08:00:00		0.00	0.00	0.00	6.10	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	10-Nov-18 07:00:00		10.35	18.92	83.84	88.69
10-Nov-18 08:00:00	10-Nov-18 09:00:00		0.00	0.00	0.00	6.25	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	10-Nov-18 08:00:00		10.35	18.92	83.84	88.74
10-Nov-18 09:00:00	10-Nov-18 10:00:00		0.00	0.00	0.00	6.14	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	10-Nov-18 09:00:00		10.35	18.92	83.84	88.71
10-Nov-18 10:00:00	10-Nov-18 11:00:00		0.00	0.00	0.00	6.00	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	10-Nov-18 10:00:00		10.35	18.92	83.84	88.66
10-Nov-18 11:00:00	10-Nov-18 12:00:00		0.43	0.00	0.00	5.93	2.1	329.7		0.14	0.00	0.00	1.95		10.35	18.92	83.84	86.68	10-Nov-18 11:00:00		10.49	18.92	83.84	88.63
10-Nov-18 12:00:00	10-Nov-18 13:00:00		1.77	0.00	0.00	5.85	2.1	329.7		0.58	0.00	0.00	1.93		10.35	18.92	83.84	86.68	10-Nov-18 12:00:00		10.93	18.92	83.84	88.61
10-Nov-18 13:00:00	10-Nov-18 14:00:00		1.99	0.00	0.00	5.89	2.1	329.7		0.66	0.00	0.00	1.94		10.35	18.92	83.84	86.68	10-Nov-18 13:00:00		11.01	18.92	83.84	88.62
10-Nov-18 14:00:00	10-Nov-18 15:00:00		0.07	0.00	0.00	5.92	2.1	329.7		0.02	0.00	0.00	1.95		10.35	18.92	83.84	86.68	10-Nov-18 14:00:00		10.37	18.92	83.84	88.63
10-Nov-18 15:00:00	10-Nov-18 16:00:00		0.07	0.00	0.00	5.92	2.1	329.7		0.02	0.00	0.00	1.95		10.35	18.92	83.84	86.68	10-Nov-18 15:00:00		10.37	18.92	83.84	88.63
10-Nov-18 16:00:00	10-Nov-18 17:00:00		0.08	0.00	0.00	5.91	2.1	329.7		0.03	0.00	0.00	1.95		10.35	18.92	83.84	86.68	10-Nov-18 16:00:00		10.38	18.92	83.84	88.63
10-Nov-18 17:00:00	10-Nov-18 18:00:00		0.10	0.00	0.00

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10³ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
12-Nov-18 19:00:00	12-Nov-18 20:00:00		0.00	0.00	0.00	7.06	2.1	329.7		0.00	0.00	0.00	2.33		10.35	18.92	83.84	86.68	12-Nov-18 19:00:00		10.35	18.92	83.84	89.01
12-Nov-18 20:00:00	12-Nov-18 21:00:00		0.00	0.00	0.00	7.04	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	12-Nov-18 20:00:00		10.35	18.92	83.84	89.00
12-Nov-18 21:00:00	12-Nov-18 22:00:00		0.00	0.00	0.00	20.93	2.1	329.7		0.00	0.00	0.00	6.90		10.35	18.92	83.84	86.68	12-Nov-18 21:00:00		10.35	18.92	83.84	93.58
12-Nov-18 22:00:00	12-Nov-18 23:00:00		0.00	0.00	0.00	6.77	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	12-Nov-18 22:00:00		10.35	18.92	83.84	88.91
12-Nov-18 23:00:00	13-Nov-18 00:00:00		0.00	0.00	0.00	6.54	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	12-Nov-18 23:00:00		10.35	18.92	83.84	88.84
13-Nov-18 00:00:00	13-Nov-18 01:00:00		0.00	0.00	0.00	6.31	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	13-Nov-18 00:00:00		10.35	18.92	83.84	88.76
13-Nov-18 01:00:00	13-Nov-18 02:00:00		0.00	0.00	0.00	6.17	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	13-Nov-18 01:00:00		10.35	18.92	83.84	88.72
13-Nov-18 02:00:00	13-Nov-18 03:00:00		0.00	0.00	0.00	6.29	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	13-Nov-18 02:00:00		10.35	18.92	83.84	88.75
13-Nov-18 03:00:00	13-Nov-18 04:00:00		0.00	0.00	0.00	11.91	2.1	329.7		0.00	0.00	0.00	3.93		10.35	18.92	83.84	86.68	13-Nov-18 03:00:00		10.35	18.92	83.84	90.61
13-Nov-18 04:00:00	13-Nov-18 05:00:00		0.00	0.00	0.00	6.19	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	13-Nov-18 04:00:00		10.35	18.92	83.84	88.72
13-Nov-18 05:00:00	13-Nov-18 06:00:00		0.00	0.00	0.00	6.11	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	13-Nov-18 05:00:00		10.35	18.92	83.84	88.69
13-Nov-18 06:00:00	13-Nov-18 07:00:00		0.00	0.00	0.00	6.03	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	13-Nov-18 06:00:00		10.35	18.92	83.84	88.67
13-Nov-18 07:00:00	13-Nov-18 08:00:00		0.00	0.00	0.00	6.01	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	13-Nov-18 07:00:00		10.35	18.92	83.84	88.66
13-Nov-18 08:00:00	13-Nov-18 09:00:00		0.00	0.00	0.00	5.93	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	13-Nov-18 08:00:00		10.35	18.92	83.84	88.63
13-Nov-18 09:00:00	13-Nov-18 10:00:00		0.00	0.00	0.00	5.84	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	13-Nov-18 09:00:00		10.35	18.92	83.84	88.61
13-Nov-18 10:00:00	13-Nov-18 11:00:00		0.00	0.00	0.00	5.75	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	13-Nov-18 10:00:00		10.35	18.92	83.84	88.58
13-Nov-18 11:00:00	13-Nov-18 12:00:00		0.00	0.00	0.00	5.61	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	13-Nov-18 11:00:00		10.35	18.92	83.84	88.53
13-Nov-18 12:00:00	13-Nov-18 13:00:00		0.00	0.00	0.00	5.49	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	13-Nov-18 12:00:00		10.35	18.92	83.84	88.49
13-Nov-18 13:00:00	13-Nov-18 14:00:00		0.75	0.00	0.00	5.38	2.1	329.7		0.25	0.00	0.00	1.77		10.35	18.92	83.84	86.68	13-Nov-18 13:00:00		10.60	18.92	83.84	88.45
13-Nov-18 14:00:00	13-Nov-18 15:00:00		3.67	0.00	0.00	5.27	2.1	329.7		1.21	0.00	0.00	1.74		10.35	18.92	83.84	86.68	13-Nov-18 14:00:00		11.56	18.92	83.84	88.42
13-Nov-18 15:00:00	13-Nov-18 16:00:00		5.15	0.00	0.00	5.19	2.1	329.7		1.70	0.00	0.00	1.71		10.35	18.92	83.84	86.68	13-Nov-18 15:00:00		12.05	18.92	83.84	88.39
13-Nov-18 16:00:00	13-Nov-18 17:00:00		4.97	0.00	0.00	5.13	2.1	329.7		1.64	0.00	0.00	1.69		10.35	18.92	83.84	86.68	13-Nov-18 16:00:00		11.99	18.92	83.84	88.37
13-Nov-18 17:00:00	13-Nov-18 18:00:00		2.74	0.00	0.00	5.08	2.1	329.7		0.90	0.00	0.00	1.67		10.35	18.92	83.84	86.68	13-Nov-18 17:00:00		11.25	18.92	83.84	88.35
13-Nov-18 18:00:00	13-Nov-18 19:00:00		4.86	0.00	0.00	5.02	2.1	329.7		1.60	0.00	0.00	1.66		10.35	18.92	83.84	86.68	13-Nov-18 18:00:00		11.95	18.92	83.84	88.34
13-Nov-18 19:00:00	13-Nov-18 20:00:00		11.08	0.00	0.00	5.08	2.1	329.7		3.65	0.00	0.00	1.67		10.35	18.92	83.84	86.68	13-Nov-18 19:00:00		14.00	18.92	83.84	88.35
13-Nov-18 20:00:00	13-Nov-18 21:00:00		12.67	0.00	0.00	5.17	2.1	329.7		4.18	0.00	0.00	1.70		10.35	18.92	83.84	86.68	13-Nov-18 20:00:00		14.53	18.92	83.84	88.38
13-Nov-18 21:00:00	13-Nov-18 22:00:00		13.45	0.00	0.00	5.25	2.1	329.7		4.43	0.00	0.00	1.73		10.35	18.92	83.84	86.68	13-Nov-18 21:00:00		14.78	18.92	83.84	88.41
13-Nov-18 22:00:00	13-Nov-18 23:00:00		13.73	0.00	0.00	5.33	2.1	329.7		4.53	0.00	0.00	1.76		10.35	18.92	83.84	86.68	13-Nov-18 22:00:00		14.88	18.92	83.84	88.44
13-Nov-18 23:00:00	14-Nov-18 00:00:00		14.01	0.00	0.00	5.44	2.1	329.7		4.62	0.00	0.00	1.79		10.35	18.92	83.84	86.68	13-Nov-18 23:00:00		14.97	18.92	83.84	88.47
14-Nov-18 00:00:00	14-Nov-18 01:00:00		8.36	0.00	0.00	5.59	2.1	329.7		2.76	0.00	0.00	1.84		10.35	18.92	83.84	86.68	14-Nov-18 00:00:00		13.11	18.92	83.84	88.52
14-Nov-18 01:00:00	14-Nov-18 02:00:00		3.37	0.00	0.00	5.75	2.1	329.7		1.11	0.00	0.00	1.89		10.35	18.92	83.84	86.68	14-Nov-18 01:00:00		11.46	18.92	83.84	88.57
14-Nov-18 02:00:00	14-Nov-18 03:00:00		2.90	0.00	0.00	59.99	2.1	329.7		0.95	0.00	0.00	19.78		10.35	18.92	83.84	86.68	14-Nov-18 02:00:00		11.30	18.92	83.84	106.46
14-Nov-18 03:00:00	14-Nov-18 04:00:00		2.42	0.00	0.00	5.94	2.1	329.7		0.80	0.00	0.00	1.96		10.35	18.92	83.84	86.68	14-Nov-18 03:00:00		11.15	18.92	83.84	88.64
14-Nov-18 04:00:00	14-Nov-18 05:00:00		2.15	0.00	0.00	6.02	2.1	329.7		0.71	0.00	0.00	1.99		10.35	18.92	83.84	86.68	14-Nov-18 04:00:00		11.06	18.92	83.84	88.67
14-Nov-18 05:00:00	14-Nov-18 06:00:00		2.46	0.00	0.00	6.10	2.1	329.7		0.81	0.00	0.00	2.01		10.35	18.92	83.84	86.68	14-Nov-18 05:00:00		11.16	18.92	83.84	88.69
14-Nov-18 06:00:00	14-Nov-18 07:00:00		2.79	0.00	0.00	6.05	2.1	329.7		0.92	0.00	0.00	1.99		10.35	18.92	83.84	86.68	14-Nov-18 06:00:00		11.27	18.92	83.84	88.67
14-Nov-18 07:00:00	14-Nov-18 08:00:00		3.11	0.00	0.00	5.97	2.1	329.7		1.03	0.00	0.00	1.97		10.35	18.92	83.84	86.68	14-Nov-18 07:00:00		11.38	18.92	83.84	88.65
14-Nov-18 08:00:00	14-Nov-18 09:00:00		3.20	0.00	0.00	6.07	2.1	329.7		1.06	0.00	0.00	2.00		10.35	18.92	83.84	86.68	14-Nov-18 08:00:00		11.41	18.92	83.84	88.68
14-Nov-18 09:00:00	14-Nov-18 10:00:00		1.75	0.00	0.00	6.17	2.1	329.7		0.58	0.00	0.00	2.03		10.35	18.92	83.84	86.68	14-Nov-18 09:00:00		10.93	18.92	83.84	88.71
14-Nov-18 10:00:00	14-Nov-18 11:00:00		4.02	0.00	0.00	6.11	2.1	329.7		1.33	0.00	0.00	2.02		10.35	18.92	83.84	86.68	14-Nov-18 10:00:00		11.68	18.92	83.84	88.70
14-Nov-18 11:00:00	14-Nov-18 12:00:00		6.83	0.00	0.00	5.98	2.1	329.7		2.25	0.00	0.00	1.97		10.35	18.92	83.84	86.68	14-Nov-18 11:00:00		12.60	18.92	83.84	88.65
14-Nov-18 12:00:00	14-Nov-18 13:00:00		1.50	0.00	0.00	6.04	2.1	329.7		0.49	0.00	0.00	1.99		10.35	18.92	83.84	86.68	14-Nov-18 12:00:00		10.84	18.92	83.84	88.67
14-Nov-18 13:00:00	14-Nov-18 14:00:00		1.03	0.00	0.00	6.11	2.1	329.7		0.34	0.00	0.00	2.01		10.35	18.92	83.84	86.68	14-Nov-18 13:00:00		10.69	18.92	83.84	88.69
14-Nov-18 14:00:00	14-Nov-18 15:00:00		0.57	0.00	0.00	6.18	2.1	329.7		0.19	0.00	0.00	2.04		10.35	18.92	83.84	86.68	14-Nov-18 14:00:00		10.54	18.92	83.84	88.72
14-Nov-18 15:00:00	14-Nov-18 16:00:00		0.15	0.00	0.00	6.19	2.1	329.7		0.05	0.00	0.00	2.04		10.35	18.92	83.84	86.68	14-Nov-18 15:00:00		10.40	18.92	83.84	88.72
14-Nov-18 16:00:00	14-Nov-18 17:00:00		0.62	0.00	0.00	6.16	2.1	329.7		0.20	0.00	0.00	2.03		10.35	18.92	83.84	86.68	14-Nov-18 16:00:00		10.55	18.92	83.84	88.71
14-Nov-18 17:00:00	14-Nov-18 18:00:00		1.43	0.00	0.00	6.13	2.1	329.7		0.47	0.00	0.00	2.02		10.35	18.92	83.84	86.68	14-Nov-18 17:00:00		10.82	18.92	83.84	88.70
14-Nov-18 18:00:00	14-Nov-18 19:00:00		0.86	0.00	0.00	6.10	2.1	329.7		0.28	0.00	0.00	2.01		10.35	18.92	83.84	86.68	14-Nov-18 18:00:00		10.63	18.92	83.84	88.69
14-Nov-18 19:00:00	14-Nov-18 20:00:00		2.25	0.00	0.00	6.23	2.1	329.7		0.74	0.00	0.00	2.05		10.35	18.92	83.84	86.68	14-Nov-18 19:00:00		11.09	18.92	83.84	88.73
14-Nov-18 20:00:00	14-Nov-18 21:00:00		10.53	0.00	0.00	6.42	2.1	329.7		3.47	0.00	0.00	2.12		10.35	18.92	83.84	86.68	14-Nov-18 20:00:00		13.82	18.92	83.84	88.80
14-Nov-18 21:00:00	14-Nov-18 22:00:00		2.32	0.00	0.00	6.61	2.1	329.7		0.76	0.00	0.00	2.18		10.35	18.92	83.84	86.68	14-Nov-18 21:00:00		11.11	18.92	83.84	88.86
14-Nov-18 22:00:00	14-Nov-18 23:00:00		0.00	0.00	0.00	6.76	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	14-Nov-18 22:00:00		10.35	18.92	83.84	88.91
14-Nov-18 23:00:00	15-Nov-18 00:00:00		0.16	0.00	0.00	6.76	2.1	329.7		0.05	0.00	0.00	2.23		10.35	18.92	83.84	86.68	14-Nov-18 23:00:00		10.40	18.92	83.84	88.91
15-Nov-18 00:00:00	15-Nov-18 01:00:00		0.06	0.00	0.00	6.78	2.1	329.7		0.02	0.00	0.00	2.24		10.35	18.92	83.84	86.68	15-Nov-18 00:00:00		10.37	18.92	83.84	88.92
15-Nov-18 01:00:00	15-Nov-18 02:00:00		2.97	0.00	0.00	6.80	2.1	329.7		0.98	0.00	0.00	2.24		10.35	18.92	83.84	86.68	15-Nov-18 01:00:00		11.33	18.92	83.84	88.92
15-Nov-18 02:00:00	15-Nov-18 03:00:00		8.54	0.00	0.00	6.84	2.1	329.7		2.81	0.00	0.00	2.26		10.35	18.92	83.84	86.68	15-Nov-18 02:00:00		13.16	18.92	83.84	88.94
15-Nov-18 03:00:00	15-Nov-18 04:00:00		12.39	0.00	0.00	6.89	2.1	329.7		4.08	0.00	0.00	2.27		10.35	18.92	83.84	86.68	15-Nov-18 03:00:00		14.43	18.92	83.84	88.95
15-Nov-18 04:00:00	15-Nov-18 05:00:00		34.49	0.00	0.00	6.91	2.1	329.7		11.37	0.00	0.00	2.28		10.35	18.92	83.84	86.68	15-Nov-18 04:00:00		21.72	18.92	83.84	88.96
15-Nov-18 05:00:00	15-Nov-18 06:00:00		35.73	0.00	0.00	6.93	2.1	329.7		11.78	0.00	0.00	2.28		10.35	18.92	83.84	86.68	15-Nov-18 05:00:00		22.13	18.92	83.84	88.96
15-Nov-18 06:00:00	15-Nov-18 07:00:00		36.08	0.00	0.00	6.90	2.1	329.7		11.90	0.00	0.00	2.28		10.35	18.92	83.84	86.68	15-Nov-18 06:00:00		22.25	18.92	83.84	88.96
15-Nov-18 07:00:00	15-Nov-18 08:00:00		31.52	0.00	0.00	6.79	2.1	329.7		10.39	0.00	0.00	2.24		10.35	18.92	83.84	86.68	15-Nov-18 07:00:00		20.74	18.92	83.84	88.92
15-Nov-18 08:00:00	15-Nov-18 09:00:00		30.60	0.00	0.00	6.71	2.1	329.7		10.09	0.00	0.00	2.21		10.35	18.92	83.84	86.68	15-Nov-18 08:00:00		20.44	18.92	83.84	88.89
15-Nov-18 09:00:00	15-Nov-18 10:00:00		29.96	0.00	0.00	6.63	2.1	329.7		9.88	0.00	0.00	2.19		10.35	18.92	83.84	86.68	15-Nov-18 09:00:00		20.23	18.92	83.84	88.87
15-Nov-18 10:00:00	15-Nov-18 11:00:00		279.14	150.82	0.00	6.52	2.1	329.7		92.03	49.73	0.00	2.15		10.35	18.92	83.84	86.68	15-Nov-18 10:00:00		102.38	68.65	83.84	88.83
15-Nov-18 11:00:00	15-Nov-18 12:00:00		295.05	0.00	0.00	6.35	2.1	329.7		97.28	0.00	0.00	2.09		10.35	18.92	83.84	86.68	15-Nov-18 11:00:00		107.63	18.92	83.84	88.77
15-Nov-18 12:00:00	15-Nov-18 13:00:00		325.00	31.68	0.00	6.23	2.1	329.7		107.15	10.45	0.00	2.05		10.35	18.92	83.84	86.68	15-Nov-18 12:00:00		117.50	29.37	83.84	88.73
15-Nov-18 13:00:00	15-Nov-18 14:00:00		358.03	451.25	0.00	6.10	2.1	329.7		118.04	148.78	0.00	2.01		10.35	18.92	83.84	86.68	15-Nov-18 13:00:00		128.39	167.70	83.84	88.69
15-Nov-18 14:00:00	15-Nov-18 15:00:00		311.77	480.38	0.00	5.96	2.1	329.7		102.79	158.38	0.00	1.96		10.35	18.92	83.84	86.68	15-Nov-18 14:00:00		113.14	177.30	83.84	88.64
15-Nov-18 15:00:00	15-Nov-18 16:00:00		305.09	492.77	0.00	21.16	2.1	329.7		100.59	162.47	0.00	6.97		10.35	18.92	83.84	86.68	15-Nov-18 15:00:00		110.94	181.39	83.84	93.65
15-Nov-18 16:00:00	15-Nov-18 17:00:00		303.18	475.57	0.00	6.01	2.1	329.7		99.96	156.80	0.00	1.98		10.35	18.92	83.84	86.68	15-Nov-18 16:00:00		110.31	175.72	83.84	88.66
15-Nov-18 17:00:00	15-Nov-18 18:00:00		302.29	401.59	0.00	6.17	2.1	329.7		99.67	132.40	0.00	2.04		10.35	18.92	83.84	86.68	15-Nov-18 17:00:00		110.02	151.32	83.84	88.72
15-Nov-18 18:00:00	15-Nov-18 19:00:00		303.60	401.57	0.00	6.34	2.1	329.7		100.10	132.40	0.00	2.09		10.35	18.92	83.84	86.68	15-Nov-18 18:00:00		110.45	151.32	83.84	88.77
15-Nov-18 19:00:00	15-Nov-18 20:00:00		87.26	400.96	0.00	6.33	2.1	329.7		28.77	132.20	0.00	2.09		10.35	18.92	83.84	86.68	15-Nov-18 19:00:00		39.12	151.12	83.84	88.77
15-Nov-18 20:00:00	15-Nov-18 21:00:00		223.51	403.62	0.00	6.21	2.1	329.7		73.69	133.07	0.00	2.05		10.35	18.92	83.84	86.68	15-Nov-18 20:00:00		84.04	151.99	83.84	88.73
15-Nov-18 21:00:00	15-Nov-18 22:00:00		285.04	447.10	0.00	6.14	2.1	329.7		93.98	147.41	0.00	2.02		10.35	18.92	83.84	86.68	15-Nov-18 21:00:00		104.33	166.33	83.84	88.70
15-Nov-18 22:00:00	15-Nov-18 23:00:00		308.61	464.39	0.00	6.07	2.1	329.7		101.75	153.11	0.00	2.00		10.35	18.92	83.84	86.68	15-Nov-18 22:00:00		112.10	172.03	83.84	88.68
15-Nov-18 23:00:00	16-Nov-18 00:00:00		301.58	464.88	0.00	6.12	2.1	329.7		99.43	153.27	0.00	2.02		10.35	18.92	83.84	86.68	15-Nov-18 23:00:00		109.78	172.19	83.84	88.70
16-Nov-18 00:00:00	16-Nov-18 01:00:00		303.63	465.14	0.00	6.38	2.1	329.7		100.11	153.36	0.00	2.10		10.35	18.92	83.84	86.68	16-Nov-18 00:00:00		110.46	172.28	83.84	88.78
16-Nov-18 01:00:00	16-Nov-18 02:00:00		303.85	428.22	0.00	6.63	2.1	329.7		100.18	141.19	0.00	2.19		10.35	18.92	83.84	86.68	16-Nov-18 01:00:00		110.53	160.11	83.84	88.87
16-Nov-18 02:00:00	16-Nov-18 03:00:00		297.73	349.17	0.00	6.88	2.1	329.7		98.16	115.12	0.00	2.27		10.35	18.92	83.84	86.68	16-Nov-18 02:00:00		108.51	134.04	83.84	88.95
16-Nov-18 03:00:00	16-Nov-18 04:00:00		322.09	377.44	0.00	6.97	2.1	329.7		106.19	124.44	0.00	2.30		10.35	18.92	83.84	86.68	16-Nov-18 03:00:00		116.54	143.36	83.84	88.98
16-Nov-18 04:00:00	16-Nov-18 05:00:00		353.12	363.01	0.00	6.96	2.1	329.7		116.42	119.68	0.00	2.29		10.35	18.92	83.84	86.68	16-Nov-18 04:00:00		126.77	138.60	83.84	88.97
16-Nov-18 05:00:00	16-Nov-18 06:00:00		447.59	350.64	0.00	6.99	2.1	329.7		147.57	115.61	0.00	2.30		10.35	18.92	83.84	86.68	16-Nov-18 05:00:00		157.92	134.53	83.84	88.98
16-Nov-18 06:00:00	16-Nov-18 07:00:00		449.53	431.68	0.00	7.02	2.1	329.7		148.21	142.33	0.00	2.31		10.35	18.92	83.84	86.68	16-Nov-18 06:00:00		158.56	161.25	83.84	88.99
16-Nov-18 07:00:00	16-Nov-18 08:00:00		372.79	473.19	0.00	6.91	2.1	329.7		122.91	156.01	0.00	2.28		10.35	18.92	83.84	86.68	16-Nov-18 07:00:00		133.26	174.93	83.84	88.96
16-Nov-18 08:00:00	16-Nov-18 09:00:00		300.05	419.02	0.00	6.69	2.1	329.7		98.93	138.15	0.00	2.21		10.35	18.92	83.84	86.68	16-Nov-18 08:00:00		109.28	157.07	83.84	88.89
16-Nov-18 09:00:00	16-Nov-18 10:00:00		408.40	510.76	0.00	6.50	2.1	329.7		134.65	168.40	0.00	2.14		10.35	18.92	83.84	86.68	16-Nov-18 09:00:00		145.00	187.32	83.84	88.82
16-Nov-18 10:00:00	16-Nov-18 11:00:00		412.53	497.57	0.00	6.31	2.1	329.7		136.01	164.05	0.00	2.08		10.35	18.92	83.84	86.68	16-Nov-18 10:00:00		146.36	182.97	83.84	88.76
16-Nov-18 11:00:00	16-Nov-18 12:00:00		358.81	348.97	0.00	6.07	2.1	329.7		118.30	115.05	0.00	2.00		10.35	18.92	83.84	86.68	16-Nov-18 11:00:00		128.65	133.97	83.84	88.68
16-Nov-18 12:00:00	16-Nov-18 13:00:00		360.43	349.37	0.00	5.78	2.1	329.7		118.83	115.19	0.00	1.91		10.35	18.92	83.84	86.68	16-Nov-18 12:00:00		129.18	134.11	83.84	88.59
16-Nov-18 13:00:00	16-Nov-18 14:00:00		356.41	375.86	0.00	5.52	2.1	329.7		117.51	123.92	0.00	1.82		10.35	18.92	83.84	86.68	16-Nov-18 13:00:00		127.86	142.84	83.84	88.50
16-Nov-18 14:00:00	16-Nov-18 15:00:00		362.20	389.66	0.00	5.25	2.1	329.7		119.42	128.47	0.00	1.73		10.35	18.92	83.84	86.68	16-Nov-18 14:00:00		129.77	147.39	83.84	88.41
16-Nov-18 15:00:00	16-Nov-18 16:00:00		324.10	408.12	0.00	5.00	2.1	329.7		106.86	134.56	0.00	1.65		10.35	18.92	83.84	86.68	16-Nov-18 15:00:00		117.21	153.48	83.84	88.33
16-Nov-18 16:00:00	16-Nov-18 17:00:00		69.06	31.35	0.00	5.01	2.

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
18-Nov-18 18:00:00	18-Nov-18 19:00:00		609.07	0.00	0.00	5.10	2.1	329.7		200.81	0.00	0.00	1.68		10.35	18.92	83.84	86.68	18-Nov-18 18:00:00		**211.16**	**18.92**	**83.84**	**88.36**
18-Nov-18 19:00:00	18-Nov-18 20:00:00		591.05	0.00	0.00	5.27	2.1	329.7		194.87	0.00	0.00	1.74		10.35	18.92	83.84	86.68	18-Nov-18 19:00:00		**205.22**	**18.92**	**83.84**	**88.42**
18-Nov-18 20:00:00	18-Nov-18 21:00:00		563.89	0.00	0.00	5.40	2.1	329.7		185.92	0.00	0.00	1.78		10.35	18.92	83.84	86.68	18-Nov-18 20:00:00		**196.27**	**18.92**	**83.84**	**88.46**
18-Nov-18 21:00:00	18-Nov-18 22:00:00		563.30	0.00	0.00	5.42	2.1	329.7		185.72	0.00	0.00	1.79		10.35	18.92	83.84	86.68	18-Nov-18 21:00:00		**196.07**	**18.92**	**83.84**	**88.47**
18-Nov-18 22:00:00	18-Nov-18 23:00:00		564.88	0.00	0.00	5.46	2.1	329.7		186.24	0.00	0.00	1.80		10.35	18.92	83.84	86.68	18-Nov-18 22:00:00		**196.59**	**18.92**	**83.84**	**88.48**
18-Nov-18 23:00:00	19-Nov-18 00:00:00		620.51	0.00	0.00	5.51	2.1	329.7		204.58	0.00	0.00	1.82		10.35	18.92	83.84	86.68	18-Nov-18 23:00:00		**214.93**	**18.92**	**83.84**	**88.50**
19-Nov-18 00:00:00	19-Nov-18 01:00:00		642.92	0.00	0.00	5.58	2.1	329.7		211.97	0.00	0.00	1.84		10.35	18.92	83.84	86.68	19-Nov-18 00:00:00		**222.32**	**18.92**	**83.84**	**88.52**
19-Nov-18 01:00:00	19-Nov-18 02:00:00		642.43	0.00	0.00	5.65	2.1	329.7		211.81	0.00	0.00	1.86		10.35	18.92	83.84	86.68	19-Nov-18 01:00:00		**222.16**	**18.92**	**83.84**	**88.54**
19-Nov-18 02:00:00	19-Nov-18 03:00:00		642.84	0.00	0.00	5.68	2.1	329.7		211.95	0.00	0.00	1.87		10.35	18.92	83.84	86.68	19-Nov-18 02:00:00		**222.30**	**18.92**	**83.84**	**88.55**
19-Nov-18 03:00:00	19-Nov-18 04:00:00		612.73	0.00	0.00	5.72	2.1	329.7		202.02	0.00	0.00	1.88		10.35	18.92	83.84	86.68	19-Nov-18 03:00:00		**212.37**	**18.92**	**83.84**	**88.56**
19-Nov-18 04:00:00	19-Nov-18 05:00:00		608.38	0.00	0.00	5.80	2.1	329.7		200.58	0.00	0.00	1.91		10.35	18.92	83.84	86.68	19-Nov-18 04:00:00		**210.93**	**18.92**	**83.84**	**88.59**
19-Nov-18 05:00:00	19-Nov-18 06:00:00		620.65	0.00	0.00	5.88	2.1	329.7		204.63	0.00	0.00	1.94		10.35	18.92	83.84	86.68	19-Nov-18 05:00:00		**214.98**	**18.92**	**83.84**	**88.62**
19-Nov-18 06:00:00	19-Nov-18 07:00:00		652.55	0.00	0.00	5.92	2.1	329.7		215.15	0.00	0.00	1.95		10.35	18.92	83.84	86.68	19-Nov-18 06:00:00		**225.50**	**18.92**	**83.84**	**88.63**
19-Nov-18 07:00:00	19-Nov-18 08:00:00		700.55	0.00	0.00	5.95	2.1	329.7		230.97	0.00	0.00	1.96		10.35	18.92	83.84	86.68	19-Nov-18 07:00:00		**241.32**	**18.92**	**83.84**	**88.64**
19-Nov-18 08:00:00	19-Nov-18 09:00:00		226.20	0.00	0.00	6.03	2.1	329.7		74.58	0.00	0.00	1.99		10.35	18.92	83.84	86.68	19-Nov-18 08:00:00		**84.93**	**18.92**	**83.84**	**88.67**
19-Nov-18 09:00:00	19-Nov-18 10:00:00		31.20	0.00	0.00	5.83	2.1	329.7		10.29	0.00	0.00	1.92		10.35	18.92	83.84	86.68	19-Nov-18 09:00:00		**20.64**	**18.92**	**83.84**	**88.60**
19-Nov-18 10:00:00	19-Nov-18 11:00:00		17.58	0.00	0.00	5.46	2.1	329.7		5.80	0.00	0.00	1.80		10.35	18.92	83.84	86.68	19-Nov-18 10:00:00		**16.15**	**18.92**	**83.84**	**88.48**
19-Nov-18 11:00:00	19-Nov-18 12:00:00		4.98	0.00	0.00	5.09	2.1	329.7		1.64	0.00	0.00	1.68		10.35	18.92	83.84	86.68	19-Nov-18 11:00:00		**11.99**	**18.92**	**83.84**	**88.36**
19-Nov-18 12:00:00	19-Nov-18 13:00:00		11.90	0.00	0.00	4.78	2.1	329.7		3.92	0.00	0.00	1.58		10.35	18.92	83.84	86.68	19-Nov-18 12:00:00		**14.27**	**18.92**	**83.84**	**88.26**
19-Nov-18 13:00:00	19-Nov-18 14:00:00		2.09	0.00	0.00	4.76	2.1	329.7		0.69	0.00	0.00	1.57		10.35	18.92	83.84	86.68	19-Nov-18 13:00:00		**11.04**	**18.92**	**83.84**	**88.25**
19-Nov-18 14:00:00	19-Nov-18 15:00:00		6.55	0.00	0.00	4.76	2.1	329.7		2.16	0.00	0.00	1.57		10.35	18.92	83.84	86.68	19-Nov-18 14:00:00		**12.51**	**18.92**	**83.84**	**88.25**
19-Nov-18 15:00:00	19-Nov-18 16:00:00		1.42	0.00	0.00	4.77	2.1	329.7		0.47	0.00	0.00	1.57		10.35	18.92	83.84	86.68	19-Nov-18 15:00:00		**10.82**	**18.92**	**83.84**	**88.25**
19-Nov-18 16:00:00	19-Nov-18 17:00:00		0.96	0.00	0.00	4.73	2.1	329.7		0.32	0.00	0.00	1.56		10.35	18.92	83.84	86.68	19-Nov-18 16:00:00		**10.67**	**18.92**	**83.84**	**88.24**
19-Nov-18 17:00:00	19-Nov-18 18:00:00		0.58	0.00	0.00	4.82	2.1	329.7		0.19	0.00	0.00	1.59		10.35	18.92	83.84	86.68	19-Nov-18 17:00:00		**10.54**	**18.92**	**83.84**	**88.27**
19-Nov-18 18:00:00	19-Nov-18 19:00:00		0.20	0.00	0.00	5.02	2.1	329.7		0.07	0.00	0.00	1.66		10.35	18.92	83.84	86.68	19-Nov-18 18:00:00		**10.42**	**18.92**	**83.84**	**88.34**
19-Nov-18 19:00:00	19-Nov-18 20:00:00		0.00	0.00	0.00	5.23	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	19-Nov-18 19:00:00		**10.35**	**18.92**	**83.84**	**88.41**
19-Nov-18 20:00:00	19-Nov-18 21:00:00		0.23	0.00	0.00	5.43	2.1	329.7		0.07	0.00	0.00	1.79		10.35	18.92	83.84	86.68	19-Nov-18 20:00:00		**10.42**	**18.92**	**83.84**	**88.47**
19-Nov-18 21:00:00	19-Nov-18 22:00:00		0.00	0.00	0.00	5.48	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	19-Nov-18 21:00:00		**10.35**	**18.92**	**83.84**	**88.49**
19-Nov-18 22:00:00	19-Nov-18 23:00:00		2.51	0.00	0.00	5.48	2.1	329.7		0.83	0.00	0.00	1.81		10.35	18.92	83.84	86.68	19-Nov-18 22:00:00		**11.18**	**18.92**	**83.84**	**88.49**
19-Nov-18 23:00:00	20-Nov-18 00:00:00		1.29	0.00	0.00	5.49	2.1	329.7		0.43	0.00	0.00	1.81		10.35	18.92	83.84	86.68	19-Nov-18 23:00:00		**10.78**	**18.92**	**83.84**	**88.49**
20-Nov-18 00:00:00	20-Nov-18 01:00:00		0.81	0.00	0.00	5.49	2.1	329.7		0.27	0.00	0.00	1.81		10.35	18.92	83.84	86.68	20-Nov-18 00:00:00		**10.62**	**18.92**	**83.84**	**88.49**
20-Nov-18 01:00:00	20-Nov-18 02:00:00		0.33	0.00	0.00	5.53	2.1	329.7		0.11	0.00	0.00	1.82		10.35	18.92	83.84	86.68	20-Nov-18 01:00:00		**10.46**	**18.92**	**83.84**	**88.50**
20-Nov-18 02:00:00	20-Nov-18 03:00:00		18.38	0.00	0.00	5.61	2.1	329.7		6.06	0.00	0.00	1.85		10.35	18.92	83.84	86.68	20-Nov-18 02:00:00		**16.41**	**18.92**	**83.84**	**88.53**
20-Nov-18 03:00:00	20-Nov-18 04:00:00		0.00	0.00	0.00	5.69	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	20-Nov-18 03:00:00		**10.35**	**18.92**	**83.84**	**88.56**
20-Nov-18 04:00:00	20-Nov-18 05:00:00		0.00	0.00	0.00	5.77	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	20-Nov-18 04:00:00		**10.35**	**18.92**	**83.84**	**88.58**
20-Nov-18 05:00:00	20-Nov-18 06:00:00		0.00	0.00	0.00	5.72	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	20-Nov-18 05:00:00		**10.35**	**18.92**	**83.84**	**88.57**
20-Nov-18 06:00:00	20-Nov-18 07:00:00		0.00	0.00	0.00	5.60	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	20-Nov-18 06:00:00		**10.35**	**18.92**	**83.84**	**88.53**
20-Nov-18 07:00:00	20-Nov-18 08:00:00		0.00	0.00	0.00	5.49	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	20-Nov-18 07:00:00		**10.35**	**18.92**	**83.84**	**88.49**
20-Nov-18 08:00:00	20-Nov-18 09:00:00		0.00	0.00	0.00	5.38	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	20-Nov-18 08:00:00		**10.35**	**18.92**	**83.84**	**88.45**
20-Nov-18 09:00:00	20-Nov-18 10:00:00		0.00	0.00	0.00	5.35	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	20-Nov-18 09:00:00		**10.35**	**18.92**	**83.84**	**88.44**
20-Nov-18 10:00:00	20-Nov-18 11:00:00		0.00	0.00	0.00	5.34	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	20-Nov-18 10:00:00		**10.35**	**18.92**	**83.84**	**88.44**
20-Nov-18 11:00:00	20-Nov-18 12:00:00		0.00	133.93	0.00	5.33	2.1	329.7		0.00	44.16	0.00	1.76		10.35	18.92	83.84	86.68	20-Nov-18 11:00:00		**10.35**	**63.08**	**83.84**	**88.44**
20-Nov-18 12:00:00	20-Nov-18 13:00:00		0.00	222.24	0.00	5.33	2.1	329.7		0.00	73.27	0.00	1.76		10.35	18.92	83.84	86.68	20-Nov-18 12:00:00		**10.35**	**92.19**	**83.84**	**88.44**
20-Nov-18 13:00:00	20-Nov-18 14:00:00		0.35	484.74	0.00	5.18	2.1	329.7		0.12	159.82	0.00	1.71		10.35	18.92	83.84	86.68	20-Nov-18 13:00:00		**10.47**	**178.74**	**83.84**	**88.39**
20-Nov-18 14:00:00	20-Nov-18 15:00:00		13.58	648.48	0.00	4.93	2.1	329.7		4.48	213.80	0.00	1.63		10.35	18.92	83.84	86.68	20-Nov-18 14:00:00		**14.83**	**232.72**	**83.84**	**88.31**
20-Nov-18 15:00:00	20-Nov-18 16:00:00		22.05	662.63	0.00	4.69	2.1	329.7		7.27	218.47	0.00	1.55		10.35	18.92	83.84	86.68	20-Nov-18 15:00:00		**17.62**	**237.39**	**83.84**	**88.23**
20-Nov-18 16:00:00	20-Nov-18 17:00:00		260.35	661.29	0.00	4.50	2.1	329.7		85.84	218.03	0.00	1.48		10.35	18.92	83.84	86.68	20-Nov-18 16:00:00		**96.19**	**236.95**	**83.84**	**88.16**
20-Nov-18 17:00:00	20-Nov-18 18:00:00		428.15	662.82	0.00	114.65	2.1	329.7		141.16	218.53	0.00	37.80		10.35	18.92	83.84	86.68	20-Nov-18 17:00:00		**151.51**	**237.45**	**83.84**	**124.48**
20-Nov-18 18:00:00	20-Nov-18 19:00:00		319.72	517.48	0.00	5.00	2.1	329.7		105.41	170.61	0.00	1.65		10.35	18.92	83.84	86.68	20-Nov-18 18:00:00		**115.76**	**189.53**	**83.84**	**88.33**
20-Nov-18 19:00:00	20-Nov-18 20:00:00		261.25	433.01	0.00	5.27	2.1	329.7		86.14	142.76	0.00	1.74		10.35	18.92	83.84	86.68	20-Nov-18 19:00:00		**96.49**	**161.68**	**83.84**	**88.42**
20-Nov-18 20:00:00	20-Nov-18 21:00:00		252.94	425.32	0.00	5.53	2.1	329.7		83.39	140.23	0.00	1.82		10.35	18.92	83.84	86.68	20-Nov-18 20:00:00		**93.74**	**159.15**	**83.84**	**88.50**
20-Nov-18 21:00:00	20-Nov-18 22:00:00		332.26	557.05	0.00	5.86	2.1	329.7		109.55	183.66	0.00	1.93		10.35	18.92	83.84	86.68	20-Nov-18 21:00:00		**119.90**	**202.58**	**83.84**	**88.61**
20-Nov-18 22:00:00	20-Nov-18 23:00:00		346.34	596.60	0.00	6.09	2.1	329.7		114.19	196.70	0.00	2.01		10.35	18.92	83.84	86.68	20-Nov-18 22:00:00		**124.54**	**215.62**	**83.84**	**88.69**
20-Nov-18 23:00:00	21-Nov-18 00:00:00		401.95	621.52	0.00	6.26	2.1	329.7		132.52	204.91	0.00	2.06		10.35	18.92	83.84	86.68	20-Nov-18 23:00:00		**142.87**	**223.83**	**83.84**	**88.74**
21-Nov-18 00:00:00	21-Nov-18 01:00:00		401.15	610.67	0.00	6.43	2.1	329.7		132.26	201.34	0.00	2.12		10.35	18.92	83.84	86.68	21-Nov-18 00:00:00		**142.61**	**220.26**	**83.84**	**88.80**
21-Nov-18 01:00:00	21-Nov-18 02:00:00		434.42	665.83	0.00	6.71	2.1	329.7		143.23	219.52	0.00	2.21		10.35	18.92	83.84	86.68	21-Nov-18 01:00:00		**153.58**	**238.44**	**83.84**	**88.89**
21-Nov-18 02:00:00	21-Nov-18 03:00:00		405.76	638.40	0.00	6.87	2.1	329.7		133.78	210.48	0.00	2.26		10.35	18.92	83.84	86.68	21-Nov-18 02:00:00		**144.13**	**229.40**	**83.84**	**88.94**
21-Nov-18 03:00:00	21-Nov-18 04:00:00		400.31	302.36	0.00	6.92	2.1	329.7		131.98	99.69	0.00	2.28		10.35	18.92	83.84	86.68	21-Nov-18 03:00:00		**142.33**	**118.61**	**83.84**	**88.96**
21-Nov-18 04:00:00	21-Nov-18 05:00:00		322.40	216.26	0.00	6.98	2.1	329.7		106.29	71.30	0.00	2.30		10.35	18.92	83.84	86.68	21-Nov-18 04:00:00		**116.64**	**90.22**	**83.84**	**88.98**
21-Nov-18 05:00:00	21-Nov-18 06:00:00		364.47	179.32	0.00	7.06	2.1	329.7		120.17	59.12	0.00	2.33		10.35	18.92	83.84	86.68	21-Nov-18 05:00:00		**130.52**	**78.04**	**83.84**	**89.01**
21-Nov-18 06:00:00	21-Nov-18 07:00:00		343.35	501.55	0.00	7.05	2.1	329.7		113.20	165.36	0.00	2.32		10.35	18.92	83.84	86.68	21-Nov-18 06:00:00		**123.55**	**184.28**	**83.84**	**89.00**
21-Nov-18 07:00:00	21-Nov-18 08:00:00		303.91	1,011.91	0.00	7.00	2.1	329.7		100.20	333.63	0.00	2.31		10.35	18.92	83.84	86.68	21-Nov-18 07:00:00		**110.55**	**352.55**	**83.84**	**88.99**
21-Nov-18 08:00:00	21-Nov-18 09:00:00		183.99	763.52	0.00	6.95	2.1	329.7		60.66	251.73	0.00	2.29		10.35	18.92	83.84	86.68	21-Nov-18 08:00:00		**71.01**	**270.65**	**83.84**	**88.97**
21-Nov-18 09:00:00	21-Nov-18 10:00:00		400.36	192.07	0.00	6.86	2.1	329.7		132.00	63.33	0.00	2.26		10.35	18.92	83.84	86.68	21-Nov-18 09:00:00		**142.35**	**82.25**	**83.84**	**88.94**
21-Nov-18 10:00:00	21-Nov-18 11:00:00		431.80	201.92	0.00	6.55	2.1	329.7		142.36	66.57	0.00	2.16		10.35	18.92	83.84	86.68	21-Nov-18 10:00:00		**152.71**	**85.49**	**83.84**	**88.84**
21-Nov-18 11:00:00	21-Nov-18 12:00:00		446.48	204.59	0.00	6.22	2.1	329.7		147.20	67.45	0.00	2.05		10.35	18.92	83.84	86.68	21-Nov-18 11:00:00		**157.55**	**86.37**	**83.84**	**88.73**
21-Nov-18 12:00:00	21-Nov-18 13:00:00		369.31	423.74	0.00	5.89	2.1	329.7		121.76	139.71	0.00	1.94		10.35	18.92	83.84	86.68	21-Nov-18 12:00:00		**132.11**	**158.63**	**83.84**	**88.62**
21-Nov-18 13:00:00	21-Nov-18 14:00:00		358.46	495.17	0.00	5.71	2.1	329.7		118.19	163.26	0.00	1.88		10.35	18.92	83.84	86.68	21-Nov-18 13:00:00		**128.54**	**182.13**	**83.84**	**88.56**
21-Nov-18 14:00:00	21-Nov-18 15:00:00		395.30	475.64	0.00	5.59	2.1	329.7		130.33	156.82	0.00	1.84		10.35	18.92	83.84	86.68	21-Nov-18 14:00:00		**140.68**	**175.74**	**83.84**	**88.52**
21-Nov-18 15:00:00	21-Nov-18 16:00:00		400.67	511.89	0.00	5.40	2.1	329.7		132.10	168.77	0.00	1.78		10.35	18.92	83.84	86.68	21-Nov-18 15:00:00		**142.45**	**187.69**	**83.84**	**88.46**
21-Nov-18 16:00:00	21-Nov-18 17:00:00		364.83	538.31	0.00	5.20	2.1	329.7		120.28	177.48	0.00	1.71		10.35	18.92	83.84	86.68	21-Nov-18 16:00:00		**130.63**	**196.40**	**83.84**	**88.39**
21-Nov-18 17:00:00	21-Nov-18 18:00:00		420.27	543.99	0.00	5.17	2.1	329.7		138.56	179.35	0.00	1.70		10.35	18.92	83.84	86.68	21-Nov-18 17:00:00		**148.91**	**198.27**	**83.84**	**88.38**
21-Nov-18 18:00:00	21-Nov-18 19:00:00		427.77	540.18	0.00	5.51	2.1	329.7		141.04	178.10	0.00	1.82		10.35	18.92	83.84	86.68	21-Nov-18 18:00:00		**151.39**	**197.02**	**83.84**	**88.50**
21-Nov-18 19:00:00	21-Nov-18 20:00:00		382.10	491.99	0.00	5.84	2.1	329.7		125.98	162.21	0.00	1.93		10.35	18.92	83.84	86.68	21-Nov-18 19:00:00		**136.33**	**181.13**	**83.84**	**88.61**
21-Nov-18 20:00:00	21-Nov-18 21:00:00		384.04	487.16	0.00	6.18	2.1	329.7		126.62	160.62	0.00	2.04		10.35	18.92	83.84	86.68	21-Nov-18 20:00:00		**136.97**	**179.54**	**83.84**	**88.72**
21-Nov-18 21:00:00	21-Nov-18 22:00:00		393.81	486.85	0.00	6.36	2.1	329.7		129.84	160.51	0.00	2.10		10.35	18.92	83.84	86.68	21-Nov-18 21:00:00		**140.19**	**179.43**	**83.84**	**88.78**
21-Nov-18 22:00:00	21-Nov-18 23:00:00		421.39	487.12	0.00	6.40	2.1	329.7		138.93	160.60	0.00	2.11		10.35	18.92	83.84	86.68	21-Nov-18 22:00:00		**149.28**	**179.52**	**83.84**	**88.79**
21-Nov-18 23:00:00	22-Nov-18 00:00:00		416.34	485.85	0.00	6.51	2.1	329.7		137.27	160.18	0.00	2.15		10.35	18.92	83.84	86.68	21-Nov-18 23:00:00		**147.62**	**179.10**	**83.84**	**88.83**
22-Nov-18 00:00:00	22-Nov-18 01:00:00		435.68	503.94	0.00	6.61	2.1	329.7		143.64	166.15	0.00	2.18		10.35	18.92	83.84	86.68	22-Nov-18 00:00:00		**153.99**	**185.07**	**83.84**	**88.86**
22-Nov-18 01:00:00	22-Nov-18 02:00:00		455.69	520.38	0.00	6.68	2.1	329.7		150.24	171.57	0.00	2.20		10.35	18.92	83.84	86.68	22-Nov-18 01:00:00		**160.59**	**190.49**	**83.84**	**88.88**
22-Nov-18 02:00:00	22-Nov-18 03:00:00		413.04	517.34	0.00	6.73	2.1	329.7		136.18	170.57	0.00	2.22		10.35	18.92	83.84	86.68	22-Nov-18 02:00:00		**146.53**	**189.49**	**83.84**	**88.90**
22-Nov-18 03:00:00	22-Nov-18 04:00:00		678.31	518.14	0.00	6.79	2.1	329.7		223.64	170.83	0.00	2.24		10.35	18.92	83.84	86.68	22-Nov-18 03:00:00		**233.99**	**189.75**	**83.84**	**88.92**
22-Nov-18 04:00:00	22-Nov-18 05:00:00		677.89	491.19	0.00	6.85	2.1	329.7		223.50	161.95	0.00	2.26		10.35	18.92	83.84	86.68	22-Nov-18 04:00:00		**233.85**	**180.87**	**83.84**	**88.94**
22-Nov-18 05:00:00	22-Nov-18 06:00:00		729.82	519.86	0.00	6.91	2.1	329.7		240.62	171.40	0.00	2.28		10.35	18.92	83.84	86.68	22-Nov-18 05:00:00		**250.97**	**190.32**	**83.84**	**88.96**
22-Nov-18 06:00:00	22-Nov-18 07:00:00		696.98	520.29	0.00	6.83	2.1	329.7		229.80	171.54	0.00	2.25		10.35	18.92	83.84	86.68	22-Nov-18 06:00:00		**240.15**	**190.46**	**83.84**	**88.93**
22-Nov-18 07:00:00	22-Nov-18 08:00:00		613.49	394.72	0.00	6.72	2.1	329.7		202.27	130.14	0.00	2.21		10.35	18.92	83.84	86.68	22-Nov-18 07:00:00		**212.62**	**149.06**	**83.84**	**88.89**
22-Nov-18 08:00:00	22-Nov-18 09:00:00		329.18	118.17	0.00	6.60	2.1	329.7		108.53	38.96	0.00	2.18		10.35	18.92	83.84	86.68	22-Nov-18 08:00:00		**118.88**	**57.88**	**83.84**	**88.86**
22-Nov-18 09:00:00	22-Nov-18 10:00:00		79.10	0.00	0.00	6.42	2.1	329.7		26.08	0.00	0.00	2.12		10.35	18.92	83.84	86.68	22-Nov-18 09:00:00		**36.43**	**18.92**	**83.84**	**88.80**
22-Nov-18 10:00:00	22-Nov-18 11:00:00		47.88	0.00	0.00	6.15	2.1	329.7		15.79	0.00	0.00	2.03		10.35	18.92	83.84	86.68	22-Nov-18 10:00:00		**26.14**	**18.92**	**83.84**	**88.71**
22-Nov-18 11:00:00	22-Nov-18 12:00:00		33.50	0.00	0.00	5.90	2.1	329.7		11.05	0.00	0.00	1.95		10.35	18.92	83.84	86.68	22-Nov-18 11:00:00		**21.40**	**18.92**	**83.84**	**88.63**
22-Nov-18 12:00:00	22-Nov-18 13:00:00		2.93	0.00	0.00	5.66	2.1	329.7		0.97	0.00	0.00	1.87		10.35	18.92	83.84	86.68	22-Nov-18 12:00:00		**11.32**	**18.92**	**83.84**	**88.55**
22-Nov-18 13:00:00	22-Nov-18 14:00:00		22.62	0.00	0.00	5.39	2.1	329.7		7.46	0.00	0.00	1.78		10.35	18.92	83.84	86.68	22-Nov-18 13:00:00		**17.81**	**18.92**	**83.84**	**88.46**
22-Nov-18 14:00:00	22-Nov-18 15:00:00		17.61	0.00	0.00	5.36	2.1	329.7		5.80	0.00	0.00	1.77		10.35	18.92	83.84	86.68	22-Nov-18 14:00:00		**16.15**	**18.92**	**83.84**	**88.45**
22-Nov-18 15:00:00	22-Nov-18 16:00:00		36.33	0.00	0.00	5.43

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
24-Nov-18 17:00:00	24-Nov-18 18:00:00		7.14	0.00	0.00	5.84	2.1	329.7		2.35	0.00	0.00	1.93		10.35	18.92	83.84	86.68	24-Nov-18 17:00:00		12.70	18.92	83.84	88.61
24-Nov-18 18:00:00	24-Nov-18 19:00:00		7.87	0.00	0.00	5.85	2.1	329.7		2.59	0.00	0.00	1.93		10.35	18.92	83.84	86.68	24-Nov-18 18:00:00		12.94	18.92	83.84	88.61
24-Nov-18 19:00:00	24-Nov-18 20:00:00		11.80	0.00	0.00	5.81	2.1	329.7		3.89	0.00	0.00	1.91		10.35	18.92	83.84	86.68	24-Nov-18 19:00:00		14.24	18.92	83.84	88.59
24-Nov-18 20:00:00	24-Nov-18 21:00:00		8.37	0.00	0.00	5.80	2.1	329.7		2.76	0.00	0.00	1.91		10.35	18.92	83.84	86.68	24-Nov-18 20:00:00		13.11	18.92	83.84	88.59
24-Nov-18 21:00:00	24-Nov-18 22:00:00		8.83	0.00	0.00	5.81	2.1	329.7		2.91	0.00	0.00	1.92		10.35	18.92	83.84	86.68	24-Nov-18 21:00:00		13.26	18.92	83.84	88.60
24-Nov-18 22:00:00	24-Nov-18 23:00:00		9.94	0.00	0.00	5.81	2.1	329.7		3.28	0.00	0.00	1.92		10.35	18.92	83.84	86.68	24-Nov-18 22:00:00		13.63	18.92	83.84	88.60
24-Nov-18 23:00:00	25-Nov-18 00:00:00		10.00	0.00	0.00	5.81	2.1	329.7		3.30	0.00	0.00	1.91		10.35	18.92	83.84	86.68	24-Nov-18 23:00:00		13.65	18.92	83.84	88.59
25-Nov-18 00:00:00	25-Nov-18 01:00:00		40.94	0.00	0.00	5.79	2.1	329.7		13.50	0.00	0.00	1.91		10.35	18.92	83.84	86.68	25-Nov-18 00:00:00		23.85	18.92	83.84	88.59
25-Nov-18 01:00:00	25-Nov-18 02:00:00		69.36	0.00	0.00	5.78	2.1	329.7		22.87	0.00	0.00	1.91		10.35	18.92	83.84	86.68	25-Nov-18 01:00:00		33.22	18.92	83.84	88.59
25-Nov-18 02:00:00	25-Nov-18 03:00:00		64.65	0.00	0.00	5.78	2.1	329.7		21.32	0.00	0.00	1.90		10.35	18.92	83.84	86.68	25-Nov-18 02:00:00		31.67	18.92	83.84	88.58
25-Nov-18 03:00:00	25-Nov-18 04:00:00		58.87	0.00	0.00	5.81	2.1	329.7		19.41	0.00	0.00	1.92		10.35	18.92	83.84	86.68	25-Nov-18 03:00:00		29.76	18.92	83.84	88.60
25-Nov-18 04:00:00	25-Nov-18 05:00:00		58.05	0.00	0.00	5.82	2.1	329.7		19.14	0.00	0.00	1.92		10.35	18.92	83.84	86.68	25-Nov-18 04:00:00		29.49	18.92	83.84	88.60
25-Nov-18 05:00:00	25-Nov-18 06:00:00		26.88	0.00	0.00	5.82	2.1	329.7		8.86	0.00	0.00	1.92		10.35	18.92	83.84	86.68	25-Nov-18 05:00:00		19.21	18.92	83.84	88.60
25-Nov-18 06:00:00	25-Nov-18 07:00:00		38.45	0.00	0.00	5.82	2.1	329.7		12.68	0.00	0.00	1.92		10.35	18.92	83.84	86.68	25-Nov-18 06:00:00		23.03	18.92	83.84	88.60
25-Nov-18 07:00:00	25-Nov-18 08:00:00		61.12	0.00	0.00	5.88	2.1	329.7		20.15	0.00	0.00	1.94		10.35	18.92	83.84	86.68	25-Nov-18 07:00:00		30.50	18.92	83.84	88.62
25-Nov-18 08:00:00	25-Nov-18 09:00:00		62.98	0.00	0.00	5.93	2.1	329.7		20.77	0.00	0.00	1.95		10.35	18.92	83.84	86.68	25-Nov-18 08:00:00		31.12	18.92	83.84	88.63
25-Nov-18 09:00:00	25-Nov-18 10:00:00		62.34	0.00	0.00	5.95	2.1	329.7		20.55	0.00	0.00	1.96		10.35	18.92	83.84	86.68	25-Nov-18 09:00:00		30.90	18.92	83.84	88.64
25-Nov-18 10:00:00	25-Nov-18 11:00:00		22.00	0.00	0.00	5.98	2.1	329.7		7.25	0.00	0.00	1.97		10.35	18.92	83.84	86.68	25-Nov-18 10:00:00		17.60	18.92	83.84	88.65
25-Nov-18 11:00:00	25-Nov-18 12:00:00		43.26	0.00	0.00	6.01	2.1	329.7		14.26	0.00	0.00	1.98		10.35	18.92	83.84	86.68	25-Nov-18 11:00:00		24.61	18.92	83.84	88.66
25-Nov-18 12:00:00	25-Nov-18 13:00:00		29.52	0.00	0.00	5.83	2.1	329.7		9.73	0.00	0.00	1.92		10.35	18.92	83.84	86.68	25-Nov-18 12:00:00		20.08	18.92	83.84	88.60
25-Nov-18 13:00:00	25-Nov-18 14:00:00		8.43	0.00	0.00	5.62	2.1	329.7		2.78	0.00	0.00	1.85		10.35	18.92	83.84	86.68	25-Nov-18 13:00:00		13.13	18.92	83.84	88.53
25-Nov-18 14:00:00	25-Nov-18 15:00:00		0.00	0.00	0.00	5.42	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	25-Nov-18 14:00:00		10.35	18.92	83.84	88.47
25-Nov-18 15:00:00	25-Nov-18 16:00:00		0.00	0.00	0.00	5.28	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	25-Nov-18 15:00:00		10.35	18.92	83.84	88.42
25-Nov-18 16:00:00	25-Nov-18 17:00:00		0.00	0.00	0.00	5.33	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	25-Nov-18 16:00:00		10.35	18.92	83.84	88.44
25-Nov-18 17:00:00	25-Nov-18 18:00:00		0.00	0.00	0.00	5.40	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	25-Nov-18 17:00:00		10.35	18.92	83.84	88.46
25-Nov-18 18:00:00	25-Nov-18 19:00:00		0.00	0.00	0.00	5.46	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	25-Nov-18 18:00:00		10.35	18.92	83.84	88.48
25-Nov-18 19:00:00	25-Nov-18 20:00:00		0.00	0.00	0.00	5.53	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	25-Nov-18 19:00:00		10.35	18.92	83.84	88.50
25-Nov-18 20:00:00	25-Nov-18 21:00:00		0.00	0.00	0.00	5.59	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	25-Nov-18 20:00:00		10.35	18.92	83.84	88.52
25-Nov-18 21:00:00	25-Nov-18 22:00:00		0.00	0.00	0.00	5.65	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	25-Nov-18 21:00:00		10.35	18.92	83.84	88.54
25-Nov-18 22:00:00	25-Nov-18 23:00:00		0.00	0.00	0.00	5.72	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	25-Nov-18 22:00:00		10.35	18.92	83.84	88.56
25-Nov-18 23:00:00	26-Nov-18 00:00:00		0.00	0.00	0.00	5.84	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	25-Nov-18 23:00:00		10.35	18.92	83.84	88.61
26-Nov-18 00:00:00	26-Nov-18 01:00:00		0.00	0.00	0.00	5.92	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	26-Nov-18 00:00:00		10.35	18.92	83.84	88.63
26-Nov-18 01:00:00	26-Nov-18 02:00:00		0.00	0.00	0.00	5.97	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	26-Nov-18 01:00:00		10.35	18.92	83.84	88.65
26-Nov-18 02:00:00	26-Nov-18 03:00:00		0.00	0.00	0.00	6.03	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	26-Nov-18 02:00:00		10.35	18.92	83.84	88.67
26-Nov-18 03:00:00	26-Nov-18 04:00:00		0.00	0.00	0.00	5.95	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	26-Nov-18 03:00:00		10.35	18.92	83.84	88.64
26-Nov-18 04:00:00	26-Nov-18 05:00:00		0.00	0.00	0.00	5.86	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	26-Nov-18 04:00:00		10.35	18.92	83.84	88.61
26-Nov-18 05:00:00	26-Nov-18 06:00:00		0.00	0.00	0.00	5.80	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	26-Nov-18 05:00:00		10.35	18.92	83.84	88.59
26-Nov-18 06:00:00	26-Nov-18 07:00:00		0.00	0.00	0.00	5.73	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	26-Nov-18 06:00:00		10.35	18.92	83.84	88.57
26-Nov-18 07:00:00	26-Nov-18 08:00:00		0.00	0.00	0.00	5.70	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	26-Nov-18 07:00:00		10.35	18.92	83.84	88.56
26-Nov-18 08:00:00	26-Nov-18 09:00:00		0.00	0.00	0.00	5.68	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	26-Nov-18 08:00:00		10.35	18.92	83.84	88.55
26-Nov-18 09:00:00	26-Nov-18 10:00:00		0.00	0.00	0.00	5.65	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	26-Nov-18 09:00:00		10.35	18.92	83.84	88.54
26-Nov-18 10:00:00	26-Nov-18 11:00:00		0.00	0.00	0.00	5.63	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	26-Nov-18 10:00:00		10.35	18.92	83.84	88.54
26-Nov-18 11:00:00	26-Nov-18 12:00:00		0.00	0.00	0.00	5.49	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	26-Nov-18 11:00:00		10.35	18.92	83.84	88.49
26-Nov-18 12:00:00	26-Nov-18 13:00:00		0.00	0.00	0.00	5.50	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	26-Nov-18 12:00:00		10.35	18.92	83.84	88.49
26-Nov-18 13:00:00	26-Nov-18 14:00:00		5.53	0.00	0.00	5.56	2.1	329.7		1.82	0.00	0.00	1.83		10.35	18.92	83.84	86.68	26-Nov-18 13:00:00		12.17	18.92	83.84	88.51
26-Nov-18 14:00:00	26-Nov-18 15:00:00		10.64	0.00	0.00	5.62	2.1	329.7		3.51	0.00	0.00	1.85		10.35	18.92	83.84	86.68	26-Nov-18 14:00:00		13.86	18.92	83.84	88.53
26-Nov-18 15:00:00	26-Nov-18 16:00:00		24.17	0.00	0.00	5.66	2.1	329.7		7.97	0.00	0.00	1.87		10.35	18.92	83.84	86.68	26-Nov-18 15:00:00		18.32	18.92	83.84	88.55
26-Nov-18 16:00:00	26-Nov-18 17:00:00		22.77	0.00	0.00	5.69	2.1	329.7		7.51	0.00	0.00	1.88		10.35	18.92	83.84	86.68	26-Nov-18 16:00:00		17.86	18.92	83.84	88.56
26-Nov-18 17:00:00	26-Nov-18 18:00:00		16.28	0.00	0.00	5.73	2.1	329.7		5.37	0.00	0.00	1.89		10.35	18.92	83.84	86.68	26-Nov-18 17:00:00		15.72	18.92	83.84	88.57
26-Nov-18 18:00:00	26-Nov-18 19:00:00		2.65	0.00	0.00	5.76	2.1	329.7		0.87	0.00	0.00	1.90		10.35	18.92	83.84	86.68	26-Nov-18 18:00:00		11.22	18.92	83.84	88.58
26-Nov-18 19:00:00	26-Nov-18 20:00:00		0.21	0.00	0.00	5.84	2.1	329.7		0.07	0.00	0.00	1.92		10.35	18.92	83.84	86.68	26-Nov-18 19:00:00		10.42	18.92	83.84	88.60
26-Nov-18 20:00:00	26-Nov-18 21:00:00		0.65	0.00	0.00	6.00	2.1	329.7		0.21	0.00	0.00	1.98		10.35	18.92	83.84	86.68	26-Nov-18 20:00:00		10.56	18.92	83.84	88.66
26-Nov-18 21:00:00	26-Nov-18 22:00:00		9.36	0.00	0.00	6.17	2.1	329.7		3.09	0.00	0.00	2.04		10.35	18.92	83.84	86.68	26-Nov-18 21:00:00		13.44	18.92	83.84	88.72
26-Nov-18 22:00:00	26-Nov-18 23:00:00		13.76	0.00	0.00	6.35	2.1	329.7		4.54	0.00	0.00	2.09		10.35	18.92	83.84	86.68	26-Nov-18 22:00:00		14.89	18.92	83.84	88.77
26-Nov-18 23:00:00	27-Nov-18 00:00:00		34.44	0.00	0.00	6.47	2.1	329.7		11.36	0.00	0.00	2.13		10.35	18.92	83.84	86.68	26-Nov-18 23:00:00		21.71	18.92	83.84	88.81
27-Nov-18 00:00:00	27-Nov-18 01:00:00		26.57	0.00	0.00	6.62	2.1	329.7		8.76	0.00	0.00	2.18		10.35	18.92	83.84	86.68	27-Nov-18 00:00:00		19.11	18.92	83.84	88.86
27-Nov-18 01:00:00	27-Nov-18 02:00:00		44.64	0.00	0.00	6.77	2.1	329.7		14.72	0.00	0.00	2.23		10.35	18.92	83.84	86.68	27-Nov-18 01:00:00		25.07	18.92	83.84	88.91
27-Nov-18 02:00:00	27-Nov-18 03:00:00		38.94	0.00	0.00	6.93	2.1	329.7		12.84	0.00	0.00	2.28		10.35	18.92	83.84	86.68	27-Nov-18 02:00:00		23.19	18.92	83.84	88.96
27-Nov-18 03:00:00	27-Nov-18 04:00:00		51.65	0.00	0.00	6.92	2.1	329.7		17.03	0.00	0.00	2.28		10.35	18.92	83.84	86.68	27-Nov-18 03:00:00		27.38	18.92	83.84	88.96
27-Nov-18 04:00:00	27-Nov-18 05:00:00		48.25	0.00	0.00	6.90	2.1	329.7		15.91	0.00	0.00	2.27		10.35	18.92	83.84	86.68	27-Nov-18 04:00:00		26.26	18.92	83.84	88.95
27-Nov-18 05:00:00	27-Nov-18 06:00:00		30.84	0.00	0.00	6.92	2.1	329.7		10.17	0.00	0.00	2.28		10.35	18.92	83.84	86.68	27-Nov-18 05:00:00		20.52	18.92	83.84	88.96
27-Nov-18 06:00:00	27-Nov-18 07:00:00		39.07	0.00	0.00	6.93	2.1	329.7		12.88	0.00	0.00	2.29		10.35	18.92	83.84	86.68	27-Nov-18 06:00:00		23.23	18.92	83.84	88.97
27-Nov-18 07:00:00	27-Nov-18 08:00:00		38.87	0.00	0.00	6.90	2.1	329.7		12.81	0.00	0.00	2.27		10.35	18.92	83.84	86.68	27-Nov-18 07:00:00		23.16	18.92	83.84	88.95
27-Nov-18 08:00:00	27-Nov-18 09:00:00		37.03	0.00	0.00	6.78	2.1	329.7		12.21	0.00	0.00	2.23		10.35	18.92	83.84	86.68	27-Nov-18 08:00:00		22.56	18.92	83.84	88.91
27-Nov-18 09:00:00	27-Nov-18 10:00:00		26.53	0.00	0.00	6.66	2.1	329.7		8.75	0.00	0.00	2.19		10.35	18.92	83.84	86.68	27-Nov-18 09:00:00		19.10	18.92	83.84	88.87
27-Nov-18 10:00:00	27-Nov-18 11:00:00		59.68	0.00	0.00	6.53	2.1	329.7		19.68	0.00	0.00	2.15		10.35	18.92	83.84	86.68	27-Nov-18 10:00:00		30.03	18.92	83.84	88.83
27-Nov-18 11:00:00	27-Nov-18 12:00:00		37.31	0.00	0.00	6.46	2.1	329.7		12.30	0.00	0.00	2.13		10.35	18.92	83.84	86.68	27-Nov-18 11:00:00		22.65	18.92	83.84	88.81
27-Nov-18 12:00:00	27-Nov-18 13:00:00		51.60	0.00	0.00	6.38	2.1	329.7		17.01	0.00	0.00	2.10		10.35	18.92	83.84	86.68	27-Nov-18 12:00:00		27.36	18.92	83.84	88.78
27-Nov-18 13:00:00	27-Nov-18 14:00:00		79.05	0.00	0.00	6.28	2.1	329.7		26.06	0.00	0.00	2.07		10.35	18.92	83.84	86.68	27-Nov-18 13:00:00		36.41	18.92	83.84	88.75
27-Nov-18 14:00:00	27-Nov-18 15:00:00		52.56	0.00	0.00	6.19	2.1	329.7		17.33	0.00	0.00	2.04		10.35	18.92	83.84	86.68	27-Nov-18 14:00:00		27.68	18.92	83.84	88.72
27-Nov-18 15:00:00	27-Nov-18 16:00:00		32.81	0.00	0.00	6.16	2.1	329.7		10.82	0.00	0.00	2.03		10.35	18.92	83.84	86.68	27-Nov-18 15:00:00		21.17	18.92	83.84	88.71
27-Nov-18 16:00:00	27-Nov-18 17:00:00		42.79	0.00	0.00	6.14	2.1	329.7		14.11	0.00	0.00	2.02		10.35	18.92	83.84	86.68	27-Nov-18 16:00:00		24.46	18.92	83.84	88.70
27-Nov-18 17:00:00	27-Nov-18 18:00:00		41.67	0.00	0.00	6.11	2.1	329.7		13.74	0.00	0.00	2.01		10.35	18.92	83.84	86.68	27-Nov-18 17:00:00		24.09	18.92	83.84	88.69
27-Nov-18 18:00:00	27-Nov-18 19:00:00		42.48	0.00	0.00	6.08	2.1	329.7		14.01	0.00	0.00	2.00		10.35	18.92	83.84	86.68	27-Nov-18 18:00:00		24.36	18.92	83.84	88.68
27-Nov-18 19:00:00	27-Nov-18 20:00:00		51.60	0.00	0.00	6.00	2.1	329.7		17.01	0.00	0.00	1.98		10.35	18.92	83.84	86.68	27-Nov-18 19:00:00		27.36	18.92	83.84	88.66
27-Nov-18 20:00:00	27-Nov-18 21:00:00		48.75	0.00	0.00	6.20	2.1	329.7		16.07	0.00	0.00	2.04		10.35	18.92	83.84	86.68	27-Nov-18 20:00:00		26.42	18.92	83.84	88.72
27-Nov-18 21:00:00	27-Nov-18 22:00:00		63.97	0.00	0.00	6.46	2.1	329.7		21.09	0.00	0.00	2.13		10.35	18.92	83.84	86.68	27-Nov-18 21:00:00		31.44	18.92	83.84	88.81
27-Nov-18 22:00:00	27-Nov-18 23:00:00		63.63	0.00	0.00	6.73	2.1	329.7		20.98	0.00	0.00	2.22		10.35	18.92	83.84	86.68	27-Nov-18 22:00:00		31.33	18.92	83.84	88.90
27-Nov-18 23:00:00	28-Nov-18 00:00:00		56.54	0.00	0.00	6.94	2.1	329.7		18.64	0.00	0.00	2.29		10.35	18.92	83.84	86.68	27-Nov-18 23:00:00		28.99	18.92	83.84	88.97
28-Nov-18 00:00:00	28-Nov-18 01:00:00		53.62	0.00	0.00	7.14	2.1	329.7		17.68	0.00	0.00	2.35		10.35	18.92	83.84	86.68	28-Nov-18 00:00:00		28.03	18.92	83.84	89.03
28-Nov-18 01:00:00	28-Nov-18 02:00:00		31.59	0.00	0.00	7.34	2.1	329.7		10.41	0.00	0.00	2.42		10.35	18.92	83.84	86.68	28-Nov-18 01:00:00		20.76	18.92	83.84	89.10
28-Nov-18 02:00:00	28-Nov-18 03:00:00		28.88	0.00	0.00	7.55	2.1	329.7		9.52	0.00	0.00	2.49		10.35	18.92	83.84	86.68	28-Nov-18 02:00:00		19.87	18.92	83.84	89.17
28-Nov-18 03:00:00	28-Nov-18 04:00:00		52.68	0.00	0.00	7.67	2.1	329.7		17.37	0.00	0.00	2.53		10.35	18.92	83.84	86.68	28-Nov-18 03:00:00		27.72	18.92	83.84	89.21
28-Nov-18 04:00:00	28-Nov-18 05:00:00		74.47	0.00	0.00	61.22	2.1	329.7		24.55	0.00	0.00	20.18		10.35	18.92	83.84	86.68	28-Nov-18 04:00:00		34.90	18.92	83.84	106.86
28-Nov-18 05:00:00	28-Nov-18 06:00:00		94.63	0.00	0.00	7.58	2.1	329.7		31.20	0.00	0.00	2.50		10.35	18.92	83.84	86.68	28-Nov-18 05:00:00		41.55	18.92	83.84	89.18
28-Nov-18 06:00:00	28-Nov-18 07:00:00		30.24	0.00	0.00	7.59	2.1	329.7		9.97	0.00	0.00	2.50		10.35	18.92	83.84	86.68	28-Nov-18 06:00:00		20.32	18.92	83.84	89.18
28-Nov-18 07:00:00	28-Nov-18 08:00:00		68.34	0.00	0.00	7.59	2.1	329.7		22.53	0.00	0.00	2.50		10.35	18.92	83.84	86.68	28-Nov-18 07:00:00		32.88	18.92	83.84	89.18
28-Nov-18 08:00:00	28-Nov-18 09:00:00		61.48	0.00	0.00	7.60	2.1	329.7		20.27	0.00	0.00	2.51		10.35	18.92	83.84	86.68	28-Nov-18 08:00:00		30.62	18.92	83.84	89.19
28-Nov-18 09:00:00	28-Nov-18 10:00:00		63.44	0.00	0.00	7.54	2.1	329.7		20.92	0.00	0.00	2.49		10.35	18.92	83.84	86.68	28-Nov-18 09:00:00		31.27	18.92	83.84	89.17
28-Nov-18 10:00:00	28-Nov-18 11:00:00		95.81	0.00	0.00	29.27	2.1	329.7		31.59	0.00	0.00	9.65		10.35	18.92	83.84	86.68	28-Nov-18 10:00:00		41.94	18.92	83.84	96.33
28-Nov-18 11:00:00	28-Nov-18 12:00:00		47.54	0.00	0.00	6.89	2.1	329.7		15.67	0.00	0.00	2.27		10.35	18.92	83.84	86.68	28-Nov-18 11:00:00		26.02	18.92	83.84	88.95
28-Nov-18 12:00:00	28-Nov-18 13:00:00		12.46	0.00	0.00	6.65	2.1	329.7		4.11	0.00	0.00	2.19		10.35	18.92	83.84	86.68	28-Nov-18 12:00:00		14.46	18.92	83.84	88.87
28-Nov-18 13:00:00	28-Nov-18 14:00:00		8.95	0.00	0.00	6.42	2.1	329.7		2.95	0.00	0.00	2.12		10.35	18.92	83.84	86.68	28-Nov-18 13:00:00		13.30	18.92	83.84	88.80
28-Nov-18 14:00:00	28-Nov-18 15:00:00		15.33	0.00	0.00	6.19

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
30-Nov-18 16:00:00	30-Nov-18 17:00:00		13.86	168.28	0.00	5.10	2.1	329.7		4.57	55.48	0.00	1.68		10.35	18.92	83.84	86.68	30-Nov-18 16:00:00		**14.92**	**74.40**	**83.84**	**88.36**
30-Nov-18 17:00:00	30-Nov-18 18:00:00		14.95	171.03	0.00	5.12	2.1	329.7		4.93	56.39	0.00	1.69		10.35	18.92	83.84	86.68	30-Nov-18 17:00:00		**15.28**	**75.31**	**83.84**	**88.37**
30-Nov-18 18:00:00	30-Nov-18 19:00:00		24.58	142.07	0.00	5.13	2.1	329.7		8.10	46.84	0.00	1.69		10.35	18.92	83.84	86.68	30-Nov-18 18:00:00		**18.45**	**65.76**	**83.84**	**88.37**
30-Nov-18 19:00:00	30-Nov-18 20:00:00		32.36	0.00	0.00	5.10	2.1	329.7		10.67	0.00	0.00	1.68		10.35	18.92	83.84	86.68	30-Nov-18 19:00:00		**21.02**	**18.92**	**83.84**	**88.36**
30-Nov-18 20:00:00	30-Nov-18 21:00:00		33.80	0.00	0.00	5.20	2.1	329.7		11.14	0.00	0.00	1.71		10.35	18.92	83.84	86.68	30-Nov-18 20:00:00		**21.49**	**18.92**	**83.84**	**88.39**
30-Nov-18 21:00:00	30-Nov-18 22:00:00		28.68	0.00	0.00	5.29	2.1	329.7		9.45	0.00	0.00	1.74		10.35	18.92	83.84	86.68	30-Nov-18 21:00:00		**19.80**	**18.92**	**83.84**	**88.42**
30-Nov-18 22:00:00	30-Nov-18 23:00:00		41.16	0.00	0.00	5.36	2.1	329.7		13.57	0.00	0.00	1.77		10.35	18.92	83.84	86.68	30-Nov-18 22:00:00		**23.92**	**18.92**	**83.84**	**88.45**
30-Nov-18 23:00:00	01-Dec-18 00:00:00		55.10	0.00	0.00	5.27	2.1	329.7		18.17	0.00	0.00	1.74		10.35	18.92	83.84	86.68	30-Nov-18 23:00:00		**28.52**	**18.92**	**83.84**	**88.42**
01-Dec-18 00:00:00	01-Dec-18 01:00:00		54.45	0.00	0.00	5.36	2.1	329.7		17.95	0.00	0.00	1.77		10.35	18.92	83.84	86.68	01-Dec-18 00:00:00		**28.30**	**18.92**	**83.84**	**88.45**
01-Dec-18 01:00:00	01-Dec-18 02:00:00		54.69	0.00	0.00	5.45	2.1	329.7		18.03	0.00	0.00	1.80		10.35	18.92	83.84	86.68	01-Dec-18 01:00:00		**28.38**	**18.92**	**83.84**	**88.48**
01-Dec-18 02:00:00	01-Dec-18 03:00:00		55.11	0.00	0.00	5.54	2.1	329.7		18.17	0.00	0.00	1.83		10.35	18.92	83.84	86.68	01-Dec-18 02:00:00		**28.52**	**18.92**	**83.84**	**88.51**
01-Dec-18 03:00:00	01-Dec-18 04:00:00		55.86	0.00	0.00	5.68	2.1	329.7		18.42	0.00	0.00	1.87		10.35	18.92	83.84	86.68	01-Dec-18 03:00:00		**28.77**	**18.92**	**83.84**	**88.55**
01-Dec-18 04:00:00	01-Dec-18 05:00:00		52.07	0.00	0.00	5.71	2.1	329.7		17.17	0.00	0.00	1.88		10.35	18.92	83.84	86.68	01-Dec-18 04:00:00		**27.52**	**18.92**	**83.84**	**88.56**
01-Dec-18 05:00:00	01-Dec-18 06:00:00		50.08	0.00	0.00	5.73	2.1	329.7		16.51	0.00	0.00	1.89		10.35	18.92	83.84	86.68	01-Dec-18 05:00:00		**26.86**	**18.92**	**83.84**	**88.57**
01-Dec-18 06:00:00	01-Dec-18 07:00:00		51.95	0.00	0.00	5.76	2.1	329.7		17.13	0.00	0.00	1.90		10.35	18.92	83.84	86.68	01-Dec-18 06:00:00		**27.48**	**18.92**	**83.84**	**88.58**
01-Dec-18 07:00:00	01-Dec-18 08:00:00		50.05	0.00	0.00	5.82	2.1	329.7		16.50	0.00	0.00	1.92		10.35	18.92	83.84	86.68	01-Dec-18 07:00:00		**26.85**	**18.92**	**83.84**	**88.60**
01-Dec-18 08:00:00	01-Dec-18 09:00:00		41.87	0.00	0.00	5.80	2.1	329.7		13.80	0.00	0.00	1.91		10.35	18.92	83.84	86.68	01-Dec-18 08:00:00		**24.15**	**18.92**	**83.84**	**88.59**
01-Dec-18 09:00:00	01-Dec-18 10:00:00		42.51	0.00	0.00	5.78	2.1	329.7		14.02	0.00	0.00	1.91		10.35	18.92	83.84	86.68	01-Dec-18 09:00:00		**24.37**	**18.92**	**83.84**	**88.59**
01-Dec-18 10:00:00	01-Dec-18 11:00:00		40.59	0.00	0.00	5.77	2.1	329.7		13.38	0.00	0.00	1.90		10.35	18.92	83.84	86.68	01-Dec-18 10:00:00		**23.73**	**18.92**	**83.84**	**88.58**
01-Dec-18 11:00:00	01-Dec-18 12:00:00		41.18	0.00	0.00	5.79	2.1	329.7		13.58	0.00	0.00	1.91		10.35	18.92	83.84	86.68	01-Dec-18 11:00:00		**23.93**	**18.92**	**83.84**	**88.59**
01-Dec-18 12:00:00	01-Dec-18 13:00:00		41.76	0.00	0.00	5.76	2.1	329.7		13.77	0.00	0.00	1.90		10.35	18.92	83.84	86.68	01-Dec-18 12:00:00		**24.12**	**18.92**	**83.84**	**88.58**
01-Dec-18 13:00:00	01-Dec-18 14:00:00		40.03	0.00	0.00	5.73	2.1	329.7		13.20	0.00	0.00	1.89		10.35	18.92	83.84	86.68	01-Dec-18 13:00:00		**23.55**	**18.92**	**83.84**	**88.57**
01-Dec-18 14:00:00	01-Dec-18 15:00:00		40.11	0.00	0.00	5.70	2.1	329.7		13.22	0.00	0.00	1.88		10.35	18.92	83.84	86.68	01-Dec-18 14:00:00		**23.57**	**18.92**	**83.84**	**88.56**
01-Dec-18 15:00:00	01-Dec-18 16:00:00		40.24	0.00	0.00	5.87	2.1	329.7		13.27	0.00	0.00	1.93		10.35	18.92	83.84	86.68	01-Dec-18 15:00:00		**23.62**	**18.92**	**83.84**	**88.61**
01-Dec-18 16:00:00	01-Dec-18 17:00:00		40.37	0.00	0.00	5.89	2.1	329.7		13.31	0.00	0.00	1.94		10.35	18.92	83.84	86.68	01-Dec-18 16:00:00		**23.66**	**18.92**	**83.84**	**88.62**
01-Dec-18 17:00:00	01-Dec-18 18:00:00		41.32	0.00	0.00	5.92	2.1	329.7		13.62	0.00	0.00	1.95		10.35	18.92	83.84	86.68	01-Dec-18 17:00:00		**23.97**	**18.92**	**83.84**	**88.63**
01-Dec-18 18:00:00	01-Dec-18 19:00:00		40.51	0.00	0.00	5.95	2.1	329.7		13.36	0.00	0.00	1.96		10.35	18.92	83.84	86.68	01-Dec-18 18:00:00		**23.71**	**18.92**	**83.84**	**88.64**
01-Dec-18 19:00:00	01-Dec-18 20:00:00		40.33	0.00	0.00	6.07	2.1	329.7		13.30	0.00	0.00	2.00		10.35	18.92	83.84	86.68	01-Dec-18 19:00:00		**23.65**	**18.92**	**83.84**	**88.68**
01-Dec-18 20:00:00	01-Dec-18 21:00:00		42.23	0.00	0.00	5.84	2.1	329.7		13.92	0.00	0.00	1.92		10.35	18.92	83.84	86.68	01-Dec-18 20:00:00		**24.27**	**18.92**	**83.84**	**88.60**
01-Dec-18 21:00:00	01-Dec-18 22:00:00		44.31	0.00	0.00	5.60	2.1	329.7		14.61	0.00	0.00	1.85		10.35	18.92	83.84	86.68	01-Dec-18 21:00:00		**24.96**	**18.92**	**83.84**	**88.53**
01-Dec-18 22:00:00	01-Dec-18 23:00:00		37.56	0.00	0.00	5.37	2.1	329.7		12.38	0.00	0.00	1.77		10.35	18.92	83.84	86.68	01-Dec-18 22:00:00		**22.73**	**18.92**	**83.84**	**88.45**
01-Dec-18 23:00:00	02-Dec-18 00:00:00		37.01	0.00	0.00	5.26	2.1	329.7		12.20	0.00	0.00	1.73		10.35	18.92	83.84	86.68	01-Dec-18 23:00:00		**22.55**	**18.92**	**83.84**	**88.41**
02-Dec-18 00:00:00	02-Dec-18 01:00:00		42.43	0.00	0.00	5.26	2.1	329.7		13.99	0.00	0.00	1.73		10.35	18.92	83.84	86.68	02-Dec-18 00:00:00		**24.34**	**18.92**	**83.84**	**88.41**
02-Dec-18 01:00:00	02-Dec-18 02:00:00		12.41	0.00	0.00	5.26	2.1	329.7		4.09	0.00	0.00	1.73		10.35	18.92	83.84	86.68	02-Dec-18 01:00:00		**14.44**	**18.92**	**83.84**	**88.41**
02-Dec-18 02:00:00	02-Dec-18 03:00:00		3.22	0.00	0.00	5.26	2.1	329.7		1.06	0.00	0.00	1.73		10.35	18.92	83.84	86.68	02-Dec-18 02:00:00		**11.41**	**18.92**	**83.84**	**88.41**
02-Dec-18 03:00:00	02-Dec-18 04:00:00		0.00	0.00	0.00	5.06	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	02-Dec-18 03:00:00		**10.35**	**18.92**	**83.84**	**88.35**
02-Dec-18 04:00:00	02-Dec-18 05:00:00		11.04	0.00	0.00	5.02	2.1	329.7		3.64	0.00	0.00	1.65		10.35	18.92	83.84	86.68	02-Dec-18 04:00:00		**13.99**	**18.92**	**83.84**	**88.33**
02-Dec-18 05:00:00	02-Dec-18 06:00:00		17.40	0.00	0.00	4.97	2.1	329.7		5.74	0.00	0.00	1.64		10.35	18.92	83.84	86.68	02-Dec-18 05:00:00		**16.09**	**18.92**	**83.84**	**88.32**
02-Dec-18 06:00:00	02-Dec-18 07:00:00		26.64	0.00	0.00	4.93	2.1	329.7		8.78	0.00	0.00	1.62		10.35	18.92	83.84	86.68	02-Dec-18 06:00:00		**19.13**	**18.92**	**83.84**	**88.30**
02-Dec-18 07:00:00	02-Dec-18 08:00:00		22.02	0.00	0.00	5.06	2.1	329.7		7.26	0.00	0.00	1.67		10.35	18.92	83.84	86.68	02-Dec-18 07:00:00		**17.61**	**18.92**	**83.84**	**88.35**
02-Dec-18 08:00:00	02-Dec-18 09:00:00		17.25	0.00	0.00	4.98	2.1	329.7		5.69	0.00	0.00	1.64		10.35	18.92	83.84	86.68	02-Dec-18 08:00:00		**16.04**	**18.92**	**83.84**	**88.32**
02-Dec-18 09:00:00	02-Dec-18 10:00:00		36.54	0.00	0.00	4.91	2.1	329.7		12.05	0.00	0.00	1.62		10.35	18.92	83.84	86.68	02-Dec-18 09:00:00		**22.40**	**18.92**	**83.84**	**88.30**
02-Dec-18 10:00:00	02-Dec-18 11:00:00		15.75	0.00	0.00	4.83	2.1	329.7		5.19	0.00	0.00	1.59		10.35	18.92	83.84	86.68	02-Dec-18 10:00:00		**15.54**	**18.92**	**83.84**	**88.27**
02-Dec-18 11:00:00	02-Dec-18 12:00:00		44.58	0.00	0.00	4.80	2.1	329.7		14.70	0.00	0.00	1.58		10.35	18.92	83.84	86.68	02-Dec-18 11:00:00		**25.05**	**18.92**	**83.84**	**88.26**
02-Dec-18 12:00:00	02-Dec-18 13:00:00		19.58	0.00	0.00	4.78	2.1	329.7		6.45	0.00	0.00	1.58		10.35	18.92	83.84	86.68	02-Dec-18 12:00:00		**16.80**	**18.92**	**83.84**	**88.26**
02-Dec-18 13:00:00	02-Dec-18 14:00:00		8.23	0.00	0.00	4.76	2.1	329.7		2.71	0.00	0.00	1.57		10.35	18.92	83.84	86.68	02-Dec-18 13:00:00		**13.06**	**18.92**	**83.84**	**88.25**
02-Dec-18 14:00:00	02-Dec-18 15:00:00		1.55	0.00	0.00	4.75	2.1	329.7		0.51	0.00	0.00	1.57		10.35	18.92	83.84	86.68	02-Dec-18 14:00:00		**10.86**	**18.92**	**83.84**	**88.25**
02-Dec-18 15:00:00	02-Dec-18 16:00:00		2.99	0.00	0.00	4.71	2.1	329.7		0.99	0.00	0.00	1.55		10.35	18.92	83.84	86.68	02-Dec-18 15:00:00		**11.34**	**18.92**	**83.84**	**88.23**
02-Dec-18 16:00:00	02-Dec-18 17:00:00		51.36	0.00	0.00	4.70	2.1	329.7		16.93	0.00	0.00	1.55		10.35	18.92	83.84	86.68	02-Dec-18 16:00:00		**27.28**	**18.92**	**83.84**	**88.23**
02-Dec-18 17:00:00	02-Dec-18 18:00:00		58.20	0.00	0.00	4.70	2.1	329.7		19.19	0.00	0.00	1.55		10.35	18.92	83.84	86.68	02-Dec-18 17:00:00		**29.54**	**18.92**	**83.84**	**88.23**
02-Dec-18 18:00:00	02-Dec-18 19:00:00		59.35	0.00	0.00	4.70	2.1	329.7		19.57	0.00	0.00	1.55		10.35	18.92	83.84	86.68	02-Dec-18 18:00:00		**29.92**	**18.92**	**83.84**	**88.23**
02-Dec-18 19:00:00	02-Dec-18 20:00:00		59.62	0.00	0.00	4.96	2.1	329.7		19.66	0.00	0.00	1.64		10.35	18.92	83.84	86.68	02-Dec-18 19:00:00		**30.01**	**18.92**	**83.84**	**88.32**
02-Dec-18 20:00:00	02-Dec-18 21:00:00		57.01	0.00	0.00	4.92	2.1	329.7		18.80	0.00	0.00	1.62		10.35	18.92	83.84	86.68	02-Dec-18 20:00:00		**29.15**	**18.92**	**83.84**	**88.30**
02-Dec-18 21:00:00	02-Dec-18 22:00:00		58.28	0.00	0.00	4.88	2.1	329.7		19.22	0.00	0.00	1.61		10.35	18.92	83.84	86.68	02-Dec-18 21:00:00		**29.57**	**18.92**	**83.84**	**88.29**
02-Dec-18 22:00:00	02-Dec-18 23:00:00		60.74	0.00	0.00	4.84	2.1	329.7		20.03	0.00	0.00	1.60		10.35	18.92	83.84	86.68	02-Dec-18 22:00:00		**30.38**	**18.92**	**83.84**	**88.28**
02-Dec-18 23:00:00	03-Dec-18 00:00:00		62.09	0.00	0.00	5.06	2.1	329.7		20.47	0.00	0.00	1.67		10.35	18.92	83.84	86.68	02-Dec-18 23:00:00		**30.82**	**18.92**	**83.84**	**88.35**
03-Dec-18 00:00:00	03-Dec-18 01:00:00		58.66	0.00	0.00	5.13	2.1	329.7		19.34	0.00	0.00	1.69		10.35	18.92	83.84	86.68	03-Dec-18 00:00:00		**29.69**	**18.92**	**83.84**	**88.37**
03-Dec-18 01:00:00	03-Dec-18 02:00:00		57.91	0.00	0.00	5.20	2.1	329.7		19.09	0.00	0.00	1.71		10.35	18.92	83.84	86.68	03-Dec-18 01:00:00		**29.44**	**18.92**	**83.84**	**88.39**
03-Dec-18 02:00:00	03-Dec-18 03:00:00		53.94	0.00	0.00	5.26	2.1	329.7		17.78	0.00	0.00	1.73		10.35	18.92	83.84	86.68	03-Dec-18 02:00:00		**28.13**	**18.92**	**83.84**	**88.41**
03-Dec-18 03:00:00	03-Dec-18 04:00:00		39.23	0.00	0.00	5.36	2.1	329.7		12.94	0.00	0.00	1.77		10.35	18.92	83.84	86.68	03-Dec-18 03:00:00		**23.29**	**18.92**	**83.84**	**88.45**
03-Dec-18 04:00:00	03-Dec-18 05:00:00		4.12	0.00	0.00	5.48	2.1	329.7		1.36	0.00	0.00	1.81		10.35	18.92	83.84	86.68	03-Dec-18 04:00:00		**11.71**	**18.92**	**83.84**	**88.49**
03-Dec-18 05:00:00	03-Dec-18 06:00:00		6.49	0.00	0.00	5.61	2.1	329.7		2.14	0.00	0.00	1.85		10.35	18.92	83.84	86.68	03-Dec-18 05:00:00		**12.49**	**18.92**	**83.84**	**88.53**
03-Dec-18 06:00:00	03-Dec-18 07:00:00		5.45	0.00	0.00	5.73	2.1	329.7		1.80	0.00	0.00	1.89		10.35	18.92	83.84	86.68	03-Dec-18 06:00:00		**12.15**	**18.92**	**83.84**	**88.57**
03-Dec-18 07:00:00	03-Dec-18 08:00:00		30.20	0.00	0.00	5.82	2.1	329.7		9.96	0.00	0.00	1.92		10.35	18.92	83.84	86.68	03-Dec-18 07:00:00		**20.31**	**18.92**	**83.84**	**88.60**
03-Dec-18 08:00:00	03-Dec-18 09:00:00		51.41	0.00	0.00	5.80	2.1	329.7		16.95	0.00	0.00	1.91		10.35	18.92	83.84	86.68	03-Dec-18 08:00:00		**27.30**	**18.92**	**83.84**	**88.59**
03-Dec-18 09:00:00	03-Dec-18 10:00:00		27.26	0.00	0.00	5.78	2.1	329.7		8.99	0.00	0.00	1.91		10.35	18.92	83.84	86.68	03-Dec-18 09:00:00		**19.34**	**18.92**	**83.84**	**88.59**
03-Dec-18 10:00:00	03-Dec-18 11:00:00		13.05	0.00	0.00	5.77	2.1	329.7		4.30	0.00	0.00	1.90		10.35	18.92	83.84	86.68	03-Dec-18 10:00:00		**14.65**	**18.92**	**83.84**	**88.58**
03-Dec-18 11:00:00	03-Dec-18 12:00:00		9.18	0.00	0.00	5.56	2.1	329.7		3.03	0.00	0.00	1.83		10.35	18.92	83.84	86.68	03-Dec-18 11:00:00		**13.38**	**18.92**	**83.84**	**88.51**
03-Dec-18 12:00:00	03-Dec-18 13:00:00		16.40	0.00	0.00	5.38	2.1	329.7		5.41	0.00	0.00	1.77		10.35	18.92	83.84	86.68	03-Dec-18 12:00:00		**15.76**	**18.92**	**83.84**	**88.45**
03-Dec-18 13:00:00	03-Dec-18 14:00:00		39.89	0.00	0.00	5.21	2.1	329.7		13.15	0.00	0.00	1.72		10.35	18.92	83.84	86.68	03-Dec-18 13:00:00		**23.50**	**18.92**	**83.84**	**88.40**
03-Dec-18 14:00:00	03-Dec-18 15:00:00		20.05	0.00	0.00	5.05	2.1	329.7		6.61	0.00	0.00	1.66		10.35	18.92	83.84	86.68	03-Dec-18 14:00:00		**16.96**	**18.92**	**83.84**	**88.34**
03-Dec-18 15:00:00	03-Dec-18 16:00:00		50.59	0.00	0.00	5.03	2.1	329.7		16.68	0.00	0.00	1.66		10.35	18.92	83.84	86.68	03-Dec-18 15:00:00		**27.03**	**18.92**	**83.84**	**88.34**
03-Dec-18 16:00:00	03-Dec-18 17:00:00		45.88	0.00	0.00	5.06	2.1	329.7		15.13	0.00	0.00	1.67		10.35	18.92	83.84	86.68	03-Dec-18 16:00:00		**25.48**	**18.92**	**83.84**	**88.35**
03-Dec-18 17:00:00	03-Dec-18 18:00:00		45.60	0.00	0.00	5.07	2.1	329.7		15.04	0.00	0.00	1.67		10.35	18.92	83.84	86.68	03-Dec-18 17:00:00		**25.39**	**18.92**	**83.84**	**88.35**
03-Dec-18 18:00:00	03-Dec-18 19:00:00		47.90	0.00	0.00	5.09	2.1	329.7		15.79	0.00	0.00	1.68		10.35	18.92	83.84	86.68	03-Dec-18 18:00:00		**26.14**	**18.92**	**83.84**	**88.36**
03-Dec-18 19:00:00	03-Dec-18 20:00:00		38.90	0.00	0.00	5.25	2.1	329.7		12.82	0.00	0.00	1.73		10.35	18.92	83.84	86.68	03-Dec-18 19:00:00		**23.17**	**18.92**	**83.84**	**88.41**
03-Dec-18 20:00:00	03-Dec-18 21:00:00		29.28	0.00	0.00	5.41	2.1	329.7		9.65	0.00	0.00	1.78		10.35	18.92	83.84	86.68	03-Dec-18 20:00:00		**20.00**	**18.92**	**83.84**	**88.46**
03-Dec-18 21:00:00	03-Dec-18 22:00:00		35.55	0.00	0.00	5.56	2.1	329.7		11.72	0.00	0.00	1.83		10.35	18.92	83.84	86.68	03-Dec-18 21:00:00		**22.07**	**18.92**	**83.84**	**88.51**
03-Dec-18 22:00:00	03-Dec-18 23:00:00		18.66	0.00	0.00	5.71	2.1	329.7		6.15	0.00	0.00	1.88		10.35	18.92	83.84	86.68	03-Dec-18 22:00:00		**16.50**	**18.92**	**83.84**	**88.56**
03-Dec-18 23:00:00	04-Dec-18 00:00:00		16.25	0.00	0.00	5.91	2.1	329.7		5.36	0.00	0.00	1.95		10.35	18.92	83.84	86.68	03-Dec-18 23:00:00		**15.71**	**18.92**	**83.84**	**88.63**
04-Dec-18 00:00:00	04-Dec-18 01:00:00		45.63	0.00	0.00	6.01	2.1	329.7		15.05	0.00	0.00	1.98		10.35	18.92	83.84	86.68	04-Dec-18 00:00:00		**25.40**	**18.92**	**83.84**	**88.66**
04-Dec-18 01:00:00	04-Dec-18 02:00:00		45.91	0.00	0.00	6.11	2.1	329.7		15.14	0.00	0.00	2.02		10.35	18.92	83.84	86.68	04-Dec-18 01:00:00		**25.49**	**18.92**	**83.84**	**88.70**
04-Dec-18 02:00:00	04-Dec-18 03:00:00		36.72	0.00	0.00	6.21	2.1	329.7		12.11	0.00	0.00	2.05		10.35	18.92	83.84	86.68	04-Dec-18 02:00:00		**22.46**	**18.92**	**83.84**	**88.73**
04-Dec-18 03:00:00	04-Dec-18 04:00:00		17.39	0.00	0.00	6.32	2.1	329.7		5.73	0.00	0.00	2.09		10.35	18.92	83.84	86.68	04-Dec-18 03:00:00		**16.08**	**18.92**	**83.84**	**88.77**
04-Dec-18 04:00:00	04-Dec-18 05:00:00		4.52	0.00	0.00	6.41	2.1	329.7		1.49	0.00	0.00	2.11		10.35	18.92	83.84	86.68	04-Dec-18 04:00:00		**11.84**	**18.92**	**83.84**	**88.79**
04-Dec-18 05:00:00	04-Dec-18 06:00:00		31.88	26.82	0.00	6.50	2.1	329.7		10.51	8.84	0.00	2.14		10.35	18.92	83.84	86.68	04-Dec-18 05:00:00		**20.86**	**27.76**	**83.84**	**88.82**
04-Dec-18 06:00:00	04-Dec-18 07:00:00		35.26	108.53	0.00	6.58	2.1	329.7		11.62	35.78	0.00	2.17		10.35	18.92	83.84	86.68	04-Dec-18 06:00:00		**21.97**	**54.70**	**83.84**	**88.85**
04-Dec-18 07:00:00	04-Dec-18 08:00:00		56.84	111.93	0.00	6.65	2.1	329.7		18.74	36.90	0.00	2.19		10.35	18.92	83.84	86.68	04-Dec-18 07:00:00		**29.09**	**55.82**	**83.84**	**88.87**
04-Dec-18 08:00:00	04-Dec-18 09:00:00		36.37	127.24	0.00	6.61	2.1	329.7		11.99	41.95	0.00	2.18		10.35	18.92	83.84	86.68	04-Dec-18 08:00:00		**22.34**	**60.87**	**83.84**	**88.86**
04-Dec-18 09:00:00	04-Dec-18 10:00:00		44.98	143.92	0.00	6.56	2.1	329.7		14.83	47.45	0.00	2.16		10.35	18.92	83.84	86.68	04-Dec-18 09:00:00		**25.18**	**66.37**	**83.84**	**88.84**
04-Dec-18 10:00:00	04-Dec-18 11:00:00		34.70	148.58	0.00	6.51	2.1	329.7		11.44	48.99	0.00	2.15		10.35	18.92	83.84	86.68	04-Dec-18 10:00:00		**21.79**	**67.91**	**83.84**	**88.83**
04-Dec-18 11:00:00	04-Dec-18 12:00:00		38.99	160.14	0.00	6.51	2.1	329.7		12.85	52.80	0.00	2.15		10.35	18.92	83.84	86.68	04-Dec-18 11:00:00		**23.20**	**71.72**	**83.84**	**88.83**
04-Dec-18 12:00:00	04-Dec-18 13:00:00		46.97	163.60	0.00	6.41	2.1	329.7		15.49	53.94	0.00	2.11		10.35	18.92	83.84	86.68	04-Dec-18 12:00:00		**25.84**	**72.86**	**83.84**	**88.79**
04-Dec-18 13:00:00	04-Dec-18 14:00:00		45.87	324.93	0.00	6.30

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
06-Dec-18 15:00:00	06-Dec-18 16:00:00		5.26	0.00	0.00	5.94	2.1	329.7		1.73	0.00	0.00	1.96		10.35	18.92	83.84	86.68	06-Dec-18 15:00:00		12.08	18.92	83.84	88.64
06-Dec-18 16:00:00	06-Dec-18 17:00:00		8.91	0.00	0.00	5.97	2.1	329.7		2.94	0.00	0.00	1.97		10.35	18.92	83.84	86.68	06-Dec-18 16:00:00		13.29	18.92	83.84	88.65
06-Dec-18 17:00:00	06-Dec-18 18:00:00		6.50	0.00	0.00	5.99	2.1	329.7		2.14	0.00	0.00	1.97		10.35	18.92	83.84	86.68	06-Dec-18 17:00:00		12.49	18.92	83.84	88.65
06-Dec-18 18:00:00	06-Dec-18 19:00:00		7.34	0.00	0.00	6.00	2.1	329.7		2.42	0.00	0.00	1.98		10.35	18.92	83.84	86.68	06-Dec-18 18:00:00		12.77	18.92	83.84	88.66
06-Dec-18 19:00:00	06-Dec-18 20:00:00		9.92	0.00	0.00	6.05	2.1	329.7		3.27	0.00	0.00	2.00		10.35	18.92	83.84	86.68	06-Dec-18 19:00:00		13.62	18.92	83.84	88.68
06-Dec-18 20:00:00	06-Dec-18 21:00:00		5.24	0.00	0.00	6.35	2.1	329.7		1.73	0.00	0.00	2.09		10.35	18.92	83.84	86.68	06-Dec-18 20:00:00		12.08	18.92	83.84	88.77
06-Dec-18 21:00:00	06-Dec-18 22:00:00		2.65	0.00	0.00	6.67	2.1	329.7		0.87	0.00	0.00	2.20		10.35	18.92	83.84	86.68	06-Dec-18 21:00:00		11.22	18.92	83.84	88.88
06-Dec-18 22:00:00	06-Dec-18 23:00:00		0.36	0.00	0.00	7.00	2.1	329.7		0.12	0.00	0.00	2.31		10.35	18.92	83.84	86.68	06-Dec-18 22:00:00		10.47	18.92	83.84	88.99
06-Dec-18 23:00:00	07-Dec-18 00:00:00		0.23	0.00	0.00	7.10	2.1	329.7		0.08	0.00	0.00	2.34		10.35	18.92	83.84	86.68	06-Dec-18 23:00:00		10.43	18.92	83.84	89.02
07-Dec-18 00:00:00	07-Dec-18 01:00:00		0.10	0.00	0.00	7.00	2.1	329.7		0.03	0.00	0.00	2.31		10.35	18.92	83.84	86.68	07-Dec-18 00:00:00		10.38	18.92	83.84	88.99
07-Dec-18 01:00:00	07-Dec-18 02:00:00		0.01	0.00	0.00	6.91	2.1	329.7		0.00	0.00	0.00	2.28		10.35	18.92	83.84	86.68	07-Dec-18 01:00:00		10.35	18.92	83.84	88.96
07-Dec-18 02:00:00	07-Dec-18 03:00:00		0.00	0.00	0.00	6.82	2.1	329.7		0.00	0.00	0.00	2.25		10.35	18.92	83.84	86.68	07-Dec-18 02:00:00		10.35	18.92	83.84	88.93
07-Dec-18 03:00:00	07-Dec-18 04:00:00		0.00	0.00	0.00	6.90	2.1	329.7		0.00	0.00	0.00	2.27		10.35	18.92	83.84	86.68	07-Dec-18 03:00:00		10.35	18.92	83.84	88.95
07-Dec-18 04:00:00	07-Dec-18 05:00:00		0.00	0.00	0.00	7.07	2.1	329.7		0.00	0.00	0.00	2.33		10.35	18.92	83.84	86.68	07-Dec-18 04:00:00		10.35	18.92	83.84	89.01
07-Dec-18 05:00:00	07-Dec-18 06:00:00		0.23	0.00	0.00	7.22	2.1	329.7		0.07	0.00	0.00	2.38		10.35	18.92	83.84	86.68	07-Dec-18 05:00:00		10.42	18.92	83.84	89.06
07-Dec-18 06:00:00	07-Dec-18 07:00:00		1.39	0.00	0.00	7.37	2.1	329.7		0.46	0.00	0.00	2.43		10.35	18.92	83.84	86.68	07-Dec-18 06:00:00		10.81	18.92	83.84	89.11
07-Dec-18 07:00:00	07-Dec-18 08:00:00		5.36	0.00	0.00	7.39	2.1	329.7		1.77	0.00	0.00	2.44		10.35	18.92	83.84	86.68	07-Dec-18 07:00:00		12.12	18.92	83.84	89.12
07-Dec-18 08:00:00	07-Dec-18 09:00:00		12.32	0.00	0.00	7.12	2.1	329.7		4.06	0.00	0.00	2.35		10.35	18.92	83.84	86.68	07-Dec-18 08:00:00		14.41	18.92	83.84	89.03
07-Dec-18 09:00:00	07-Dec-18 10:00:00		11.98	0.00	0.00	6.84	2.1	329.7		3.95	0.00	0.00	2.26		10.35	18.92	83.84	86.68	07-Dec-18 09:00:00		14.30	18.92	83.84	88.94
07-Dec-18 10:00:00	07-Dec-18 11:00:00		10.18	0.00	0.00	6.56	2.1	329.7		3.36	0.00	0.00	2.16		10.35	18.92	83.84	86.68	07-Dec-18 10:00:00		13.71	18.92	83.84	88.84
07-Dec-18 11:00:00	07-Dec-18 12:00:00		2.85	0.00	0.00	6.49	2.1	329.7		0.94	0.00	0.00	2.14		10.35	18.92	83.84	86.68	07-Dec-18 11:00:00		11.29	18.92	83.84	88.82
07-Dec-18 12:00:00	07-Dec-18 13:00:00		15.86	0.00	0.00	6.44	2.1	329.7		5.23	0.00	0.00	2.12		10.35	18.92	83.84	86.68	07-Dec-18 12:00:00		15.58	18.92	83.84	88.80
07-Dec-18 13:00:00	07-Dec-18 14:00:00		15.41	0.00	0.00	6.34	2.1	329.7		5.08	0.00	0.00	2.09		10.35	18.92	83.84	86.68	07-Dec-18 13:00:00		15.43	18.92	83.84	88.77
07-Dec-18 14:00:00	07-Dec-18 15:00:00		12.74	0.00	0.00	6.24	2.1	329.7		4.20	0.00	0.00	2.06		10.35	18.92	83.84	86.68	07-Dec-18 14:00:00		14.55	18.92	83.84	88.74
07-Dec-18 15:00:00	07-Dec-18 16:00:00		10.52	0.00	0.00	6.18	2.1	329.7		3.47	0.00	0.00	2.04		10.35	18.92	83.84	86.68	07-Dec-18 15:00:00		13.82	18.92	83.84	88.72
07-Dec-18 16:00:00	07-Dec-18 17:00:00		14.46	0.00	0.00	6.20	2.1	329.7		4.77	0.00	0.00	2.04		10.35	18.92	83.84	86.68	07-Dec-18 16:00:00		15.12	18.92	83.84	88.72
07-Dec-18 17:00:00	07-Dec-18 18:00:00		15.94	0.00	0.00	6.22	2.1	329.7		5.25	0.00	0.00	2.05		10.35	18.92	83.84	86.68	07-Dec-18 17:00:00		15.60	18.92	83.84	88.73
07-Dec-18 18:00:00	07-Dec-18 19:00:00		4.03	0.00	0.00	6.25	2.1	329.7		1.33	0.00	0.00	2.06		10.35	18.92	83.84	86.68	07-Dec-18 18:00:00		11.68	18.92	83.84	88.74
07-Dec-18 19:00:00	07-Dec-18 20:00:00		3.66	0.00	0.00	6.29	2.1	329.7		1.21	0.00	0.00	2.07		10.35	18.92	83.84	86.68	07-Dec-18 19:00:00		11.56	18.92	83.84	88.75
07-Dec-18 20:00:00	07-Dec-18 21:00:00		3.44	0.00	0.00	6.33	2.1	329.7		1.13	0.00	0.00	2.09		10.35	18.92	83.84	86.68	07-Dec-18 20:00:00		11.48	18.92	83.84	88.77
07-Dec-18 21:00:00	07-Dec-18 22:00:00		3.22	0.00	0.00	6.36	2.1	329.7		1.06	0.00	0.00	2.10		10.35	18.92	83.84	86.68	07-Dec-18 21:00:00		11.41	18.92	83.84	88.78
07-Dec-18 22:00:00	07-Dec-18 23:00:00		4.12	0.00	0.00	6.39	2.1	329.7		1.36	0.00	0.00	2.11		10.35	18.92	83.84	86.68	07-Dec-18 22:00:00		11.71	18.92	83.84	88.79
07-Dec-18 23:00:00	08-Dec-18 00:00:00		4.93	0.00	0.00	6.39	2.1	329.7		1.63	0.00	0.00	2.11		10.35	18.92	83.84	86.68	07-Dec-18 23:00:00		11.98	18.92	83.84	88.79
08-Dec-18 00:00:00	08-Dec-18 01:00:00		5.71	0.00	0.00	6.39	2.1	329.7		1.88	0.00	0.00	2.11		10.35	18.92	83.84	86.68	08-Dec-18 00:00:00		12.23	18.92	83.84	88.79
08-Dec-18 01:00:00	08-Dec-18 02:00:00		6.21	0.00	0.00	6.40	2.1	329.7		2.05	0.00	0.00	2.11		10.35	18.92	83.84	86.68	08-Dec-18 01:00:00		12.40	18.92	83.84	88.79
08-Dec-18 02:00:00	08-Dec-18 03:00:00		4.64	0.00	0.00	6.41	2.1	329.7		1.53	0.00	0.00	2.11		10.35	18.92	83.84	86.68	08-Dec-18 02:00:00		11.88	18.92	83.84	88.79
08-Dec-18 03:00:00	08-Dec-18 04:00:00		4.45	0.00	0.00	6.31	2.1	329.7		1.47	0.00	0.00	2.08		10.35	18.92	83.84	86.68	08-Dec-18 03:00:00		11.82	18.92	83.84	88.76
08-Dec-18 04:00:00	08-Dec-18 05:00:00		2.18	0.00	0.00	6.31	2.1	329.7		0.72	0.00	0.00	2.08		10.35	18.92	83.84	86.68	08-Dec-18 04:00:00		11.07	18.92	83.84	88.76
08-Dec-18 05:00:00	08-Dec-18 06:00:00		1.33	0.00	0.00	6.35	2.1	329.7		0.44	0.00	0.00	2.09		10.35	18.92	83.84	86.68	08-Dec-18 05:00:00		10.79	18.92	83.84	88.77
08-Dec-18 06:00:00	08-Dec-18 07:00:00		2.17	0.00	0.00	6.39	2.1	329.7		0.72	0.00	0.00	2.11		10.35	18.92	83.84	86.68	08-Dec-18 06:00:00		11.07	18.92	83.84	88.79
08-Dec-18 07:00:00	08-Dec-18 08:00:00		3.22	0.00	0.00	6.45	2.1	329.7		1.06	0.00	0.00	2.13		10.35	18.92	83.84	86.68	08-Dec-18 07:00:00		11.41	18.92	83.84	88.81
08-Dec-18 08:00:00	08-Dec-18 09:00:00		2.18	0.00	0.00	6.48	2.1	329.7		0.72	0.00	0.00	2.14		10.35	18.92	83.84	86.68	08-Dec-18 08:00:00		11.07	18.92	83.84	88.82
08-Dec-18 09:00:00	08-Dec-18 10:00:00		0.00	0.00	0.00	6.51	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	08-Dec-18 09:00:00		10.35	18.92	83.84	88.83
08-Dec-18 10:00:00	08-Dec-18 11:00:00		0.00	0.00	0.00	6.53	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	08-Dec-18 10:00:00		10.35	18.92	83.84	88.83
08-Dec-18 11:00:00	08-Dec-18 12:00:00		0.00	0.00	0.00	6.61	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	08-Dec-18 11:00:00		10.35	18.92	83.84	88.86
08-Dec-18 12:00:00	08-Dec-18 13:00:00		0.12	0.00	0.00	6.70	2.1	329.7		0.04	0.00	0.00	2.21		10.35	18.92	83.84	86.68	08-Dec-18 12:00:00		10.39	18.92	83.84	88.89
08-Dec-18 13:00:00	08-Dec-18 14:00:00		0.82	0.00	0.00	6.78	2.1	329.7		0.27	0.00	0.00	2.23		10.35	18.92	83.84	86.68	08-Dec-18 13:00:00		10.62	18.92	83.84	88.91
08-Dec-18 14:00:00	08-Dec-18 15:00:00		1.61	0.00	0.00	6.85	2.1	329.7		0.53	0.00	0.00	2.26		10.35	18.92	83.84	86.68	08-Dec-18 14:00:00		10.88	18.92	83.84	88.94
08-Dec-18 15:00:00	08-Dec-18 16:00:00		2.39	0.00	0.00	7.05	2.1	329.7		0.79	0.00	0.00	2.32		10.35	18.92	83.84	86.68	08-Dec-18 15:00:00		11.14	18.92	83.84	89.00
08-Dec-18 16:00:00	08-Dec-18 17:00:00		2.03	0.00	0.00	7.12	2.1	329.7		0.67	0.00	0.00	2.35		10.35	18.92	83.84	86.68	08-Dec-18 16:00:00		11.02	18.92	83.84	89.03
08-Dec-18 17:00:00	08-Dec-18 18:00:00		1.29	0.00	0.00	7.13	2.1	329.7		0.42	0.00	0.00	2.35		10.35	18.92	83.84	86.68	08-Dec-18 17:00:00		10.77	18.92	83.84	89.03
08-Dec-18 18:00:00	08-Dec-18 19:00:00		2.55	0.00	0.00	7.13	2.1	329.7		0.84	0.00	0.00	2.35		10.35	18.92	83.84	86.68	08-Dec-18 18:00:00		11.19	18.92	83.84	89.03
08-Dec-18 19:00:00	08-Dec-18 20:00:00		26.31	0.00	0.00	7.04	2.1	329.7		8.68	0.00	0.00	2.32		10.35	18.92	83.84	86.68	08-Dec-18 19:00:00		19.03	18.92	83.84	89.00
08-Dec-18 20:00:00	08-Dec-18 21:00:00		30.26	0.00	0.00	7.06	2.1	329.7		9.98	0.00	0.00	2.33		10.35	18.92	83.84	86.68	08-Dec-18 20:00:00		20.33	18.92	83.84	89.01
08-Dec-18 21:00:00	08-Dec-18 22:00:00		324.31	0.00	0.00	7.13	2.1	329.7		106.93	0.00	0.00	2.35		10.35	18.92	83.84	86.68	08-Dec-18 21:00:00		117.28	18.92	83.84	89.03
08-Dec-18 22:00:00	08-Dec-18 23:00:00		775.15	0.00	0.00	7.20	2.1	329.7		255.57	0.00	0.00	2.37		10.35	18.92	83.84	86.68	08-Dec-18 22:00:00		265.92	18.92	83.84	89.05
08-Dec-18 23:00:00	09-Dec-18 00:00:00		618.97	0.00	0.00	7.19	2.1	329.7		204.07	0.00	0.00	2.37		10.35	18.92	83.84	86.68	08-Dec-18 23:00:00		214.42	18.92	83.84	89.05
09-Dec-18 00:00:00	09-Dec-18 01:00:00		44.46	0.00	0.00	7.29	2.1	329.7		14.66	0.00	0.00	2.40		10.35	18.92	83.84	86.68	09-Dec-18 00:00:00		25.01	18.92	83.84	89.08
09-Dec-18 01:00:00	09-Dec-18 02:00:00		16.88	0.00	0.00	7.43	2.1	329.7		5.56	0.00	0.00	2.45		10.35	18.92	83.84	86.68	09-Dec-18 01:00:00		15.91	18.92	83.84	89.13
09-Dec-18 02:00:00	09-Dec-18 03:00:00		19.88	0.00	0.00	7.57	2.1	329.7		6.55	0.00	0.00	2.50		10.35	18.92	83.84	86.68	09-Dec-18 02:00:00		16.90	18.92	83.84	89.18
09-Dec-18 03:00:00	09-Dec-18 04:00:00		14.31	0.00	0.00	7.62	2.1	329.7		4.72	0.00	0.00	2.51		10.35	18.92	83.84	86.68	09-Dec-18 03:00:00		15.07	18.92	83.84	89.19
09-Dec-18 04:00:00	09-Dec-18 05:00:00		27.30	0.00	0.00	7.69	2.1	329.7		9.00	0.00	0.00	2.54		10.35	18.92	83.84	86.68	09-Dec-18 04:00:00		19.35	18.92	83.84	89.22
09-Dec-18 05:00:00	09-Dec-18 06:00:00		17.49	0.00	0.00	7.80	2.1	329.7		5.77	0.00	0.00	2.57		10.35	18.92	83.84	86.68	09-Dec-18 05:00:00		16.12	18.92	83.84	89.25
09-Dec-18 06:00:00	09-Dec-18 07:00:00		17.35	0.00	0.00	7.91	2.1	329.7		5.72	0.00	0.00	2.61		10.35	18.92	83.84	86.68	09-Dec-18 06:00:00		16.07	18.92	83.84	89.29
09-Dec-18 07:00:00	09-Dec-18 08:00:00		4.94	0.00	0.00	7.97	2.1	329.7		1.63	0.00	0.00	2.63		10.35	18.92	83.84	86.68	09-Dec-18 07:00:00		11.98	18.92	83.84	89.31
09-Dec-18 08:00:00	09-Dec-18 09:00:00		3.52	0.00	0.00	7.84	2.1	329.7		1.16	0.00	0.00	2.59		10.35	18.92	83.84	86.68	09-Dec-18 08:00:00		11.51	18.92	83.84	89.27
09-Dec-18 09:00:00	09-Dec-18 10:00:00		0.37	0.00	0.00	7.69	2.1	329.7		0.12	0.00	0.00	2.53		10.35	18.92	83.84	86.68	09-Dec-18 09:00:00		10.47	18.92	83.84	89.21
09-Dec-18 10:00:00	09-Dec-18 11:00:00		0.93	0.00	0.00	7.53	2.1	329.7		0.31	0.00	0.00	2.48		10.35	18.92	83.84	86.68	09-Dec-18 10:00:00		10.66	18.92	83.84	89.16
09-Dec-18 11:00:00	09-Dec-18 12:00:00		1.49	0.00	0.00	7.39	2.1	329.7		0.49	0.00	0.00	2.44		10.35	18.92	83.84	86.68	09-Dec-18 11:00:00		10.84	18.92	83.84	89.12
09-Dec-18 12:00:00	09-Dec-18 13:00:00		2.78	0.00	0.00	7.28	2.1	329.7		0.92	0.00	0.00	2.40		10.35	18.92	83.84	86.68	09-Dec-18 12:00:00		11.27	18.92	83.84	89.08
09-Dec-18 13:00:00	09-Dec-18 14:00:00		22.50	0.00	0.00	7.16	2.1	329.7		7.42	0.00	0.00	2.36		10.35	18.92	83.84	86.68	09-Dec-18 13:00:00		17.77	18.92	83.84	89.04
09-Dec-18 14:00:00	09-Dec-18 15:00:00		26.21	0.00	0.00	7.05	2.1	329.7		8.64	0.00	0.00	2.32		10.35	18.92	83.84	86.68	09-Dec-18 14:00:00		18.99	18.92	83.84	89.00
09-Dec-18 15:00:00	09-Dec-18 16:00:00		25.83	0.00	0.00	6.98	2.1	329.7		8.52	0.00	0.00	2.30		10.35	18.92	83.84	86.68	09-Dec-18 15:00:00		18.87	18.92	83.84	88.98
09-Dec-18 16:00:00	09-Dec-18 17:00:00		25.45	0.00	0.00	6.98	2.1	329.7		8.39	0.00	0.00	2.30		10.35	18.92	83.84	86.68	09-Dec-18 16:00:00		18.74	18.92	83.84	88.98
09-Dec-18 17:00:00	09-Dec-18 18:00:00		24.85	0.00	0.00	6.97	2.1	329.7		8.19	0.00	0.00	2.30		10.35	18.92	83.84	86.68	09-Dec-18 17:00:00		18.54	18.92	83.84	88.98
09-Dec-18 18:00:00	09-Dec-18 19:00:00		24.99	0.00	0.00	6.96	2.1	329.7		8.24	0.00	0.00	2.29		10.35	18.92	83.84	86.68	09-Dec-18 18:00:00		18.59	18.92	83.84	88.97
09-Dec-18 19:00:00	09-Dec-18 20:00:00		25.22	0.00	0.00	6.93	2.1	329.7		8.32	0.00	0.00	2.29		10.35	18.92	83.84	86.68	09-Dec-18 19:00:00		18.67	18.92	83.84	88.97
09-Dec-18 20:00:00	09-Dec-18 21:00:00		25.46	0.00	0.00	6.95	2.1	329.7		8.39	0.00	0.00	2.29		10.35	18.92	83.84	86.68	09-Dec-18 20:00:00		18.74	18.92	83.84	88.97
09-Dec-18 21:00:00	09-Dec-18 22:00:00		26.15	0.00	0.00	6.99	2.1	329.7		8.62	0.00	0.00	2.30		10.35	18.92	83.84	86.68	09-Dec-18 21:00:00		18.97	18.92	83.84	88.98
09-Dec-18 22:00:00	09-Dec-18 23:00:00		26.21	0.00	0.00	7.02	2.1	329.7		8.64	0.00	0.00	2.32		10.35	18.92	83.84	86.68	09-Dec-18 22:00:00		18.99	18.92	83.84	89.00
09-Dec-18 23:00:00	10-Dec-18 00:00:00		26.13	0.00	0.00	7.07	2.1	329.7		8.62	0.00	0.00	2.33		10.35	18.92	83.84	86.68	09-Dec-18 23:00:00		18.97	18.92	83.84	89.01
10-Dec-18 00:00:00	10-Dec-18 01:00:00		26.05	0.00	0.00	7.08	2.1	329.7		8.59	0.00	0.00	2.33		10.35	18.92	83.84	86.68	10-Dec-18 00:00:00		18.94	18.92	83.84	89.01
10-Dec-18 01:00:00	10-Dec-18 02:00:00		25.54	0.00	0.00	7.08	2.1	329.7		8.42	0.00	0.00	2.33		10.35	18.92	83.84	86.68	10-Dec-18 01:00:00		18.77	18.92	83.84	89.01
10-Dec-18 02:00:00	10-Dec-18 03:00:00		25.19	0.00	0.00	7.08	2.1	329.7		8.31	0.00	0.00	2.33		10.35	18.92	83.84	86.68	10-Dec-18 02:00:00		18.66	18.92	83.84	89.01
10-Dec-18 03:00:00	10-Dec-18 04:00:00		24.94	0.00	0.00	7.11	2.1	329.7		8.22	0.00	0.00	2.34		10.35	18.92	83.84	86.68	10-Dec-18 03:00:00		18.57	18.92	83.84	89.02
10-Dec-18 04:00:00	10-Dec-18 05:00:00		24.68	0.00	0.00	7.11	2.1	329.7		8.14	0.00	0.00	2.34		10.35	18.92	83.84	86.68	10-Dec-18 04:00:00		18.49	18.92	83.84	89.02
10-Dec-18 05:00:00	10-Dec-18 06:00:00		24.74	0.00	0.00	7.07	2.1	329.7		8.16	0.00	0.00	2.33		10.35	18.92	83.84	86.68	10-Dec-18 05:00:00		18.51	18.92	83.84	89.01
10-Dec-18 06:00:00	10-Dec-18 07:00:00		24.72	0.00	0.00	7.04	2.1	329.7		8.15	0.00	0.00	2.32		10.35	18.92	83.84	86.68	10-Dec-18 06:00:00		18.50	18.92	83.84	89.00
10-Dec-18 07:00:00	10-Dec-18 08:00:00		24.62	0.00	0.00	7.03	2.1	329.7		8.12	0.00	0.00	2.32		10.35	18.92	83.84	86.68	10-Dec-18 07:00:00		18.47	18.92	83.84	89.00
10-Dec-18 08:00:00	10-Dec-18 09:00:00		24.53	0.00	0.00	6.94	2.1	329.7		8.09	0.00	0.00	2.29		10.35	18.92	83.84	86.68	10-Dec-18 08:00:00		18.44	18.92	83.84	88.97
10-Dec-18 09:00:00	10-Dec-18 10:00:00		24.12	0.00	0.00	6.84	2.1	329.7		7.95	0.00	0.00	2.25		10.35	18.92	83.84	86.68	10-Dec-18 09:00:00		18.30	18.92	83.84	88.93
10-Dec-18 10:00:00	10-Dec-18 11:00:00		82.34	0.00	0.00	6.73	2.1	329.7		27.15	0.00	0.00	2.22		10.35	18.92	83.84	86.68	10-Dec-18 10:00:00		37.50	18.92	83.84	88.90
10-Dec-18 11:00:00	10-Dec-18 12:00:00		465.08	0.00	0.00	6.63	2.1	329.7		153.34	0.00	0.00	2.19		10.35	18.92	83.84	86.68	10-Dec-18 11:00:00		163.69	18.92	83.84	88.87
10-Dec-18 12:00:00	10-Dec-18 13:00:00		470.88	0.00	0.00	6.57

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
12-Dec-18 14:00:00	12-Dec-18 15:00:00		21.10	0.00	0.00	6.05	2.1	329.7		6.96	0.00	0.00	2.00		10.35	18.92	83.84	86.68	12-Dec-18 14:00:00		17.31	18.92	83.84	88.68
12-Dec-18 15:00:00	12-Dec-18 16:00:00		25.95	0.00	0.00	5.82	2.1	329.7		8.56	0.00	0.00	1.92		10.35	18.92	83.84	86.68	12-Dec-18 15:00:00		18.91	18.92	83.84	88.60
12-Dec-18 16:00:00	12-Dec-18 17:00:00		22.05	0.00	0.00	5.78	2.1	329.7		7.27	0.00	0.00	1.90		10.35	18.92	83.84	86.68	12-Dec-18 16:00:00		17.62	18.92	83.84	88.58
12-Dec-18 17:00:00	12-Dec-18 18:00:00		24.49	0.00	0.00	5.80	2.1	329.7		8.07	0.00	0.00	1.91		10.35	18.92	83.84	86.68	12-Dec-18 17:00:00		18.42	18.92	83.84	88.59
12-Dec-18 18:00:00	12-Dec-18 19:00:00		19.36	0.00	0.00	5.83	2.1	329.7		6.38	0.00	0.00	1.92		10.35	18.92	83.84	86.68	12-Dec-18 18:00:00		16.73	18.92	83.84	88.60
12-Dec-18 19:00:00	12-Dec-18 20:00:00		18.70	0.00	0.00	5.84	2.1	329.7		6.17	0.00	0.00	1.93		10.35	18.92	83.84	86.68	12-Dec-18 19:00:00		16.52	18.92	83.84	88.61
12-Dec-18 20:00:00	12-Dec-18 21:00:00		17.97	0.00	0.00	6.01	2.1	329.7		5.93	0.00	0.00	1.98		10.35	18.92	83.84	86.68	12-Dec-18 20:00:00		16.28	18.92	83.84	88.66
12-Dec-18 21:00:00	12-Dec-18 22:00:00		18.12	0.00	0.00	6.26	2.1	329.7		5.98	0.00	0.00	2.06		10.35	18.92	83.84	86.68	12-Dec-18 21:00:00		16.33	18.92	83.84	88.74
12-Dec-18 22:00:00	12-Dec-18 23:00:00		18.14	0.00	0.00	6.50	2.1	329.7		5.98	0.00	0.00	2.14		10.35	18.92	83.84	86.68	12-Dec-18 22:00:00		16.33	18.92	83.84	88.82
12-Dec-18 23:00:00	13-Dec-18 00:00:00		13.70	0.00	0.00	6.55	2.1	329.7		4.52	0.00	0.00	2.16		10.35	18.92	83.84	86.68	12-Dec-18 23:00:00		14.87	18.92	83.84	88.84
13-Dec-18 00:00:00	13-Dec-18 01:00:00		9.20	0.00	0.00	6.46	2.1	329.7		3.03	0.00	0.00	2.13		10.35	18.92	83.84	86.68	13-Dec-18 00:00:00		13.38	18.92	83.84	88.81
13-Dec-18 01:00:00	13-Dec-18 02:00:00		6.94	0.00	0.00	6.54	2.1	329.7		2.29	0.00	0.00	2.16		10.35	18.92	83.84	86.68	13-Dec-18 01:00:00		12.64	18.92	83.84	88.84
13-Dec-18 02:00:00	13-Dec-18 03:00:00		15.82	0.00	0.00	6.62	2.1	329.7		5.22	0.00	0.00	2.18		10.35	18.92	83.84	86.68	13-Dec-18 02:00:00		15.57	18.92	83.84	88.86
13-Dec-18 03:00:00	13-Dec-18 04:00:00		24.74	0.00	0.00	6.65	2.1	329.7		8.16	0.00	0.00	2.19		10.35	18.92	83.84	86.68	13-Dec-18 03:00:00		18.51	18.92	83.84	88.87
13-Dec-18 04:00:00	13-Dec-18 05:00:00		30.97	0.00	0.00	6.61	2.1	329.7		10.21	0.00	0.00	2.18		10.35	18.92	83.84	86.68	13-Dec-18 04:00:00		20.56	18.92	83.84	88.86
13-Dec-18 05:00:00	13-Dec-18 06:00:00		22.39	0.00	0.00	6.62	2.1	329.7		7.38	0.00	0.00	2.18		10.35	18.92	83.84	86.68	13-Dec-18 05:00:00		17.73	18.92	83.84	88.86
13-Dec-18 06:00:00	13-Dec-18 07:00:00		14.83	0.00	0.00	6.63	2.1	329.7		4.89	0.00	0.00	2.19		10.35	18.92	83.84	86.68	13-Dec-18 06:00:00		15.24	18.92	83.84	88.87
13-Dec-18 07:00:00	13-Dec-18 08:00:00		9.26	0.00	0.00	6.68	2.1	329.7		3.05	0.00	0.00	2.20		10.35	18.92	83.84	86.68	13-Dec-18 07:00:00		13.40	18.92	83.84	88.88
13-Dec-18 08:00:00	13-Dec-18 09:00:00		14.28	0.00	0.00	6.57	2.1	329.7		4.71	0.00	0.00	2.17		10.35	18.92	83.84	86.68	13-Dec-18 08:00:00		15.06	18.92	83.84	88.85
13-Dec-18 09:00:00	13-Dec-18 10:00:00		15.39	0.00	0.00	6.35	2.1	329.7		5.07	0.00	0.00	2.09		10.35	18.92	83.84	86.68	13-Dec-18 09:00:00		15.42	18.92	83.84	88.77
13-Dec-18 10:00:00	13-Dec-18 11:00:00		12.69	0.00	0.00	6.13	2.1	329.7		4.18	0.00	0.00	2.02		10.35	18.92	83.84	86.68	13-Dec-18 10:00:00		14.53	18.92	83.84	88.70
13-Dec-18 11:00:00	13-Dec-18 12:00:00		12.51	0.00	0.00	5.88	2.1	329.7		4.12	0.00	0.00	1.94		10.35	18.92	83.84	86.68	13-Dec-18 11:00:00		14.47	18.92	83.84	88.62
13-Dec-18 12:00:00	13-Dec-18 13:00:00		21.05	0.00	0.00	5.69	2.1	329.7		6.94	0.00	0.00	1.88		10.35	18.92	83.84	86.68	13-Dec-18 12:00:00		17.29	18.92	83.84	88.56
13-Dec-18 13:00:00	13-Dec-18 14:00:00		45.89	0.00	0.00	5.56	2.1	329.7		15.13	0.00	0.00	1.83		10.35	18.92	83.84	86.68	13-Dec-18 13:00:00		25.48	18.92	83.84	88.51
13-Dec-18 14:00:00	13-Dec-18 15:00:00		36.83	0.00	0.00	5.43	2.1	329.7		12.14	0.00	0.00	1.79		10.35	18.92	83.84	86.68	13-Dec-18 14:00:00		22.49	18.92	83.84	88.47
13-Dec-18 15:00:00	13-Dec-18 16:00:00		28.56	0.00	0.00	5.35	2.1	329.7		9.42	0.00	0.00	1.76		10.35	18.92	83.84	86.68	13-Dec-18 15:00:00		19.77	18.92	83.84	88.44
13-Dec-18 16:00:00	13-Dec-18 17:00:00		26.88	0.00	0.00	5.47	2.1	329.7		8.86	0.00	0.00	1.80		10.35	18.92	83.84	86.68	13-Dec-18 16:00:00		19.21	18.92	83.84	88.48
13-Dec-18 17:00:00	13-Dec-18 18:00:00		28.29	0.00	0.00	5.59	2.1	329.7		9.33	0.00	0.00	1.84		10.35	18.92	83.84	86.68	13-Dec-18 17:00:00		19.68	18.92	83.84	88.52
13-Dec-18 18:00:00	13-Dec-18 19:00:00		29.58	0.00	0.00	5.71	2.1	329.7		9.75	0.00	0.00	1.88		10.35	18.92	83.84	86.68	13-Dec-18 18:00:00		20.10	18.92	83.84	88.56
13-Dec-18 19:00:00	13-Dec-18 20:00:00		30.67	0.00	0.00	5.80	2.1	329.7		10.11	0.00	0.00	1.91		10.35	18.92	83.84	86.68	13-Dec-18 19:00:00		20.46	18.92	83.84	88.59
13-Dec-18 20:00:00	13-Dec-18 21:00:00		30.25	0.00	0.00	5.81	2.1	329.7		9.97	0.00	0.00	1.92		10.35	18.92	83.84	86.68	13-Dec-18 20:00:00		20.32	18.92	83.84	88.60
13-Dec-18 21:00:00	13-Dec-18 22:00:00		29.83	0.00	0.00	5.82	2.1	329.7		9.83	0.00	0.00	1.92		10.35	18.92	83.84	86.68	13-Dec-18 21:00:00		20.18	18.92	83.84	88.60
13-Dec-18 22:00:00	13-Dec-18 23:00:00		29.39	0.00	0.00	5.83	2.1	329.7		9.69	0.00	0.00	1.92		10.35	18.92	83.84	86.68	13-Dec-18 22:00:00		20.04	18.92	83.84	88.60
13-Dec-18 23:00:00	14-Dec-18 00:00:00		29.93	0.00	0.00	5.82	2.1	329.7		9.87	0.00	0.00	1.92		10.35	18.92	83.84	86.68	13-Dec-18 23:00:00		20.22	18.92	83.84	88.60
14-Dec-18 00:00:00	14-Dec-18 01:00:00		29.59	0.00	0.00	5.85	2.1	329.7		9.76	0.00	0.00	1.93		10.35	18.92	83.84	86.68	14-Dec-18 00:00:00		20.11	18.92	83.84	88.61
14-Dec-18 01:00:00	14-Dec-18 02:00:00		29.41	0.00	0.00	5.94	2.1	329.7		9.70	0.00	0.00	1.96		10.35	18.92	83.84	86.68	14-Dec-18 01:00:00		20.05	18.92	83.84	88.64
14-Dec-18 02:00:00	14-Dec-18 03:00:00		29.53	0.00	0.00	6.02	2.1	329.7		9.74	0.00	0.00	1.99		10.35	18.92	83.84	86.68	14-Dec-18 02:00:00		20.09	18.92	83.84	88.67
14-Dec-18 03:00:00	14-Dec-18 04:00:00		29.64	0.00	0.00	5.98	2.1	329.7		9.77	0.00	0.00	1.97		10.35	18.92	83.84	86.68	14-Dec-18 03:00:00		20.12	18.92	83.84	88.65
14-Dec-18 04:00:00	14-Dec-18 05:00:00		29.13	0.00	0.00	6.00	2.1	329.7		9.61	0.00	0.00	1.98		10.35	18.92	83.84	86.68	14-Dec-18 04:00:00		19.96	18.92	83.84	88.66
14-Dec-18 05:00:00	14-Dec-18 06:00:00		34.07	0.00	0.00	6.23	2.1	329.7		11.23	0.00	0.00	2.05		10.35	18.92	83.84	86.68	14-Dec-18 05:00:00		21.58	18.92	83.84	88.73
14-Dec-18 06:00:00	14-Dec-18 07:00:00		29.86	0.00	0.00	6.46	2.1	329.7		9.84	0.00	0.00	2.13		10.35	18.92	83.84	86.68	14-Dec-18 06:00:00		20.19	18.92	83.84	88.81
14-Dec-18 07:00:00	14-Dec-18 08:00:00		30.08	0.00	0.00	6.67	2.1	329.7		9.92	0.00	0.00	2.20		10.35	18.92	83.84	86.68	14-Dec-18 07:00:00		20.27	18.92	83.84	88.88
14-Dec-18 08:00:00	14-Dec-18 09:00:00		44.42	0.00	0.00	6.67	2.1	329.7		14.65	0.00	0.00	2.20		10.35	18.92	83.84	86.68	14-Dec-18 08:00:00		25.00	18.92	83.84	88.88
14-Dec-18 09:00:00	14-Dec-18 10:00:00		49.21	0.00	0.00	6.62	2.1	329.7		16.22	0.00	0.00	2.18		10.35	18.92	83.84	86.68	14-Dec-18 09:00:00		26.57	18.92	83.84	88.86
14-Dec-18 10:00:00	14-Dec-18 11:00:00		49.79	0.00	0.00	6.56	2.1	329.7		16.42	0.00	0.00	2.16		10.35	18.92	83.84	86.68	14-Dec-18 10:00:00		26.77	18.92	83.84	88.84
14-Dec-18 11:00:00	14-Dec-18 12:00:00		73.28	0.00	0.00	6.44	2.1	329.7		24.16	0.00	0.00	2.12		10.35	18.92	83.84	86.68	14-Dec-18 11:00:00		34.51	18.92	83.84	88.80
14-Dec-18 12:00:00	14-Dec-18 13:00:00		327.57	0.00	0.00	6.24	2.1	329.7		108.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	14-Dec-18 12:00:00		118.35	18.92	83.84	88.74
14-Dec-18 13:00:00	14-Dec-18 14:00:00		303.64	0.00	0.00	6.12	2.1	329.7		100.11	0.00	0.00	2.02		10.35	18.92	83.84	86.68	14-Dec-18 13:00:00		110.46	18.92	83.84	88.70
14-Dec-18 14:00:00	14-Dec-18 15:00:00		305.67	0.00	0.00	6.00	2.1	329.7		100.78	0.00	0.00	1.98		10.35	18.92	83.84	86.68	14-Dec-18 14:00:00		111.13	18.92	83.84	88.66
14-Dec-18 15:00:00	14-Dec-18 16:00:00		359.33	0.00	0.00	5.87	2.1	329.7		118.47	0.00	0.00	1.93		10.35	18.92	83.84	86.68	14-Dec-18 15:00:00		128.82	18.92	83.84	88.61
14-Dec-18 16:00:00	14-Dec-18 17:00:00		422.83	0.00	0.00	5.90	2.1	329.7		139.41	0.00	0.00	1.95		10.35	18.92	83.84	86.68	14-Dec-18 16:00:00		149.76	18.92	83.84	88.63
14-Dec-18 17:00:00	14-Dec-18 18:00:00		408.51	0.00	0.00	6.03	2.1	329.7		134.69	0.00	0.00	1.99		10.35	18.92	83.84	86.68	14-Dec-18 17:00:00		145.04	18.92	83.84	88.67
14-Dec-18 18:00:00	14-Dec-18 19:00:00		385.65	0.00	0.00	6.17	2.1	329.7		127.15	0.00	0.00	2.03		10.35	18.92	83.84	86.68	14-Dec-18 18:00:00		137.50	18.92	83.84	88.71
14-Dec-18 19:00:00	14-Dec-18 20:00:00		342.69	0.00	0.00	6.23	2.1	329.7		112.98	0.00	0.00	2.05		10.35	18.92	83.84	86.68	14-Dec-18 19:00:00		123.33	18.92	83.84	88.73
14-Dec-18 20:00:00	14-Dec-18 21:00:00		387.49	0.00	0.00	6.07	2.1	329.7		127.75	0.00	0.00	2.00		10.35	18.92	83.84	86.68	14-Dec-18 20:00:00		138.10	18.92	83.84	88.68
14-Dec-18 21:00:00	14-Dec-18 22:00:00		403.15	0.00	0.00	5.96	2.1	329.7		132.92	0.00	0.00	1.96		10.35	18.92	83.84	86.68	14-Dec-18 21:00:00		143.27	18.92	83.84	88.64
14-Dec-18 22:00:00	14-Dec-18 23:00:00		347.17	0.00	0.00	5.84	2.1	329.7		114.46	0.00	0.00	1.93		10.35	18.92	83.84	86.68	14-Dec-18 22:00:00		124.81	18.92	83.84	88.61
14-Dec-18 23:00:00	15-Dec-18 00:00:00		374.38	0.00	0.00	5.80	2.1	329.7		123.43	0.00	0.00	1.91		10.35	18.92	83.84	86.68	14-Dec-18 23:00:00		133.78	18.92	83.84	88.59
15-Dec-18 00:00:00	15-Dec-18 01:00:00		347.07	0.00	0.00	5.97	2.1	329.7		114.43	0.00	0.00	1.97		10.35	18.92	83.84	86.68	15-Dec-18 00:00:00		124.78	18.92	83.84	88.65
15-Dec-18 01:00:00	15-Dec-18 02:00:00		344.77	0.00	0.00	6.10	2.1	329.7		113.67	0.00	0.00	2.01		10.35	18.92	83.84	86.68	15-Dec-18 01:00:00		124.02	18.92	83.84	88.69
15-Dec-18 02:00:00	15-Dec-18 03:00:00		349.79	0.00	0.00	6.23	2.1	329.7		115.33	0.00	0.00	2.05		10.35	18.92	83.84	86.68	15-Dec-18 02:00:00		125.68	18.92	83.84	88.73
15-Dec-18 03:00:00	15-Dec-18 04:00:00		355.89	0.00	0.00	6.33	2.1	329.7		117.34	0.00	0.00	2.09		10.35	18.92	83.84	86.68	15-Dec-18 03:00:00		127.69	18.92	83.84	88.77
15-Dec-18 04:00:00	15-Dec-18 05:00:00		355.91	0.00	0.00	6.34	2.1	329.7		117.34	0.00	0.00	2.09		10.35	18.92	83.84	86.68	15-Dec-18 04:00:00		127.69	18.92	83.84	88.77
15-Dec-18 05:00:00	15-Dec-18 06:00:00		347.65	0.00	0.00	6.39	2.1	329.7		114.62	0.00	0.00	2.11		10.35	18.92	83.84	86.68	15-Dec-18 05:00:00		124.97	18.92	83.84	88.79
15-Dec-18 06:00:00	15-Dec-18 07:00:00		347.20	0.00	0.00	6.43	2.1	329.7		114.47	0.00	0.00	2.12		10.35	18.92	83.84	86.68	15-Dec-18 06:00:00		124.82	18.92	83.84	88.80
15-Dec-18 07:00:00	15-Dec-18 08:00:00		350.91	0.00	0.00	6.45	2.1	329.7		115.69	0.00	0.00	2.13		10.35	18.92	83.84	86.68	15-Dec-18 07:00:00		126.04	18.92	83.84	88.81
15-Dec-18 08:00:00	15-Dec-18 09:00:00		352.58	0.00	0.00	6.38	2.1	329.7		116.24	0.00	0.00	2.10		10.35	18.92	83.84	86.68	15-Dec-18 08:00:00		126.59	18.92	83.84	88.78
15-Dec-18 09:00:00	15-Dec-18 10:00:00		349.14	0.00	0.00	6.32	2.1	329.7		115.11	0.00	0.00	2.08		10.35	18.92	83.84	86.68	15-Dec-18 09:00:00		125.46	18.92	83.84	88.76
15-Dec-18 10:00:00	15-Dec-18 11:00:00		341.99	0.00	0.00	6.26	2.1	329.7		112.75	0.00	0.00	2.06		10.35	18.92	83.84	86.68	15-Dec-18 10:00:00		123.10	18.92	83.84	88.74
15-Dec-18 11:00:00	15-Dec-18 12:00:00		362.69	0.00	0.00	6.26	2.1	329.7		119.58	0.00	0.00	2.06		10.35	18.92	83.84	86.68	15-Dec-18 11:00:00		129.93	18.92	83.84	88.74
15-Dec-18 12:00:00	15-Dec-18 13:00:00		377.44	0.00	0.00	6.16	2.1	329.7		124.44	0.00	0.00	2.03		10.35	18.92	83.84	86.68	15-Dec-18 12:00:00		134.79	18.92	83.84	88.71
15-Dec-18 13:00:00	15-Dec-18 14:00:00		376.88	0.00	0.00	5.88	2.1	329.7		124.26	0.00	0.00	1.94		10.35	18.92	83.84	86.68	15-Dec-18 13:00:00		134.61	18.92	83.84	88.62
15-Dec-18 14:00:00	15-Dec-18 15:00:00		367.95	0.00	0.00	5.60	2.1	329.7		121.31	0.00	0.00	1.85		10.35	18.92	83.84	86.68	15-Dec-18 14:00:00		131.66	18.92	83.84	88.53
15-Dec-18 15:00:00	15-Dec-18 16:00:00		377.72	0.00	0.00	5.40	2.1	329.7		124.54	0.00	0.00	1.78		10.35	18.92	83.84	86.68	15-Dec-18 15:00:00		134.89	18.92	83.84	88.46
15-Dec-18 16:00:00	15-Dec-18 17:00:00		374.88	0.00	0.00	5.48	2.1	329.7		123.60	0.00	0.00	1.81		10.35	18.92	83.84	86.68	15-Dec-18 16:00:00		133.95	18.92	83.84	88.49
15-Dec-18 17:00:00	15-Dec-18 18:00:00		355.09	0.00	0.00	5.50	2.1	329.7		117.07	0.00	0.00	1.81		10.35	18.92	83.84	86.68	15-Dec-18 17:00:00		127.42	18.92	83.84	88.49
15-Dec-18 18:00:00	15-Dec-18 19:00:00		318.58	0.00	0.00	5.52	2.1	329.7		105.03	0.00	0.00	1.82		10.35	18.92	83.84	86.68	15-Dec-18 18:00:00		115.38	18.92	83.84	88.50
15-Dec-18 19:00:00	15-Dec-18 20:00:00		307.10	0.00	0.00	5.55	2.1	329.7		101.25	0.00	0.00	1.83		10.35	18.92	83.84	86.68	15-Dec-18 19:00:00		111.60	18.92	83.84	88.51
15-Dec-18 20:00:00	15-Dec-18 21:00:00		292.22	0.00	0.00	5.58	2.1	329.7		96.34	0.00	0.00	1.84		10.35	18.92	83.84	86.68	15-Dec-18 20:00:00		106.69	18.92	83.84	88.52
15-Dec-18 21:00:00	15-Dec-18 22:00:00		295.36	0.00	0.00	5.63	2.1	329.7		97.38	0.00	0.00	1.86		10.35	18.92	83.84	86.68	15-Dec-18 21:00:00		107.73	18.92	83.84	88.54
15-Dec-18 22:00:00	15-Dec-18 23:00:00		319.75	0.00	0.00	5.68	2.1	329.7		105.42	0.00	0.00	1.87		10.35	18.92	83.84	86.68	15-Dec-18 22:00:00		115.77	18.92	83.84	88.55
15-Dec-18 23:00:00	16-Dec-18 00:00:00		365.75	0.00	0.00	5.75	2.1	329.7		120.59	0.00	0.00	1.90		10.35	18.92	83.84	86.68	15-Dec-18 23:00:00		130.94	18.92	83.84	88.58
16-Dec-18 00:00:00	16-Dec-18 01:00:00		384.24	0.00	0.00	5.89	2.1	329.7		126.69	0.00	0.00	1.94		10.35	18.92	83.84	86.68	16-Dec-18 00:00:00		137.04	18.92	83.84	88.62
16-Dec-18 01:00:00	16-Dec-18 02:00:00		407.18	0.00	0.00	6.00	2.1	329.7		134.25	0.00	0.00	1.98		10.35	18.92	83.84	86.68	16-Dec-18 01:00:00		144.60	18.92	83.84	88.66
16-Dec-18 02:00:00	16-Dec-18 03:00:00		388.06	0.00	0.00	6.11	2.1	329.7		127.94	0.00	0.00	2.01		10.35	18.92	83.84	86.68	16-Dec-18 02:00:00		138.29	18.92	83.84	88.69
16-Dec-18 03:00:00	16-Dec-18 04:00:00		400.71	0.00	0.00	6.20	2.1	329.7		132.12	0.00	0.00	2.04		10.35	18.92	83.84	86.68	16-Dec-18 03:00:00		142.47	18.92	83.84	88.72
16-Dec-18 04:00:00	16-Dec-18 05:00:00		408.83	0.00	0.00	6.25	2.1	329.7		134.79	0.00	0.00	2.06		10.35	18.92	83.84	86.68	16-Dec-18 04:00:00		145.14	18.92	83.84	88.74
16-Dec-18 05:00:00	16-Dec-18 06:00:00		422.56	0.00	0.00	6.33	2.1	329.7		139.32	0.00	0.00	2.09		10.35	18.92	83.84	86.68	16-Dec-18 05:00:00		149.67	18.92	83.84	88.77
16-Dec-18 06:00:00	16-Dec-18 07:00:00		421.79	0.00	0.00	6.41	2.1	329.7		139.06	0.00	0.00	2.11		10.35	18.92	83.84	86.68	16-Dec-18 06:00:00		149.41	18.92	83.84	88.79
16-Dec-18 07:00:00	16-Dec-18 08:00:00		397.34	0.00	0.00	6.48	2.1	329.7		131.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	16-Dec-18 07:00:00		141.35	18.92	83.84	88.82
16-Dec-18 08:00:00	16-Dec-18 09:00:00		353.80	0.00	0.00	6.37	2.1	329.7		116.65	0.00	0.00	2.10		10.35	18.92	83.84	86.68	16-Dec-18 08:00:00		127.00	18.92	83.84	88.78
16-Dec-18 09:00:00	16-Dec-18 10:00:00		338.86	0.00	0.00	6.22	2.1	329.7		111.72	0.00	0.00	2.05		10.35	18.92	83.84	86.68	16-Dec-18 09:00:00		122.07	18.92	83.84	88.73
16-Dec-18 10:00:00	16-Dec-18 11:00:00		337.40	0.00	0.00	6.07	2.1	329.7		111.24	0.00	0.00	2.00		10.35	18.92	83.84	86.68	16-Dec-18 10:00:00		121.59	18.92	83.84	88.68
16-Dec-18 11:00:00	16-Dec-18 12:00:00		322.34	0.00	0.00	5.88

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
18-Dec-18 13:00:00	18-Dec-18 14:00:00		0.63	0.00	0.00	5.60	2.1	329.7		0.21	0.00	0.00	1.85		10.35	18.92	83.84	86.68	18-Dec-18 13:00:00		**10.56**	**18.92**	**83.84**	**88.53**
18-Dec-18 14:00:00	18-Dec-18 15:00:00		0.35	0.00	0.00	5.48	2.1	329.7		0.11	0.00	0.00	1.81		10.35	18.92	83.84	86.68	18-Dec-18 14:00:00		**10.46**	**18.92**	**83.84**	**88.49**
18-Dec-18 15:00:00	18-Dec-18 16:00:00		0.08	0.00	0.00	5.36	2.1	329.7		0.03	0.00	0.00	1.77		10.35	18.92	83.84	86.68	18-Dec-18 15:00:00		**10.38**	**18.92**	**83.84**	**88.45**
18-Dec-18 16:00:00	18-Dec-18 17:00:00		750.75	0.00	0.00	5.38	2.1	329.7		247.52	0.00	0.00	1.77		10.35	18.92	83.84	86.68	18-Dec-18 16:00:00		**257.87**	**18.92**	**83.84**	**88.45**
18-Dec-18 17:00:00	18-Dec-18 18:00:00		1,306.17	0.00	0.00	5.51	2.1	329.7		430.65	0.00	0.00	1.82		10.35	18.92	83.84	86.68	18-Dec-18 17:00:00		**441.00**	**18.92**	**83.84**	**88.50**
18-Dec-18 18:00:00	18-Dec-18 19:00:00		1,154.99	0.00	0.00	5.65	2.1	329.7		380.80	0.00	0.00	1.86		10.35	18.92	83.84	86.68	18-Dec-18 18:00:00		**391.15**	**18.92**	**83.84**	**88.54**
18-Dec-18 19:00:00	18-Dec-18 20:00:00		1,189.07	0.00	0.00	5.78	2.1	329.7		392.04	0.00	0.00	1.91		10.35	18.92	83.84	86.68	18-Dec-18 19:00:00		**402.39**	**18.92**	**83.84**	**88.59**
18-Dec-18 20:00:00	18-Dec-18 21:00:00		1,305.45	0.00	0.00	5.98	2.1	329.7		430.41	0.00	0.00	1.97		10.35	18.92	83.84	86.68	18-Dec-18 20:00:00		**440.76**	**18.92**	**83.84**	**88.65**
18-Dec-18 21:00:00	18-Dec-18 22:00:00		1,260.01	0.00	0.00	6.24	2.1	329.7		415.43	0.00	0.00	2.06		10.35	18.92	83.84	86.68	18-Dec-18 21:00:00		**425.78**	**18.92**	**83.84**	**88.74**
18-Dec-18 22:00:00	18-Dec-18 23:00:00		1,298.14	0.00	0.00	6.51	2.1	329.7		428.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	18-Dec-18 22:00:00		**438.35**	**18.92**	**83.84**	**88.83**
18-Dec-18 23:00:00	19-Dec-18 00:00:00		1,190.89	0.00	0.00	6.78	2.1	329.7		392.64	0.00	0.00	2.24		10.35	18.92	83.84	86.68	18-Dec-18 23:00:00		**402.99**	**18.92**	**83.84**	**88.92**
19-Dec-18 00:00:00	19-Dec-18 01:00:00		1,230.32	0.00	0.00	6.91	2.1	329.7		405.64	0.00	0.00	2.28		10.35	18.92	83.84	86.68	19-Dec-18 00:00:00		**415.99**	**18.92**	**83.84**	**88.96**
19-Dec-18 01:00:00	19-Dec-18 02:00:00		1,277.92	0.00	0.00	6.91	2.1	329.7		421.33	0.00	0.00	2.28		10.35	18.92	83.84	86.68	19-Dec-18 01:00:00		**431.68**	**18.92**	**83.84**	**88.96**
19-Dec-18 02:00:00	19-Dec-18 03:00:00		1,223.97	0.00	0.00	6.92	2.1	329.7		403.54	0.00	0.00	2.28		10.35	18.92	83.84	86.68	19-Dec-18 02:00:00		**413.89**	**18.92**	**83.84**	**88.96**
19-Dec-18 03:00:00	19-Dec-18 04:00:00		1,224.83	0.00	0.00	6.93	2.1	329.7		403.83	0.00	0.00	2.28		10.35	18.92	83.84	86.68	19-Dec-18 03:00:00		**414.18**	**18.92**	**83.84**	**88.96**
19-Dec-18 04:00:00	19-Dec-18 05:00:00		1,331.02	0.00	0.00	6.97	2.1	329.7		438.84	0.00	0.00	2.30		10.35	18.92	83.84	86.68	19-Dec-18 04:00:00		**449.19**	**18.92**	**83.84**	**88.98**
19-Dec-18 05:00:00	19-Dec-18 06:00:00		1,296.67	0.00	0.00	6.96	2.1	329.7		427.51	0.00	0.00	2.30		10.35	18.92	83.84	86.68	19-Dec-18 05:00:00		**437.86**	**18.92**	**83.84**	**88.98**
19-Dec-18 06:00:00	19-Dec-18 07:00:00		1,391.42	0.00	0.00	6.95	2.1	329.7		458.75	0.00	0.00	2.29		10.35	18.92	83.84	86.68	19-Dec-18 06:00:00		**469.10**	**18.92**	**83.84**	**88.97**
19-Dec-18 07:00:00	19-Dec-18 08:00:00		694.74	0.00	0.00	6.96	2.1	329.7		229.06	0.00	0.00	2.29		10.35	18.92	83.84	86.68	19-Dec-18 07:00:00		**239.41**	**18.92**	**83.84**	**88.97**
19-Dec-18 08:00:00	19-Dec-18 09:00:00		647.90	0.00	0.00	6.98	2.1	329.7		213.61	0.00	0.00	2.30		10.35	18.92	83.84	86.68	19-Dec-18 08:00:00		**223.96**	**18.92**	**83.84**	**88.98**
19-Dec-18 09:00:00	19-Dec-18 10:00:00		550.31	0.00	0.00	6.81	2.1	329.7		181.44	0.00	0.00	2.25		10.35	18.92	83.84	86.68	19-Dec-18 09:00:00		**191.79**	**18.92**	**83.84**	**88.93**
19-Dec-18 10:00:00	19-Dec-18 11:00:00		477.31	0.00	0.00	6.64	2.1	329.7		157.39	0.00	0.00	2.19		10.35	18.92	83.84	86.68	19-Dec-18 10:00:00		**167.72**	**18.92**	**83.84**	**88.87**
19-Dec-18 11:00:00	19-Dec-18 12:00:00		477.03	0.00	0.00	6.46	2.1	329.7		157.28	0.00	0.00	2.13		10.35	18.92	83.84	86.68	19-Dec-18 11:00:00		**167.63**	**18.92**	**83.84**	**88.81**
19-Dec-18 12:00:00	19-Dec-18 13:00:00		332.35	0.00	0.00	6.20	2.1	329.7		109.58	0.00	0.00	2.05		10.35	18.92	83.84	86.68	19-Dec-18 12:00:00		**119.93**	**18.92**	**83.84**	**88.73**
19-Dec-18 13:00:00	19-Dec-18 14:00:00		102.59	0.00	0.00	5.98	2.1	329.7		33.82	0.00	0.00	1.97		10.35	18.92	83.84	86.68	19-Dec-18 13:00:00		**44.17**	**18.92**	**83.84**	**88.65**
19-Dec-18 14:00:00	19-Dec-18 15:00:00		5.55	0.00	0.00	5.76	2.1	329.7		1.83	0.00	0.00	1.90		10.35	18.92	83.84	86.68	19-Dec-18 14:00:00		**12.18**	**18.92**	**83.84**	**88.58**
19-Dec-18 15:00:00	19-Dec-18 16:00:00		0.00	0.00	0.00	5.53	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	19-Dec-18 15:00:00		**10.35**	**18.92**	**83.84**	**88.50**
19-Dec-18 16:00:00	19-Dec-18 17:00:00		0.00	0.00	0.00	5.45	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	19-Dec-18 16:00:00		**10.35**	**18.92**	**83.84**	**88.48**
19-Dec-18 17:00:00	19-Dec-18 18:00:00		10.71	0.00	0.00	5.57	2.1	329.7		3.53	0.00	0.00	1.84		10.35	18.92	83.84	86.68	19-Dec-18 17:00:00		**13.88**	**18.92**	**83.84**	**88.52**
19-Dec-18 18:00:00	19-Dec-18 19:00:00		12.44	0.00	0.00	5.69	2.1	329.7		4.10	0.00	0.00	1.88		10.35	18.92	83.84	86.68	19-Dec-18 18:00:00		**14.45**	**18.92**	**83.84**	**88.56**
19-Dec-18 19:00:00	19-Dec-18 20:00:00		11.71	0.00	0.00	5.80	2.1	329.7		3.86	0.00	0.00	1.91		10.35	18.92	83.84	86.68	19-Dec-18 19:00:00		**14.21**	**18.92**	**83.84**	**88.59**
19-Dec-18 20:00:00	19-Dec-18 21:00:00		11.65	0.00	0.00	5.80	2.1	329.7		3.84	0.00	0.00	1.91		10.35	18.92	83.84	86.68	19-Dec-18 20:00:00		**14.19**	**18.92**	**83.84**	**88.59**
19-Dec-18 21:00:00	19-Dec-18 22:00:00		11.14	0.00	0.00	5.82	2.1	329.7		3.67	0.00	0.00	1.92		10.35	18.92	83.84	86.68	19-Dec-18 21:00:00		**14.02**	**18.92**	**83.84**	**88.60**
19-Dec-18 22:00:00	19-Dec-18 23:00:00		10.56	0.00	0.00	5.84	2.1	329.7		3.48	0.00	0.00	1.93		10.35	18.92	83.84	86.68	19-Dec-18 22:00:00		**13.83**	**18.92**	**83.84**	**88.61**
19-Dec-18 23:00:00	20-Dec-18 00:00:00		9.12	0.00	0.00	5.87	2.1	329.7		3.01	0.00	0.00	1.93		10.35	18.92	83.84	86.68	19-Dec-18 23:00:00		**13.36**	**18.92**	**83.84**	**88.61**
20-Dec-18 00:00:00	20-Dec-18 01:00:00		9.56	0.00	0.00	5.96	2.1	329.7		3.15	0.00	0.00	1.97		10.35	18.92	83.84	86.68	20-Dec-18 00:00:00		**13.50**	**18.92**	**83.84**	**88.65**
20-Dec-18 01:00:00	20-Dec-18 02:00:00		10.01	0.00	0.00	6.04	2.1	329.7		3.30	0.00	0.00	1.99		10.35	18.92	83.84	86.68	20-Dec-18 01:00:00		**13.65**	**18.92**	**83.84**	**88.67**
20-Dec-18 02:00:00	20-Dec-18 03:00:00		9.95	0.00	0.00	6.11	2.1	329.7		3.28	0.00	0.00	2.02		10.35	18.92	83.84	86.68	20-Dec-18 02:00:00		**13.63**	**18.92**	**83.84**	**88.70**
20-Dec-18 03:00:00	20-Dec-18 04:00:00		8.78	0.00	0.00	6.19	2.1	329.7		2.89	0.00	0.00	2.04		10.35	18.92	83.84	86.68	20-Dec-18 03:00:00		**13.24**	**18.92**	**83.84**	**88.72**
20-Dec-18 04:00:00	20-Dec-18 05:00:00		4.93	0.00	0.00	6.29	2.1	329.7		1.62	0.00	0.00	2.07		10.35	18.92	83.84	86.68	20-Dec-18 04:00:00		**11.97**	**18.92**	**83.84**	**88.75**
20-Dec-18 05:00:00	20-Dec-18 06:00:00		2.09	0.00	0.00	6.33	2.1	329.7		0.69	0.00	0.00	2.09		10.35	18.92	83.84	86.68	20-Dec-18 05:00:00		**11.04**	**18.92**	**83.84**	**88.77**
20-Dec-18 06:00:00	20-Dec-18 07:00:00		0.59	0.00	0.00	6.38	2.1	329.7		0.20	0.00	0.00	2.10		10.35	18.92	83.84	86.68	20-Dec-18 06:00:00		**10.55**	**18.92**	**83.84**	**88.78**
20-Dec-18 07:00:00	20-Dec-18 08:00:00		1.78	0.00	0.00	6.43	2.1	329.7		0.59	0.00	0.00	2.12		10.35	18.92	83.84	86.68	20-Dec-18 07:00:00		**10.94**	**18.92**	**83.84**	**88.80**
20-Dec-18 08:00:00	20-Dec-18 09:00:00		12.73	0.00	0.00	6.48	2.1	329.7		4.20	0.00	0.00	2.14		10.35	18.92	83.84	86.68	20-Dec-18 08:00:00		**14.55**	**18.92**	**83.84**	**88.82**
20-Dec-18 09:00:00	20-Dec-18 10:00:00		14.33	0.00	0.00	6.45	2.1	329.7		4.72	0.00	0.00	2.13		10.35	18.92	83.84	86.68	20-Dec-18 09:00:00		**15.07**	**18.92**	**83.84**	**88.81**
20-Dec-18 10:00:00	20-Dec-18 11:00:00		11.72	0.00	0.00	6.42	2.1	329.7		3.86	0.00	0.00	2.12		10.35	18.92	83.84	86.68	20-Dec-18 10:00:00		**14.21**	**18.92**	**83.84**	**88.80**
20-Dec-18 11:00:00	20-Dec-18 12:00:00		10.72	0.00	0.00	6.39	2.1	329.7		3.53	0.00	0.00	2.11		10.35	18.92	83.84	86.68	20-Dec-18 11:00:00		**13.88**	**18.92**	**83.84**	**88.79**
20-Dec-18 12:00:00	20-Dec-18 13:00:00		8.93	0.00	0.00	6.42	2.1	329.7		2.94	0.00	0.00	2.12		10.35	18.92	83.84	86.68	20-Dec-18 12:00:00		**13.29**	**18.92**	**83.84**	**88.80**
20-Dec-18 13:00:00	20-Dec-18 14:00:00		6.71	0.00	0.00	6.24	2.1	329.7		2.21	0.00	0.00	2.06		10.35	18.92	83.84	86.68	20-Dec-18 13:00:00		**12.56**	**18.92**	**83.84**	**88.74**
20-Dec-18 14:00:00	20-Dec-18 15:00:00		4.18	0.00	0.00	6.07	2.1	329.7		1.38	0.00	0.00	2.00		10.35	18.92	83.84	86.68	20-Dec-18 14:00:00		**11.73**	**18.92**	**83.84**	**88.68**
20-Dec-18 15:00:00	20-Dec-18 16:00:00		6.61	0.00	0.00	5.90	2.1	329.7		2.18	0.00	0.00	1.95		10.35	18.92	83.84	86.68	20-Dec-18 15:00:00		**12.53**	**18.92**	**83.84**	**88.63**
20-Dec-18 16:00:00	20-Dec-18 17:00:00		19.42	0.00	0.00	5.69	2.1	329.7		6.40	0.00	0.00	1.88		10.35	18.92	83.84	86.68	20-Dec-18 16:00:00		**16.75**	**18.92**	**83.84**	**88.56**
20-Dec-18 17:00:00	20-Dec-18 18:00:00		30.76	0.00	0.00	5.45	2.1	329.7		10.14	0.00	0.00	1.80		10.35	18.92	83.84	86.68	20-Dec-18 17:00:00		**20.49**	**18.92**	**83.84**	**88.48**
20-Dec-18 18:00:00	20-Dec-18 19:00:00		52.02	0.00	0.00	5.46	2.1	329.7		17.15	0.00	0.00	1.80		10.35	18.92	83.84	86.68	20-Dec-18 18:00:00		**27.50**	**18.92**	**83.84**	**88.48**
20-Dec-18 19:00:00	20-Dec-18 20:00:00		56.13	0.00	0.00	5.23	2.1	329.7		18.51	0.00	0.00	1.72		10.35	18.92	83.84	86.68	20-Dec-18 19:00:00		**28.86**	**18.92**	**83.84**	**88.40**
20-Dec-18 20:00:00	20-Dec-18 21:00:00		55.88	0.00	0.00	5.19	2.1	329.7		18.42	0.00	0.00	1.71		10.35	18.92	83.84	86.68	20-Dec-18 20:00:00		**28.77**	**18.92**	**83.84**	**88.39**
20-Dec-18 21:00:00	20-Dec-18 22:00:00		51.39	0.00	0.00	5.16	2.1	329.7		16.94	0.00	0.00	1.70		10.35	18.92	83.84	86.68	20-Dec-18 21:00:00		**27.29**	**18.92**	**83.84**	**88.38**
20-Dec-18 22:00:00	20-Dec-18 23:00:00		47.08	0.00	0.00	5.13	2.1	329.7		15.52	0.00	0.00	1.69		10.35	18.92	83.84	86.68	20-Dec-18 22:00:00		**25.87**	**18.92**	**83.84**	**88.37**
20-Dec-18 23:00:00	21-Dec-18 00:00:00		46.89	0.00	0.00	5.21	2.1	329.7		15.46	0.00	0.00	1.72		10.35	18.92	83.84	86.68	20-Dec-18 23:00:00		**25.81**	**18.92**	**83.84**	**88.40**
21-Dec-18 00:00:00	21-Dec-18 01:00:00		46.69	0.00	0.00	5.30	2.1	329.7		15.39	0.00	0.00	1.75		10.35	18.92	83.84	86.68	21-Dec-18 00:00:00		**25.74**	**18.92**	**83.84**	**88.43**
21-Dec-18 01:00:00	21-Dec-18 02:00:00		46.54	0.00	0.00	5.40	2.1	329.7		15.34	0.00	0.00	1.78		10.35	18.92	83.84	86.68	21-Dec-18 01:00:00		**25.69**	**18.92**	**83.84**	**88.46**
21-Dec-18 02:00:00	21-Dec-18 03:00:00		46.67	0.00	0.00	5.44	2.1	329.7		15.39	0.00	0.00	1.79		10.35	18.92	83.84	86.68	21-Dec-18 02:00:00		**25.74**	**18.92**	**83.84**	**88.47**
21-Dec-18 03:00:00	21-Dec-18 04:00:00		46.55	0.00	0.00	5.50	2.1	329.7		15.35	0.00	0.00	1.81		10.35	18.92	83.84	86.68	21-Dec-18 03:00:00		**25.70**	**18.92**	**83.84**	**88.49**
21-Dec-18 04:00:00	21-Dec-18 05:00:00		46.44	0.00	0.00	5.61	2.1	329.7		15.31	0.00	0.00	1.85		10.35	18.92	83.84	86.68	21-Dec-18 04:00:00		**25.66**	**18.92**	**83.84**	**88.53**
21-Dec-18 05:00:00	21-Dec-18 06:00:00		46.26	0.00	0.00	5.72	2.1	329.7		15.25	0.00	0.00	1.88		10.35	18.92	83.84	86.68	21-Dec-18 05:00:00		**25.60**	**18.92**	**83.84**	**88.56**
21-Dec-18 06:00:00	21-Dec-18 07:00:00		47.13	0.00	0.00	5.79	2.1	329.7		15.54	0.00	0.00	1.91		10.35	18.92	83.84	86.68	21-Dec-18 06:00:00		**25.89**	**18.92**	**83.84**	**88.59**
21-Dec-18 07:00:00	21-Dec-18 08:00:00		45.42	0.00	0.00	5.78	2.1	329.7		14.97	0.00	0.00	1.91		10.35	18.92	83.84	86.68	21-Dec-18 07:00:00		**25.32**	**18.92**	**83.84**	**88.59**
21-Dec-18 08:00:00	21-Dec-18 09:00:00		44.00	0.00	0.00	5.77	2.1	329.7		14.51	0.00	0.00	1.90		10.35	18.92	83.84	86.68	21-Dec-18 08:00:00		**24.86**	**18.92**	**83.84**	**88.58**
21-Dec-18 09:00:00	21-Dec-18 10:00:00		43.83	0.00	0.00	5.75	2.1	329.7		14.45	0.00	0.00	1.90		10.35	18.92	83.84	86.68	21-Dec-18 09:00:00		**24.80**	**18.92**	**83.84**	**88.58**
21-Dec-18 10:00:00	21-Dec-18 11:00:00		43.66	0.00	0.00	5.69	2.1	329.7		14.40	0.00	0.00	1.87		10.35	18.92	83.84	86.68	21-Dec-18 10:00:00		**24.75**	**18.92**	**83.84**	**88.55**
21-Dec-18 11:00:00	21-Dec-18 12:00:00		43.53	0.00	0.00	5.72	2.1	329.7		14.35	0.00	0.00	1.88		10.35	18.92	83.84	86.68	21-Dec-18 11:00:00		**24.70**	**18.92**	**83.84**	**88.56**
21-Dec-18 12:00:00	21-Dec-18 13:00:00		44.29	0.00	0.00	5.82	2.1	329.7		14.60	0.00	0.00	1.92		10.35	18.92	83.84	86.68	21-Dec-18 12:00:00		**24.95**	**18.92**	**83.84**	**88.60**
21-Dec-18 13:00:00	21-Dec-18 14:00:00		46.56	0.00	0.00	5.93	2.1	329.7		15.35	0.00	0.00	1.95		10.35	18.92	83.84	86.68	21-Dec-18 13:00:00		**25.70**	**18.92**	**83.84**	**88.63**
21-Dec-18 14:00:00	21-Dec-18 15:00:00		48.40	0.00	0.00	5.99	2.1	329.7		15.96	0.00	0.00	1.98		10.35	18.92	83.84	86.68	21-Dec-18 14:00:00		**26.31**	**18.92**	**83.84**	**88.66**
21-Dec-18 15:00:00	21-Dec-18 16:00:00		48.83	0.00	0.00	6.17	2.1	329.7		16.10	0.00	0.00	2.03		10.35	18.92	83.84	86.68	21-Dec-18 15:00:00		**26.45**	**18.92**	**83.84**	**88.71**
21-Dec-18 16:00:00	21-Dec-18 17:00:00		49.27	0.00	0.00	6.42	2.1	329.7		16.24	0.00	0.00	2.12		10.35	18.92	83.84	86.68	21-Dec-18 16:00:00		**26.59**	**18.92**	**83.84**	**88.80**
21-Dec-18 17:00:00	21-Dec-18 18:00:00		52.12	0.00	0.00	6.67	2.1	329.7		17.18	0.00	0.00	2.20		10.35	18.92	83.84	86.68	21-Dec-18 17:00:00		**27.53**	**18.92**	**83.84**	**88.88**
21-Dec-18 18:00:00	21-Dec-18 19:00:00		51.75	0.00	0.00	6.96	2.1	329.7		17.06	0.00	0.00	2.29		10.35	18.92	83.84	86.68	21-Dec-18 18:00:00		**27.41**	**18.92**	**83.84**	**88.97**
21-Dec-18 19:00:00	21-Dec-18 20:00:00		40.72	0.00	0.00	6.98	2.1	329.7		13.42	0.00	0.00	2.30		10.35	18.92	83.84	86.68	21-Dec-18 19:00:00		**23.77**	**18.92**	**83.84**	**88.98**
21-Dec-18 20:00:00	21-Dec-18 21:00:00		53.77	0.00	0.00	6.89	2.1	329.7		17.73	0.00	0.00	2.27		10.35	18.92	83.84	86.68	21-Dec-18 20:00:00		**28.08**	**18.92**	**83.84**	**88.95**
21-Dec-18 21:00:00	21-Dec-18 22:00:00		47.99	0.00	0.00	6.79	2.1	329.7		15.82	0.00	0.00	2.24		10.35	18.92	83.84	86.68	21-Dec-18 21:00:00		**26.17**	**18.92**	**83.84**	**88.92**
21-Dec-18 22:00:00	21-Dec-18 23:00:00		36.06	0.00	0.00	6.75	2.1	329.7		11.89	0.00	0.00	2.23		10.35	18.92	83.84	86.68	21-Dec-18 22:00:00		**22.24**	**18.92**	**83.84**	**88.91**
21-Dec-18 23:00:00	22-Dec-18 00:00:00		20.29	0.00	0.00	6.83	2.1	329.7		6.69	0.00	0.00	2.25		10.35	18.92	83.84	86.68	21-Dec-18 23:00:00		**17.04**	**18.92**	**83.84**	**88.93**
22-Dec-18 00:00:00	22-Dec-18 01:00:00		24.24	0.00	0.00	6.90	2.1	329.7		7.99	0.00	0.00	2.27		10.35	18.92	83.84	86.68	22-Dec-18 00:00:00		**18.34**	**18.92**	**83.84**	**88.95**
22-Dec-18 01:00:00	22-Dec-18 02:00:00		49.16	0.00	0.00	6.96	2.1	329.7		16.21	0.00	0.00	2.30		10.35	18.92	83.84	86.68	22-Dec-18 01:00:00		**26.56**	**18.92**	**83.84**	**88.98**
22-Dec-18 02:00:00	22-Dec-18 03:00:00		48.16	0.00	0.00	7.02	2.1	329.7		15.88	0.00	0.00	2.32		10.35	18.92	83.84	86.68	22-Dec-18 02:00:00		**26.23**	**18.92**	**83.84**	**89.00**
22-Dec-18 03:00:00	22-Dec-18 04:00:00		42.78	0.00	0.00	7.05	2.1	329.7		14.11	0.00	0.00	2.32		10.35	18.92	83.84	86.68	22-Dec-18 03:00:00		**24.46**	**18.92**	**83.84**	**89.00**
22-Dec-18 04:00:00	22-Dec-18 05:00:00		48.12	0.00	0.00	7.07	2.1	329.7		15.86	0.00	0.00	2.33		10.35	18.92	83.84	86.68	22-Dec-18 04:00:00		**26.21**	**18.92**	**83.84**	**89.01**
22-Dec-18 05:00:00	22-Dec-18 06:00:00		16.13	0.00	0.00	7.09	2.1	329.7		5.32	0.00	0.00	2.34		10.35	18.92	83.84	86.68	22-Dec-18 05:00:00		**15.67**	**18.92**	**83.84**	**89.02**
22-Dec-18 06:00:00	22-Dec-18 07:00:00		2.99	0.00	0.00	35.78	2.1	329.7		0.99	0.00	0.00	11.80		10.35	18.92	83.84	86.68	22-Dec-18 06:00:00		**11.34**	**18.92**	**83.84**	**98.48**
22-Dec-18 07:00:00	22-Dec-18 08:00:00		8.79	0.00	0.00	6.92	2.1	329.7		2.90	0.00	0.00	2.28		10.35	18.92	83.84	86.68	22-Dec-18 07:00:00		**13.25**	**18.92**	**83.84**	**88.96**
22-Dec-18 08:00:00	22-Dec-18 09:00:00		9.54	0.00	0.00	6.77	2.1	329.7		3.15	0.00	0.00	2.23		10.35	18.92	83.84	86.68	22-Dec-18 08:00:00		**13.50**	**18.92**	**83.84**	**88.91**
22-Dec-18 09:00:00	22-Dec-18 10:00:00		12.04	0.00	0.00	6.63	2.1	329.7		3.97	0.00	0.00	2.19		10.35	18.92	83.84	86.68	22-Dec-18 09:00:00		**14.32**	**18.92**	**83.84**	**88.87**
22-Dec-18 10:00:00	22-Dec-18 11

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
24-Dec-18 12:00:00	24-Dec-18 13:00:00		0.00	0.00	0.00	5.86	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	24-Dec-18 12:00:00		**10.35**	**18.92**	**83.84**	**88.61**
24-Dec-18 13:00:00	24-Dec-18 14:00:00		0.00	0.00	0.00	5.73	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	24-Dec-18 13:00:00		**10.35**	**18.92**	**83.84**	**88.57**
24-Dec-18 14:00:00	24-Dec-18 15:00:00		0.00	0.00	0.00	5.68	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	24-Dec-18 14:00:00		**10.35**	**18.92**	**83.84**	**88.55**
24-Dec-18 15:00:00	24-Dec-18 16:00:00		0.00	0.00	0.00	5.76	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	24-Dec-18 15:00:00		**10.35**	**18.92**	**83.84**	**88.58**
24-Dec-18 16:00:00	24-Dec-18 17:00:00		0.00	0.00	0.00	5.84	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	24-Dec-18 16:00:00		**10.35**	**18.92**	**83.84**	**88.61**
24-Dec-18 17:00:00	24-Dec-18 18:00:00		0.00	0.00	0.00	5.93	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	24-Dec-18 17:00:00		**10.35**	**18.92**	**83.84**	**88.63**
24-Dec-18 18:00:00	24-Dec-18 19:00:00		0.00	0.00	0.00	5.91	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	24-Dec-18 18:00:00		**10.35**	**18.92**	**83.84**	**88.63**
24-Dec-18 19:00:00	24-Dec-18 20:00:00		0.00	0.00	0.00	6.15	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	24-Dec-18 19:00:00		**10.35**	**18.92**	**83.84**	**88.71**
24-Dec-18 20:00:00	24-Dec-18 21:00:00		162.21	0.00	0.00	6.46	2.1	329.7		53.48	0.00	0.00	2.13		10.35	18.92	83.84	86.68	24-Dec-18 20:00:00		**63.83**	**18.92**	**83.84**	**88.81**
24-Dec-18 21:00:00	24-Dec-18 22:00:00		480.62	0.00	0.00	6.77	2.1	329.7		158.46	0.00	0.00	2.23		10.35	18.92	83.84	86.68	24-Dec-18 21:00:00		**168.81**	**18.92**	**83.84**	**88.91**
24-Dec-18 22:00:00	24-Dec-18 23:00:00		499.09	0.00	0.00	6.98	2.1	329.7		164.55	0.00	0.00	2.30		10.35	18.92	83.84	86.68	24-Dec-18 22:00:00		**174.90**	**18.92**	**83.84**	**88.98**
24-Dec-18 23:00:00	25-Dec-18 00:00:00		322.76	0.00	0.00	7.11	2.1	329.7		106.41	0.00	0.00	2.34		10.35	18.92	83.84	86.68	24-Dec-18 23:00:00		**116.76**	**18.92**	**83.84**	**89.02**
25-Dec-18 00:00:00	25-Dec-18 01:00:00		256.68	0.00	0.00	7.24	2.1	329.7		84.63	0.00	0.00	2.39		10.35	18.92	83.84	86.68	25-Dec-18 00:00:00		**94.98**	**18.92**	**83.84**	**89.07**
25-Dec-18 01:00:00	25-Dec-18 02:00:00		299.19	0.00	0.00	7.37	2.1	329.7		98.64	0.00	0.00	2.43		10.35	18.92	83.84	86.68	25-Dec-18 01:00:00		**108.99**	**18.92**	**83.84**	**89.11**
25-Dec-18 02:00:00	25-Dec-18 03:00:00		144.55	0.00	0.00	7.53	2.1	329.7		47.66	0.00	0.00	2.48		10.35	18.92	83.84	86.68	25-Dec-18 02:00:00		**58.01**	**18.92**	**83.84**	**89.16**
25-Dec-18 03:00:00	25-Dec-18 04:00:00		0.40	0.00	0.00	7.53	2.1	329.7		0.13	0.00	0.00	2.48		10.35	18.92	83.84	86.68	25-Dec-18 03:00:00		**10.48**	**18.92**	**83.84**	**89.16**
25-Dec-18 04:00:00	25-Dec-18 05:00:00		84.76	0.00	0.00	7.50	2.1	329.7		27.95	0.00	0.00	2.47		10.35	18.92	83.84	86.68	25-Dec-18 04:00:00		**38.30**	**18.92**	**83.84**	**89.15**
25-Dec-18 05:00:00	25-Dec-18 06:00:00		217.21	0.00	0.00	7.48	2.1	329.7		71.62	0.00	0.00	2.47		10.35	18.92	83.84	86.68	25-Dec-18 05:00:00		**81.97**	**18.92**	**83.84**	**89.15**
25-Dec-18 06:00:00	25-Dec-18 07:00:00		217.75	0.00	0.00	7.45	2.1	329.7		71.79	0.00	0.00	2.46		10.35	18.92	83.84	86.68	25-Dec-18 06:00:00		**82.14**	**18.92**	**83.84**	**89.14**
25-Dec-18 07:00:00	25-Dec-18 08:00:00		219.62	0.00	0.00	7.36	2.1	329.7		72.41	0.00	0.00	2.43		10.35	18.92	83.84	86.68	25-Dec-18 07:00:00		**82.76**	**18.92**	**83.84**	**89.11**
25-Dec-18 08:00:00	25-Dec-18 09:00:00		220.03	0.00	0.00	7.25	2.1	329.7		72.54	0.00	0.00	2.39		10.35	18.92	83.84	86.68	25-Dec-18 08:00:00		**82.89**	**18.92**	**83.84**	**89.07**
25-Dec-18 09:00:00	25-Dec-18 10:00:00		221.91	0.00	0.00	7.15	2.1	329.7		73.16	0.00	0.00	2.36		10.35	18.92	83.84	86.68	25-Dec-18 09:00:00		**83.51**	**18.92**	**83.84**	**89.04**
25-Dec-18 10:00:00	25-Dec-18 11:00:00		222.54	0.00	0.00	6.96	2.1	329.7		73.37	0.00	0.00	2.30		10.35	18.92	83.84	86.68	25-Dec-18 10:00:00		**83.72**	**18.92**	**83.84**	**88.98**
25-Dec-18 11:00:00	25-Dec-18 12:00:00		222.38	0.00	0.00	6.64	2.1	329.7		73.32	0.00	0.00	2.19		10.35	18.92	83.84	86.68	25-Dec-18 11:00:00		**83.67**	**18.92**	**83.84**	**88.87**
25-Dec-18 12:00:00	25-Dec-18 13:00:00		224.85	0.00	0.00	6.32	2.1	329.7		74.13	0.00	0.00	2.08		10.35	18.92	83.84	86.68	25-Dec-18 12:00:00		**84.48**	**18.92**	**83.84**	**88.76**
25-Dec-18 13:00:00	25-Dec-18 14:00:00		218.02	0.00	0.00	6.00	2.1	329.7		71.88	0.00	0.00	1.98		10.35	18.92	83.84	86.68	25-Dec-18 13:00:00		**82.23**	**18.92**	**83.84**	**88.66**
25-Dec-18 14:00:00	25-Dec-18 15:00:00		206.39	0.00	0.00	5.78	2.1	329.7		68.05	0.00	0.00	1.91		10.35	18.92	83.84	86.68	25-Dec-18 14:00:00		**78.40**	**18.92**	**83.84**	**88.59**
25-Dec-18 15:00:00	25-Dec-18 16:00:00		23.69	0.00	0.00	5.80	2.1	329.7		7.81	0.00	0.00	1.91		10.35	18.92	83.84	86.68	25-Dec-18 15:00:00		**18.16**	**18.92**	**83.84**	**88.59**
25-Dec-18 16:00:00	25-Dec-18 17:00:00		0.00	0.00	0.00	5.83	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	25-Dec-18 16:00:00		**10.35**	**18.92**	**83.84**	**88.60**
25-Dec-18 17:00:00	25-Dec-18 18:00:00		0.00	0.00	0.00	5.86	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	25-Dec-18 17:00:00		**10.35**	**18.92**	**83.84**	**88.61**
25-Dec-18 18:00:00	25-Dec-18 19:00:00		0.00	0.00	0.00	5.92	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	25-Dec-18 18:00:00		**10.35**	**18.92**	**83.84**	**88.63**
25-Dec-18 19:00:00	25-Dec-18 20:00:00		0.23	0.00	0.00	6.16	2.1	329.7		0.08	0.00	0.00	2.03		10.35	18.92	83.84	86.68	25-Dec-18 19:00:00		**10.43**	**18.92**	**83.84**	**88.71**
25-Dec-18 20:00:00	25-Dec-18 21:00:00		0.87	0.00	0.00	6.42	2.1	329.7		0.29	0.00	0.00	2.12		10.35	18.92	83.84	86.68	25-Dec-18 20:00:00		**10.64**	**18.92**	**83.84**	**88.80**
25-Dec-18 21:00:00	25-Dec-18 22:00:00		1.51	0.00	0.00	6.68	2.1	329.7		0.50	0.00	0.00	2.20		10.35	18.92	83.84	86.68	25-Dec-18 21:00:00		**10.85**	**18.92**	**83.84**	**88.88**
25-Dec-18 22:00:00	25-Dec-18 23:00:00		2.08	0.00	0.00	6.89	2.1	329.7		0.68	0.00	0.00	2.27		10.35	18.92	83.84	86.68	25-Dec-18 22:00:00		**11.03**	**18.92**	**83.84**	**88.95**
25-Dec-18 23:00:00	26-Dec-18 00:00:00		2.57	0.00	0.00	6.97	2.1	329.7		0.85	0.00	0.00	2.30		10.35	18.92	83.84	86.68	25-Dec-18 23:00:00		**11.20**	**18.92**	**83.84**	**88.98**
26-Dec-18 00:00:00	26-Dec-18 01:00:00		2.82	0.00	0.00	7.04	2.1	329.7		0.93	0.00	0.00	2.32		10.35	18.92	83.84	86.68	26-Dec-18 00:00:00		**11.28**	**18.92**	**83.84**	**89.00**
26-Dec-18 01:00:00	26-Dec-18 02:00:00		4.88	0.00	0.00	7.11	2.1	329.7		1.61	0.00	0.00	2.34		10.35	18.92	83.84	86.68	26-Dec-18 01:00:00		**11.96**	**18.92**	**83.84**	**89.02**
26-Dec-18 02:00:00	26-Dec-18 03:00:00		5.63	0.00	0.00	7.17	2.1	329.7		1.86	0.00	0.00	2.36		10.35	18.92	83.84	86.68	26-Dec-18 02:00:00		**12.21**	**18.92**	**83.84**	**89.04**
26-Dec-18 03:00:00	26-Dec-18 04:00:00		1.57	0.00	0.00	7.19	2.1	329.7		0.52	0.00	0.00	2.37		10.35	18.92	83.84	86.68	26-Dec-18 03:00:00		**10.87**	**18.92**	**83.84**	**89.05**
26-Dec-18 04:00:00	26-Dec-18 05:00:00		0.00	0.00	0.00	7.20	2.1	329.7		0.00	0.00	0.00	2.37		10.35	18.92	83.84	86.68	26-Dec-18 04:00:00		**10.35**	**18.92**	**83.84**	**89.05**
26-Dec-18 05:00:00	26-Dec-18 06:00:00		0.00	0.00	0.00	7.21	2.1	329.7		0.00	0.00	0.00	2.38		10.35	18.92	83.84	86.68	26-Dec-18 05:00:00		**10.35**	**18.92**	**83.84**	**89.06**
26-Dec-18 06:00:00	26-Dec-18 07:00:00		0.00	0.00	0.00	7.32	2.1	329.7		0.00	0.00	0.00	2.41		10.35	18.92	83.84	86.68	26-Dec-18 06:00:00		**10.35**	**18.92**	**83.84**	**89.09**
26-Dec-18 07:00:00	26-Dec-18 08:00:00		0.00	0.00	0.00	7.22	2.1	329.7		0.00	0.00	0.00	2.38		10.35	18.92	83.84	86.68	26-Dec-18 07:00:00		**10.35**	**18.92**	**83.84**	**89.06**
26-Dec-18 08:00:00	26-Dec-18 09:00:00		0.00	0.00	0.00	7.04	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	26-Dec-18 08:00:00		**10.35**	**18.92**	**83.84**	**89.00**
26-Dec-18 09:00:00	26-Dec-18 10:00:00		0.00	0.00	0.00	6.86	2.1	329.7		0.00	0.00	0.00	2.26		10.35	18.92	83.84	86.68	26-Dec-18 09:00:00		**10.35**	**18.92**	**83.84**	**88.94**
26-Dec-18 10:00:00	26-Dec-18 11:00:00		0.00	0.00	0.00	6.71	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	26-Dec-18 10:00:00		**10.35**	**18.92**	**83.84**	**88.89**
26-Dec-18 11:00:00	26-Dec-18 12:00:00		6.35	0.00	0.00	6.48	2.1	329.7		2.09	0.00	0.00	2.14		10.35	18.92	83.84	86.68	26-Dec-18 11:00:00		**12.44**	**18.92**	**83.84**	**88.82**
26-Dec-18 12:00:00	26-Dec-18 13:00:00		3.83	0.00	0.00	6.23	2.1	329.7		1.26	0.00	0.00	2.05		10.35	18.92	83.84	86.68	26-Dec-18 12:00:00		**11.61**	**18.92**	**83.84**	**88.73**
26-Dec-18 13:00:00	26-Dec-18 14:00:00		0.00	0.00	0.00	5.98	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	26-Dec-18 13:00:00		**10.35**	**18.92**	**83.84**	**88.65**
26-Dec-18 14:00:00	26-Dec-18 15:00:00		0.00	0.00	0.00	5.85	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	26-Dec-18 14:00:00		**10.35**	**18.92**	**83.84**	**88.61**
26-Dec-18 15:00:00	26-Dec-18 16:00:00		0.00	0.00	0.00	5.85	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	26-Dec-18 15:00:00		**10.35**	**18.92**	**83.84**	**88.61**
26-Dec-18 16:00:00	26-Dec-18 17:00:00		0.00	0.00	0.00	5.84	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	26-Dec-18 16:00:00		**10.35**	**18.92**	**83.84**	**88.61**
26-Dec-18 17:00:00	26-Dec-18 18:00:00		0.00	0.00	0.00	5.83	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	26-Dec-18 17:00:00		**10.35**	**18.92**	**83.84**	**88.60**
26-Dec-18 18:00:00	26-Dec-18 19:00:00		0.00	0.00	0.00	5.83	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	26-Dec-18 18:00:00		**10.35**	**18.92**	**83.84**	**88.60**
26-Dec-18 19:00:00	26-Dec-18 20:00:00		0.00	0.00	0.00	5.99	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	26-Dec-18 19:00:00		**10.35**	**18.92**	**83.84**	**88.65**
26-Dec-18 20:00:00	26-Dec-18 21:00:00		0.00	0.00	0.00	6.18	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	26-Dec-18 20:00:00		**10.35**	**18.92**	**83.84**	**88.72**
26-Dec-18 21:00:00	26-Dec-18 22:00:00		0.00	0.00	0.00	6.36	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	26-Dec-18 21:00:00		**10.35**	**18.92**	**83.84**	**88.78**
26-Dec-18 22:00:00	26-Dec-18 23:00:00		0.00	0.00	0.00	6.46	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	26-Dec-18 22:00:00		**10.35**	**18.92**	**83.84**	**88.81**
26-Dec-18 23:00:00	27-Dec-18 00:00:00		0.00	0.00	0.00	6.47	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	26-Dec-18 23:00:00		**10.35**	**18.92**	**83.84**	**88.81**
27-Dec-18 00:00:00	27-Dec-18 01:00:00		0.00	0.00	0.00	6.51	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	27-Dec-18 00:00:00		**10.35**	**18.92**	**83.84**	**88.83**
27-Dec-18 01:00:00	27-Dec-18 02:00:00		0.00	0.00	0.00	6.56	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	27-Dec-18 01:00:00		**10.35**	**18.92**	**83.84**	**88.84**
27-Dec-18 02:00:00	27-Dec-18 03:00:00		0.00	0.00	0.00	6.65	2.1	329.7		0.00	0.00	0.00	2.19		10.35	18.92	83.84	86.68	27-Dec-18 02:00:00		**10.35**	**18.92**	**83.84**	**88.87**
27-Dec-18 03:00:00	27-Dec-18 04:00:00		0.00	0.00	0.00	6.72	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	27-Dec-18 03:00:00		**10.35**	**18.92**	**83.84**	**88.90**
27-Dec-18 04:00:00	27-Dec-18 05:00:00		0.00	0.00	0.00	6.75	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	27-Dec-18 04:00:00		**10.35**	**18.92**	**83.84**	**88.90**
27-Dec-18 05:00:00	27-Dec-18 06:00:00		0.00	0.00	0.00	6.78	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	27-Dec-18 05:00:00		**10.35**	**18.92**	**83.84**	**88.91**
27-Dec-18 06:00:00	27-Dec-18 07:00:00		0.00	0.00	0.00	6.84	2.1	329.7		0.00	0.00	0.00	2.25		10.35	18.92	83.84	86.68	27-Dec-18 06:00:00		**10.35**	**18.92**	**83.84**	**88.93**
27-Dec-18 07:00:00	27-Dec-18 08:00:00		0.00	0.00	0.00	6.80	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	27-Dec-18 07:00:00		**10.35**	**18.92**	**83.84**	**88.92**
27-Dec-18 08:00:00	27-Dec-18 09:00:00		0.00	0.00	0.00	6.72	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	27-Dec-18 08:00:00		**10.35**	**18.92**	**83.84**	**88.90**
27-Dec-18 09:00:00	27-Dec-18 10:00:00		0.00	0.00	0.00	6.65	2.1	329.7		0.00	0.00	0.00	2.19		10.35	18.92	83.84	86.68	27-Dec-18 09:00:00		**10.35**	**18.92**	**83.84**	**88.87**
27-Dec-18 10:00:00	27-Dec-18 11:00:00		0.00	0.00	0.00	6.45	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	27-Dec-18 10:00:00		**10.35**	**18.92**	**83.84**	**88.81**
27-Dec-18 11:00:00	27-Dec-18 12:00:00		1.07	0.00	0.00	6.25	2.1	329.7		0.35	0.00	0.00	2.06		10.35	18.92	83.84	86.68	27-Dec-18 11:00:00		**10.70**	**18.92**	**83.84**	**88.74**
27-Dec-18 12:00:00	27-Dec-18 13:00:00		0.68	0.00	0.00	6.11	2.1	329.7		0.22	0.00	0.00	2.02		10.35	18.92	83.84	86.68	27-Dec-18 12:00:00		**10.57**	**18.92**	**83.84**	**88.70**
27-Dec-18 13:00:00	27-Dec-18 14:00:00		0.00	0.00	0.00	5.98	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	27-Dec-18 13:00:00		**10.35**	**18.92**	**83.84**	**88.65**
27-Dec-18 14:00:00	27-Dec-18 15:00:00		0.00	0.00	0.00	5.88	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	27-Dec-18 14:00:00		**10.35**	**18.92**	**83.84**	**88.62**
27-Dec-18 15:00:00	27-Dec-18 16:00:00		0.00	0.00	0.00	5.84	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	27-Dec-18 15:00:00		**10.35**	**18.92**	**83.84**	**88.61**
27-Dec-18 16:00:00	27-Dec-18 17:00:00		2.15	0.00	0.00	5.81	2.1	329.7		0.71	0.00	0.00	1.92		10.35	18.92	83.84	86.68	27-Dec-18 16:00:00		**11.06**	**18.92**	**83.84**	**88.60**
27-Dec-18 17:00:00	27-Dec-18 18:00:00		4.11	0.00	0.00	5.77	2.1	329.7		1.35	0.00	0.00	1.90		10.35	18.92	83.84	86.68	27-Dec-18 17:00:00		**11.70**	**18.92**	**83.84**	**88.58**
27-Dec-18 18:00:00	27-Dec-18 19:00:00		5.75	0.00	0.00	5.76	2.1	329.7		1.89	0.00	0.00	1.90		10.35	18.92	83.84	86.68	27-Dec-18 18:00:00		**12.24**	**18.92**	**83.84**	**88.58**
27-Dec-18 19:00:00	27-Dec-18 20:00:00		2.24	0.00	0.00	5.79	2.1	329.7		0.74	0.00	0.00	1.91		10.35	18.92	83.84	86.68	27-Dec-18 19:00:00		**11.09**	**18.92**	**83.84**	**88.59**
27-Dec-18 20:00:00	27-Dec-18 21:00:00		2.29	0.00	0.00	5.82	2.1	329.7		0.75	0.00	0.00	1.92		10.35	18.92	83.84	86.68	27-Dec-18 20:00:00		**11.10**	**18.92**	**83.84**	**88.60**
27-Dec-18 21:00:00	27-Dec-18 22:00:00		0.00	0.00	0.00	5.85	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	27-Dec-18 21:00:00		**10.35**	**18.92**	**83.84**	**88.61**
27-Dec-18 22:00:00	27-Dec-18 23:00:00		0.00	0.00	0.00	5.85	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	27-Dec-18 22:00:00		**10.35**	**18.92**	**83.84**	**88.61**
27-Dec-18 23:00:00	28-Dec-18 00:00:00		0.00	0.00	0.00	5.83	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	27-Dec-18 23:00:00		**10.35**	**18.92**	**83.84**	**88.60**
28-Dec-18 00:00:00	28-Dec-18 01:00:00		3.17	0.00	0.00	5.84	2.1	329.7		1.04	0.00	0.00	1.93		10.35	18.92	83.84	86.68	28-Dec-18 00:00:00		**11.39**	**18.92**	**83.84**	**88.61**
28-Dec-18 01:00:00	28-Dec-18 02:00:00		0.00	0.00	0.00	5.86	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	28-Dec-18 01:00:00		**10.35**	**18.92**	**83.84**	**88.61**
28-Dec-18 02:00:00	28-Dec-18 03:00:00		0.00	0.00	0.00	5.84	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	28-Dec-18 02:00:00		**10.35**	**18.92**	**83.84**	**88.61**
28-Dec-18 03:00:00	28-Dec-18 04:00:00		0.00	0.00	0.00	5.81	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	28-Dec-18 03:00:00		**10.35**	**18.92**	**83.84**	**88.60**
28-Dec-18 04:00:00	28-Dec-18 05:00:00		0.00	0.00	0.00	5.80	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	28-Dec-18 04:00:00		**10.35**	**18.92**	**83.84**	**88.59**
28-Dec-18 05:00:00	28-Dec-18 06:00:00		0.00	0.00	0.00	5.79	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	28-Dec-18 05:00:00		**10.35**	**18.92**	**83.84**	**88.59**
28-Dec-18 06:00:00	28-Dec-18 07:00:00		0.00	0.00	0.00	5.83	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	28-Dec-18 06:00:00		**10.35**	**18.92**	**83.84**	**88.60**
28-Dec-18 07:00:00	28-Dec-18 08:00:00		0.00	0.00	0.00	5.83	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	28-Dec-18 07:00:00		**10.35**	**18.92**	**83.84**	**88.60**
28-Dec-18 08:00:00	28-Dec-18 09:00:00		0.00	0.00	0.00	5.79	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	28-Dec-18 08:00:00		**10.35**	**18.92**	**83.84**	**88.59**
28-Dec-18 09:00:00	28-Dec-18 10:00:00		0.00	0.00	0.00	5.

Table A-44
Hourly SO_2 Emissions Rates - 2018
New-Indy Catawba - Catawba, SC

2018 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	**End**	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	**Start Time**	lb/hr	**lb/hr**	**lb/hr**	**lb/hr**	**lb/hr**
30-Dec-18 11:00:00	30-Dec-18 12:00:00		0.49	0.00	0.00	5.75	2.1	329.7		0.16	0.00	0.00	1.90		10.35	18.92	83.84	86.68	30-Dec-18 11:00:00		**10.51**	**18.92**	**83.84**	**88.58**
30-Dec-18 12:00:00	30-Dec-18 13:00:00		0.34	0.00	0.00	5.76	2.1	329.7		0.11	0.00	0.00	1.90		10.35	18.92	83.84	86.68	30-Dec-18 12:00:00		**10.46**	**18.92**	**83.84**	**88.58**
30-Dec-18 13:00:00	30-Dec-18 14:00:00		0.19	0.00	0.00	5.77	2.1	329.7		0.06	0.00	0.00	1.90		10.35	18.92	83.84	86.68	30-Dec-18 13:00:00		**10.41**	**18.92**	**83.84**	**88.58**
30-Dec-18 14:00:00	30-Dec-18 15:00:00		0.04	0.00	0.00	5.90	2.1	329.7		0.01	0.00	0.00	1.94		10.35	18.92	83.84	86.68	30-Dec-18 14:00:00		**10.36**	**18.92**	**83.84**	**88.62**
30-Dec-18 15:00:00	30-Dec-18 16:00:00		0.00	0.00	0.00	6.01	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	30-Dec-18 15:00:00		**10.35**	**18.92**	**83.84**	**88.66**
30-Dec-18 16:00:00	30-Dec-18 17:00:00		0.00	0.00	0.00	5.95	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	30-Dec-18 16:00:00		**10.35**	**18.92**	**83.84**	**88.64**
30-Dec-18 17:00:00	30-Dec-18 18:00:00		0.00	0.00	0.00	5.88	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	30-Dec-18 17:00:00		**10.35**	**18.92**	**83.84**	**88.62**
30-Dec-18 18:00:00	30-Dec-18 19:00:00		0.00	0.00	0.00	5.81	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	30-Dec-18 18:00:00		**10.35**	**18.92**	**83.84**	**88.60**
30-Dec-18 19:00:00	30-Dec-18 20:00:00		0.00	0.00	0.00	5.80	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	30-Dec-18 19:00:00		**10.35**	**18.92**	**83.84**	**88.59**
30-Dec-18 20:00:00	30-Dec-18 21:00:00		0.00	0.00	0.00	5.83	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	30-Dec-18 20:00:00		**10.35**	**18.92**	**83.84**	**88.60**
30-Dec-18 21:00:00	30-Dec-18 22:00:00		0.00	0.00	0.00	5.86	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	30-Dec-18 21:00:00		**10.35**	**18.92**	**83.84**	**88.61**
30-Dec-18 22:00:00	30-Dec-18 23:00:00		0.00	0.00	0.00	5.84	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	30-Dec-18 22:00:00		**10.35**	**18.92**	**83.84**	**88.60**
30-Dec-18 23:00:00	31-Dec-18 00:00:00		0.00	0.00	0.00	5.80	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	30-Dec-18 23:00:00		**10.35**	**18.92**	**83.84**	**88.59**
31-Dec-18 00:00:00	31-Dec-18 01:00:00		0.00	0.00	0.00	5.85	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	31-Dec-18 00:00:00		**10.35**	**18.92**	**83.84**	**88.61**
31-Dec-18 01:00:00	31-Dec-18 02:00:00		0.00	0.00	0.00	5.90	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	31-Dec-18 01:00:00		**10.35**	**18.92**	**83.84**	**88.62**
31-Dec-18 02:00:00	31-Dec-18 03:00:00		0.00	0.00	0.00	5.99	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	31-Dec-18 02:00:00		**10.35**	**18.92**	**83.84**	**88.66**
31-Dec-18 03:00:00	31-Dec-18 04:00:00		0.00	0.00	0.00	6.08	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	31-Dec-18 03:00:00		**10.35**	**18.92**	**83.84**	**88.68**
31-Dec-18 04:00:00	31-Dec-18 05:00:00		0.00	0.00	0.00	6.06	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	31-Dec-18 04:00:00		**10.35**	**18.92**	**83.84**	**88.68**
31-Dec-18 05:00:00	31-Dec-18 06:00:00		0.00	0.00	0.00	6.05	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	31-Dec-18 05:00:00		**10.35**	**18.92**	**83.84**	**88.67**
31-Dec-18 06:00:00	31-Dec-18 07:00:00		0.02	0.00	0.00	6.05	2.1	329.7		0.01	0.00	0.00	1.99		10.35	18.92	83.84	86.68	31-Dec-18 06:00:00		**10.36**	**18.92**	**83.84**	**88.67**
31-Dec-18 07:00:00	31-Dec-18 08:00:00		0.48	0.00	0.00	6.00	2.1	329.7		0.16	0.00	0.00	1.98		10.35	18.92	83.84	86.68	31-Dec-18 07:00:00		**10.51**	**18.92**	**83.84**	**88.66**
31-Dec-18 08:00:00	31-Dec-18 09:00:00		1.14	0.00	0.00	5.90	2.1	329.7		0.38	0.00	0.00	1.94		10.35	18.92	83.84	86.68	31-Dec-18 08:00:00		**10.73**	**18.92**	**83.84**	**88.62**
31-Dec-18 09:00:00	31-Dec-18 10:00:00		1.80	0.00	0.00	5.79	2.1	329.7		0.60	0.00	0.00	1.91		10.35	18.92	83.84	86.68	31-Dec-18 09:00:00		**10.95**	**18.92**	**83.84**	**88.59**
31-Dec-18 10:00:00	31-Dec-18 11:00:00		1.61	0.00	0.00	5.73	2.1	329.7		0.53	0.00	0.00	1.89		10.35	18.92	83.84	86.68	31-Dec-18 10:00:00		**10.88**	**18.92**	**83.84**	**88.57**
31-Dec-18 11:00:00	31-Dec-18 12:00:00		2.29	0.00	0.00	5.69	2.1	329.7		0.75	0.00	0.00	1.87		10.35	18.92	83.84	86.68	31-Dec-18 11:00:00		**11.10**	**18.92**	**83.84**	**88.55**
31-Dec-18 12:00:00	31-Dec-18 13:00:00		15.34	0.00	0.00	5.57	2.1	329.7		5.06	0.00	0.00	1.84		10.35	18.92	83.84	86.68	31-Dec-18 12:00:00		**15.41**	**18.92**	**83.84**	**88.52**
31-Dec-18 13:00:00	31-Dec-18 14:00:00		18.19	0.00	0.00	5.46	2.1	329.7		6.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	31-Dec-18 13:00:00		**16.35**	**18.92**	**83.84**	**88.48**
31-Dec-18 14:00:00	31-Dec-18 15:00:00		27.11	0.00	0.00	5.35	2.1	329.7		8.94	0.00	0.00	1.76		10.35	18.92	83.84	86.68	31-Dec-18 14:00:00		**19.29**	**18.92**	**83.84**	**88.44**
31-Dec-18 15:00:00	31-Dec-18 16:00:00		39.09	0.00	0.00	5.27	2.1	329.7		12.89	0.00	0.00	1.74		10.35	18.92	83.84	86.68	31-Dec-18 15:00:00		**23.24**	**18.92**	**83.84**	**88.42**
31-Dec-18 16:00:00	31-Dec-18 17:00:00		51.36	0.00	0.00	5.18	2.1	329.7		16.93	0.00	0.00	1.71		10.35	18.92	83.84	86.68	31-Dec-18 16:00:00		**27.28**	**18.92**	**83.84**	**88.39**
31-Dec-18 17:00:00	31-Dec-18 18:00:00		42.75	0.00	0.00	5.10	2.1	329.7		14.09	0.00	0.00	1.68		10.35	18.92	83.84	86.68	31-Dec-18 17:00:00		**24.44**	**18.92**	**83.84**	**88.36**
31-Dec-18 18:00:00	31-Dec-18 19:00:00		30.81	0.00	0.00	5.04	2.1	329.7		10.16	0.00	0.00	1.66		10.35	18.92	83.84	86.68	31-Dec-18 18:00:00		**20.51**	**18.92**	**83.84**	**88.34**
31-Dec-18 19:00:00	31-Dec-18 20:00:00		7.87	0.00	0.00	5.06	2.1	329.7		2.59	0.00	0.00	1.67		10.35	18.92	83.84	86.68	31-Dec-18 19:00:00		**12.94**	**18.92**	**83.84**	**88.35**
31-Dec-18 20:00:00	31-Dec-18 21:00:00		0.00	0.00	0.00	5.06	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	31-Dec-18 20:00:00		**10.35**	**18.92**	**83.84**	**88.35**
31-Dec-18 21:00:00	31-Dec-18 22:00:00		7.27	0.00	0.00	5.07	2.1	329.7		2.40	0.00	0.00	1.67		10.35	18.92	83.84	86.68	31-Dec-18 21:00:00		**12.75**	**18.92**	**83.84**	**88.35**
31-Dec-18 22:00:00	31-Dec-18 23:00:00		2.72	0.00	0.00	5.01	2.1	329.7		0.90	0.00	0.00	1.65		10.35	18.92	83.84	86.68	31-Dec-18 22:00:00		**11.25**	**18.92**	**83.84**	**88.33**
31-Dec-18 23:00:00	01-Jan-19 00:00:00		3.40	0.00	0.00	4.94	2.1	329.7		1.12	0.00	0.00	1.63		10.35	18.92	83.84	86.68	31-Dec-18 23:00:00		**11.47**	**18.92**	**83.84**	**88.31**

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
01-Jan-19 00:00:00	01-Jan-19 01:00:00		1.13	0.00	0.00	4.97	2.1	329.7		0.37	0.00	0.00	1.64		10.35	18.92	83.84	86.68	01-Jan-19 00:00:00		10.72	18.92	83.84	88.32
01-Jan-19 01:00:00	01-Jan-19 02:00:00		1.72	0.00	0.00	5.01	2.1	329.7		0.57	0.00	0.00	1.65		10.35	18.92	83.84	86.68	01-Jan-19 01:00:00		10.92	18.92	83.84	88.33
01-Jan-19 02:00:00	01-Jan-19 03:00:00		4.09	0.00	0.00	5.05	2.1	329.7		1.35	0.00	0.00	1.66		10.35	18.92	83.84	86.68	01-Jan-19 02:00:00		11.70	18.92	83.84	88.34
01-Jan-19 03:00:00	01-Jan-19 04:00:00		5.24	0.00	0.00	5.08	2.1	329.7		1.73	0.00	0.00	1.68		10.35	18.92	83.84	86.68	01-Jan-19 03:00:00		12.08	18.92	83.84	88.36
01-Jan-19 04:00:00	01-Jan-19 05:00:00		16.18	0.00	0.00	5.12	2.1	329.7		5.33	0.00	0.00	1.69		10.35	18.92	83.84	86.68	01-Jan-19 04:00:00		15.68	18.92	83.84	88.37
01-Jan-19 05:00:00	01-Jan-19 06:00:00		24.69	0.00	0.00	5.16	2.1	329.7		8.14	0.00	0.00	1.70		10.35	18.92	83.84	86.68	01-Jan-19 05:00:00		18.49	18.92	83.84	88.38
01-Jan-19 06:00:00	01-Jan-19 07:00:00		6.48	0.00	0.00	5.18	2.1	329.7		2.14	0.00	0.00	1.71		10.35	18.92	83.84	86.68	01-Jan-19 06:00:00		12.49	18.92	83.84	88.39
01-Jan-19 07:00:00	01-Jan-19 08:00:00		4.78	0.00	0.00	5.11	2.1	329.7		1.58	0.00	0.00	1.68		10.35	18.92	83.84	86.68	01-Jan-19 07:00:00		11.93	18.92	83.84	88.36
01-Jan-19 08:00:00	01-Jan-19 09:00:00		6.01	0.00	0.00	5.03	2.1	329.7		1.98	0.00	0.00	1.66		10.35	18.92	83.84	86.68	01-Jan-19 08:00:00		12.33	18.92	83.84	88.34
01-Jan-19 09:00:00	01-Jan-19 10:00:00		7.12	0.00	0.00	4.96	2.1	329.7		2.35	0.00	0.00	1.64		10.35	18.92	83.84	86.68	01-Jan-19 09:00:00		12.70	18.92	83.84	88.32
01-Jan-19 10:00:00	01-Jan-19 11:00:00		4.91	0.00	0.00	4.95	2.1	329.7		1.62	0.00	0.00	1.63		10.35	18.92	83.84	86.68	01-Jan-19 10:00:00		11.97	18.92	83.84	88.31
01-Jan-19 11:00:00	01-Jan-19 12:00:00		14.78	0.00	0.00	4.99	2.1	329.7		4.87	0.00	0.00	1.64		10.35	18.92	83.84	86.68	01-Jan-19 11:00:00		15.22	18.92	83.84	88.32
01-Jan-19 12:00:00	01-Jan-19 13:00:00		30.86	0.00	0.00	4.93	2.1	329.7		10.17	0.00	0.00	1.62		10.35	18.92	83.84	86.68	01-Jan-19 12:00:00		20.52	18.92	83.84	88.30
01-Jan-19 13:00:00	01-Jan-19 14:00:00		71.02	0.00	0.00	4.86	2.1	329.7		23.42	0.00	0.00	1.60		10.35	18.92	83.84	86.68	01-Jan-19 13:00:00		33.77	18.92	83.84	88.28
01-Jan-19 14:00:00	01-Jan-19 15:00:00		96.18	0.00	0.00	4.85	2.1	329.7		31.71	0.00	0.00	1.60		10.35	18.92	83.84	86.68	01-Jan-19 14:00:00		42.06	18.92	83.84	88.28
01-Jan-19 15:00:00	01-Jan-19 16:00:00		51.80	0.00	0.00	4.95	2.1	329.7		17.08	0.00	0.00	1.63		10.35	18.92	83.84	86.68	01-Jan-19 15:00:00		27.43	18.92	83.84	88.31
01-Jan-19 16:00:00	01-Jan-19 17:00:00		9.75	0.00	0.00	5.00	2.1	329.7		3.21	0.00	0.00	1.65		10.35	18.92	83.84	86.68	01-Jan-19 16:00:00		13.56	18.92	83.84	88.33
01-Jan-19 17:00:00	01-Jan-19 18:00:00		13.01	0.00	0.00	5.05	2.1	329.7		4.29	0.00	0.00	1.67		10.35	18.92	83.84	86.68	01-Jan-19 17:00:00		14.64	18.92	83.84	88.35
01-Jan-19 18:00:00	01-Jan-19 19:00:00		7.26	0.00	0.00	5.12	2.1	329.7		2.39	0.00	0.00	1.69		10.35	18.92	83.84	86.68	01-Jan-19 18:00:00		12.74	18.92	83.84	88.37
01-Jan-19 19:00:00	01-Jan-19 20:00:00		7.73	0.00	0.00	5.30	2.1	329.7		2.55	0.00	0.00	1.75		10.35	18.92	83.84	86.68	01-Jan-19 19:00:00		12.90	18.92	83.84	88.43
01-Jan-19 20:00:00	01-Jan-19 21:00:00		15.93	0.00	0.00	5.50	2.1	329.7		5.25	0.00	0.00	1.81		10.35	18.92	83.84	86.68	01-Jan-19 20:00:00		15.60	18.92	83.84	88.49
01-Jan-19 21:00:00	01-Jan-19 22:00:00		21.35	0.00	0.00	5.70	2.1	329.7		7.04	0.00	0.00	1.88		10.35	18.92	83.84	86.68	01-Jan-19 21:00:00		17.39	18.92	83.84	88.56
01-Jan-19 22:00:00	01-Jan-19 23:00:00		9.09	0.00	0.00	5.84	2.1	329.7		3.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	01-Jan-19 22:00:00		13.35	18.92	83.84	88.60
01-Jan-19 23:00:00	02-Jan-19 00:00:00		2.32	0.00	0.00	5.78	2.1	329.7		0.76	0.00	0.00	1.91		10.35	18.92	83.84	86.68	01-Jan-19 23:00:00		11.11	18.92	83.84	88.59
02-Jan-19 00:00:00	02-Jan-19 01:00:00		0.70	0.00	0.00	5.79	2.1	329.7		0.23	0.00	0.00	1.91		10.35	18.92	83.84	86.68	02-Jan-19 00:00:00		10.58	18.92	83.84	88.59
02-Jan-19 01:00:00	02-Jan-19 02:00:00		10.51	0.00	0.00	5.79	2.1	329.7		3.47	0.00	0.00	1.91		10.35	18.92	83.84	86.68	02-Jan-19 01:00:00		13.82	18.92	83.84	88.59
02-Jan-19 02:00:00	02-Jan-19 03:00:00		33.84	0.00	0.00	5.80	2.1	329.7		11.16	0.00	0.00	1.91		10.35	18.92	83.84	86.68	02-Jan-19 02:00:00		21.51	18.92	83.84	88.59
02-Jan-19 03:00:00	02-Jan-19 04:00:00		32.15	0.00	0.00	5.89	2.1	329.7		10.60	0.00	0.00	1.94		10.35	18.92	83.84	86.68	02-Jan-19 03:00:00		20.95	18.92	83.84	88.62
02-Jan-19 04:00:00	02-Jan-19 05:00:00		35.51	0.00	0.00	6.02	2.1	329.7		11.71	0.00	0.00	1.98		10.35	18.92	83.84	86.68	02-Jan-19 04:00:00		22.06	18.92	83.84	88.66
02-Jan-19 05:00:00	02-Jan-19 06:00:00		33.50	0.00	0.00	6.15	2.1	329.7		11.04	0.00	0.00	2.03		10.35	18.92	83.84	86.68	02-Jan-19 05:00:00		21.39	18.92	83.84	88.71
02-Jan-19 06:00:00	02-Jan-19 07:00:00		18.92	0.00	0.00	6.29	2.1	329.7		6.24	0.00	0.00	2.07		10.35	18.92	83.84	86.68	02-Jan-19 06:00:00		16.59	18.92	83.84	88.75
02-Jan-19 07:00:00	02-Jan-19 08:00:00		15.08	0.00	0.00	6.36	2.1	329.7		4.97	0.00	0.00	2.10		10.35	18.92	83.84	86.68	02-Jan-19 07:00:00		15.32	18.92	83.84	88.78
02-Jan-19 08:00:00	02-Jan-19 09:00:00		1.03	0.00	0.00	6.34	2.1	329.7		0.34	0.00	0.00	2.09		10.35	18.92	83.84	86.68	02-Jan-19 08:00:00		10.69	18.92	83.84	88.77
02-Jan-19 09:00:00	02-Jan-19 10:00:00		0.92	0.00	0.00	6.33	2.1	329.7		0.30	0.00	0.00	2.09		10.35	18.92	83.84	86.68	02-Jan-19 09:00:00		10.65	18.92	83.84	88.77
02-Jan-19 10:00:00	02-Jan-19 11:00:00		0.00	0.00	0.00	6.27	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	02-Jan-19 10:00:00		10.35	18.92	83.84	88.75
02-Jan-19 11:00:00	02-Jan-19 12:00:00		0.16	0.00	0.00	6.09	2.1	329.7		0.05	0.00	0.00	2.01		10.35	18.92	83.84	86.68	02-Jan-19 11:00:00		10.40	18.92	83.84	88.69
02-Jan-19 12:00:00	02-Jan-19 13:00:00		0.00	0.00	0.00	5.98	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	02-Jan-19 12:00:00		10.35	18.92	83.84	88.65
02-Jan-19 13:00:00	02-Jan-19 14:00:00		0.14	0.00	0.00	5.87	2.1	329.7		0.05	0.00	0.00	1.93		10.35	18.92	83.84	86.68	02-Jan-19 13:00:00		10.40	18.92	83.84	88.61
02-Jan-19 14:00:00	02-Jan-19 15:00:00		2.48	0.00	0.00	5.76	2.1	329.7		0.82	0.00	0.00	1.90		10.35	18.92	83.84	86.68	02-Jan-19 14:00:00		11.17	18.92	83.84	88.58
02-Jan-19 15:00:00	02-Jan-19 16:00:00		0.48	0.00	0.00	5.74	2.1	329.7		0.16	0.00	0.00	1.89		10.35	18.92	83.84	86.68	02-Jan-19 15:00:00		10.51	18.92	83.84	88.57
02-Jan-19 16:00:00	02-Jan-19 17:00:00		0.32	0.00	0.00	5.77	2.1	329.7		0.11	0.00	0.00	1.90		10.35	18.92	83.84	86.68	02-Jan-19 16:00:00		10.46	18.92	83.84	88.58
02-Jan-19 17:00:00	02-Jan-19 18:00:00		0.19	0.00	0.00	5.80	2.1	329.7		0.06	0.00	0.00	1.91		10.35	18.92	83.84	86.68	02-Jan-19 17:00:00		10.41	18.92	83.84	88.59
02-Jan-19 18:00:00	02-Jan-19 19:00:00		0.07	0.00	0.00	5.84	2.1	329.7		0.02	0.00	0.00	1.92		10.35	18.92	83.84	86.68	02-Jan-19 18:00:00		10.37	18.92	83.84	88.60
02-Jan-19 19:00:00	02-Jan-19 20:00:00		1.23	0.00	0.00	10.32	2.1	329.7		0.41	0.00	0.00	3.40		10.35	18.92	83.84	86.68	02-Jan-19 19:00:00		10.76	18.92	83.84	90.08
02-Jan-19 20:00:00	02-Jan-19 21:00:00		1.37	0.00	0.00	7.16	2.1	329.7		0.45	0.00	0.00	2.36		10.35	18.92	83.84	86.68	02-Jan-19 20:00:00		10.80	18.92	83.84	89.04
02-Jan-19 21:00:00	02-Jan-19 22:00:00		0.70	0.00	0.00	6.11	2.1	329.7		0.23	0.00	0.00	2.01		10.35	18.92	83.84	86.68	02-Jan-19 21:00:00		10.58	18.92	83.84	88.69
02-Jan-19 22:00:00	02-Jan-19 23:00:00		1.69	0.00	0.00	6.00	2.1	329.7		0.56	0.00	0.00	1.98		10.35	18.92	83.84	86.68	02-Jan-19 22:00:00		10.91	18.92	83.84	88.66
02-Jan-19 23:00:00	03-Jan-19 00:00:00		0.79	0.00	0.00	7.11	2.1	329.7		0.26	0.00	0.00	2.34		10.35	18.92	83.84	86.68	02-Jan-19 23:00:00		10.61	18.92	83.84	89.02
03-Jan-19 00:00:00	03-Jan-19 01:00:00		0.45	0.00	0.00	7.38	2.1	329.7		0.15	0.00	0.00	2.43		10.35	18.92	83.84	86.68	03-Jan-19 00:00:00		10.50	18.92	83.84	89.11
03-Jan-19 01:00:00	03-Jan-19 02:00:00		15.68	0.00	0.00	5.99	2.1	329.7		5.17	0.00	0.00	1.98		10.35	18.92	83.84	86.68	03-Jan-19 01:00:00		15.52	18.92	83.84	88.66
03-Jan-19 02:00:00	03-Jan-19 03:00:00		20.58	0.00	0.00	6.23	2.1	329.7		6.79	0.00	0.00	2.05		10.35	18.92	83.84	86.68	03-Jan-19 02:00:00		17.14	18.92	83.84	88.73
03-Jan-19 03:00:00	03-Jan-19 04:00:00		45.60	0.00	0.00	14.59	2.1	329.7		15.03	0.00	0.00	4.81		10.35	18.92	83.84	86.68	03-Jan-19 03:00:00		25.38	18.92	83.84	91.49
03-Jan-19 04:00:00	03-Jan-19 05:00:00		45.47	0.00	0.00	7.08	2.1	329.7		14.99	0.00	0.00	2.33		10.35	18.92	83.84	86.68	03-Jan-19 04:00:00		25.34	18.92	83.84	89.01
03-Jan-19 05:00:00	03-Jan-19 06:00:00		43.47	0.00	0.00	6.52	2.1	329.7		14.33	0.00	0.00	2.15		10.35	18.92	83.84	86.68	03-Jan-19 05:00:00		24.68	18.92	83.84	88.83
03-Jan-19 06:00:00	03-Jan-19 07:00:00		40.79	0.00	0.00	6.21	2.1	329.7		13.45	0.00	0.00	2.05		10.35	18.92	83.84	86.68	03-Jan-19 06:00:00		23.80	18.92	83.84	88.73
03-Jan-19 07:00:00	03-Jan-19 08:00:00		38.45	0.00	0.00	6.28	2.1	329.7		12.68	0.00	0.00	2.07		10.35	18.92	83.84	86.68	03-Jan-19 07:00:00		23.03	18.92	83.84	88.75
03-Jan-19 08:00:00	03-Jan-19 09:00:00		38.76	0.00	0.00	6.34	2.1	329.7		12.78	0.00	0.00	2.09		10.35	18.92	83.84	86.68	03-Jan-19 08:00:00		23.13	18.92	83.84	88.77
03-Jan-19 09:00:00	03-Jan-19 10:00:00		74.81	0.00	0.00	6.35	2.1	329.7		24.66	0.00	0.00	2.09		10.35	18.92	83.84	86.68	03-Jan-19 09:00:00		35.01	18.92	83.84	88.77
03-Jan-19 10:00:00	03-Jan-19 11:00:00		62.04	0.00	0.00	6.20	2.1	329.7		20.45	0.00	0.00	2.05		10.35	18.92	83.84	86.68	03-Jan-19 10:00:00		30.80	18.92	83.84	88.73
03-Jan-19 11:00:00	03-Jan-19 12:00:00		62.61	0.00	0.00	6.05	2.1	329.7		20.64	0.00	0.00	1.99		10.35	18.92	83.84	86.68	03-Jan-19 11:00:00		30.99	18.92	83.84	88.67
03-Jan-19 12:00:00	03-Jan-19 13:00:00		49.57	0.00	0.00	5.89	2.1	329.7		16.34	0.00	0.00	1.94		10.35	18.92	83.84	86.68	03-Jan-19 12:00:00		26.69	18.92	83.84	88.62
03-Jan-19 13:00:00	03-Jan-19 14:00:00		48.15	0.00	0.00	5.78	2.1	329.7		15.88	0.00	0.00	1.90		10.35	18.92	83.84	86.68	03-Jan-19 13:00:00		26.23	18.92	83.84	88.58
03-Jan-19 14:00:00	03-Jan-19 15:00:00		46.54	0.00	0.00	5.80	2.1	329.7		15.35	0.00	0.00	1.91		10.35	18.92	83.84	86.68	03-Jan-19 14:00:00		25.70	18.92	83.84	88.59
03-Jan-19 15:00:00	03-Jan-19 16:00:00		45.53	0.00	0.00	7.13	2.1	329.7		15.01	0.00	0.00	2.35		10.35	18.92	83.84	86.68	03-Jan-19 15:00:00		25.36	18.92	83.84	89.03
03-Jan-19 16:00:00	03-Jan-19 17:00:00		45.48	0.00	0.00	9.60	2.1	329.7		14.99	0.00	0.00	3.17		10.35	18.92	83.84	86.68	03-Jan-19 16:00:00		25.34	18.92	83.84	89.85
03-Jan-19 17:00:00	03-Jan-19 18:00:00		45.43	0.00	0.00	5.84	2.1	329.7		14.98	0.00	0.00	1.92		10.35	18.92	83.84	86.68	03-Jan-19 17:00:00		25.33	18.92	83.84	88.60
03-Jan-19 18:00:00	03-Jan-19 19:00:00		50.13	0.00	0.00	5.85	2.1	329.7		16.53	0.00	0.00	1.93		10.35	18.92	83.84	86.68	03-Jan-19 18:00:00		26.88	18.92	83.84	88.61
03-Jan-19 19:00:00	03-Jan-19 20:00:00		45.89	0.00	0.00	5.87	2.1	329.7		15.13	0.00	0.00	1.93		10.35	18.92	83.84	86.68	03-Jan-19 19:00:00		25.48	18.92	83.84	88.61
03-Jan-19 20:00:00	03-Jan-19 21:00:00		47.59	0.00	0.00	5.92	2.1	329.7		15.69	0.00	0.00	1.95		10.35	18.92	83.84	86.68	03-Jan-19 20:00:00		26.04	18.92	83.84	88.63
03-Jan-19 21:00:00	03-Jan-19 22:00:00		44.86	0.00	0.00	6.05	2.1	329.7		14.79	0.00	0.00	1.99		10.35	18.92	83.84	86.68	03-Jan-19 21:00:00		25.14	18.92	83.84	88.67
03-Jan-19 22:00:00	03-Jan-19 23:00:00		53.71	0.00	0.00	6.07	2.1	329.7		17.71	0.00	0.00	2.00		10.35	18.92	83.84	86.68	03-Jan-19 22:00:00		28.06	18.92	83.84	88.68
03-Jan-19 23:00:00	04-Jan-19 00:00:00		67.30	0.00	0.00	6.10	2.1	329.7		22.19	0.00	0.00	2.01		10.35	18.92	83.84	86.68	03-Jan-19 23:00:00		32.54	18.92	83.84	88.69
04-Jan-19 00:00:00	04-Jan-19 01:00:00		70.45	0.00	0.00	6.13	2.1	329.7		23.23	0.00	0.00	2.02		10.35	18.92	83.84	86.68	04-Jan-19 00:00:00		33.58	18.92	83.84	88.70
04-Jan-19 01:00:00	04-Jan-19 02:00:00		71.72	0.00	0.00	6.18	2.1	329.7		23.65	0.00	0.00	2.04		10.35	18.92	83.84	86.68	04-Jan-19 01:00:00		34.00	18.92	83.84	88.72
04-Jan-19 02:00:00	04-Jan-19 03:00:00		68.59	0.00	0.00	6.25	2.1	329.7		22.61	0.00	0.00	2.06		10.35	18.92	83.84	86.68	04-Jan-19 02:00:00		32.96	18.92	83.84	88.74
04-Jan-19 03:00:00	04-Jan-19 04:00:00		66.57	0.00	0.00	6.31	2.1	329.7		21.95	0.00	0.00	2.08		10.35	18.92	83.84	86.68	04-Jan-19 03:00:00		32.30	18.92	83.84	88.76
04-Jan-19 04:00:00	04-Jan-19 05:00:00		67.78	0.00	0.00	128.15	2.1	329.7		22.35	0.00	0.00	42.25		10.35	18.92	83.84	86.68	04-Jan-19 04:00:00		32.70	18.92	83.84	128.93
04-Jan-19 05:00:00	04-Jan-19 06:00:00		66.88	0.00	0.00	6.45	2.1	329.7		22.05	0.00	0.00	2.13		10.35	18.92	83.84	86.68	04-Jan-19 05:00:00		32.40	18.92	83.84	88.81
04-Jan-19 06:00:00	04-Jan-19 07:00:00		66.90	0.00	0.00	6.46	2.1	329.7		22.06	0.00	0.00	2.13		10.35	18.92	83.84	86.68	04-Jan-19 06:00:00		32.41	18.92	83.84	88.81
04-Jan-19 07:00:00	04-Jan-19 08:00:00		65.68	0.00	0.00	11.35	2.1	329.7		21.66	0.00	0.00	3.74		10.35	18.92	83.84	86.68	04-Jan-19 07:00:00		32.01	18.92	83.84	90.42
04-Jan-19 08:00:00	04-Jan-19 09:00:00		64.70	0.00	0.00	9.69	2.1	329.7		21.33	0.00	0.00	3.20		10.35	18.92	83.84	86.68	04-Jan-19 08:00:00		31.68	18.92	83.84	89.88
04-Jan-19 09:00:00	04-Jan-19 10:00:00		70.07	0.00	0.00	6.34	2.1	329.7		23.10	0.00	0.00	2.09		10.35	18.92	83.84	86.68	04-Jan-19 09:00:00		33.45	18.92	83.84	88.77
04-Jan-19 10:00:00	04-Jan-19 11:00:00		76.16	0.00	0.00	6.33	2.1	329.7		25.11	0.00	0.00	2.09		10.35	18.92	83.84	86.68	04-Jan-19 10:00:00		35.46	18.92	83.84	88.77
04-Jan-19 11:00:00	04-Jan-19 12:00:00		64.19	0.00	0.00	6.32	2.1	329.7		21.16	0.00	0.00	2.09		10.35	18.92	83.84	86.68	04-Jan-19 11:00:00		31.51	18.92	83.84	88.77
04-Jan-19 12:00:00	04-Jan-19 13:00:00		61.92	0.00	0.00	6.32	2.1	329.7		20.42	0.00	0.00	2.08		10.35	18.92	83.84	86.68	04-Jan-19 12:00:00		30.77	18.92	83.84	88.76
04-Jan-19 13:00:00	04-Jan-19 14:00:00		53.01	0.00	0.00	6.30	2.1	329.7		17.48	0.00	0.00	2.08		10.35	18.92	83.84	86.68	04-Jan-19 13:00:00		27.83	18.92	83.84	88.76
04-Jan-19 14:00:00	04-Jan-19 15:00:00		54.33	0.00	0.00	6.28	2.1	329.7		17.91	0.00	0.00	2.07		10.35	18.92	83.84	86.68	04-Jan-19 14:00:00		28.26	18.92	83.84	88.75
04-Jan-19 15:00:00	04-Jan-19 16:00:00		41.54	0.00	0.00	40.76	2.1	329.7		13.70	0.00	0.00	13.44		10.35	18.92	83.84	86.68	04-Jan-19 15:00:00		24.05	18.92	83.84	100.12
04-Jan-19 16:00:00	04-Jan-19 17:00:00		17.70	0.00	0.00	30.16	2.1	329.7		5.84	0.00	0.00	9.94		10.35	18.92	83.84	86.68	04-Jan-19 16:00:00		16.19	18.92	83.84	96.62
04-Jan-19 17:00:00	04-Jan-19 18:00:00		24.90	0.00	0.00	145.43	2.1	329.7		8.21	0.00	0.00	47.95		10.35	18.92	83.84	86.68	04-Jan-19 17:00:00		18.56	18.92	83.84	134.63
04-Jan-19 18:00:00	04-Jan-19 19:00:00		29.76	0.00	0.00	9.07	2.1	329.7		9.81	0.00	0.00	2.99		10.35	18.92	83.84	86.68	04-Jan-19 18:00:00		20.16	18.92	83.84	89.67
04-Jan-19 19:00:00	04-Jan-19 20:00:00		34.25	0.00	0.00	14.69	2.1	329.7		11.29	0.00	0.00	4.84		10.35	18.92	83.84	86.68	04-Jan-19 19:00:00		21.64	18.92	83.84	91.52
04-Jan-19 20:00:00	04-Jan-19 21:00:00		13.13	0.00	0.00	22.81	2.1	329.7		4.33	0.00	0.00	7.52		10.35	18.92	83.84	86.68	04-Jan-19 20:00:00		14.68	18.92	83.84	94.20
04-Jan-19 21:00:00	04-Jan-19 22:00:00		10.48	0.00	0.00	36.10

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
06-Jan-19 23:00:00	07-Jan-19 00:00:00		375.16	1,441.88	0.00	6.72	2.1	329.7		123.69	475.39	0.00	2.22		10.35	18.92	83.84	86.68	06-Jan-19 23:00:00		134.04	494.31	83.84	88.90
07-Jan-19 00:00:00	07-Jan-19 01:00:00		824.44	1,471.14	0.00	6.65	2.1	329.7		271.82	485.04	0.00	2.19		10.35	18.92	83.84	86.68	07-Jan-19 00:00:00		282.17	503.96	83.84	88.87
07-Jan-19 01:00:00	07-Jan-19 02:00:00		821.15	1,483.30	0.00	6.57	2.1	329.7		270.73	489.05	0.00	2.17		10.35	18.92	83.84	86.68	07-Jan-19 01:00:00		281.08	507.97	83.84	88.85
07-Jan-19 02:00:00	07-Jan-19 03:00:00		822.22	1,483.68	0.00	6.49	2.1	329.7		271.09	489.17	0.00	2.14		10.35	18.92	83.84	86.68	07-Jan-19 02:00:00		281.44	508.09	83.84	88.82
07-Jan-19 03:00:00	07-Jan-19 04:00:00		834.61	1,609.14	0.00	6.41	2.1	329.7		275.17	530.53	0.00	2.11		10.35	18.92	83.84	86.68	07-Jan-19 03:00:00		285.52	549.45	83.84	88.79
07-Jan-19 04:00:00	07-Jan-19 05:00:00		732.74	2,171.21	0.00	6.47	2.1	329.7		241.58	715.85	0.00	2.13		10.35	18.92	83.84	86.68	07-Jan-19 04:00:00		251.93	734.77	83.84	88.81
07-Jan-19 05:00:00	07-Jan-19 06:00:00		558.08	2,243.16	0.00	6.57	2.1	329.7		184.00	739.57	0.00	2.17		10.35	18.92	83.84	86.68	07-Jan-19 05:00:00		194.35	758.49	83.84	88.85
07-Jan-19 06:00:00	07-Jan-19 07:00:00		417.08	1,911.84	0.10	6.68	2.1	329.7		137.51	630.33	0.03	2.20		10.35	18.92	83.84	86.68	07-Jan-19 06:00:00		147.86	649.25	83.87	88.88
07-Jan-19 07:00:00	07-Jan-19 08:00:00		246.31	1,620.19	0.00	6.78	2.1	329.7		81.21	534.18	0.00	2.23		10.35	18.92	83.84	86.68	07-Jan-19 07:00:00		91.56	553.10	83.84	88.91
07-Jan-19 08:00:00	07-Jan-19 09:00:00		11.69	282.05	0.00	6.75	2.1	329.7		3.86	92.99	0.00	2.23		10.35	18.92	83.84	86.68	07-Jan-19 08:00:00		14.21	111.91	83.84	88.91
07-Jan-19 09:00:00	07-Jan-19 10:00:00		9.65	0.00	0.00	6.70	2.1	329.7		3.18	0.00	0.00	2.21		10.35	18.92	83.84	86.68	07-Jan-19 09:00:00		13.53	18.92	83.84	88.89
07-Jan-19 10:00:00	07-Jan-19 11:00:00		9.00	0.00	0.00	6.65	2.1	329.7		2.97	0.00	0.00	2.19		10.35	18.92	83.84	86.68	07-Jan-19 10:00:00		13.32	18.92	83.84	88.87
07-Jan-19 11:00:00	07-Jan-19 12:00:00		6.88	0.00	0.00	6.49	2.1	329.7		2.27	0.00	0.00	2.14		10.35	18.92	83.84	86.68	07-Jan-19 11:00:00		12.62	18.92	83.84	88.82
07-Jan-19 12:00:00	07-Jan-19 13:00:00		5.52	0.00	0.00	6.27	2.1	329.7		1.82	0.00	0.00	2.07		10.35	18.92	83.84	86.68	07-Jan-19 12:00:00		12.17	18.92	83.84	88.75
07-Jan-19 13:00:00	07-Jan-19 14:00:00		2.21	0.00	0.00	6.08	2.1	329.7		0.73	0.00	0.00	2.01		10.35	18.92	83.84	86.68	07-Jan-19 13:00:00		11.08	18.92	83.84	88.69
07-Jan-19 14:00:00	07-Jan-19 15:00:00		0.86	0.00	0.00	5.90	2.1	329.7		0.28	0.00	0.00	1.94		10.35	18.92	83.84	86.68	07-Jan-19 14:00:00		10.63	18.92	83.84	88.62
07-Jan-19 15:00:00	07-Jan-19 16:00:00		0.61	0.00	0.00	5.75	2.1	329.7		0.20	0.00	0.00	1.90		10.35	18.92	83.84	86.68	07-Jan-19 15:00:00		10.55	18.92	83.84	88.58
07-Jan-19 16:00:00	07-Jan-19 17:00:00		0.35	0.00	0.00	5.75	2.1	329.7		0.12	0.00	0.00	1.90		10.35	18.92	83.84	86.68	07-Jan-19 16:00:00		10.47	18.92	83.84	88.58
07-Jan-19 17:00:00	07-Jan-19 18:00:00		0.10	0.00	0.00	5.98	2.1	329.7		0.03	0.00	0.00	1.97		10.35	18.92	83.84	86.68	07-Jan-19 17:00:00		10.38	18.92	83.84	88.65
07-Jan-19 18:00:00	07-Jan-19 19:00:00		0.00	0.00	0.00	5.90	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	07-Jan-19 18:00:00		10.35	18.92	83.84	88.62
07-Jan-19 19:00:00	07-Jan-19 20:00:00		0.00	0.00	0.00	6.05	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	07-Jan-19 19:00:00		10.35	18.92	83.84	88.67
07-Jan-19 20:00:00	07-Jan-19 21:00:00		0.00	0.00	0.00	6.20	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	07-Jan-19 20:00:00		10.35	18.92	83.84	88.72
07-Jan-19 21:00:00	07-Jan-19 22:00:00		0.00	0.00	0.00	6.34	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	07-Jan-19 21:00:00		10.35	18.92	83.84	88.77
07-Jan-19 22:00:00	07-Jan-19 23:00:00		0.00	0.00	0.00	6.37	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	07-Jan-19 22:00:00		10.35	18.92	83.84	88.78
07-Jan-19 23:00:00	08-Jan-19 00:00:00		4.47	0.00	0.00	6.38	2.1	329.7		1.47	0.00	0.00	2.10		10.35	18.92	83.84	86.68	07-Jan-19 23:00:00		11.82	18.92	83.84	88.78
08-Jan-19 00:00:00	08-Jan-19 01:00:00		592.28	0.00	0.00	6.39	2.1	329.7		195.28	0.00	0.00	2.11		10.35	18.92	83.84	86.68	08-Jan-19 00:00:00		205.63	18.92	83.84	88.79
08-Jan-19 01:00:00	08-Jan-19 02:00:00		1,008.29	0.00	0.00	6.42	2.1	329.7		332.43	0.00	0.00	2.12		10.35	18.92	83.84	86.68	08-Jan-19 01:00:00		342.78	18.92	83.84	88.80
08-Jan-19 02:00:00	08-Jan-19 03:00:00		1,048.90	0.00	0.00	6.44	2.1	329.7		345.82	0.00	0.00	2.12		10.35	18.92	83.84	86.68	08-Jan-19 02:00:00		356.17	18.92	83.84	88.80
08-Jan-19 03:00:00	08-Jan-19 04:00:00		1,029.32	0.00	0.00	6.42	2.1	329.7		339.37	0.00	0.00	2.12		10.35	18.92	83.84	86.68	08-Jan-19 03:00:00		349.72	18.92	83.84	88.80
08-Jan-19 04:00:00	08-Jan-19 05:00:00		766.93	0.00	0.00	6.39	2.1	329.7		252.86	0.00	0.00	2.11		10.35	18.92	83.84	86.68	08-Jan-19 04:00:00		263.21	18.92	83.84	88.79
08-Jan-19 05:00:00	08-Jan-19 06:00:00		488.22	0.00	0.00	6.36	2.1	329.7		160.97	0.00	0.00	2.10		10.35	18.92	83.84	86.68	08-Jan-19 05:00:00		171.32	18.92	83.84	88.78
08-Jan-19 06:00:00	08-Jan-19 07:00:00		482.66	0.00	0.00	6.27	2.1	329.7		159.13	0.00	0.00	2.07		10.35	18.92	83.84	86.68	08-Jan-19 06:00:00		169.48	18.92	83.84	88.75
08-Jan-19 07:00:00	08-Jan-19 08:00:00		267.85	0.00	0.00	6.14	2.1	329.7		88.31	0.00	0.00	2.02		10.35	18.92	83.84	86.68	08-Jan-19 07:00:00		98.66	18.92	83.84	88.70
08-Jan-19 08:00:00	08-Jan-19 09:00:00		269.34	0.00	0.00	6.01	2.1	329.7		88.80	0.00	0.00	1.98		10.35	18.92	83.84	86.68	08-Jan-19 08:00:00		99.15	18.92	83.84	88.66
08-Jan-19 09:00:00	08-Jan-19 10:00:00		261.29	0.00	0.00	5.88	2.1	329.7		86.15	0.00	0.00	1.94		10.35	18.92	83.84	86.68	08-Jan-19 09:00:00		96.50	18.92	83.84	88.62
08-Jan-19 10:00:00	08-Jan-19 11:00:00		262.13	0.00	0.00	5.69	2.1	329.7		86.42	0.00	0.00	1.88		10.35	18.92	83.84	86.68	08-Jan-19 10:00:00		96.77	18.92	83.84	88.56
08-Jan-19 11:00:00	08-Jan-19 12:00:00		270.88	0.00	0.00	5.48	2.1	329.7		89.31	0.00	0.00	1.81		10.35	18.92	83.84	86.68	08-Jan-19 11:00:00		99.66	18.92	83.84	88.49
08-Jan-19 12:00:00	08-Jan-19 13:00:00		272.64	0.00	0.00	13.07	2.1	329.7		89.89	0.00	0.00	4.31		10.35	18.92	83.84	86.68	08-Jan-19 12:00:00		100.24	18.92	83.84	90.99
08-Jan-19 13:00:00	08-Jan-19 14:00:00		275.80	0.00	0.00	5.31	2.1	329.7		90.93	0.00	0.00	1.75		10.35	18.92	83.84	86.68	08-Jan-19 13:00:00		101.28	18.92	83.84	88.43
08-Jan-19 14:00:00	08-Jan-19 15:00:00		279.24	0.00	0.00	5.28	2.1	329.7		92.06	0.00	0.00	1.74		10.35	18.92	83.84	86.68	08-Jan-19 14:00:00		102.41	18.92	83.84	88.42
08-Jan-19 15:00:00	08-Jan-19 16:00:00		282.09	0.00	0.00	5.25	2.1	329.7		93.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	08-Jan-19 15:00:00		103.35	18.92	83.84	88.41
08-Jan-19 16:00:00	08-Jan-19 17:00:00		284.84	0.00	0.00	5.27	2.1	329.7		93.91	0.00	0.00	1.74		10.35	18.92	83.84	86.68	08-Jan-19 16:00:00		104.26	18.92	83.84	88.42
08-Jan-19 17:00:00	08-Jan-19 18:00:00		285.27	0.00	0.00	5.43	2.1	329.7		94.05	0.00	0.00	1.79		10.35	18.92	83.84	86.68	08-Jan-19 17:00:00		104.40	18.92	83.84	88.47
08-Jan-19 18:00:00	08-Jan-19 19:00:00		300.00	0.00	0.00	5.60	2.1	329.7		98.91	0.00	0.00	1.85		10.35	18.92	83.84	86.68	08-Jan-19 18:00:00		109.26	18.92	83.84	88.53
08-Jan-19 19:00:00	08-Jan-19 20:00:00		308.92	0.00	0.00	5.76	2.1	329.7		101.85	0.00	0.00	1.90		10.35	18.92	83.84	86.68	08-Jan-19 19:00:00		112.20	18.92	83.84	88.58
08-Jan-19 20:00:00	08-Jan-19 21:00:00		308.35	0.00	0.00	6.03	2.1	329.7		101.66	0.00	0.00	1.99		10.35	18.92	83.84	86.68	08-Jan-19 20:00:00		112.01	18.92	83.84	88.67
08-Jan-19 21:00:00	08-Jan-19 22:00:00		284.92	0.00	0.00	6.05	2.1	329.7		93.94	0.00	0.00	1.99		10.35	18.92	83.84	86.68	08-Jan-19 21:00:00		104.29	18.92	83.84	88.67
08-Jan-19 22:00:00	08-Jan-19 23:00:00		219.70	0.00	0.00	6.19	2.1	329.7		72.44	0.00	0.00	2.04		10.35	18.92	83.84	86.68	08-Jan-19 22:00:00		82.79	18.92	83.84	88.72
08-Jan-19 23:00:00	09-Jan-19 00:00:00		314.00	93.15	0.00	6.34	2.1	329.7		103.53	30.71	0.00	2.09		10.35	18.92	83.84	86.68	08-Jan-19 23:00:00		113.88	49.63	83.84	88.77
09-Jan-19 00:00:00	09-Jan-19 01:00:00		306.21	46.44	0.00	6.54	2.1	329.7		100.96	15.31	0.00	2.15		10.35	18.92	83.84	86.68	09-Jan-19 00:00:00		111.31	34.23	83.84	88.83
09-Jan-19 01:00:00	09-Jan-19 02:00:00		306.91	288.94	0.00	6.43	2.1	329.7		101.19	95.27	0.00	2.12		10.35	18.92	83.84	86.68	09-Jan-19 01:00:00		111.54	114.19	83.84	88.80
09-Jan-19 02:00:00	09-Jan-19 03:00:00		285.73	589.19	0.00	6.30	2.1	329.7		94.20	194.25	0.00	2.08		10.35	18.92	83.84	86.68	09-Jan-19 02:00:00		104.55	213.17	83.84	88.76
09-Jan-19 03:00:00	09-Jan-19 04:00:00		312.23	642.81	0.00	6.18	2.1	329.7		102.94	211.94	0.00	2.04		10.35	18.92	83.84	86.68	09-Jan-19 03:00:00		113.29	230.86	83.84	88.72
09-Jan-19 04:00:00	09-Jan-19 05:00:00		317.19	656.83	0.00	6.25	2.1	329.7		104.58	216.56	0.00	2.06		10.35	18.92	83.84	86.68	09-Jan-19 04:00:00		114.93	235.48	83.84	88.74
09-Jan-19 05:00:00	09-Jan-19 06:00:00		295.07	795.55	0.00	6.37	2.1	329.7		97.28	262.29	0.00	2.10		10.35	18.92	83.84	86.68	09-Jan-19 05:00:00		107.63	281.21	83.84	88.78
09-Jan-19 06:00:00	09-Jan-19 07:00:00		258.81	1,007.54	0.00	6.49	2.1	329.7		85.33	332.19	0.00	2.14		10.35	18.92	83.84	86.68	09-Jan-19 06:00:00		95.68	351.11	83.84	88.82
09-Jan-19 07:00:00	09-Jan-19 08:00:00		238.68	1,006.80	0.00	6.61	2.1	329.7		78.69	331.94	0.00	2.18		10.35	18.92	83.84	86.68	09-Jan-19 07:00:00		89.04	350.86	83.84	88.86
09-Jan-19 08:00:00	09-Jan-19 09:00:00		241.95	1,021.71	0.00	6.76	2.1	329.7		79.77	336.86	0.00	2.23		10.35	18.92	83.84	86.68	09-Jan-19 08:00:00		90.12	355.78	83.84	88.91
09-Jan-19 09:00:00	09-Jan-19 10:00:00		241.69	1,042.48	0.00	6.84	2.1	329.7		79.69	343.70	0.00	2.26		10.35	18.92	83.84	86.68	09-Jan-19 09:00:00		90.04	362.62	83.84	88.94
09-Jan-19 10:00:00	09-Jan-19 11:00:00		245.77	1,041.32	0.00	6.92	2.1	329.7		81.03	343.32	0.00	2.28		10.35	18.92	83.84	86.68	09-Jan-19 10:00:00		91.38	362.24	83.84	88.96
09-Jan-19 11:00:00	09-Jan-19 12:00:00		275.14	1,041.75	0.00	6.99	2.1	329.7		90.71	343.47	0.00	2.31		10.35	18.92	83.84	86.68	09-Jan-19 11:00:00		101.06	362.39	83.84	88.99
09-Jan-19 12:00:00	09-Jan-19 13:00:00		269.99	1,039.97	0.00	6.98	2.1	329.7		89.01	342.88	0.00	2.30		10.35	18.92	83.84	86.68	09-Jan-19 12:00:00		99.36	361.80	83.84	88.98
09-Jan-19 13:00:00	09-Jan-19 14:00:00		273.21	1,083.23	0.00	6.83	2.1	329.7		90.08	357.14	0.00	2.25		10.35	18.92	83.84	86.68	09-Jan-19 13:00:00		100.43	376.06	83.84	88.93
09-Jan-19 14:00:00	09-Jan-19 15:00:00		273.45	1,217.78	0.00	6.67	2.1	329.7		90.16	401.50	0.00	2.20		10.35	18.92	83.84	86.68	09-Jan-19 14:00:00		100.51	420.42	83.84	88.88
09-Jan-19 15:00:00	09-Jan-19 16:00:00		258.84	541.76	0.00	6.51	2.1	329.7		85.34	178.62	0.00	2.15		10.35	18.92	83.84	86.68	09-Jan-19 15:00:00		95.69	197.54	83.84	88.83
09-Jan-19 16:00:00	09-Jan-19 17:00:00		233.18	788.23	0.00	6.42	2.1	329.7		76.88	259.88	0.00	2.12		10.35	18.92	83.84	86.68	09-Jan-19 16:00:00		87.23	278.80	83.84	88.80
09-Jan-19 17:00:00	09-Jan-19 18:00:00		231.74	999.40	0.00	6.47	2.1	329.7		76.41	329.50	0.00	2.13		10.35	18.92	83.84	86.68	09-Jan-19 17:00:00		86.76	348.42	83.84	88.81
09-Jan-19 18:00:00	09-Jan-19 19:00:00		229.72	706.14	0.00	6.53	2.1	329.7		75.74	232.82	0.00	2.15		10.35	18.92	83.84	86.68	09-Jan-19 18:00:00		86.09	251.74	83.84	88.83
09-Jan-19 19:00:00	09-Jan-19 20:00:00		231.29	458.40	0.00	6.59	2.1	329.7		76.26	151.13	0.00	2.17		10.35	18.92	83.84	86.68	09-Jan-19 19:00:00		86.61	170.05	83.84	88.85
09-Jan-19 20:00:00	09-Jan-19 21:00:00		867.26	260.55	0.00	6.63	2.1	329.7		285.93	85.90	0.00	2.19		10.35	18.92	83.84	86.68	09-Jan-19 20:00:00		296.28	104.82	83.84	88.87
09-Jan-19 21:00:00	09-Jan-19 22:00:00		1,027.55	0.00	0.00	6.70	2.1	329.7		338.78	0.00	0.00	2.21		10.35	18.92	83.84	86.68	09-Jan-19 21:00:00		349.13	18.92	83.84	88.89
09-Jan-19 22:00:00	09-Jan-19 23:00:00		1,001.05	0.00	0.00	6.77	2.1	329.7		330.05	0.00	0.00	2.23		10.35	18.92	83.84	86.68	09-Jan-19 22:00:00		340.40	18.92	83.84	88.91
09-Jan-19 23:00:00	10-Jan-19 00:00:00		1,335.96	0.00	0.00	6.84	2.1	329.7		440.47	0.00	0.00	2.25		10.35	18.92	83.84	86.68	09-Jan-19 23:00:00		450.82	18.92	83.84	88.93
10-Jan-19 00:00:00	10-Jan-19 01:00:00		152.24	0.00	0.00	6.96	2.1	329.7		50.19	0.00	0.00	2.29		10.35	18.92	83.84	86.68	10-Jan-19 00:00:00		60.54	18.92	83.84	88.97
10-Jan-19 01:00:00	10-Jan-19 02:00:00		1.99	0.00	0.00	7.04	2.1	329.7		0.66	0.00	0.00	2.32		10.35	18.92	83.84	86.68	10-Jan-19 01:00:00		11.01	18.92	83.84	89.00
10-Jan-19 02:00:00	10-Jan-19 03:00:00		3.36	0.00	0.00	7.11	2.1	329.7		1.11	0.00	0.00	2.34		10.35	18.92	83.84	86.68	10-Jan-19 02:00:00		11.46	18.92	83.84	89.02
10-Jan-19 03:00:00	10-Jan-19 04:00:00		2.20	0.00	0.00	7.18	2.1	329.7		0.73	0.00	0.00	2.37		10.35	18.92	83.84	86.68	10-Jan-19 03:00:00		11.08	18.92	83.84	89.05
10-Jan-19 04:00:00	10-Jan-19 05:00:00		2.67	0.00	0.00	7.12	2.1	329.7		0.88	0.00	0.00	2.35		10.35	18.92	83.84	86.68	10-Jan-19 04:00:00		11.23	18.92	83.84	89.03
10-Jan-19 05:00:00	10-Jan-19 06:00:00		17.32	0.00	0.00	7.32	2.1	329.7		5.71	0.00	0.00	2.41		10.35	18.92	83.84	86.68	10-Jan-19 05:00:00		16.06	18.92	83.84	89.09
10-Jan-19 06:00:00	10-Jan-19 07:00:00		2.37	0.00	0.00	7.57	2.1	329.7		0.78	0.00	0.00	2.49		10.35	18.92	83.84	86.68	10-Jan-19 06:00:00		11.13	18.92	83.84	89.17
10-Jan-19 07:00:00	10-Jan-19 08:00:00		24.33	0.00	0.00	7.81	2.1	329.7		8.02	0.00	0.00	2.58		10.35	18.92	83.84	86.68	10-Jan-19 07:00:00		18.37	18.92	83.84	89.26
10-Jan-19 08:00:00	10-Jan-19 09:00:00		23.53	0.00	0.00	7.95	2.1	329.7		7.76	0.00	0.00	2.62		10.35	18.92	83.84	86.68	10-Jan-19 08:00:00		18.11	18.92	83.84	89.30
10-Jan-19 09:00:00	10-Jan-19 10:00:00		22.86	0.00	0.00	7.71	2.1	329.7		7.54	0.00	0.00	2.54		10.35	18.92	83.84	86.68	10-Jan-19 09:00:00		17.89	18.92	83.84	89.22
10-Jan-19 10:00:00	10-Jan-19 11:00:00		23.87	0.00	0.00	7.45	2.1	329.7		7.87	0.00	0.00	2.46		10.35	18.92	83.84	86.68	10-Jan-19 10:00:00		18.22	18.92	83.84	89.14
10-Jan-19 11:00:00	10-Jan-19 12:00:00		25.95	0.00	0.00	7.19	2.1	329.7		8.55	0.00	0.00	2.37		10.35	18.92	83.84	86.68	10-Jan-19 11:00:00		18.90	18.92	83.84	89.05
10-Jan-19 12:00:00	10-Jan-19 13:00:00		23.12	0.00	0.00	6.94	2.1	329.7		7.62	0.00	0.00	2.29		10.35	18.92	83.84	86.68	10-Jan-19 12:00:00		17.97	18.92	83.84	88.97
10-Jan-19 13:00:00	10-Jan-19 14:00:00		16.24	84.74	0.00	6.72	2.1	329.7		5.35	27.94	0.00	2.22		10.35	18.92	83.84	86.68	10-Jan-19 13:00:00		15.70	46.86	83.84	88.90
10-Jan-19 14:00:00	10-Jan-19 15:00:00		7.77	0.00	0.00	6.51	2.1	329.7		2.56	0.00	0.00	2.15		10.35	18.92	83.84	86.68	10-Jan-19 14:00:00		12.91	18.92	83.84	88.83
10-Jan-19 15:00:00	10-Jan-19 16:00:00		0.43	23.60	0.00	6.29	2.1	329.7		0.14	7.78	0.00	2.07		10.35	18.92	83.84	86.68	10-Jan-19 15:00:00		10.49	26.70	83.84	88.75
10-Jan-19 16:00:00	10-Jan-19 17:00:00		8.17	717.32	0.00	6.16	2.1	329.7		2.69	236.50	0.00	2.03		10.35	18.92	83.84	86.68	10-Jan-19 16:00:00		13.04	255.42	83.84	88.71
10-Jan-19 17:00:00	10-Jan-19 18:00:00		7.71	43.36	0.00	6.21	2.1	329.7		2.54	14.30	0.00	2.05		10.35	18.92	83.84	86.68	10-Jan-19 17:00:00		12.89	33.22	83.84	88.73
10-Jan-19 18:00:00	10-Jan-19 19:00:00		31.96	0.00	0.00	6.26	2.1	329.7		10.54	0.00	0.00	2.06		10.35	18.92	83.84	86.68	10-Jan-19 18:00:00		20.89	18.92	83.84	88.74
10-Jan-19 19:00:00	10-Jan-19 20:00:00		298.15	0.00	0.00	6.40	2.1	329.7		98.30	0.00	0.00	2.11		10.35	18.92	83.84	86.68	10-Jan-19 19:00:00		108.65	18.92	83.84	88.79
10-Jan-19

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
12-Jan-19 22:00:00	12-Jan-19 23:00:00		8.73	321.59	0.00	7.26	2.1	329.7		2.88	106.03	0.00	2.39		10.35	18.92	83.84	86.68	12-Jan-19 22:00:00		13.23	124.95	83.84	89.07
12-Jan-19 23:00:00	13-Jan-19 00:00:00		8.96	321.66	0.00	7.38	2.1	329.7		2.95	106.05	0.00	2.43		10.35	18.92	83.84	86.68	12-Jan-19 23:00:00		13.30	124.97	83.84	89.11
13-Jan-19 00:00:00	13-Jan-19 01:00:00		9.43	430.44	0.00	7.41	2.1	329.7		3.11	141.92	0.00	2.44		10.35	18.92	83.84	86.68	13-Jan-19 00:00:00		13.46	160.84	83.84	89.12
13-Jan-19 01:00:00	13-Jan-19 02:00:00		9.91	448.99	0.00	7.43	2.1	329.7		3.27	148.03	0.00	2.45		10.35	18.92	83.84	86.68	13-Jan-19 01:00:00		13.62	166.95	83.84	89.13
13-Jan-19 02:00:00	13-Jan-19 03:00:00		10.39	442.72	0.00	7.45	2.1	329.7		3.43	145.97	0.00	2.46		10.35	18.92	83.84	86.68	13-Jan-19 02:00:00		13.78	164.89	83.84	89.14
13-Jan-19 03:00:00	13-Jan-19 04:00:00		12.81	443.81	0.00	7.50	2.1	329.7		4.22	146.32	0.00	2.47		10.35	18.92	83.84	86.68	13-Jan-19 03:00:00		14.57	165.24	83.84	89.15
13-Jan-19 04:00:00	13-Jan-19 05:00:00		12.81	441.06	0.00	7.57	2.1	329.7		4.22	145.42	0.00	2.50		10.35	18.92	83.84	86.68	13-Jan-19 04:00:00		14.57	164.34	83.84	89.18
13-Jan-19 05:00:00	13-Jan-19 06:00:00		11.75	441.13	0.00	7.43	2.1	329.7		3.87	145.44	0.00	2.45		10.35	18.92	83.84	86.68	13-Jan-19 05:00:00		14.22	164.36	83.84	89.13
13-Jan-19 06:00:00	13-Jan-19 07:00:00		11.39	441.28	0.00	7.29	2.1	329.7		3.76	145.49	0.00	2.41		10.35	18.92	83.84	86.68	13-Jan-19 06:00:00		14.11	164.41	83.84	89.09
13-Jan-19 07:00:00	13-Jan-19 08:00:00		12.01	441.43	0.00	7.16	2.1	329.7		3.96	145.54	0.00	2.36		10.35	18.92	83.84	86.68	13-Jan-19 07:00:00		14.31	164.46	83.84	89.04
13-Jan-19 08:00:00	13-Jan-19 09:00:00		12.62	442.41	0.00	7.09	2.1	329.7		4.16	145.86	0.00	2.34		10.35	18.92	83.84	86.68	13-Jan-19 08:00:00		14.51	164.78	83.84	89.02
13-Jan-19 09:00:00	13-Jan-19 10:00:00		13.14	443.22	0.00	7.06	2.1	329.7		4.33	146.13	0.00	2.33		10.35	18.92	83.84	86.68	13-Jan-19 09:00:00		14.68	165.05	83.84	89.01
13-Jan-19 10:00:00	13-Jan-19 11:00:00		12.85	443.95	0.00	7.03	2.1	329.7		4.24	146.37	0.00	2.32		10.35	18.92	83.84	86.68	13-Jan-19 10:00:00		14.59	165.29	83.84	89.00
13-Jan-19 11:00:00	13-Jan-19 12:00:00		12.51	444.10	0.00	7.00	2.1	329.7		4.12	146.42	0.00	2.31		10.35	18.92	83.84	86.68	13-Jan-19 11:00:00		14.47	165.34	83.84	88.99
13-Jan-19 12:00:00	13-Jan-19 13:00:00		12.16	441.48	0.00	6.90	2.1	329.7		4.01	145.56	0.00	2.28		10.35	18.92	83.84	86.68	13-Jan-19 12:00:00		14.36	164.48	83.84	88.96
13-Jan-19 13:00:00	13-Jan-19 14:00:00		11.90	443.45	0.00	6.75	2.1	329.7		3.92	146.21	0.00	2.23		10.35	18.92	83.84	86.68	13-Jan-19 13:00:00		14.27	165.13	83.84	88.91
13-Jan-19 14:00:00	13-Jan-19 15:00:00		111.35	441.94	0.00	6.61	2.1	329.7		36.71	145.71	0.00	2.18		10.35	18.92	83.84	86.68	13-Jan-19 14:00:00		47.06	164.63	83.84	88.86
13-Jan-19 15:00:00	13-Jan-19 16:00:00		460.73	444.22	0.00	6.47	2.1	329.7		151.90	146.46	0.00	2.13		10.35	18.92	83.84	86.68	13-Jan-19 15:00:00		162.25	165.38	83.84	88.81
13-Jan-19 16:00:00	13-Jan-19 17:00:00		567.48	442.18	0.00	6.54	2.1	329.7		187.10	145.79	0.00	2.16		10.35	18.92	83.84	86.68	13-Jan-19 16:00:00		197.45	164.71	83.84	88.84
13-Jan-19 17:00:00	13-Jan-19 18:00:00		311.98	441.70	0.00	6.55	2.1	329.7		102.86	145.63	0.00	2.16		10.35	18.92	83.84	86.68	13-Jan-19 17:00:00		113.21	164.55	83.84	88.84
13-Jan-19 18:00:00	13-Jan-19 19:00:00		553.42	442.38	0.00	6.56	2.1	329.7		182.46	145.85	0.00	2.16		10.35	18.92	83.84	86.68	13-Jan-19 18:00:00		192.81	164.77	83.84	88.84
13-Jan-19 19:00:00	13-Jan-19 20:00:00		462.84	414.05	0.00	6.57	2.1	329.7		152.60	136.51	0.00	2.17		10.35	18.92	83.84	86.68	13-Jan-19 19:00:00		162.95	155.43	83.84	88.85
13-Jan-19 20:00:00	13-Jan-19 21:00:00		1,318.35	0.00	0.00	6.61	2.1	329.7		434.66	0.00	0.00	2.18		10.35	18.92	83.84	86.68	13-Jan-19 20:00:00		445.01	18.92	83.84	88.86
13-Jan-19 21:00:00	13-Jan-19 22:00:00		1,416.03	0.00	0.00	6.65	2.1	329.7		466.87	0.00	0.00	2.19		10.35	18.92	83.84	86.68	13-Jan-19 21:00:00		477.22	18.92	83.84	88.87
13-Jan-19 22:00:00	13-Jan-19 23:00:00		1,401.18	0.00	0.00	6.70	2.1	329.7		461.97	0.00	0.00	2.21		10.35	18.92	83.84	86.68	13-Jan-19 22:00:00		472.32	18.92	83.84	88.89
13-Jan-19 23:00:00	14-Jan-19 00:00:00		1,110.16	0.00	0.00	6.73	2.1	329.7		366.02	0.00	0.00	2.22		10.35	18.92	83.84	86.68	13-Jan-19 23:00:00		376.37	18.92	83.84	88.90
14-Jan-19 00:00:00	14-Jan-19 01:00:00		570.57	0.00	0.00	6.61	2.1	329.7		188.12	0.00	0.00	2.18		10.35	18.92	83.84	86.68	14-Jan-19 00:00:00		198.47	18.92	83.84	88.86
14-Jan-19 01:00:00	14-Jan-19 02:00:00		394.84	0.00	0.00	6.67	2.1	329.7		130.18	0.00	0.00	2.20		10.35	18.92	83.84	86.68	14-Jan-19 01:00:00		140.53	18.92	83.84	88.88
14-Jan-19 02:00:00	14-Jan-19 03:00:00		271.04	0.00	0.00	6.74	2.1	329.7		89.36	0.00	0.00	2.22		10.35	18.92	83.84	86.68	14-Jan-19 02:00:00		99.71	18.92	83.84	88.90
14-Jan-19 03:00:00	14-Jan-19 04:00:00		730.62	0.00	0.00	6.81	2.1	329.7		240.88	0.00	0.00	2.24		10.35	18.92	83.84	86.68	14-Jan-19 03:00:00		251.23	18.92	83.84	88.92
14-Jan-19 04:00:00	14-Jan-19 05:00:00		656.42	0.00	0.00	6.93	2.1	329.7		216.42	0.00	0.00	2.28		10.35	18.92	83.84	86.68	14-Jan-19 04:00:00		226.77	18.92	83.84	88.96
14-Jan-19 05:00:00	14-Jan-19 06:00:00		241.04	0.00	0.00	6.96	2.1	329.7		79.47	0.00	0.00	2.29		10.35	18.92	83.84	86.68	14-Jan-19 05:00:00		89.82	18.92	83.84	88.97
14-Jan-19 06:00:00	14-Jan-19 07:00:00		58.71	0.00	0.00	6.99	2.1	329.7		19.36	0.00	0.00	2.30		10.35	18.92	83.84	86.68	14-Jan-19 06:00:00		29.71	18.92	83.84	88.98
14-Jan-19 07:00:00	14-Jan-19 08:00:00		59.11	0.00	0.00	7.01	2.1	329.7		19.49	0.00	0.00	2.31		10.35	18.92	83.84	86.68	14-Jan-19 07:00:00		29.84	18.92	83.84	88.99
14-Jan-19 08:00:00	14-Jan-19 09:00:00		58.34	0.00	0.00	6.88	2.1	329.7		19.24	0.00	0.00	2.27		10.35	18.92	83.84	86.68	14-Jan-19 08:00:00		29.59	18.92	83.84	88.95
14-Jan-19 09:00:00	14-Jan-19 10:00:00		57.14	0.00	0.00	6.77	2.1	329.7		18.84	0.00	0.00	2.23		10.35	18.92	83.84	86.68	14-Jan-19 09:00:00		29.19	18.92	83.84	88.91
14-Jan-19 10:00:00	14-Jan-19 11:00:00		623.86	0.00	0.00	6.67	2.1	329.7		205.69	0.00	0.00	2.20		10.35	18.92	83.84	86.68	14-Jan-19 10:00:00		216.04	18.92	83.84	88.88
14-Jan-19 11:00:00	14-Jan-19 12:00:00		1,217.69	0.00	0.00	6.55	2.1	329.7		401.47	0.00	0.00	2.16		10.35	18.92	83.84	86.68	14-Jan-19 11:00:00		411.82	18.92	83.84	88.84
14-Jan-19 12:00:00	14-Jan-19 13:00:00		647.14	0.00	0.67	6.29	2.1	329.7		213.36	0.00	0.22	2.07		10.35	18.92	83.84	86.68	14-Jan-19 12:00:00		223.71	18.92	84.06	88.75
14-Jan-19 13:00:00	14-Jan-19 14:00:00		1,138.99	0.00	0.00	6.19	2.1	329.7		375.52	0.00	0.00	2.04		10.35	18.92	83.84	86.68	14-Jan-19 13:00:00		385.87	18.92	83.84	88.72
14-Jan-19 14:00:00	14-Jan-19 15:00:00		1,265.26	0.00	0.00	6.09	2.1	329.7		417.16	0.00	0.00	2.01		10.35	18.92	83.84	86.68	14-Jan-19 14:00:00		427.51	18.92	83.84	88.69
14-Jan-19 15:00:00	14-Jan-19 16:00:00		1,159.28	0.00	0.00	6.00	2.1	329.7		382.22	0.00	0.00	1.98		10.35	18.92	83.84	86.68	14-Jan-19 15:00:00		392.57	18.92	83.84	88.66
14-Jan-19 16:00:00	14-Jan-19 17:00:00		870.71	0.00	0.00	6.02	2.1	329.7		287.07	0.00	0.00	1.98		10.35	18.92	83.84	86.68	14-Jan-19 16:00:00		297.42	18.92	83.84	88.66
14-Jan-19 17:00:00	14-Jan-19 18:00:00		244.76	0.00	0.00	6.13	2.1	329.7		80.70	0.00	0.00	2.02		10.35	18.92	83.84	86.68	14-Jan-19 17:00:00		91.05	18.92	83.84	88.70
14-Jan-19 18:00:00	14-Jan-19 19:00:00		0.00	0.00	0.00	6.25	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	14-Jan-19 18:00:00		10.35	18.92	83.84	88.74
14-Jan-19 19:00:00	14-Jan-19 20:00:00		0.00	0.00	0.00	6.36	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	14-Jan-19 19:00:00		10.35	18.92	83.84	88.78
14-Jan-19 20:00:00	14-Jan-19 21:00:00		0.00	0.00	0.00	6.32	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	14-Jan-19 20:00:00		10.35	18.92	83.84	88.77
14-Jan-19 21:00:00	14-Jan-19 22:00:00		0.00	0.00	0.00	6.37	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	14-Jan-19 21:00:00		10.35	18.92	83.84	88.78
14-Jan-19 22:00:00	14-Jan-19 23:00:00		0.00	0.00	0.00	6.41	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	14-Jan-19 22:00:00		10.35	18.92	83.84	88.79
14-Jan-19 23:00:00	15-Jan-19 00:00:00		0.00	0.00	0.00	6.46	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	14-Jan-19 23:00:00		10.35	18.92	83.84	88.81
15-Jan-19 00:00:00	15-Jan-19 01:00:00		0.00	0.00	0.00	6.75	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	15-Jan-19 00:00:00		10.35	18.92	83.84	88.91
15-Jan-19 01:00:00	15-Jan-19 02:00:00		0.00	0.00	0.00	6.74	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	15-Jan-19 01:00:00		10.35	18.92	83.84	88.90
15-Jan-19 02:00:00	15-Jan-19 03:00:00		0.00	0.00	0.00	6.73	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	15-Jan-19 02:00:00		10.35	18.92	83.84	88.90
15-Jan-19 03:00:00	15-Jan-19 04:00:00		0.00	0.00	0.00	6.71	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	15-Jan-19 03:00:00		10.35	18.92	83.84	88.89
15-Jan-19 04:00:00	15-Jan-19 05:00:00		0.00	0.00	0.00	6.74	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	15-Jan-19 04:00:00		10.35	18.92	83.84	88.90
15-Jan-19 05:00:00	15-Jan-19 06:00:00		0.00	0.00	0.00	6.70	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	15-Jan-19 05:00:00		10.35	18.92	83.84	88.89
15-Jan-19 06:00:00	15-Jan-19 07:00:00		0.00	0.00	0.00	6.66	2.1	329.7		0.00	0.00	0.00	2.19		10.35	18.92	83.84	86.68	15-Jan-19 06:00:00		10.35	18.92	83.84	88.87
15-Jan-19 07:00:00	15-Jan-19 08:00:00		0.00	0.00	0.00	6.61	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	15-Jan-19 07:00:00		10.35	18.92	83.84	88.86
15-Jan-19 08:00:00	15-Jan-19 09:00:00		0.00	0.00	0.00	6.60	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	15-Jan-19 08:00:00		10.35	18.92	83.84	88.85
15-Jan-19 09:00:00	15-Jan-19 10:00:00		0.00	0.00	0.00	6.34	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	15-Jan-19 09:00:00		10.35	18.92	83.84	88.77
15-Jan-19 10:00:00	15-Jan-19 11:00:00		0.00	0.00	0.00	6.21	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	15-Jan-19 10:00:00		10.35	18.92	83.84	88.73
15-Jan-19 11:00:00	15-Jan-19 12:00:00		0.00	0.00	0.00	6.07	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	15-Jan-19 11:00:00		10.35	18.92	83.84	88.68
15-Jan-19 12:00:00	15-Jan-19 13:00:00		0.00	0.00	0.00	6.07	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	15-Jan-19 12:00:00		10.35	18.92	83.84	88.68
15-Jan-19 13:00:00	15-Jan-19 14:00:00		0.00	0.00	0.00	6.14	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	15-Jan-19 13:00:00		10.35	18.92	83.84	88.70
15-Jan-19 14:00:00	15-Jan-19 15:00:00		0.00	0.00	0.00	6.15	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	15-Jan-19 14:00:00		10.35	18.92	83.84	88.71
15-Jan-19 15:00:00	15-Jan-19 16:00:00		0.00	0.00	0.00	6.16	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	15-Jan-19 15:00:00		10.35	18.92	83.84	88.71
15-Jan-19 16:00:00	15-Jan-19 17:00:00		0.00	0.00	0.00	5.99	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	15-Jan-19 16:00:00		10.35	18.92	83.84	88.65
15-Jan-19 17:00:00	15-Jan-19 18:00:00		0.00	0.00	0.00	6.02	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	15-Jan-19 17:00:00		10.35	18.92	83.84	88.66
15-Jan-19 18:00:00	15-Jan-19 19:00:00		0.00	0.00	0.00	6.22	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	15-Jan-19 18:00:00		10.35	18.92	83.84	88.73
15-Jan-19 19:00:00	15-Jan-19 20:00:00		0.00	0.00	0.00	6.41	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	15-Jan-19 19:00:00		10.35	18.92	83.84	88.79
15-Jan-19 20:00:00	15-Jan-19 21:00:00		0.00	0.00	0.00	6.63	2.1	329.7		0.00	0.00	0.00	2.19		10.35	18.92	83.84	86.68	15-Jan-19 20:00:00		10.35	18.92	83.84	88.87
15-Jan-19 21:00:00	15-Jan-19 22:00:00		0.00	0.00	0.00	6.78	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	15-Jan-19 21:00:00		10.35	18.92	83.84	88.92
15-Jan-19 22:00:00	15-Jan-19 23:00:00		0.00	0.00	0.00	6.90	2.1	329.7		0.00	0.00	0.00	2.28		10.35	18.92	83.84	86.68	15-Jan-19 22:00:00		10.35	18.92	83.84	88.96
15-Jan-19 23:00:00	16-Jan-19 00:00:00		0.00	0.00	0.00	7.03	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	15-Jan-19 23:00:00		10.35	18.92	83.84	89.00
16-Jan-19 00:00:00	16-Jan-19 01:00:00		0.00	0.00	0.00	7.12	2.1	329.7		0.00	0.00	0.00	2.35		10.35	18.92	83.84	86.68	16-Jan-19 00:00:00		10.35	18.92	83.84	89.03
16-Jan-19 01:00:00	16-Jan-19 02:00:00		0.00	0.00	0.00	7.17	2.1	329.7		0.00	0.00	0.00	2.36		10.35	18.92	83.84	86.68	16-Jan-19 01:00:00		10.35	18.92	83.84	89.04
16-Jan-19 02:00:00	16-Jan-19 03:00:00		0.71	0.00	0.00	7.24	2.1	329.7		0.23	0.00	0.00	2.39		10.35	18.92	83.84	86.68	16-Jan-19 02:00:00		10.58	18.92	83.84	89.07
16-Jan-19 03:00:00	16-Jan-19 04:00:00		3.58	0.00	0.00	7.31	2.1	329.7		1.18	0.00	0.00	2.41		10.35	18.92	83.84	86.68	16-Jan-19 03:00:00		11.53	18.92	83.84	89.09
16-Jan-19 04:00:00	16-Jan-19 05:00:00		4.72	0.00	0.00	7.34	2.1	329.7		1.56	0.00	0.00	2.42		10.35	18.92	83.84	86.68	16-Jan-19 04:00:00		11.91	18.92	83.84	89.10
16-Jan-19 05:00:00	16-Jan-19 06:00:00		11.75	0.00	0.00	7.39	2.1	329.7		3.88	0.00	0.00	2.44		10.35	18.92	83.84	86.68	16-Jan-19 05:00:00		14.23	18.92	83.84	89.12
16-Jan-19 06:00:00	16-Jan-19 07:00:00		7.79	0.00	0.00	7.46	2.1	329.7		2.57	0.00	0.00	2.46		10.35	18.92	83.84	86.68	16-Jan-19 06:00:00		12.92	18.92	83.84	89.14
16-Jan-19 07:00:00	16-Jan-19 08:00:00		8.45	0.00	0.00	7.52	2.1	329.7		2.79	0.00	0.00	2.48		10.35	18.92	83.84	86.68	16-Jan-19 07:00:00		13.14	18.92	83.84	89.16
16-Jan-19 08:00:00	16-Jan-19 09:00:00		42.08	0.00	0.00	7.56	2.1	329.7		13.87	0.00	0.00	2.49		10.35	18.92	83.84	86.68	16-Jan-19 08:00:00		24.22	18.92	83.84	89.17
16-Jan-19 09:00:00	16-Jan-19 10:00:00		49.49	0.00	0.00	7.31	2.1	329.7		16.32	0.00	0.00	2.41		10.35	18.92	83.84	86.68	16-Jan-19 09:00:00		26.67	18.92	83.84	89.09
16-Jan-19 10:00:00	16-Jan-19 11:00:00		49.34	0.00	0.00	7.00	2.1	329.7		16.27	0.00	0.00	2.31		10.35	18.92	83.84	86.68	16-Jan-19 10:00:00		26.62	18.92	83.84	88.99
16-Jan-19 11:00:00	16-Jan-19 12:00:00		19.00	0.00	0.00	6.69	2.1	329.7		6.26	0.00	0.00	2.20		10.35	18.92	83.84	86.68	16-Jan-19 11:00:00		16.61	18.92	83.84	88.88
16-Jan-19 12:00:00	16-Jan-19 13:00:00		1.76	0.00	0.00	6.34	2.1	329.7		0.58	0.00	0.00	2.09		10.35	18.92	83.84	86.68	16-Jan-19 12:00:00		10.93	18.92	83.84	88.77
16-Jan-19 13:00:00	16-Jan-19 14:00:00		6.55	0.00	0.00	6.04	2.1	329.7		2.16	0.00	0.00	1.99		10.35	18.92	83.84	86.68	16-Jan-19 13:00:00		12.51	18.92	83.84	88.67
16-Jan-19 14:00:00	16-Jan-19 15:00:00		1.56	0.00	0.00	5.79	2.1	329.7		0.52	0.00	0.00	1.91		10.35	18.92	83.84	86.68	16-Jan-19 14:00:00		10.87	18.92	83.84	88.59
16-Jan-19 15:00:00	16-Jan-19 16:00:00		0.79	0.00	0.00	5.54	2.1	329.7		0.26	0.00	0.00	1.83		10.35	18.92	83.84	86.68	16-Jan-19 15:00:00		10.61	18.92	83.84	88.51
16-Jan-19 16:00:00	16-Jan-19 17:00:00		0.49	0.00	0.00	5.35	2.1	329.7		0.16	0.00	0.00	1.76		10.35	18.92	83.84	86.68	16-Jan-19 16:00:00		10.51	18.92	83.84	88.44
16-Jan-19 17:00:00	16-Jan-19 18:00:00		0.00	0.00	0.00	5.59	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	16-Jan-19 17:00:00		10.35	18.92	83.84	88.52
16-Jan-19 18:00:00	16-Jan-19 19:00:00		0.00	0.00	0.00	5.89	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	16-Jan-19 18:00:00		10.35	18.92	83.84	88.62
16-Jan-19 19:00:00	16-Jan-19 20:00:00		0.14	0

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
18-Jan-19 21:00:00	18-Jan-19 22:00:00		0.00	0.00	0.00	6.70	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	18-Jan-19 21:00:00		10.35	18.92	83.84	88.89
18-Jan-19 22:00:00	18-Jan-19 23:00:00		0.00	0.00	0.00	9.84	2.1	329.7		0.00	0.00	0.00	3.24		10.35	18.92	83.84	86.68	18-Jan-19 22:00:00		10.35	18.92	83.84	89.92
18-Jan-19 23:00:00	19-Jan-19 00:00:00		0.00	0.00	0.00	15.77	2.1	329.7		0.00	0.00	0.00	5.20		10.35	18.92	83.84	86.68	18-Jan-19 23:00:00		10.35	18.92	83.84	91.88
19-Jan-19 00:00:00	19-Jan-19 01:00:00		1,106.85	0.00	0.00	6.71	2.1	329.7		364.93	0.00	0.00	2.21		10.35	18.92	83.84	86.68	19-Jan-19 00:00:00		375.28	18.92	83.84	88.89
19-Jan-19 01:00:00	19-Jan-19 02:00:00		1,321.77	0.00	0.00	6.76	2.1	329.7		435.79	0.00	0.00	2.23		10.35	18.92	83.84	86.68	19-Jan-19 01:00:00		446.14	18.92	83.84	88.91
19-Jan-19 02:00:00	19-Jan-19 03:00:00		1,103.60	0.00	0.00	6.94	2.1	329.7		363.86	0.00	0.00	2.29		10.35	18.92	83.84	86.68	19-Jan-19 02:00:00		374.21	18.92	83.84	88.97
19-Jan-19 03:00:00	19-Jan-19 04:00:00		158.68	0.00	0.00	8.00	2.1	329.7		52.32	0.00	0.00	2.64		10.35	18.92	83.84	86.68	19-Jan-19 03:00:00		62.67	18.92	83.84	89.32
19-Jan-19 04:00:00	19-Jan-19 05:00:00		0.00	0.00	0.00	8.39	2.1	329.7		0.00	0.00	0.00	2.77		10.35	18.92	83.84	86.68	19-Jan-19 04:00:00		10.35	18.92	83.84	89.45
19-Jan-19 05:00:00	19-Jan-19 06:00:00		0.00	0.00	0.00	6.65	2.1	329.7		0.00	0.00	0.00	2.19		10.35	18.92	83.84	86.68	19-Jan-19 05:00:00		10.35	18.92	83.84	88.87
19-Jan-19 06:00:00	19-Jan-19 07:00:00		0.00	0.00	0.00	6.62	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	19-Jan-19 06:00:00		10.35	18.92	83.84	88.86
19-Jan-19 07:00:00	19-Jan-19 08:00:00		0.00	0.00	0.00	6.60	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	19-Jan-19 07:00:00		10.35	18.92	83.84	88.86
19-Jan-19 08:00:00	19-Jan-19 09:00:00		153.33	0.00	0.00	6.57	2.1	329.7		50.55	0.00	0.00	2.17		10.35	18.92	83.84	86.68	19-Jan-19 08:00:00		60.90	18.92	83.84	88.85
19-Jan-19 09:00:00	19-Jan-19 10:00:00		353.19	0.00	0.00	19.43	2.1	329.7		116.45	0.00	0.00	6.41		10.35	18.92	83.84	86.68	19-Jan-19 09:00:00		126.80	18.92	83.84	93.09
19-Jan-19 10:00:00	19-Jan-19 11:00:00		902.30	0.00	0.00	6.38	2.1	329.7		297.49	0.00	0.00	2.10		10.35	18.92	83.84	86.68	19-Jan-19 10:00:00		307.84	18.92	83.84	88.78
19-Jan-19 11:00:00	19-Jan-19 12:00:00		1,451.62	0.00	0.00	6.23	2.1	329.7		478.60	0.00	0.00	2.05		10.35	18.92	83.84	86.68	19-Jan-19 11:00:00		488.95	18.92	83.84	88.73
19-Jan-19 12:00:00	19-Jan-19 13:00:00		1,540.49	0.00	0.00	6.08	2.1	329.7		507.90	0.00	0.00	2.00		10.35	18.92	83.84	86.68	19-Jan-19 12:00:00		518.25	18.92	83.84	88.68
19-Jan-19 13:00:00	19-Jan-19 14:00:00		1,047.28	0.00	0.00	5.93	2.1	329.7		345.29	0.00	0.00	1.96		10.35	18.92	83.84	86.68	19-Jan-19 13:00:00		355.64	18.92	83.84	88.64
19-Jan-19 14:00:00	19-Jan-19 15:00:00		633.86	0.00	0.00	5.81	2.1	329.7		208.98	0.00	0.00	1.92		10.35	18.92	83.84	86.68	19-Jan-19 14:00:00		219.33	18.92	83.84	88.60
19-Jan-19 15:00:00	19-Jan-19 16:00:00		653.89	0.00	0.00	5.70	2.1	329.7		215.59	0.00	0.00	1.88		10.35	18.92	83.84	86.68	19-Jan-19 15:00:00		225.94	18.92	83.84	88.56
19-Jan-19 16:00:00	19-Jan-19 17:00:00		418.67	0.00	0.00	5.59	2.1	329.7		138.03	0.00	0.00	1.84		10.35	18.92	83.84	86.68	19-Jan-19 16:00:00		148.38	18.92	83.84	88.52
19-Jan-19 17:00:00	19-Jan-19 18:00:00		198.18	0.00	0.00	5.48	2.1	329.7		65.34	0.00	0.00	1.81		10.35	18.92	83.84	86.68	19-Jan-19 17:00:00		75.69	18.92	83.84	88.49
19-Jan-19 18:00:00	19-Jan-19 19:00:00		1.82	0.00	0.00	5.42	2.1	329.7		0.60	0.00	0.00	1.79		10.35	18.92	83.84	86.68	19-Jan-19 18:00:00		10.95	18.92	83.84	88.47
19-Jan-19 19:00:00	19-Jan-19 20:00:00		0.00	0.00	0.00	5.40	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	19-Jan-19 19:00:00		10.35	18.92	83.84	88.46
19-Jan-19 20:00:00	19-Jan-19 21:00:00		0.00	0.00	0.00	5.38	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	19-Jan-19 20:00:00		10.35	18.92	83.84	88.45
19-Jan-19 21:00:00	19-Jan-19 22:00:00		0.00	0.00	0.00	7.26	2.1	329.7		0.00	0.00	0.00	2.39		10.35	18.92	83.84	86.68	19-Jan-19 21:00:00		10.35	18.92	83.84	89.07
19-Jan-19 22:00:00	19-Jan-19 23:00:00		0.00	0.00	0.00	5.55	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	19-Jan-19 22:00:00		10.35	18.92	83.84	88.51
19-Jan-19 23:00:00	20-Jan-19 00:00:00		0.00	0.00	0.00	5.68	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	19-Jan-19 23:00:00		10.35	18.92	83.84	88.55
20-Jan-19 00:00:00	20-Jan-19 01:00:00		0.00	0.00	0.00	9.91	2.1	329.7		0.00	0.00	0.00	3.27		10.35	18.92	83.84	86.68	20-Jan-19 00:00:00		10.35	18.92	83.84	89.95
20-Jan-19 01:00:00	20-Jan-19 02:00:00		0.00	0.00	0.00	8.86	2.1	329.7		0.00	0.00	0.00	2.92		10.35	18.92	83.84	86.68	20-Jan-19 01:00:00		10.35	18.92	83.84	89.60
20-Jan-19 02:00:00	20-Jan-19 03:00:00		0.00	0.00	0.00	6.09	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	20-Jan-19 02:00:00		10.35	18.92	83.84	88.69
20-Jan-19 03:00:00	20-Jan-19 04:00:00		0.00	0.00	0.00	5.79	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	20-Jan-19 03:00:00		10.35	18.92	83.84	88.59
20-Jan-19 04:00:00	20-Jan-19 05:00:00		0.00	0.00	0.00	5.84	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	20-Jan-19 04:00:00		10.35	18.92	83.84	88.61
20-Jan-19 05:00:00	20-Jan-19 06:00:00		0.00	0.00	0.00	7.19	2.1	329.7		0.00	0.00	0.00	2.37		10.35	18.92	83.84	86.68	20-Jan-19 05:00:00		10.35	18.92	83.84	89.05
20-Jan-19 06:00:00	20-Jan-19 07:00:00		0.01	0.00	0.00	6.33	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	20-Jan-19 06:00:00		10.35	18.92	83.84	88.77
20-Jan-19 07:00:00	20-Jan-19 08:00:00		0.12	0.00	0.00	6.70	2.1	329.7		0.04	0.00	0.00	2.21		10.35	18.92	83.84	86.68	20-Jan-19 07:00:00		10.39	18.92	83.84	88.89
20-Jan-19 08:00:00	20-Jan-19 09:00:00		0.27	0.00	0.00	7.07	2.1	329.7		0.09	0.00	0.00	2.33		10.35	18.92	83.84	86.68	20-Jan-19 08:00:00		10.44	18.92	83.84	89.01
20-Jan-19 09:00:00	20-Jan-19 10:00:00		15.78	52.15	0.00	7.32	2.1	329.7		5.20	17.20	0.00	2.41		10.35	18.92	83.84	86.68	20-Jan-19 09:00:00		15.55	36.12	83.84	89.09
20-Jan-19 10:00:00	20-Jan-19 11:00:00		556.68	570.04	0.00	7.02	2.1	329.7		183.54	187.94	0.00	2.31		10.35	18.92	83.84	86.68	20-Jan-19 10:00:00		193.89	206.86	83.84	88.99
20-Jan-19 11:00:00	20-Jan-19 12:00:00		730.87	1,025.37	0.00	6.65	2.1	329.7		240.97	338.06	0.00	2.19		10.35	18.92	83.84	86.68	20-Jan-19 11:00:00		251.32	356.98	83.84	88.87
20-Jan-19 12:00:00	20-Jan-19 13:00:00		743.60	1,302.79	0.00	6.28	2.1	329.7		245.17	429.53	0.00	2.07		10.35	18.92	83.84	86.68	20-Jan-19 12:00:00		255.52	448.45	83.84	88.75
20-Jan-19 13:00:00	20-Jan-19 14:00:00		772.01	1,331.51	0.00	5.98	2.1	329.7		254.53	439.00	0.00	1.97		10.35	18.92	83.84	86.68	20-Jan-19 13:00:00		264.88	457.92	83.84	88.65
20-Jan-19 14:00:00	20-Jan-19 15:00:00		748.73	1,283.19	0.00	6.03	2.1	329.7		246.85	423.07	0.00	1.99		10.35	18.92	83.84	86.68	20-Jan-19 14:00:00		257.20	441.99	83.84	88.67
20-Jan-19 15:00:00	20-Jan-19 16:00:00		812.85	1,383.99	0.00	74.39	2.1	329.7		268.00	456.30	0.00	24.53		10.35	18.92	83.84	86.68	20-Jan-19 15:00:00		278.35	475.22	83.84	111.21
20-Jan-19 16:00:00	20-Jan-19 17:00:00		790.22	1,336.46	0.00	9.68	2.1	329.7		260.54	440.63	0.00	3.19		10.35	18.92	83.84	86.68	20-Jan-19 16:00:00		270.89	459.55	83.84	89.87
20-Jan-19 17:00:00	20-Jan-19 18:00:00		694.59	1,134.64	0.00	6.93	2.1	329.7		229.01	374.09	0.00	2.28		10.35	18.92	83.84	86.68	20-Jan-19 17:00:00		239.36	393.01	83.84	88.96
20-Jan-19 18:00:00	20-Jan-19 19:00:00		832.25	1,339.77	0.00	6.51	2.1	329.7		274.39	441.72	0.00	2.15		10.35	18.92	83.84	86.68	20-Jan-19 18:00:00		284.74	460.64	83.84	88.83
20-Jan-19 19:00:00	20-Jan-19 20:00:00		704.75	1,296.02	0.00	6.63	2.1	329.7		232.36	427.30	0.00	2.19		10.35	18.92	83.84	86.68	20-Jan-19 19:00:00		242.71	446.22	83.84	88.87
20-Jan-19 20:00:00	20-Jan-19 21:00:00		524.24	1,363.23	0.00	6.75	2.1	329.7		172.84	449.46	0.00	2.23		10.35	18.92	83.84	86.68	20-Jan-19 20:00:00		183.19	468.38	83.84	88.91
20-Jan-19 21:00:00	20-Jan-19 22:00:00		721.94	1,356.76	0.00	6.90	2.1	329.7		238.02	447.32	0.00	2.28		10.35	18.92	83.84	86.68	20-Jan-19 21:00:00		248.37	466.24	83.84	88.96
20-Jan-19 22:00:00	20-Jan-19 23:00:00		723.33	1,349.64	0.00	7.03	2.1	329.7		238.48	444.98	0.00	2.32		10.35	18.92	83.84	86.68	20-Jan-19 22:00:00		248.83	463.90	83.84	89.00
20-Jan-19 23:00:00	21-Jan-19 00:00:00		716.42	1,350.47	0.00	7.15	2.1	329.7		236.20	445.25	0.00	2.36		10.35	18.92	83.84	86.68	20-Jan-19 23:00:00		246.55	464.17	83.84	89.04
21-Jan-19 00:00:00	21-Jan-19 01:00:00		615.96	1,350.51	0.00	7.26	2.1	329.7		203.08	445.26	0.00	2.39		10.35	18.92	83.84	86.68	21-Jan-19 00:00:00		213.43	464.18	83.84	89.07
21-Jan-19 01:00:00	21-Jan-19 02:00:00		512.46	1,349.84	0.00	7.51	2.1	329.7		168.96	445.04	0.00	2.48		10.35	18.92	83.84	86.68	21-Jan-19 01:00:00		179.31	463.96	83.84	89.16
21-Jan-19 02:00:00	21-Jan-19 03:00:00		631.30	1,350.56	0.00	7.78	2.1	329.7		208.14	445.28	0.00	2.57		10.35	18.92	83.84	86.68	21-Jan-19 02:00:00		218.49	464.20	83.84	89.25
21-Jan-19 03:00:00	21-Jan-19 04:00:00		644.61	1,351.90	0.00	8.01	2.1	329.7		212.53	445.72	0.00	2.64		10.35	18.92	83.84	86.68	21-Jan-19 03:00:00		222.88	464.64	83.84	89.32
21-Jan-19 04:00:00	21-Jan-19 05:00:00		650.64	1,355.81	0.00	8.23	2.1	329.7		214.52	447.01	0.00	2.71		10.35	18.92	83.84	86.68	21-Jan-19 04:00:00		224.87	465.93	83.84	89.39
21-Jan-19 05:00:00	21-Jan-19 06:00:00		697.52	1,352.55	0.00	8.45	2.1	329.7		229.97	445.94	0.00	2.78		10.35	18.92	83.84	86.68	21-Jan-19 05:00:00		240.32	464.86	83.84	89.46
21-Jan-19 06:00:00	21-Jan-19 07:00:00		730.59	1,350.63	0.00	8.45	2.1	329.7		240.88	445.30	0.00	2.79		10.35	18.92	83.84	86.68	21-Jan-19 06:00:00		251.23	464.22	83.84	89.47
21-Jan-19 07:00:00	21-Jan-19 08:00:00		703.95	1,352.53	0.00	8.42	2.1	329.7		232.09	445.93	0.00	2.77		10.35	18.92	83.84	86.68	21-Jan-19 07:00:00		242.44	464.85	83.84	89.45
21-Jan-19 08:00:00	21-Jan-19 09:00:00		480.53	1,352.25	0.00	8.38	2.1	329.7		158.43	445.84	0.00	2.76		10.35	18.92	83.84	86.68	21-Jan-19 08:00:00		168.78	464.76	83.84	89.44
21-Jan-19 09:00:00	21-Jan-19 10:00:00		737.61	1,346.68	0.00	8.23	2.1	329.7		243.19	444.00	0.00	2.71		10.35	18.92	83.84	86.68	21-Jan-19 09:00:00		253.54	462.92	83.84	89.39
21-Jan-19 10:00:00	21-Jan-19 11:00:00		695.65	1,331.59	0.00	7.92	2.1	329.7		229.36	439.03	0.00	2.61		10.35	18.92	83.84	86.68	21-Jan-19 10:00:00		239.71	457.95	83.84	89.29
21-Jan-19 11:00:00	21-Jan-19 12:00:00		749.41	1,331.27	0.00	7.62	2.1	329.7		247.08	438.92	0.00	2.51		10.35	18.92	83.84	86.68	21-Jan-19 11:00:00		257.43	457.84	83.84	89.19
21-Jan-19 12:00:00	21-Jan-19 13:00:00		672.33	1,329.86	0.00	7.32	2.1	329.7		221.67	438.45	0.00	2.41		10.35	18.92	83.84	86.68	21-Jan-19 12:00:00		232.02	457.37	83.84	89.09
21-Jan-19 13:00:00	21-Jan-19 14:00:00		715.01	1,006.29	0.00	7.05	2.1	329.7		235.74	331.77	0.00	2.32		10.35	18.92	83.84	86.68	21-Jan-19 13:00:00		246.09	350.69	83.84	89.00
21-Jan-19 14:00:00	21-Jan-19 15:00:00		799.27	821.14	0.00	6.95	2.1	329.7		263.52	270.73	0.00	2.29		10.35	18.92	83.84	86.68	21-Jan-19 14:00:00		273.87	289.65	83.84	88.97
21-Jan-19 15:00:00	21-Jan-19 16:00:00		1,033.78	1,178.49	0.00	6.88	2.1	329.7		340.84	388.55	0.00	2.27		10.35	18.92	83.84	86.68	21-Jan-19 15:00:00		351.19	407.47	83.84	88.95
21-Jan-19 16:00:00	21-Jan-19 17:00:00		1,105.92	1,228.81	0.00	6.81	2.1	329.7		364.62	405.14	0.00	2.25		10.35	18.92	83.84	86.68	21-Jan-19 16:00:00		374.97	424.06	83.84	88.93
21-Jan-19 17:00:00	21-Jan-19 18:00:00		1,191.58	1,351.52	0.00	6.73	2.1	329.7		392.87	445.59	0.00	2.22		10.35	18.92	83.84	86.68	21-Jan-19 17:00:00		403.22	464.51	83.84	88.90
21-Jan-19 18:00:00	21-Jan-19 19:00:00		1,130.17	1,308.50	0.00	6.91	2.1	329.7		372.62	431.41	0.00	2.28		10.35	18.92	83.84	86.68	21-Jan-19 18:00:00		382.97	450.33	83.84	88.96
21-Jan-19 19:00:00	21-Jan-19 20:00:00		994.99	1,115.04	0.00	7.15	2.1	329.7		328.05	367.63	0.00	2.36		10.35	18.92	83.84	86.68	21-Jan-19 19:00:00		338.40	386.55	83.84	89.04
21-Jan-19 20:00:00	21-Jan-19 21:00:00		923.65	1,059.71	0.00	7.39	2.1	329.7		304.53	349.39	0.00	2.43		10.35	18.92	83.84	86.68	21-Jan-19 20:00:00		314.88	368.31	83.84	89.11
21-Jan-19 21:00:00	21-Jan-19 22:00:00		882.51	1,058.09	0.00	7.61	2.1	329.7		290.96	348.85	0.00	2.51		10.35	18.92	83.84	86.68	21-Jan-19 21:00:00		301.31	367.77	83.84	89.19
21-Jan-19 22:00:00	21-Jan-19 23:00:00		939.76	1,059.52	0.00	7.67	2.1	329.7		309.84	349.32	0.00	2.53		10.35	18.92	83.84	86.68	21-Jan-19 22:00:00		320.19	368.24	83.84	89.21
21-Jan-19 23:00:00	22-Jan-19 00:00:00		919.06	1,061.00	0.00	7.71	2.1	329.7		303.01	349.81	0.00	2.54		10.35	18.92	83.84	86.68	21-Jan-19 23:00:00		313.36	368.73	83.84	89.22
22-Jan-19 00:00:00	22-Jan-19 01:00:00		891.45	1,061.01	0.00	7.74	2.1	329.7		293.91	349.81	0.00	2.55		10.35	18.92	83.84	86.68	22-Jan-19 00:00:00		304.26	368.73	83.84	89.23
22-Jan-19 01:00:00	22-Jan-19 02:00:00		896.75	1,062.79	0.00	7.81	2.1	329.7		295.66	350.40	0.00	2.57		10.35	18.92	83.84	86.68	22-Jan-19 01:00:00		306.01	369.32	83.84	89.25
22-Jan-19 02:00:00	22-Jan-19 03:00:00		904.50	1,059.64	0.00	7.89	2.1	329.7		298.21	349.36	0.00	2.60		10.35	18.92	83.84	86.68	22-Jan-19 02:00:00		308.56	368.28	83.84	89.28
22-Jan-19 03:00:00	22-Jan-19 04:00:00		908.07	1,056.24	0.00	7.95	2.1	329.7		299.39	348.24	0.00	2.62		10.35	18.92	83.84	86.68	22-Jan-19 03:00:00		309.74	367.16	83.84	89.30
22-Jan-19 04:00:00	22-Jan-19 05:00:00		926.84	1,058.34	0.00	8.01	2.1	329.7		305.58	348.94	0.00	2.64		10.35	18.92	83.84	86.68	22-Jan-19 04:00:00		315.93	367.86	83.84	89.32
22-Jan-19 05:00:00	22-Jan-19 06:00:00		938.30	1,057.34	0.00	8.17	2.1	329.7		309.36	348.61	0.00	2.69		10.35	18.92	83.84	86.68	22-Jan-19 05:00:00		319.71	367.53	83.84	89.37
22-Jan-19 06:00:00	22-Jan-19 07:00:00		913.23	1,057.01	0.00	8.24	2.1	329.7		301.09	348.50	0.00	2.72		10.35	18.92	83.84	86.68	22-Jan-19 06:00:00		311.44	367.42	83.84	89.40
22-Jan-19 07:00:00	22-Jan-19 08:00:00		975.03	1,106.53	0.00	8.23	2.1	329.7		321.47	364.82	0.00	2.71		10.35	18.92	83.84	86.68	22-Jan-19 07:00:00		331.82	383.74	83.84	89.39
22-Jan-19 08:00:00	22-Jan-19 09:00:00		679.16	918.56	20.18	8.22	2.1	329.7		223.92	302.85	6.65	2.71		10.35	18.92	83.84	86.68	22-Jan-19 08:00:00		234.27	321.77	90.49	89.39
22-Jan-19 09:00:00	22-Jan-19 10:00:00		890.14	0.00	101.23	8.11	2.1	329.7		293.48	0.00	33.38	2.67		10.35	18.92	83.84	86.68	22-Jan-19 09:00:00		303.83	18.92	117.22	89.35
22-Jan-19 10:00:00	22-Jan-19 11:00:00		1,047.18	0.00	145.96	7.82	2.1	329.7		345.26	0.00	48.12	2.58		10.35	18.92	83.84	86.68	22-Jan-19 10:00:00		355.61	18.92	131.96	89.26
22-Jan-19 11:00:00	22-Jan-19 12:00:00		1,112.72	539.17	144.90	7.55	2.1	329.7		366.86	177.76	47.77	2.49		10.35	18.92	83.84	86.68	22-Jan-19 11:00:00		377.21	196.68	131.61	89.17
22-Jan-19 12:00:00	22-Jan-19 13:00:00		1,215.99	1,369.43	145.53	7.28	2.1	329.7		400.91	451.50	47.98	2.40		10.35	18.92	83.84	86.68	22-Jan-19 12:00:00		411.26	470.42	131.82	89.08
22-Jan-19 13:00:00	22-Jan-19 14:00:00		1,087.86	1,210.17	168.91	7.12	2.1	329.7		358.67	398.99	55.69	2.35		10.35	18.92	83.84	86.68	22-Jan-19 13:00:00		369.02	417.91	139.53	89.03
22-Jan-19 14:00:00	22-Jan-19 15:00:00		1,041.51	1,185.82	332.86	7.01	2.1	329.7		343.38	390.96	109.74	2.31		10.35	18.92	83.84	86.68	22-Jan-19 14:00:00		353.73	409.88	193.58	88.99
22-Jan-19 15:00:00	22-Jan-19 16:00:00		1,052.41	1,210.15	161.62	6.83	2.1	329.7		346.98	405.58	53.29	2.25		10.35	18.92	83.84	86.68	22-Jan-19 15:00:00		357.33	424.50	137.13	88.93
22-Jan-19 16:00:00	22-Jan-19 17:00:00		1,026.51	1,155.72	120.88	6.66	2.1	329.7		338.44	381.04	39.85	2.19		10.35	18.92	83.84	86.68	22-Jan-19 16:00:00		348.79	399.96	123.69	88.87
22-Jan-19 17:00:00	22-Jan-19 18:00:00		1,127.24	1,318.08	119.37	6.53	2.1	329.7		371.65	434.57

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
24-Jan-19 20:00:00	24-Jan-19 21:00:00		505.67	274.88	0.00	6.38	2.1	329.7		166.72	90.63	0.00	2.10		10.35	18.92	83.84	86.68	24-Jan-19 20:00:00		**177.07**	**109.55**	**83.84**	**88.78**
24-Jan-19 21:00:00	24-Jan-19 22:00:00		507.40	274.63	0.00	6.54	2.1	329.7		167.29	90.55	0.00	2.16		10.35	18.92	83.84	86.68	24-Jan-19 21:00:00		**177.64**	**109.47**	**83.84**	**88.84**
24-Jan-19 22:00:00	24-Jan-19 23:00:00		518.81	275.02	0.00	6.64	2.1	329.7		171.05	90.67	0.00	2.19		10.35	18.92	83.84	86.68	24-Jan-19 22:00:00		**181.40**	**109.59**	**83.84**	**88.87**
24-Jan-19 23:00:00	25-Jan-19 00:00:00		550.62	302.99	0.00	6.73	2.1	329.7		181.54	99.89	0.00	2.22		10.35	18.92	83.84	86.68	24-Jan-19 23:00:00		**191.89**	**118.81**	**83.84**	**88.90**
25-Jan-19 00:00:00	25-Jan-19 01:00:00		673.03	432.66	0.00	6.81	2.1	329.7		221.90	142.65	0.00	2.24		10.35	18.92	83.84	86.68	25-Jan-19 00:00:00		**232.25**	**161.57**	**83.84**	**88.92**
25-Jan-19 01:00:00	25-Jan-19 02:00:00		598.13	385.00	0.00	6.91	2.1	329.7		197.20	126.94	0.00	2.28		10.35	18.92	83.84	86.68	25-Jan-19 01:00:00		**207.55**	**145.86**	**83.84**	**88.96**
25-Jan-19 02:00:00	25-Jan-19 03:00:00		594.58	372.02	0.00	6.97	2.1	329.7		196.03	122.66	0.00	2.30		10.35	18.92	83.84	86.68	25-Jan-19 02:00:00		**206.38**	**141.58**	**83.84**	**88.98**
25-Jan-19 03:00:00	25-Jan-19 04:00:00		607.33	368.02	0.00	7.01	2.1	329.7		200.24	121.34	0.00	2.31		10.35	18.92	83.84	86.68	25-Jan-19 03:00:00		**210.59**	**140.26**	**83.84**	**88.99**
25-Jan-19 04:00:00	25-Jan-19 05:00:00		543.34	337.11	0.00	7.05	2.1	329.7		179.14	111.14	0.00	2.32		10.35	18.92	83.84	86.68	25-Jan-19 04:00:00		**189.49**	**130.06**	**83.84**	**89.00**
25-Jan-19 05:00:00	25-Jan-19 06:00:00		541.46	312.00	0.00	7.07	2.1	329.7		178.52	102.87	0.00	2.33		10.35	18.92	83.84	86.68	25-Jan-19 05:00:00		**188.87**	**121.79**	**83.84**	**89.01**
25-Jan-19 06:00:00	25-Jan-19 07:00:00		570.70	348.38	0.00	7.14	2.1	329.7		188.16	114.86	0.00	2.35		10.35	18.92	83.84	86.68	25-Jan-19 06:00:00		**198.51**	**133.78**	**83.84**	**89.03**
25-Jan-19 07:00:00	25-Jan-19 08:00:00		792.03	449.46	188.74	7.22	2.1	329.7		261.13	148.19	62.23	2.38		10.35	18.92	83.84	86.68	25-Jan-19 07:00:00		**271.48**	**167.11**	**146.07**	**89.06**
25-Jan-19 08:00:00	25-Jan-19 09:00:00		796.51	433.87	109.96	7.31	2.1	329.7		262.61	143.05	36.25	2.41		10.35	18.92	83.84	86.68	25-Jan-19 08:00:00		**272.96**	**161.97**	**120.09**	**89.09**
25-Jan-19 09:00:00	25-Jan-19 10:00:00		617.10	208.38	0.00	7.37	2.1	329.7		203.46	68.70	0.00	2.43		10.35	18.92	83.84	86.68	25-Jan-19 09:00:00		**213.81**	**87.62**	**83.84**	**89.11**
25-Jan-19 10:00:00	25-Jan-19 11:00:00		459.93	0.00	0.00	7.15	2.1	329.7		151.64	0.00	0.00	2.36		10.35	18.92	83.84	86.68	25-Jan-19 10:00:00		**161.99**	**18.92**	**83.84**	**89.04**
25-Jan-19 11:00:00	25-Jan-19 12:00:00		675.06	0.00	0.00	6.86	2.1	329.7		222.57	0.00	0.00	2.26		10.35	18.92	83.84	86.68	25-Jan-19 11:00:00		**232.92**	**18.92**	**83.84**	**88.94**
25-Jan-19 12:00:00	25-Jan-19 13:00:00		564.51	0.00	0.00	6.57	2.1	329.7		186.12	0.00	0.00	2.17		10.35	18.92	83.84	86.68	25-Jan-19 12:00:00		**196.47**	**18.92**	**83.84**	**88.85**
25-Jan-19 13:00:00	25-Jan-19 14:00:00		573.41	0.00	0.00	6.75	2.1	329.7		189.05	0.00	0.00	2.23		10.35	18.92	83.84	86.68	25-Jan-19 13:00:00		**199.40**	**18.92**	**83.84**	**88.91**
25-Jan-19 14:00:00	25-Jan-19 15:00:00		581.83	0.00	0.00	6.48	2.1	329.7		191.83	0.00	0.00	2.14		10.35	18.92	83.84	86.68	25-Jan-19 14:00:00		**202.18**	**18.92**	**83.84**	**88.82**
25-Jan-19 15:00:00	25-Jan-19 16:00:00		581.47	0.00	0.00	6.11	2.1	329.7		191.71	0.00	0.00	2.01		10.35	18.92	83.84	86.68	25-Jan-19 15:00:00		**202.06**	**18.92**	**83.84**	**88.69**
25-Jan-19 16:00:00	25-Jan-19 17:00:00		576.72	0.00	0.00	7.32	2.1	329.7		190.15	0.00	0.00	2.41		10.35	18.92	83.84	86.68	25-Jan-19 16:00:00		**200.50**	**18.92**	**83.84**	**89.09**
25-Jan-19 17:00:00	25-Jan-19 18:00:00		556.54	0.00	0.00	6.16	2.1	329.7		183.49	0.00	0.00	2.03		10.35	18.92	83.84	86.68	25-Jan-19 17:00:00		**193.84**	**18.92**	**83.84**	**88.71**
25-Jan-19 18:00:00	25-Jan-19 19:00:00		567.72	0.00	0.00	6.28	2.1	329.7		187.18	0.00	0.00	2.07		10.35	18.92	83.84	86.68	25-Jan-19 18:00:00		**197.53**	**18.92**	**83.84**	**88.75**
25-Jan-19 19:00:00	25-Jan-19 20:00:00		564.70	0.00	0.00	6.41	2.1	329.7		186.18	0.00	0.00	2.11		10.35	18.92	83.84	86.68	25-Jan-19 19:00:00		**196.53**	**18.92**	**83.84**	**88.79**
25-Jan-19 20:00:00	25-Jan-19 21:00:00		561.51	0.00	0.00	6.79	2.1	329.7		185.13	0.00	0.00	2.24		10.35	18.92	83.84	86.68	25-Jan-19 20:00:00		**195.48**	**18.92**	**83.84**	**88.92**
25-Jan-19 21:00:00	25-Jan-19 22:00:00		583.80	0.00	0.00	7.02	2.1	329.7		192.48	0.00	0.00	2.31		10.35	18.92	83.84	86.68	25-Jan-19 21:00:00		**202.83**	**18.92**	**83.84**	**88.99**
25-Jan-19 22:00:00	25-Jan-19 23:00:00		613.32	0.00	0.00	7.24	2.1	329.7		202.21	0.00	0.00	2.39		10.35	18.92	83.84	86.68	25-Jan-19 22:00:00		**212.56**	**18.92**	**83.84**	**89.07**
25-Jan-19 23:00:00	26-Jan-19 00:00:00		564.14	0.00	0.00	7.46	2.1	329.7		186.00	0.00	0.00	2.46		10.35	18.92	83.84	86.68	25-Jan-19 23:00:00		**196.35**	**18.92**	**83.84**	**89.14**
26-Jan-19 00:00:00	26-Jan-19 01:00:00		443.23	0.00	0.00	8.80	2.1	329.7		146.13	0.00	0.00	2.90		10.35	18.92	83.84	86.68	26-Jan-19 00:00:00		**156.48**	**18.92**	**83.84**	**89.58**
26-Jan-19 01:00:00	26-Jan-19 02:00:00		10.84	0.00	0.00	7.84	2.1	329.7		3.57	0.00	0.00	2.59		10.35	18.92	83.84	86.68	26-Jan-19 01:00:00		**13.92**	**18.92**	**83.84**	**89.27**
26-Jan-19 02:00:00	26-Jan-19 03:00:00		568.04	0.00	7.24	7.72	2.1	329.7		187.28	0.00	2.39	2.55		10.35	18.92	83.84	86.68	26-Jan-19 02:00:00		**197.63**	**18.92**	**86.23**	**89.23**
26-Jan-19 03:00:00	26-Jan-19 04:00:00		235.18	0.00	0.00	7.61	2.1	329.7		77.54	0.00	0.00	2.51		10.35	18.92	83.84	86.68	26-Jan-19 03:00:00		**87.89**	**18.92**	**83.84**	**89.19**
26-Jan-19 04:00:00	26-Jan-19 05:00:00		11.60	0.00	0.00	7.52	2.1	329.7		3.83	0.00	0.00	2.48		10.35	18.92	83.84	86.68	26-Jan-19 04:00:00		**14.18**	**18.92**	**83.84**	**89.16**
26-Jan-19 05:00:00	26-Jan-19 06:00:00		11.19	0.00	0.00	7.55	2.1	329.7		3.69	0.00	0.00	2.49		10.35	18.92	83.84	86.68	26-Jan-19 05:00:00		**14.04**	**18.92**	**83.84**	**89.17**
26-Jan-19 06:00:00	26-Jan-19 07:00:00		29.34	0.00	0.00	7.60	2.1	329.7		9.67	0.00	0.00	2.50		10.35	18.92	83.84	86.68	26-Jan-19 06:00:00		**20.02**	**18.92**	**83.84**	**89.18**
26-Jan-19 07:00:00	26-Jan-19 08:00:00		11.93	0.00	0.00	8.34	2.1	329.7		3.93	0.00	0.00	2.75		10.35	18.92	83.84	86.68	26-Jan-19 07:00:00		**14.28**	**18.92**	**83.84**	**89.43**
26-Jan-19 08:00:00	26-Jan-19 09:00:00		11.39	0.00	0.00	11.39	2.1	329.7		3.75	0.00	0.00	3.75		10.35	18.92	83.84	86.68	26-Jan-19 08:00:00		**14.10**	**18.92**	**83.84**	**90.43**
26-Jan-19 09:00:00	26-Jan-19 10:00:00		12.26	0.00	0.00	7.67	2.1	329.7		4.04	0.00	0.00	2.53		10.35	18.92	83.84	86.68	26-Jan-19 09:00:00		**14.39**	**18.92**	**83.84**	**89.21**
26-Jan-19 10:00:00	26-Jan-19 11:00:00		17.39	0.00	0.00	8.84	2.1	329.7		5.73	0.00	0.00	2.92		10.35	18.92	83.84	86.68	26-Jan-19 10:00:00		**16.08**	**18.92**	**83.84**	**89.60**
26-Jan-19 11:00:00	26-Jan-19 12:00:00		17.02	0.00	0.00	6.78	2.1	329.7		5.61	0.00	0.00	2.24		10.35	18.92	83.84	86.68	26-Jan-19 11:00:00		**15.96**	**18.92**	**83.84**	**88.92**
26-Jan-19 12:00:00	26-Jan-19 13:00:00		11.60	0.00	0.00	6.51	2.1	329.7		3.82	0.00	0.00	2.15		10.35	18.92	83.84	86.68	26-Jan-19 12:00:00		**14.17**	**18.92**	**83.84**	**88.83**
26-Jan-19 13:00:00	26-Jan-19 14:00:00		21.88	0.00	0.00	6.24	2.1	329.7		7.22	0.00	0.00	2.06		10.35	18.92	83.84	86.68	26-Jan-19 13:00:00		**17.57**	**18.92**	**83.84**	**88.74**
26-Jan-19 14:00:00	26-Jan-19 15:00:00		21.57	0.00	0.00	6.03	2.1	329.7		7.11	0.00	0.00	1.99		10.35	18.92	83.84	86.68	26-Jan-19 14:00:00		**17.46**	**18.92**	**83.84**	**88.67**
26-Jan-19 15:00:00	26-Jan-19 16:00:00		26.13	0.00	0.00	5.95	2.1	329.7		8.62	0.00	0.00	1.96		10.35	18.92	83.84	86.68	26-Jan-19 15:00:00		**18.97**	**18.92**	**83.84**	**88.64**
26-Jan-19 16:00:00	26-Jan-19 17:00:00		0.51	0.00	0.00	31.95	2.1	329.7		0.17	0.00	0.00	10.53		10.35	18.92	83.84	86.68	26-Jan-19 16:00:00		**10.52**	**18.92**	**83.84**	**97.21**
26-Jan-19 17:00:00	26-Jan-19 18:00:00		0.62	0.00	0.00	30.07	2.1	329.7		0.21	0.00	0.00	9.91		10.35	18.92	83.84	86.68	26-Jan-19 17:00:00		**10.56**	**18.92**	**83.84**	**96.59**
26-Jan-19 18:00:00	26-Jan-19 19:00:00		0.84	0.00	0.00	23.33	2.1	329.7		0.28	0.00	0.00	7.69		10.35	18.92	83.84	86.68	26-Jan-19 18:00:00		**10.63**	**18.92**	**83.84**	**94.37**
26-Jan-19 19:00:00	26-Jan-19 20:00:00		1.51	0.00	0.00	21.69	2.1	329.7		0.50	0.00	0.00	7.15		10.35	18.92	83.84	86.68	26-Jan-19 19:00:00		**10.85**	**18.92**	**83.84**	**93.83**
26-Jan-19 20:00:00	26-Jan-19 21:00:00		1.67	0.00	0.00	11.97	2.1	329.7		0.55	0.00	0.00	3.95		10.35	18.92	83.84	86.68	26-Jan-19 20:00:00		**10.90**	**18.92**	**83.84**	**90.63**
26-Jan-19 21:00:00	26-Jan-19 22:00:00		0.20	0.00	0.00	6.86	2.1	329.7		0.06	0.00	0.00	2.26		10.35	18.92	83.84	86.68	26-Jan-19 21:00:00		**10.41**	**18.92**	**83.84**	**88.94**
26-Jan-19 22:00:00	26-Jan-19 23:00:00		0.14	0.00	0.00	6.90	2.1	329.7		0.04	0.00	0.00	2.27		10.35	18.92	83.84	86.68	26-Jan-19 22:00:00		**10.39**	**18.92**	**83.84**	**88.95**
26-Jan-19 23:00:00	27-Jan-19 00:00:00		0.08	0.00	0.00	6.94	2.1	329.7		0.03	0.00	0.00	2.29		10.35	18.92	83.84	86.68	26-Jan-19 23:00:00		**10.38**	**18.92**	**83.84**	**88.97**
27-Jan-19 00:00:00	27-Jan-19 01:00:00		0.02	0.00	0.00	6.95	2.1	329.7		0.01	0.00	0.00	2.29		10.35	18.92	83.84	86.68	27-Jan-19 00:00:00		**10.36**	**18.92**	**83.84**	**88.97**
27-Jan-19 01:00:00	27-Jan-19 02:00:00		0.00	0.00	0.00	7.04	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	27-Jan-19 01:00:00		**10.35**	**18.92**	**83.84**	**89.00**
27-Jan-19 02:00:00	27-Jan-19 03:00:00		0.00	0.00	0.00	7.14	2.1	329.7		0.00	0.00	0.00	2.35		10.35	18.92	83.84	86.68	27-Jan-19 02:00:00		**10.35**	**18.92**	**83.84**	**89.03**
27-Jan-19 03:00:00	27-Jan-19 04:00:00		0.00	0.00	0.00	7.25	2.1	329.7		0.00	0.00	0.00	2.39		10.35	18.92	83.84	86.68	27-Jan-19 03:00:00		**10.35**	**18.92**	**83.84**	**89.07**
27-Jan-19 04:00:00	27-Jan-19 05:00:00		0.00	0.00	0.00	7.28	2.1	329.7		0.00	0.00	0.00	2.40		10.35	18.92	83.84	86.68	27-Jan-19 04:00:00		**10.35**	**18.92**	**83.84**	**89.08**
27-Jan-19 05:00:00	27-Jan-19 06:00:00		0.00	0.00	0.00	7.34	2.1	329.7		0.00	0.00	0.00	2.42		10.35	18.92	83.84	86.68	27-Jan-19 05:00:00		**10.35**	**18.92**	**83.84**	**89.10**
27-Jan-19 06:00:00	27-Jan-19 07:00:00		0.00	0.00	0.00	7.43	2.1	329.7		0.00	0.00	0.00	2.45		10.35	18.92	83.84	86.68	27-Jan-19 06:00:00		**10.35**	**18.92**	**83.84**	**89.13**
27-Jan-19 07:00:00	27-Jan-19 08:00:00		0.00	0.00	0.00	7.52	2.1	329.7		0.00	0.00	0.00	2.48		10.35	18.92	83.84	86.68	27-Jan-19 07:00:00		**10.35**	**18.92**	**83.84**	**89.16**
27-Jan-19 08:00:00	27-Jan-19 09:00:00		19.06	0.00	0.00	7.50	2.1	329.7		6.28	0.00	0.00	2.47		10.35	18.92	83.84	86.68	27-Jan-19 08:00:00		**16.63**	**18.92**	**83.84**	**89.15**
27-Jan-19 09:00:00	27-Jan-19 10:00:00		27.76	0.00	0.00	7.13	2.1	329.7		9.15	0.00	0.00	2.35		10.35	18.92	83.84	86.68	27-Jan-19 09:00:00		**19.50**	**18.92**	**83.84**	**89.03**
27-Jan-19 10:00:00	27-Jan-19 11:00:00		16.64	0.00	0.00	6.73	2.1	329.7		5.49	0.00	0.00	2.22		10.35	18.92	83.84	86.68	27-Jan-19 10:00:00		**15.84**	**18.92**	**83.84**	**88.90**
27-Jan-19 11:00:00	27-Jan-19 12:00:00		0.94	0.00	0.00	6.33	2.1	329.7		0.31	0.00	0.00	2.09		10.35	18.92	83.84	86.68	27-Jan-19 11:00:00		**10.66**	**18.92**	**83.84**	**88.77**
27-Jan-19 12:00:00	27-Jan-19 13:00:00		2.32	0.00	0.00	10.81	2.1	329.7		0.77	0.00	0.00	3.56		10.35	18.92	83.84	86.68	27-Jan-19 12:00:00		**11.12**	**18.92**	**83.84**	**90.24**
27-Jan-19 13:00:00	27-Jan-19 14:00:00		5.13	0.00	0.00	10.17	2.1	329.7		1.69	0.00	0.00	3.35		10.35	18.92	83.84	86.68	27-Jan-19 13:00:00		**12.04**	**18.92**	**83.84**	**90.03**
27-Jan-19 14:00:00	27-Jan-19 15:00:00		1.65	0.00	0.00	8.90	2.1	329.7		0.54	0.00	0.00	2.93		10.35	18.92	83.84	86.68	27-Jan-19 14:00:00		**10.89**	**18.92**	**83.84**	**89.61**
27-Jan-19 15:00:00	27-Jan-19 16:00:00		1.57	0.00	0.00	7.62	2.1	329.7		0.52	0.00	0.00	2.51		10.35	18.92	83.84	86.68	27-Jan-19 15:00:00		**10.87**	**18.92**	**83.84**	**89.19**
27-Jan-19 16:00:00	27-Jan-19 17:00:00		1.01	0.00	0.00	6.36	2.1	329.7		0.33	0.00	0.00	2.10		10.35	18.92	83.84	86.68	27-Jan-19 16:00:00		**10.68**	**18.92**	**83.84**	**88.78**
27-Jan-19 17:00:00	27-Jan-19 18:00:00		0.44	0.00	0.00	56.63	2.1	329.7		0.15	0.00	0.00	18.67		10.35	18.92	83.84	86.68	27-Jan-19 17:00:00		**10.50**	**18.92**	**83.84**	**105.35**
27-Jan-19 18:00:00	27-Jan-19 19:00:00		0.02	0.00	0.00	6.30	2.1	329.7		0.01	0.00	0.00	2.08		10.35	18.92	83.84	86.68	27-Jan-19 18:00:00		**10.36**	**18.92**	**83.84**	**88.76**
27-Jan-19 19:00:00	27-Jan-19 20:00:00		0.00	0.00	0.00	6.38	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	27-Jan-19 19:00:00		**10.35**	**18.92**	**83.84**	**88.79**
27-Jan-19 20:00:00	27-Jan-19 21:00:00		0.00	0.00	0.00	6.47	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	27-Jan-19 20:00:00		**10.35**	**18.92**	**83.84**	**88.81**
27-Jan-19 21:00:00	27-Jan-19 22:00:00		37.75	0.00	0.00	6.51	2.1	329.7		12.45	0.00	0.00	2.15		10.35	18.92	83.84	86.68	27-Jan-19 21:00:00		**22.80**	**18.92**	**83.84**	**88.83**
27-Jan-19 22:00:00	27-Jan-19 23:00:00		40.19	0.00	0.00	6.52	2.1	329.7		13.25	0.00	0.00	2.15		10.35	18.92	83.84	86.68	27-Jan-19 22:00:00		**23.60**	**18.92**	**83.84**	**88.83**
27-Jan-19 23:00:00	28-Jan-19 00:00:00		37.71	0.00	0.00	6.62	2.1	329.7		12.43	0.00	0.00	2.18		10.35	18.92	83.84	86.68	27-Jan-19 23:00:00		**22.78**	**18.92**	**83.84**	**88.86**
28-Jan-19 00:00:00	28-Jan-19 01:00:00		36.12	0.00	0.00	6.73	2.1	329.7		11.91	0.00	0.00	2.22		10.35	18.92	83.84	86.68	28-Jan-19 00:00:00		**22.26**	**18.92**	**83.84**	**88.90**
28-Jan-19 01:00:00	28-Jan-19 02:00:00		37.35	0.00	0.00	6.83	2.1	329.7		12.31	0.00	0.00	2.25		10.35	18.92	83.84	86.68	28-Jan-19 01:00:00		**22.66**	**18.92**	**83.84**	**88.93**
28-Jan-19 02:00:00	28-Jan-19 03:00:00		36.76	0.00	0.00	7.93	2.1	329.7		12.12	0.00	0.00	2.62		10.35	18.92	83.84	86.68	28-Jan-19 02:00:00		**22.47**	**18.92**	**83.84**	**89.30**
28-Jan-19 03:00:00	28-Jan-19 04:00:00		17.01	0.00	0.00	6.96	2.1	329.7		5.61	0.00	0.00	2.30		10.35	18.92	83.84	86.68	28-Jan-19 03:00:00		**15.96**	**18.92**	**83.84**	**88.98**
28-Jan-19 04:00:00	28-Jan-19 05:00:00		10.31	0.00	0.00	6.96	2.1	329.7		3.40	0.00	0.00	2.30		10.35	18.92	83.84	86.68	28-Jan-19 04:00:00		**13.75**	**18.92**	**83.84**	**88.98**
28-Jan-19 05:00:00	28-Jan-19 06:00:00		8.58	0.00	0.00	6.96	2.1	329.7		2.83	0.00	0.00	2.30		10.35	18.92	83.84	86.68	28-Jan-19 05:00:00		**13.18**	**18.92**	**83.84**	**88.98**
28-Jan-19 06:00:00	28-Jan-19 07:00:00		5.96	0.00	0.00	7.87	2.1	329.7		1.97	0.00	0.00	2.60		10.35	18.92	83.84	86.68	28-Jan-19 06:00:00		**12.32**	**18.92**	**83.84**	**89.28**
28-Jan-19 07:00:00	28-Jan-19 08:00:00		8.92	0.00	0.00	7.82	2.1	329.7		2.94	0.00	0.00	2.58		10.35	18.92	83.84	86.68	28-Jan-19 07:00:00		**13.29**	**18.92**	**83.84**	**89.26**
28-Jan-19 08:00:00	28-Jan-19 09:00:00		8.50	0.00	0.00	6.68	2.1	329.7		2.80	0.00	0.00	2.20		10.35	18.92	83.84	86.68	28-Jan-19 08:00:00		**13.15**	**18.92**	**83.84**	**88.88**
28-Jan-19 09:00:00	28-Jan-19 10:00:00		1.64	0.00	0.00	6.61	2.1	329.7		0.54	0.00	0.00	2.18		10.35	18.92	83.84	86.68	28-Jan-19 09:00:00		**10.89**	**18.92**	**83.84**	**88.86**
28-Jan-19 10:00:00	28-Jan-19 11:00:00		2.47	0.00	0.00	6.54	2.1	329.7		0.82	0.00	0.00	2.16		10.35	18.92	83.84	86.68	28-Jan-19 10:00:00		**11.17**	**18.92**	**83.84**	**88.84**
28-Jan-19 11:00:00	28-Jan-19 12:00:00		3.82	0.00	0.00	6.34	2.1	329.7		1.26	0.00	0.00	2.09		10.35	18.92	83.84	86.68	28-Jan-19 11:00:00		**11.61**	**18.92**	**83.84**	**88.77**
28-Jan-19 12:00:00	28-Jan-19 13:00:00		13.47	0.00	0.00	6.12	2.1	329.7		4.44	0.00	0.00	2.02		10.35	18.92	83.84	86.68	28-Jan-19 12:00:00		**14.79**	**18.92**	**83.84**	**88.70**
28-Jan-19 13:00:00	28-Jan-19 14:00:00		9.33	0.00	0.00	10.84	2.1	329.7		3.08	0.00	0.00	3.57		10.35	18.92	83.84	86.68	28-Jan-19 13:00:00		**13.43**	**18.92**	**83.84**	**90.25**
28-Jan-19 14:00:00	28-Jan-19 15:00:00		3.40	0.00	0.00	5.94	2.1	329.7		1.12	0.00	0.00	1.96		10.35	18.92	83.84	86.68	28-Jan-19 14:00:00		**11.47**	**18.92**	**83.84**	**88.64**
28-Jan-19 15:00:00	28-Jan-19 16:00:00		29.68	0.00	0.00	5.75	2.1	329.7		9.79	0.00	0.00	1.90		10.35	18.92	83.84	86.68	28-Jan-19 15:00:00		**20.14**	**18.92**	**83.84**	**88.58**
28-Jan-19 16:00:00	28-Jan-19 17:00:00		8.87	0.00	0.00	5.56	2.1	329.7		2.92	0.00	0.00	1.83		10.35	18.92	83.84	86.68	28-Jan-19 16:00:00		**13.27**	**18.92**	**83.84**	**88.51**
28-Jan-19 17:00:00	28-Jan-19 18:00:00		13.53	0.00	0.00	6.26

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
30-Jan-19 19:00:00	30-Jan-19 20:00:00		0.00	0.00	358.93	6.69	2.1	329.7		0.00	0.00	118.34	2.21		10.35	18.92	83.84	86.68	30-Jan-19 19:00:00		10.35	18.92	202.18	88.89
30-Jan-19 20:00:00	30-Jan-19 21:00:00		0.00	0.00	367.95	6.82	2.1	329.7		0.00	0.00	121.31	2.25		10.35	18.92	83.84	86.68	30-Jan-19 20:00:00		10.35	18.92	205.15	88.93
30-Jan-19 21:00:00	30-Jan-19 22:00:00		0.00	0.00	219.40	6.90	2.1	329.7		0.00	0.00	72.34	2.27		10.35	18.92	83.84	86.68	30-Jan-19 21:00:00		10.35	18.92	156.18	88.95
30-Jan-19 22:00:00	30-Jan-19 23:00:00		0.00	0.00	147.08	6.87	2.1	329.7		0.00	0.00	48.49	2.26		10.35	18.92	83.84	86.68	30-Jan-19 22:00:00		10.35	18.92	132.33	88.94
30-Jan-19 23:00:00	31-Jan-19 00:00:00		0.00	0.00	147.93	7.93	2.1	329.7		0.00	0.00	48.77	2.61		10.35	18.92	83.84	86.68	30-Jan-19 23:00:00		10.35	18.92	132.61	89.29
31-Jan-19 00:00:00	31-Jan-19 01:00:00		0.00	0.00	147.25	7.40	2.1	329.7		0.00	0.00	48.55	2.44		10.35	18.92	83.84	86.68	31-Jan-19 00:00:00		10.35	18.92	132.39	89.12
31-Jan-19 01:00:00	31-Jan-19 02:00:00		0.00	0.00	146.57	7.15	2.1	329.7		0.00	0.00	48.32	2.36		10.35	18.92	83.84	86.68	31-Jan-19 01:00:00		10.35	18.92	132.16	89.04
31-Jan-19 02:00:00	31-Jan-19 03:00:00		0.00	0.00	145.89	7.31	2.1	329.7		0.00	0.00	48.10	2.41		10.35	18.92	83.84	86.68	31-Jan-19 02:00:00		10.35	18.92	131.94	89.09
31-Jan-19 03:00:00	31-Jan-19 04:00:00		15.10	0.00	145.27	7.46	2.1	329.7		4.98	0.00	47.90	2.46		10.35	18.92	83.84	86.68	31-Jan-19 03:00:00		15.33	18.92	131.74	89.14
31-Jan-19 04:00:00	31-Jan-19 05:00:00		29.10	0.00	148.00	7.56	2.1	329.7		9.59	0.00	48.80	2.49		10.35	18.92	83.84	86.68	31-Jan-19 04:00:00		19.94	18.92	132.64	89.17
31-Jan-19 05:00:00	31-Jan-19 06:00:00		21.92	0.00	148.98	18.90	2.1	329.7		7.23	0.00	49.12	6.23		10.35	18.92	83.84	86.68	31-Jan-19 05:00:00		17.58	18.92	132.96	92.91
31-Jan-19 06:00:00	31-Jan-19 07:00:00		38.82	0.00	148.56	11.92	2.1	329.7		12.80	0.00	48.98	3.93		10.35	18.92	83.84	86.68	31-Jan-19 06:00:00		23.15	18.92	132.82	90.61
31-Jan-19 07:00:00	31-Jan-19 08:00:00		54.16	0.00	148.13	9.03	2.1	329.7		17.86	0.00	48.84	2.98		10.35	18.92	83.84	86.68	31-Jan-19 07:00:00		28.21	18.92	132.68	89.66
31-Jan-19 08:00:00	31-Jan-19 09:00:00		53.09	0.00	46.00	8.07	2.1	329.7		17.51	0.00	15.17	2.66		10.35	18.92	83.84	86.68	31-Jan-19 08:00:00		27.86	18.92	99.01	89.34
31-Jan-19 09:00:00	31-Jan-19 10:00:00		52.06	0.00	0.00	7.91	2.1	329.7		17.16	0.00	0.00	2.61		10.35	18.92	83.84	86.68	31-Jan-19 09:00:00		27.51	18.92	83.84	89.29
31-Jan-19 10:00:00	31-Jan-19 11:00:00		52.66	0.00	0.00	7.76	2.1	329.7		17.36	0.00	0.00	2.56		10.35	18.92	83.84	86.68	31-Jan-19 10:00:00		27.71	18.92	83.84	89.24
31-Jan-19 11:00:00	31-Jan-19 12:00:00		47.14	0.00	0.00	7.60	2.1	329.7		15.54	0.00	0.00	2.51		10.35	18.92	83.84	86.68	31-Jan-19 11:00:00		25.89	18.92	83.84	89.19
31-Jan-19 12:00:00	31-Jan-19 13:00:00		26.26	0.00	0.00	7.31	2.1	329.7		8.66	0.00	0.00	2.41		10.35	18.92	83.84	86.68	31-Jan-19 12:00:00		19.01	18.92	83.84	89.09
31-Jan-19 13:00:00	31-Jan-19 14:00:00		3.21	0.00	0.00	6.89	2.1	329.7		1.06	0.00	0.00	2.27		10.35	18.92	83.84	86.68	31-Jan-19 13:00:00		11.41	18.92	83.84	88.95
31-Jan-19 14:00:00	31-Jan-19 15:00:00		0.00	0.00	0.00	6.47	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	31-Jan-19 14:00:00		10.35	18.92	83.84	88.81
31-Jan-19 15:00:00	31-Jan-19 16:00:00		0.00	0.00	0.00	6.05	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	31-Jan-19 15:00:00		10.35	18.92	83.84	88.67
31-Jan-19 16:00:00	31-Jan-19 17:00:00		0.00	0.00	0.00	6.76	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	31-Jan-19 16:00:00		10.35	18.92	83.84	88.91
31-Jan-19 17:00:00	31-Jan-19 18:00:00		0.00	0.00	0.00	6.08	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	31-Jan-19 17:00:00		10.35	18.92	83.84	88.68
31-Jan-19 18:00:00	31-Jan-19 19:00:00		0.00	0.00	0.00	7.46	2.1	329.7		0.00	0.00	0.00	2.46		10.35	18.92	83.84	86.68	31-Jan-19 18:00:00		10.35	18.92	83.84	89.14
31-Jan-19 19:00:00	31-Jan-19 20:00:00		0.00	0.00	0.00	8.89	2.1	329.7		0.00	0.00	0.00	2.93		10.35	18.92	83.84	86.68	31-Jan-19 19:00:00		10.35	18.92	83.84	89.61
31-Jan-19 20:00:00	31-Jan-19 21:00:00		0.00	0.00	0.00	7.23	2.1	329.7		0.00	0.00	0.00	2.38		10.35	18.92	83.84	86.68	31-Jan-19 20:00:00		10.35	18.92	83.84	89.06
31-Jan-19 21:00:00	31-Jan-19 22:00:00		0.00	0.00	0.00	8.88	2.1	329.7		0.00	0.00	0.00	2.93		10.35	18.92	83.84	86.68	31-Jan-19 21:00:00		10.35	18.92	83.84	89.61
31-Jan-19 22:00:00	31-Jan-19 23:00:00		0.00	0.00	68.70	7.39	2.1	329.7		0.00	0.00	22.65	2.44		10.35	18.92	83.84	86.68	31-Jan-19 22:00:00		10.35	18.92	106.49	89.12
31-Jan-19 23:00:00	01-Feb-19 00:00:00		0.00	0.00	0.00	7.66	2.1	329.7		0.00	0.00	0.00	2.53		10.35	18.92	83.84	86.68	31-Jan-19 23:00:00		10.35	18.92	83.84	89.21
01-Feb-19 00:00:00	01-Feb-19 01:00:00		0.00	0.00	0.00	10.02	2.1	329.7		0.00	0.00	0.00	3.30		10.35	18.92	83.84	86.68	01-Feb-19 00:00:00		10.35	18.92	83.84	89.98
01-Feb-19 01:00:00	01-Feb-19 02:00:00		0.00	0.00	0.00	9.34	2.1	329.7		0.00	0.00	0.00	3.08		10.35	18.92	83.84	86.68	01-Feb-19 01:00:00		10.35	18.92	83.84	89.76
01-Feb-19 02:00:00	01-Feb-19 03:00:00		0.00	0.00	0.00	7.50	2.1	329.7		0.00	0.00	0.00	2.47		10.35	18.92	83.84	86.68	01-Feb-19 02:00:00		10.35	18.92	83.84	89.15
01-Feb-19 03:00:00	01-Feb-19 04:00:00		0.00	0.00	0.00	7.51	2.1	329.7		0.00	0.00	0.00	2.48		10.35	18.92	83.84	86.68	01-Feb-19 03:00:00		10.35	18.92	83.84	89.16
01-Feb-19 04:00:00	01-Feb-19 05:00:00		0.00	0.00	65.60	7.52	2.1	329.7		0.00	0.00	21.63	2.48		10.35	18.92	83.84	86.68	01-Feb-19 04:00:00		10.35	18.92	105.47	89.16
01-Feb-19 05:00:00	01-Feb-19 06:00:00		0.00	0.00	135.39	36.87	2.1	329.7		0.00	0.00	44.64	12.15		10.35	18.92	83.84	86.68	01-Feb-19 05:00:00		10.35	18.92	128.48	98.83
01-Feb-19 06:00:00	01-Feb-19 07:00:00		0.00	0.00	0.03	54.11	2.1	329.7		0.00	0.00	0.01	17.84		10.35	18.92	83.84	86.68	01-Feb-19 06:00:00		10.35	18.92	83.85	104.52
01-Feb-19 07:00:00	01-Feb-19 08:00:00		0.00	0.00	0.00	24.24	2.1	329.7		0.00	0.00	0.00	7.99		10.35	18.92	83.84	86.68	01-Feb-19 07:00:00		10.35	18.92	83.84	94.67
01-Feb-19 08:00:00	01-Feb-19 09:00:00		0.00	0.00	0.00	7.93	2.1	329.7		0.00	0.00	0.00	2.61		10.35	18.92	83.84	86.68	01-Feb-19 08:00:00		10.35	18.92	83.84	89.29
01-Feb-19 09:00:00	01-Feb-19 10:00:00		0.00	0.00	0.00	14.17	2.1	329.7		0.00	0.00	0.00	4.67		10.35	18.92	83.84	86.68	01-Feb-19 09:00:00		10.35	18.92	83.84	91.35
01-Feb-19 10:00:00	01-Feb-19 11:00:00		0.00	0.00	0.00	84.51	2.1	329.7		0.00	0.00	0.00	27.86		10.35	18.92	83.84	86.68	01-Feb-19 10:00:00		10.35	18.92	83.84	114.54
01-Feb-19 11:00:00	01-Feb-19 12:00:00		0.00	0.00	0.00	8.32	2.1	329.7		0.00	0.00	0.00	2.74		10.35	18.92	83.84	86.68	01-Feb-19 11:00:00		10.35	18.92	83.84	89.42
01-Feb-19 12:00:00	01-Feb-19 13:00:00		0.00	0.00	0.00	17.87	2.1	329.7		0.00	0.00	0.00	5.89		10.35	18.92	83.84	86.68	01-Feb-19 12:00:00		10.35	18.92	83.84	92.57
01-Feb-19 13:00:00	01-Feb-19 14:00:00		0.00	0.00	0.00	11.97	2.1	329.7		0.00	0.00	0.00	3.95		10.35	18.92	83.84	86.68	01-Feb-19 13:00:00		10.35	18.92	83.84	90.63
01-Feb-19 14:00:00	01-Feb-19 15:00:00		0.00	0.00	0.00	10.75	2.1	329.7		0.00	0.00	0.00	3.55		10.35	18.92	83.84	86.68	01-Feb-19 14:00:00		10.35	18.92	83.84	90.23
01-Feb-19 15:00:00	01-Feb-19 16:00:00		0.00	0.00	0.00	8.00	2.1	329.7		0.00	0.00	0.00	2.64		10.35	18.92	83.84	86.68	01-Feb-19 15:00:00		10.35	18.92	83.84	89.32
01-Feb-19 16:00:00	01-Feb-19 17:00:00		7.67	0.00	0.00	11.93	2.1	329.7		2.53	0.00	0.00	3.93		10.35	18.92	83.84	86.68	01-Feb-19 16:00:00		12.88	18.92	83.84	90.61
01-Feb-19 17:00:00	01-Feb-19 18:00:00		16.37	0.00	0.00	18.47	2.1	329.7		5.40	0.00	0.00	6.09		10.35	18.92	83.84	86.68	01-Feb-19 17:00:00		15.75	18.92	83.84	92.77
01-Feb-19 18:00:00	01-Feb-19 19:00:00		18.35	0.00	0.00	66.73	2.1	329.7		6.05	0.00	0.00	22.00		10.35	18.92	83.84	86.68	01-Feb-19 18:00:00		16.40	18.92	83.84	108.68
01-Feb-19 19:00:00	01-Feb-19 20:00:00		19.59	0.00	0.00	228.12	2.1	329.7		6.46	0.00	0.00	75.21		10.35	18.92	83.84	86.68	01-Feb-19 19:00:00		16.81	18.92	83.84	161.89
01-Feb-19 20:00:00	01-Feb-19 21:00:00		11.05	0.00	0.00	134.96	2.1	329.7		3.64	0.00	0.00	44.50		10.35	18.92	83.84	86.68	01-Feb-19 20:00:00		13.99	18.92	83.84	131.18
01-Feb-19 21:00:00	01-Feb-19 22:00:00		5.55	0.00	0.00	6.87	2.1	329.7		1.83	0.00	0.00	2.27		10.35	18.92	83.84	86.68	01-Feb-19 21:00:00		12.18	18.92	83.84	88.95
01-Feb-19 22:00:00	01-Feb-19 23:00:00		10.56	0.00	0.00	52.26	2.1	329.7		3.48	0.00	0.00	17.23		10.35	18.92	83.84	86.68	01-Feb-19 22:00:00		13.83	18.92	83.84	103.91
01-Feb-19 23:00:00	02-Feb-19 00:00:00		4.57	0.00	0.00	6.60	2.1	329.7		1.51	0.00	0.00	2.18		10.35	18.92	83.84	86.68	01-Feb-19 23:00:00		11.86	18.92	83.84	88.86
02-Feb-19 00:00:00	02-Feb-19 01:00:00		26.54	0.00	0.00	7.94	2.1	329.7		8.75	0.00	0.00	2.62		10.35	18.92	83.84	86.68	02-Feb-19 00:00:00		19.10	18.92	83.84	89.30
02-Feb-19 01:00:00	02-Feb-19 02:00:00		40.07	0.00	0.00	18.63	2.1	329.7		13.21	0.00	0.00	6.14		10.35	18.92	83.84	86.68	02-Feb-19 01:00:00		23.56	18.92	83.84	92.82
02-Feb-19 02:00:00	02-Feb-19 03:00:00		11.38	0.00	0.00	7.13	2.1	329.7		3.75	0.00	0.00	2.35		10.35	18.92	83.84	86.68	02-Feb-19 02:00:00		14.10	18.92	83.84	89.03
02-Feb-19 03:00:00	02-Feb-19 04:00:00		5.51	0.00	0.00	7.26	2.1	329.7		1.82	0.00	0.00	2.39		10.35	18.92	83.84	86.68	02-Feb-19 03:00:00		12.17	18.92	83.84	89.07
02-Feb-19 04:00:00	02-Feb-19 05:00:00		20.56	0.00	0.00	7.58	2.1	329.7		6.78	0.00	0.00	2.50		10.35	18.92	83.84	86.68	02-Feb-19 04:00:00		17.13	18.92	83.84	89.18
02-Feb-19 05:00:00	02-Feb-19 06:00:00		23.36	0.00	0.00	13.62	2.1	329.7		7.70	0.00	0.00	4.49		10.35	18.92	83.84	86.68	02-Feb-19 05:00:00		18.05	18.92	83.84	91.17
02-Feb-19 06:00:00	02-Feb-19 07:00:00		4.39	0.00	0.00	8.08	2.1	329.7		1.45	0.00	0.00	2.66		10.35	18.92	83.84	86.68	02-Feb-19 06:00:00		11.80	18.92	83.84	89.34
02-Feb-19 07:00:00	02-Feb-19 08:00:00		1.29	0.00	0.00	7.53	2.1	329.7		0.43	0.00	0.00	2.48		10.35	18.92	83.84	86.68	02-Feb-19 07:00:00		10.78	18.92	83.84	89.16
02-Feb-19 08:00:00	02-Feb-19 09:00:00		0.80	0.00	0.00	7.39	2.1	329.7		0.26	0.00	0.00	2.44		10.35	18.92	83.84	86.68	02-Feb-19 08:00:00		10.61	18.92	83.84	89.12
02-Feb-19 09:00:00	02-Feb-19 10:00:00		0.31	0.00	0.00	75.84	2.1	329.7		0.10	0.00	0.00	25.00		10.35	18.92	83.84	86.68	02-Feb-19 09:00:00		10.45	18.92	83.84	111.68
02-Feb-19 10:00:00	02-Feb-19 11:00:00		0.00	0.00	0.00	7.62	2.1	329.7		0.00	0.00	0.00	2.51		10.35	18.92	83.84	86.68	02-Feb-19 10:00:00		10.35	18.92	83.84	89.19
02-Feb-19 11:00:00	02-Feb-19 12:00:00		0.00	0.00	0.00	5.77	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	02-Feb-19 11:00:00		10.35	18.92	83.84	88.58
02-Feb-19 12:00:00	02-Feb-19 13:00:00		0.00	0.00	0.00	6.71	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	02-Feb-19 12:00:00		10.35	18.92	83.84	88.89
02-Feb-19 13:00:00	02-Feb-19 14:00:00		0.00	0.00	0.00	5.14	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	02-Feb-19 13:00:00		10.35	18.92	83.84	88.37
02-Feb-19 14:00:00	02-Feb-19 15:00:00		20.46	0.00	0.00	5.87	2.1	329.7		6.75	0.00	0.00	1.93		10.35	18.92	83.84	86.68	02-Feb-19 14:00:00		17.10	18.92	83.84	88.61
02-Feb-19 15:00:00	02-Feb-19 16:00:00		31.14	0.00	0.00	20.87	2.1	329.7		10.27	0.00	0.00	6.88		10.35	18.92	83.84	86.68	02-Feb-19 15:00:00		20.62	18.92	83.84	93.56
02-Feb-19 16:00:00	02-Feb-19 17:00:00		24.76	0.00	0.00	6.34	2.1	329.7		8.16	0.00	0.00	2.09		10.35	18.92	83.84	86.68	02-Feb-19 16:00:00		18.51	18.92	83.84	88.77
02-Feb-19 17:00:00	02-Feb-19 18:00:00		21.00	0.00	0.00	45.10	2.1	329.7		6.92	0.00	0.00	14.87		10.35	18.92	83.84	86.68	02-Feb-19 17:00:00		17.27	18.92	83.84	101.55
02-Feb-19 18:00:00	02-Feb-19 19:00:00		19.35	0.00	0.00	44.64	2.1	329.7		6.38	0.00	0.00	14.72		10.35	18.92	83.84	86.68	02-Feb-19 18:00:00		16.73	18.92	83.84	101.40
02-Feb-19 19:00:00	02-Feb-19 20:00:00		20.18	0.00	0.00	61.01	2.1	329.7		6.65	0.00	0.00	20.11		10.35	18.92	83.84	86.68	02-Feb-19 19:00:00		17.00	18.92	83.84	106.79
02-Feb-19 20:00:00	02-Feb-19 21:00:00		20.76	0.00	0.00	11.24	2.1	329.7		6.85	0.00	0.00	3.71		10.35	18.92	83.84	86.68	02-Feb-19 20:00:00		17.20	18.92	83.84	90.39
02-Feb-19 21:00:00	02-Feb-19 22:00:00		6.30	0.00	0.00	6.02	2.1	329.7		2.08	0.00	0.00	1.98		10.35	18.92	83.84	86.68	02-Feb-19 21:00:00		12.43	18.92	83.84	88.66
02-Feb-19 22:00:00	02-Feb-19 23:00:00		6.27	0.00	0.00	6.26	2.1	329.7		2.07	0.00	0.00	2.06		10.35	18.92	83.84	86.68	02-Feb-19 22:00:00		12.42	18.92	83.84	88.74
02-Feb-19 23:00:00	03-Feb-19 00:00:00		1.76	0.00	0.00	6.61	2.1	329.7		0.58	0.00	0.00	2.18		10.35	18.92	83.84	86.68	02-Feb-19 23:00:00		10.93	18.92	83.84	88.86
03-Feb-19 00:00:00	03-Feb-19 01:00:00		18.68	0.00	0.00	14.99	2.1	329.7		6.16	0.00	0.00	4.94		10.35	18.92	83.84	86.68	03-Feb-19 00:00:00		16.51	18.92	83.84	91.62
03-Feb-19 01:00:00	03-Feb-19 02:00:00		18.96	0.00	0.00	6.80	2.1	329.7		6.25	0.00	0.00	2.24		10.35	18.92	83.84	86.68	03-Feb-19 01:00:00		16.60	18.92	83.84	88.92
03-Feb-19 02:00:00	03-Feb-19 03:00:00		6.97	0.00	0.00	6.78	2.1	329.7		2.30	0.00	0.00	2.24		10.35	18.92	83.84	86.68	03-Feb-19 02:00:00		12.65	18.92	83.84	88.92
03-Feb-19 03:00:00	03-Feb-19 04:00:00		2.73	0.00	0.00	6.77	2.1	329.7		0.90	0.00	0.00	2.23		10.35	18.92	83.84	86.68	03-Feb-19 03:00:00		11.25	18.92	83.84	88.91
03-Feb-19 04:00:00	03-Feb-19 05:00:00		1.79	0.00	0.00	8.77	2.1	329.7		0.59	0.00	0.00	2.89		10.35	18.92	83.84	86.68	03-Feb-19 04:00:00		10.94	18.92	83.84	89.57
03-Feb-19 05:00:00	03-Feb-19 06:00:00		1.58	0.00	0.00	19.61	2.1	329.7		0.52	0.00	0.00	6.47		10.35	18.92	83.84	86.68	03-Feb-19 05:00:00		10.87	18.92	83.84	93.15
03-Feb-19 06:00:00	03-Feb-19 07:00:00		1.38	0.00	0.00	6.68	2.1	329.7		0.46	0.00	0.00	2.20		10.35	18.92	83.84	86.68	03-Feb-19 06:00:00		10.81	18.92	83.84	88.88
03-Feb-19 07:00:00	03-Feb-19 08:00:00		1.09	0.00	0.00	6.41	2.1	329.7		0.36	0.00	0.00	2.11		10.35	18.92	83.84	86.68	03-Feb-19 07:00:00		10.71	18.92	83.84	88.79
03-Feb-19 08:00:00	03-Feb-19 09:00:00		1.57	0.00	0.00	6.36	2.1	329.7		0.52	0.00	0.00	2.10		10.35	18.92	83.84	86.68	03-Feb-19 08:00:00		10.87	18.92	83.84	88.78
03-Feb-19 09:00:00	03-Feb-19 10:00:00		2.27	0.00	0.00	6.30	2.1	329.7		0.75	0.00	0.00	2.08		10.35	18.92	83.84	86.68	03-Feb-19 09:00:00		11.10	18.92	83.84	88.76
03-Feb-19 10:00:00	03-Feb-19 11:00:00		2.97	0.00	0.00	250.71	2.1	329.7		0.98	0.00	0.00	82.66		10.35	18.92	83.84	86.68	03-Feb-19 10:00:00		11.33	18.92	83.84	169.34
03-Feb-19 11:00:00	03-Feb-19 12:00:00		4.33	0.00	0.00	63.37	2.1	329.7		1.43	0.00	0.00	20.89		10.35	18.92	83.84	86.68	03-Feb-19 11:00:00		11.78	18.92	83.84	107.57
03-Feb-19 12:00:00	03-Feb-19 13:00:00		12.55	0.00	0.00	54.13	2.1	329.7		4.14	0.00	0.00	17.85		10.35	18.92	83.84	86.68	03-Feb-19 12:00:00		14.49	18.92	83.84	104.53
03-Feb-19 13:00:00	03-Feb-19 14:00:00		12.41	0.00	0.00	7.63	2.1	329.7		4.09	0.00	0.00	2.52		10.35	18.92	83.84	86.68	03-Feb-19 13:00:00		14.44	18.92	83.84	89.20
03-Feb-19 14:00:00	03-Feb-19 15:00:00		7.29	0.00	0.00	256.98	2.1	329.7		2.40	0.00	0.00	84.73		10.35	18.92	83.84	86.68	03-Feb-19 14:00:00		12.75	18.92	83.84	171.41
03-Feb-19 15:00:00	03-Feb-19 16:00:00		3.79	0.00	0.00	183.64	2.1	329.7		1.25	0.00	0.00	60.55		10.35	18.92	83.84	86.68	03-Feb-19 15:00:00		11.60	18.92	83.84	147.23
03-Feb-19 16:00:00	03-Feb-19 17:00:00		6.65	0.00	0.00	330.25

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
05-Feb-19 18:00:00	05-Feb-19 19:00:00		15.56	0.00	0.00	4.87	2.1	329.7		5.13	0.00	0.00	1.61		10.35	18.92	83.84	86.68	05-Feb-19 18:00:00		**15.48**	**18.92**	**83.84**	**88.29**
05-Feb-19 19:00:00	05-Feb-19 20:00:00		11.78	0.00	0.00	5.04	2.1	329.7		3.88	0.00	0.00	1.66		10.35	18.92	83.84	86.68	05-Feb-19 19:00:00		**14.23**	**18.92**	**83.84**	**88.34**
05-Feb-19 20:00:00	05-Feb-19 21:00:00		9.31	0.00	0.00	5.40	2.1	329.7		3.07	0.00	0.00	1.78		10.35	18.92	83.84	86.68	05-Feb-19 20:00:00		**13.42**	**18.92**	**83.84**	**88.46**
05-Feb-19 21:00:00	05-Feb-19 22:00:00		15.20	0.00	0.00	5.75	2.1	329.7		5.01	0.00	0.00	1.90		10.35	18.92	83.84	86.68	05-Feb-19 21:00:00		**15.36**	**18.92**	**83.84**	**88.58**
05-Feb-19 22:00:00	05-Feb-19 23:00:00		21.18	0.00	0.00	6.10	2.1	329.7		6.98	0.00	0.00	2.01		10.35	18.92	83.84	86.68	05-Feb-19 22:00:00		**17.33**	**18.92**	**83.84**	**88.69**
05-Feb-19 23:00:00	06-Feb-19 00:00:00		14.47	0.00	164.90	6.11	2.1	329.7		4.77	0.00	54.37	2.02		10.35	18.92	83.84	86.68	05-Feb-19 23:00:00		**15.12**	**18.92**	**138.21**	**88.70**
06-Feb-19 00:00:00	06-Feb-19 01:00:00		21.29	0.00	600.21	6.14	2.1	329.7		7.02	0.00	138.54	2.03		10.35	18.92	83.84	86.68	06-Feb-19 00:00:00		**17.37**	**18.92**	**222.38**	**88.71**
06-Feb-19 01:00:00	06-Feb-19 02:00:00		26.19	0.00	599.33	6.17	2.1	329.7		8.63	0.00	197.60	2.03		10.35	18.92	83.84	86.68	06-Feb-19 01:00:00		**18.98**	**18.92**	**281.44**	**88.71**
06-Feb-19 02:00:00	06-Feb-19 03:00:00		18.49	0.00	626.30	6.20	2.1	329.7		6.10	0.00	206.49	2.04		10.35	18.92	83.84	86.68	06-Feb-19 02:00:00		**16.45**	**18.92**	**290.33**	**88.72**
06-Feb-19 03:00:00	06-Feb-19 04:00:00		17.24	0.00	477.29	6.27	2.1	329.7		5.69	0.00	157.36	2.07		10.35	18.92	83.84	86.68	06-Feb-19 03:00:00		**16.04**	**18.92**	**241.20**	**88.75**
06-Feb-19 04:00:00	06-Feb-19 05:00:00		23.65	0.00	0.00	6.36	2.1	329.7		7.80	0.00	0.00	2.10		10.35	18.92	83.84	86.68	06-Feb-19 04:00:00		**18.15**	**18.92**	**83.84**	**88.78**
06-Feb-19 05:00:00	06-Feb-19 06:00:00		21.95	0.00	0.00	6.77	2.1	329.7		7.24	0.00	0.00	2.23		10.35	18.92	83.84	86.68	06-Feb-19 05:00:00		**17.59**	**18.92**	**83.84**	**88.91**
06-Feb-19 06:00:00	06-Feb-19 07:00:00		25.48	0.00	0.00	6.58	2.1	329.7		8.40	0.00	0.00	2.17		10.35	18.92	83.84	86.68	06-Feb-19 06:00:00		**18.75**	**18.92**	**83.84**	**88.85**
06-Feb-19 07:00:00	06-Feb-19 08:00:00		27.77	0.00	0.00	6.53	2.1	329.7		9.15	0.00	0.00	2.15		10.35	18.92	83.84	86.68	06-Feb-19 07:00:00		**19.50**	**18.92**	**83.84**	**88.83**
06-Feb-19 08:00:00	06-Feb-19 09:00:00		28.51	0.00	0.00	6.48	2.1	329.7		9.40	0.00	0.00	2.14		10.35	18.92	83.84	86.68	06-Feb-19 08:00:00		**19.75**	**18.92**	**83.84**	**88.82**
06-Feb-19 09:00:00	06-Feb-19 10:00:00		28.25	0.00	0.00	6.40	2.1	329.7		9.31	0.00	0.00	2.11		10.35	18.92	83.84	86.68	06-Feb-19 09:00:00		**19.66**	**18.92**	**83.84**	**88.79**
06-Feb-19 10:00:00	06-Feb-19 11:00:00		26.37	0.00	0.00	6.10	2.1	329.7		8.69	0.00	0.00	2.01		10.35	18.92	83.84	86.68	06-Feb-19 10:00:00		**19.04**	**18.92**	**83.84**	**88.69**
06-Feb-19 11:00:00	06-Feb-19 12:00:00		11.03	0.00	0.00	5.78	2.1	329.7		3.64	0.00	0.00	1.90		10.35	18.92	83.84	86.68	06-Feb-19 11:00:00		**13.99**	**18.92**	**83.84**	**88.58**
06-Feb-19 12:00:00	06-Feb-19 13:00:00		8.02	0.00	0.00	5.45	2.1	329.7		2.65	0.00	0.00	1.80		10.35	18.92	83.84	86.68	06-Feb-19 12:00:00		**13.00**	**18.92**	**83.84**	**88.48**
06-Feb-19 13:00:00	06-Feb-19 14:00:00		22.97	0.00	0.00	5.10	2.1	329.7		7.57	0.00	0.00	1.68		10.35	18.92	83.84	86.68	06-Feb-19 13:00:00		**17.92**	**18.92**	**83.84**	**88.36**
06-Feb-19 14:00:00	06-Feb-19 15:00:00		28.02	0.00	0.00	5.01	2.1	329.7		9.24	0.00	0.00	1.65		10.35	18.92	83.84	86.68	06-Feb-19 14:00:00		**19.59**	**18.92**	**83.84**	**88.33**
06-Feb-19 15:00:00	06-Feb-19 16:00:00		8.59	0.00	0.00	5.05	2.1	329.7		2.83	0.00	0.00	1.66		10.35	18.92	83.84	86.68	06-Feb-19 15:00:00		**13.18**	**18.92**	**83.84**	**88.34**
06-Feb-19 16:00:00	06-Feb-19 17:00:00		5.21	0.00	0.00	5.09	2.1	329.7		1.72	0.00	0.00	1.68		10.35	18.92	83.84	86.68	06-Feb-19 16:00:00		**12.07**	**18.92**	**83.84**	**88.36**
06-Feb-19 17:00:00	06-Feb-19 18:00:00		13.81	0.00	0.00	5.13	2.1	329.7		4.55	0.00	0.00	1.69		10.35	18.92	83.84	86.68	06-Feb-19 17:00:00		**14.90**	**18.92**	**83.84**	**88.37**
06-Feb-19 18:00:00	06-Feb-19 19:00:00		19.87	0.00	0.00	5.17	2.1	329.7		6.55	0.00	0.00	1.70		10.35	18.92	83.84	86.68	06-Feb-19 18:00:00		**16.90**	**18.92**	**83.84**	**88.38**
06-Feb-19 19:00:00	06-Feb-19 20:00:00		14.89	0.00	0.00	5.53	2.1	329.7		4.91	0.00	0.00	1.82		10.35	18.92	83.84	86.68	06-Feb-19 19:00:00		**15.26**	**18.92**	**83.84**	**88.50**
06-Feb-19 20:00:00	06-Feb-19 21:00:00		19.23	0.00	0.00	5.31	2.1	329.7		6.34	0.00	0.00	1.75		10.35	18.92	83.84	86.68	06-Feb-19 20:00:00		**16.69**	**18.92**	**83.84**	**88.43**
06-Feb-19 21:00:00	06-Feb-19 22:00:00		25.19	0.00	0.00	5.40	2.1	329.7		8.31	0.00	0.00	1.78		10.35	18.92	83.84	86.68	06-Feb-19 21:00:00		**18.66**	**18.92**	**83.84**	**88.46**
06-Feb-19 22:00:00	06-Feb-19 23:00:00		27.42	0.00	0.00	5.49	2.1	329.7		9.04	0.00	0.00	1.81		10.35	18.92	83.84	86.68	06-Feb-19 22:00:00		**19.39**	**18.92**	**83.84**	**88.49**
06-Feb-19 23:00:00	07-Feb-19 00:00:00		24.66	0.00	0.00	5.56	2.1	329.7		8.13	0.00	0.00	1.83		10.35	18.92	83.84	86.68	06-Feb-19 23:00:00		**18.48**	**18.92**	**83.84**	**88.51**
07-Feb-19 00:00:00	07-Feb-19 01:00:00		24.46	0.00	0.00	5.61	2.1	329.7		8.07	0.00	0.00	1.85		10.35	18.92	83.84	86.68	07-Feb-19 00:00:00		**18.42**	**18.92**	**83.84**	**88.53**
07-Feb-19 01:00:00	07-Feb-19 02:00:00		25.15	0.00	0.00	5.70	2.1	329.7		8.29	0.00	0.00	1.88		10.35	18.92	83.84	86.68	07-Feb-19 01:00:00		**18.64**	**18.92**	**83.84**	**88.56**
07-Feb-19 02:00:00	07-Feb-19 03:00:00		24.68	0.00	0.00	5.79	2.1	329.7		8.14	0.00	0.00	1.91		10.35	18.92	83.84	86.68	07-Feb-19 02:00:00		**18.49**	**18.92**	**83.84**	**88.59**
07-Feb-19 03:00:00	07-Feb-19 04:00:00		25.10	0.00	0.00	5.81	2.1	329.7		8.28	0.00	0.00	1.91		10.35	18.92	83.84	86.68	07-Feb-19 03:00:00		**18.63**	**18.92**	**83.84**	**88.59**
07-Feb-19 04:00:00	07-Feb-19 05:00:00		25.88	0.00	0.00	5.75	2.1	329.7		8.53	0.00	0.00	1.90		10.35	18.92	83.84	86.68	07-Feb-19 04:00:00		**18.88**	**18.92**	**83.84**	**88.58**
07-Feb-19 05:00:00	07-Feb-19 06:00:00		25.53	0.00	0.00	5.80	2.1	329.7		8.42	0.00	0.00	1.91		10.35	18.92	83.84	86.68	07-Feb-19 05:00:00		**18.77**	**18.92**	**83.84**	**88.59**
07-Feb-19 06:00:00	07-Feb-19 07:00:00		26.86	0.00	276.65	5.86	2.1	329.7		8.86	0.00	91.21	1.93		10.35	18.92	83.84	86.68	07-Feb-19 06:00:00		**19.21**	**18.92**	**175.05**	**88.61**
07-Feb-19 07:00:00	07-Feb-19 08:00:00		25.44	27.28	680.09	5.88	2.1	329.7		8.39	8.99	224.22	1.94		10.35	18.92	83.84	86.68	07-Feb-19 07:00:00		**18.74**	**27.91**	**308.06**	**88.62**
07-Feb-19 08:00:00	07-Feb-19 09:00:00		26.41	359.64	602.87	5.82	2.1	329.7		8.71	118.57	198.76	1.92		10.35	18.92	83.84	86.68	07-Feb-19 08:00:00		**19.06**	**137.49**	**282.60**	**88.60**
07-Feb-19 09:00:00	07-Feb-19 10:00:00		24.80	291.21	636.82	5.79	2.1	329.7		8.18	96.01	209.96	1.91		10.35	18.92	83.84	86.68	07-Feb-19 09:00:00		**18.53**	**114.93**	**293.80**	**88.59**
07-Feb-19 10:00:00	07-Feb-19 11:00:00		25.88	330.88	635.81	5.76	2.1	329.7		8.53	109.09	209.63	1.90		10.35	18.92	83.84	86.68	07-Feb-19 10:00:00		**18.88**	**128.01**	**293.47**	**88.58**
07-Feb-19 11:00:00	07-Feb-19 12:00:00		10.06	361.86	591.07	5.74	2.1	329.7		3.32	119.31	194.88	1.89		10.35	18.92	83.84	86.68	07-Feb-19 11:00:00		**13.67**	**138.23**	**278.72**	**88.57**
07-Feb-19 12:00:00	07-Feb-19 13:00:00		21.01	377.28	607.36	5.62	2.1	329.7		6.93	124.39	200.25	1.85		10.35	18.92	83.84	86.68	07-Feb-19 12:00:00		**17.28**	**143.31**	**284.09**	**88.53**
07-Feb-19 13:00:00	07-Feb-19 14:00:00		2.57	375.71	462.42	5.44	2.1	329.7		0.85	123.87	152.46	1.79		10.35	18.92	83.84	86.68	07-Feb-19 13:00:00		**11.20**	**142.79**	**236.30**	**88.47**
07-Feb-19 14:00:00	07-Feb-19 15:00:00		7.70	376.24	516.90	5.26	2.1	329.7		2.54	124.05	170.42	1.74		10.35	18.92	83.84	86.68	07-Feb-19 14:00:00		**12.89**	**142.97**	**254.26**	**88.42**
07-Feb-19 15:00:00	07-Feb-19 16:00:00		9.53	357.43	600.74	5.07	2.1	329.7		3.14	117.84	198.06	1.67		10.35	18.92	83.84	86.68	07-Feb-19 15:00:00		**13.49**	**136.76**	**281.90**	**88.35**
07-Feb-19 16:00:00	07-Feb-19 17:00:00		17.76	367.07	605.91	5.03	2.1	329.7		5.86	121.02	199.77	1.66		10.35	18.92	83.84	86.68	07-Feb-19 16:00:00		**16.21**	**139.94**	**283.61**	**88.34**
07-Feb-19 17:00:00	07-Feb-19 18:00:00		10.57	359.58	606.08	5.08	2.1	329.7		3.49	118.55	199.82	1.68		10.35	18.92	83.84	86.68	07-Feb-19 17:00:00		**13.84**	**137.47**	**283.66**	**88.36**
07-Feb-19 18:00:00	07-Feb-19 19:00:00		12.06	360.04	605.11	5.14	2.1	329.7		3.98	118.70	199.50	1.70		10.35	18.92	83.84	86.68	07-Feb-19 18:00:00		**14.33**	**137.62**	**283.34**	**88.38**
07-Feb-19 19:00:00	07-Feb-19 20:00:00		8.24	360.94	608.80	5.20	2.1	329.7		2.72	119.00	200.72	1.72		10.35	18.92	83.84	86.68	07-Feb-19 19:00:00		**13.07**	**137.92**	**284.56**	**88.40**
07-Feb-19 20:00:00	07-Feb-19 21:00:00		7.21	361.07	598.14	5.30	2.1	329.7		2.38	119.04	197.21	1.75		10.35	18.92	83.84	86.68	07-Feb-19 20:00:00		**12.73**	**137.96**	**281.05**	**88.43**
07-Feb-19 21:00:00	07-Feb-19 22:00:00		0.84	91.87	77.15	5.41	2.1	329.7		0.28	30.29	25.44	1.78		10.35	18.92	83.84	86.68	07-Feb-19 21:00:00		**10.63**	**49.21**	**109.28**	**88.46**
07-Feb-19 22:00:00	07-Feb-19 23:00:00		4.83	0.00	0.00	5.52	2.1	329.7		1.59	0.00	0.00	1.82		10.35	18.92	83.84	86.68	07-Feb-19 22:00:00		**11.94**	**18.92**	**83.84**	**88.50**
07-Feb-19 23:00:00	08-Feb-19 00:00:00		20.15	0.00	0.00	5.60	2.1	329.7		6.64	0.00	0.00	1.84		10.35	18.92	83.84	86.68	07-Feb-19 23:00:00		**16.99**	**18.92**	**83.84**	**88.52**
08-Feb-19 00:00:00	08-Feb-19 01:00:00		15.40	0.00	0.00	5.60	2.1	329.7		5.08	0.00	0.00	1.85		10.35	18.92	83.84	86.68	08-Feb-19 00:00:00		**15.43**	**18.92**	**83.84**	**88.53**
08-Feb-19 01:00:00	08-Feb-19 02:00:00		16.32	0.00	0.00	5.66	2.1	329.7		5.38	0.00	0.00	1.87		10.35	18.92	83.84	86.68	08-Feb-19 01:00:00		**15.73**	**18.92**	**83.84**	**88.55**
08-Feb-19 02:00:00	08-Feb-19 03:00:00		14.52	0.00	0.00	5.72	2.1	329.7		4.79	0.00	0.00	1.89		10.35	18.92	83.84	86.68	08-Feb-19 02:00:00		**15.14**	**18.92**	**83.84**	**88.57**
08-Feb-19 03:00:00	08-Feb-19 04:00:00		23.19	0.00	0.00	5.80	2.1	329.7		7.65	0.00	0.00	1.91		10.35	18.92	83.84	86.68	08-Feb-19 03:00:00		**18.00**	**18.92**	**83.84**	**88.59**
08-Feb-19 04:00:00	08-Feb-19 05:00:00		0.00	0.00	0.00	5.89	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	08-Feb-19 04:00:00		**10.35**	**18.92**	**83.84**	**88.62**
08-Feb-19 05:00:00	08-Feb-19 06:00:00		0.00	0.00	0.00	5.94	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	08-Feb-19 05:00:00		**10.35**	**18.92**	**83.84**	**88.64**
08-Feb-19 06:00:00	08-Feb-19 07:00:00		0.00	0.00	0.00	5.99	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	08-Feb-19 06:00:00		**10.35**	**18.92**	**83.84**	**88.65**
08-Feb-19 07:00:00	08-Feb-19 08:00:00		0.00	0.00	0.00	6.02	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	08-Feb-19 07:00:00		**10.35**	**18.92**	**83.84**	**88.67**
08-Feb-19 08:00:00	08-Feb-19 09:00:00		0.23	0.00	0.00	6.00	2.1	329.7		0.08	0.00	0.00	1.98		10.35	18.92	83.84	86.68	08-Feb-19 08:00:00		**10.43**	**18.92**	**83.84**	**88.66**
08-Feb-19 09:00:00	08-Feb-19 10:00:00		0.60	0.00	0.00	5.97	2.1	329.7		0.20	0.00	0.00	1.97		10.35	18.92	83.84	86.68	08-Feb-19 09:00:00		**10.55**	**18.92**	**83.84**	**88.65**
08-Feb-19 10:00:00	08-Feb-19 11:00:00		0.98	0.00	0.00	5.94	2.1	329.7		0.32	0.00	0.00	1.96		10.35	18.92	83.84	86.68	08-Feb-19 10:00:00		**10.67**	**18.92**	**83.84**	**88.64**
08-Feb-19 11:00:00	08-Feb-19 12:00:00		0.76	0.00	0.00	5.88	2.1	329.7		0.25	0.00	0.00	1.94		10.35	18.92	83.84	86.68	08-Feb-19 11:00:00		**10.60**	**18.92**	**83.84**	**88.62**
08-Feb-19 12:00:00	08-Feb-19 13:00:00		0.89	0.00	0.00	5.69	2.1	329.7		0.29	0.00	0.00	1.88		10.35	18.92	83.84	86.68	08-Feb-19 12:00:00		**10.64**	**18.92**	**83.84**	**88.56**
08-Feb-19 13:00:00	08-Feb-19 14:00:00		0.00	0.00	0.00	5.57	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	08-Feb-19 13:00:00		**10.35**	**18.92**	**83.84**	**88.52**
08-Feb-19 14:00:00	08-Feb-19 15:00:00		0.00	0.00	0.00	5.45	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	08-Feb-19 14:00:00		**10.35**	**18.92**	**83.84**	**88.48**
08-Feb-19 15:00:00	08-Feb-19 16:00:00		0.00	0.00	0.00	5.31	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	08-Feb-19 15:00:00		**10.35**	**18.92**	**83.84**	**88.43**
08-Feb-19 16:00:00	08-Feb-19 17:00:00		0.00	0.00	0.00	5.37	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	08-Feb-19 16:00:00		**10.35**	**18.92**	**83.84**	**88.45**
08-Feb-19 17:00:00	08-Feb-19 18:00:00		0.00	0.00	0.00	5.56	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	08-Feb-19 17:00:00		**10.35**	**18.92**	**83.84**	**88.51**
08-Feb-19 18:00:00	08-Feb-19 19:00:00		2.56	0.00	0.00	5.74	2.1	329.7		0.84	0.00	0.00	1.89		10.35	18.92	83.84	86.68	08-Feb-19 18:00:00		**11.19**	**18.92**	**83.84**	**88.57**
08-Feb-19 19:00:00	08-Feb-19 20:00:00		2.99	0.00	217.09	5.97	2.1	329.7		0.99	0.00	71.57	1.97		10.35	18.92	83.84	86.68	08-Feb-19 19:00:00		**11.34**	**18.92**	**155.41**	**88.65**
08-Feb-19 20:00:00	08-Feb-19 21:00:00		3.90	0.00	506.83	6.25	2.1	329.7		1.29	0.00	167.10	2.06		10.35	18.92	83.84	86.68	08-Feb-19 20:00:00		**11.64**	**18.92**	**250.94**	**88.74**
08-Feb-19 21:00:00	08-Feb-19 22:00:00		17.74	0.00	17.17	6.45	2.1	329.7		5.85	0.00	5.66	2.13		10.35	18.92	83.84	86.68	08-Feb-19 21:00:00		**16.20**	**18.92**	**89.50**	**88.81**
08-Feb-19 22:00:00	08-Feb-19 23:00:00		15.08	0.00	0.00	6.65	2.1	329.7		4.97	0.00	0.00	2.19		10.35	18.92	83.84	86.68	08-Feb-19 22:00:00		**15.32**	**18.92**	**83.84**	**88.87**
08-Feb-19 23:00:00	09-Feb-19 00:00:00		29.15	0.00	0.00	6.82	2.1	329.7		9.61	0.00	0.00	2.25		10.35	18.92	83.84	86.68	08-Feb-19 23:00:00		**19.96**	**18.92**	**83.84**	**88.93**
09-Feb-19 00:00:00	09-Feb-19 01:00:00		36.05	0.00	0.00	6.90	2.1	329.7		11.89	0.00	0.00	2.27		10.35	18.92	83.84	86.68	09-Feb-19 00:00:00		**22.24**	**18.92**	**83.84**	**88.95**
09-Feb-19 01:00:00	09-Feb-19 02:00:00		18.97	0.00	0.00	7.05	2.1	329.7		6.25	0.00	0.00	2.32		10.35	18.92	83.84	86.68	09-Feb-19 01:00:00		**16.60**	**18.92**	**83.84**	**89.00**
09-Feb-19 02:00:00	09-Feb-19 03:00:00		9.75	0.00	0.00	7.20	2.1	329.7		3.21	0.00	0.00	2.37		10.35	18.92	83.84	86.68	09-Feb-19 02:00:00		**13.56**	**18.92**	**83.84**	**89.05**
09-Feb-19 03:00:00	09-Feb-19 04:00:00		11.56	0.00	0.00	7.38	2.1	329.7		3.81	0.00	0.00	2.43		10.35	18.92	83.84	86.68	09-Feb-19 03:00:00		**14.16**	**18.92**	**83.84**	**89.11**
09-Feb-19 04:00:00	09-Feb-19 05:00:00		32.08	0.00	0.00	7.49	2.1	329.7		10.58	0.00	0.00	2.47		10.35	18.92	83.84	86.68	09-Feb-19 04:00:00		**20.93**	**18.92**	**83.84**	**89.15**
09-Feb-19 05:00:00	09-Feb-19 06:00:00		28.08	0.00	0.00	7.50	2.1	329.7		9.26	0.00	0.00	2.47		10.35	18.92	83.84	86.68	09-Feb-19 05:00:00		**19.61**	**18.92**	**83.84**	**89.15**
09-Feb-19 06:00:00	09-Feb-19 07:00:00		37.02	0.00	0.00	7.51	2.1	329.7		12.21	0.00	0.00	2.48		10.35	18.92	83.84	86.68	09-Feb-19 06:00:00		**22.56**	**18.92**	**83.84**	**89.16**
09-Feb-19 07:00:00	09-Feb-19 08:00:00		40.10	0.00	0.00	7.52	2.1	329.7		13.22	0.00	0.00	2.48		10.35	18.92	83.84	86.68	09-Feb-19 07:00:00		**23.57**	**18.92**	**83.84**	**89.16**
09-Feb-19 08:00:00	09-Feb-19 09:00:00		36.00	0.00	0.00	7.45	2.1	329.7		11.87	0.00	0.00	2.46		10.35	18.92	83.84	86.68	09-Feb-19 08:00:00		**22.22**	**18.92**	**83.84**	**89.14**
09-Feb-19 09:00:00	09-Feb-19 10:00:00		37.79	0.00	0.00	7.33	2.1	329.7		12.46	0.00	0.00	2.42		10.35	18.92	83.84	86.68	09-Feb-19 09:00:00		**22.81**	**18.92**	**83.84**	**89.10**
09-Feb-19 10:00:00	09-Feb-19 11:00:00		37.53	0.00	0.00	7.21	2.1	329.7		12.37	0.00	0.00	2.38		10.35	18.92	83.84	86.68	09-Feb-19 10:00:00		**22.72**	**18.92**	**83.84**	**89.06**
09-Feb-19 11:00:00	09-Feb-19 12:00:00		38.56	0.00	0.00	7.16	2.1	329.7		12.71	0.00	0.00	2.36		10.35	18.92	83.84	86.68	09-Feb-19 11:00:00		**23.06**	**18.92**	**83.84**	**89.04**
09-Feb-19 12:00:00	09-Feb-19 13:00:00		46.65	0.00	0.00	7.29	2.1	329.7		15.38	0.00	0.00	2.40		10.35	18.92	83.84	86.68	09-Feb-19 12:00:00		**25.73**	**18.92**	**83.84**	**89.08**
09-Feb-19 13:00:00	09-Feb-19 14:00:00		44.20	0.00	0.00	7.17	2.1	329.7		14.57	0.00	0.00	2.36		10.35	18.92	83.84	86.68	09-Feb-19 13:00:00		**24.92**	**18.92**	**83.84**	**89.04**
09-Feb-19 14:00:00	09-Feb-19 15:00:00		40.40	0.00	0.00	7.05	2.1	329.7		13.32	0.00	0.00	2.32		10.35	18.92	83.84	86.68	09-Feb-19 14:00:00		**23.67**	**18.92**	**83.84**	**89.00**
09-Feb-19 15:00:00	09-Feb-19 16:00:00		40.33	0.00	0.00	6.93

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
11-Feb-19 17:00:00	11-Feb-19 18:00:00		294.79	0.00	0.00	168.35	2.1	329.7		97.19	0.00	0.00	55.51		10.35	18.92	83.84	86.68	11-Feb-19 17:00:00		**107.54**	**18.92**	**83.84**	**142.19**
11-Feb-19 18:00:00	11-Feb-19 19:00:00		286.37	0.00	0.00	249.93	2.1	329.7		94.42	0.00	0.00	82.40		10.35	18.92	83.84	86.68	11-Feb-19 18:00:00		**104.77**	**18.92**	**83.84**	**169.08**
11-Feb-19 19:00:00	11-Feb-19 20:00:00		276.98	0.00	0.00	261.28	2.1	329.7		91.32	0.00	0.00	86.14		10.35	18.92	83.84	86.68	11-Feb-19 19:00:00		**101.67**	**18.92**	**83.84**	**172.82**
11-Feb-19 20:00:00	11-Feb-19 21:00:00		239.21	0.00	0.00	232.00	2.1	329.7		78.87	0.00	0.00	76.49		10.35	18.92	83.84	86.68	11-Feb-19 20:00:00		**89.22**	**18.92**	**83.84**	**163.17**
11-Feb-19 21:00:00	11-Feb-19 22:00:00		197.08	399.82	0.00	234.28	2.1	329.7		64.98	131.82	0.00	77.24		10.35	18.92	83.84	86.68	11-Feb-19 21:00:00		**75.33**	**150.74**	**83.84**	**163.92**
11-Feb-19 22:00:00	11-Feb-19 23:00:00		275.81	1,461.25	0.00	266.64	2.1	329.7		90.93	481.77	0.00	87.91		10.35	18.92	83.84	86.68	11-Feb-19 22:00:00		**101.28**	**500.69**	**83.84**	**174.59**
11-Feb-19 23:00:00	11-Feb-19 00:00:00		279.58	1,976.66	0.00	235.75	2.1	329.7		92.18	651.70	0.00	77.73		10.35	18.92	83.84	86.68	11-Feb-19 23:00:00		**102.53**	**670.62**	**83.84**	**164.41**
12-Feb-19 00:00:00	12-Feb-19 01:00:00		275.59	2,053.82	0.00	237.66	2.1	329.7		90.86	677.14	0.00	78.36		10.35	18.92	83.84	86.68	12-Feb-19 00:00:00		**101.21**	**696.06**	**83.84**	**165.04**
12-Feb-19 01:00:00	12-Feb-19 02:00:00		192.16	2,156.88	0.00	236.24	2.1	329.7		63.36	711.12	0.00	77.89		10.35	18.92	83.84	86.68	12-Feb-19 01:00:00		**73.71**	**730.04**	**83.84**	**164.57**
12-Feb-19 02:00:00	12-Feb-19 03:00:00		185.40	2,182.52	0.00	304.07	2.1	329.7		61.13	719.58	0.00	100.25		10.35	18.92	83.84	86.68	12-Feb-19 02:00:00		**71.48**	**738.50**	**83.84**	**186.93**
12-Feb-19 03:00:00	12-Feb-19 04:00:00		184.00	2,173.29	0.00	234.26	2.1	329.7		60.66	716.53	0.00	77.24		10.35	18.92	83.84	86.68	12-Feb-19 03:00:00		**71.01**	**735.45**	**83.84**	**163.92**
12-Feb-19 04:00:00	12-Feb-19 05:00:00		183.61	2,173.56	0.00	234.62	2.1	329.7		60.54	716.62	0.00	77.35		10.35	18.92	83.84	86.68	12-Feb-19 04:00:00		**70.89**	**735.54**	**83.84**	**164.03**
12-Feb-19 05:00:00	12-Feb-19 06:00:00		183.98	2,180.63	0.00	234.98	2.1	329.7		60.66	718.96	0.00	77.47		10.35	18.92	83.84	86.68	12-Feb-19 05:00:00		**71.01**	**737.88**	**83.84**	**164.15**
12-Feb-19 06:00:00	12-Feb-19 07:00:00		201.36	1,961.40	11.31	227.97	2.1	329.7		66.39	646.67	3.73	75.16		10.35	18.92	83.84	86.68	12-Feb-19 06:00:00		**76.74**	**665.59**	**87.57**	**161.84**
12-Feb-19 07:00:00	12-Feb-19 08:00:00		252.87	887.39	475.00	290.10	2.1	329.7		83.37	292.57	156.61	95.65		10.35	18.92	83.84	86.68	12-Feb-19 07:00:00		**93.72**	**311.49**	**240.45**	**182.33**
12-Feb-19 08:00:00	12-Feb-19 09:00:00		240.46	0.22	492.35	296.78	2.1	329.7		79.28	0.07	162.33	97.85		10.35	18.92	83.84	86.68	12-Feb-19 08:00:00		**89.63**	**18.99**	**246.17**	**184.53**
12-Feb-19 09:00:00	12-Feb-19 10:00:00		202.05	0.00	202.02	294.12	2.1	329.7		66.62	0.00	66.60	96.97		10.35	18.92	83.84	86.68	12-Feb-19 09:00:00		**76.97**	**18.92**	**150.44**	**183.65**
12-Feb-19 10:00:00	12-Feb-19 11:00:00		26.71	0.00	0.00	291.50	2.1	329.7		8.81	0.00	0.00	96.11		10.35	18.92	83.84	86.68	12-Feb-19 10:00:00		**19.16**	**18.92**	**83.84**	**182.79**
12-Feb-19 11:00:00	12-Feb-19 12:00:00		32.17	0.00	0.00	280.26	2.1	329.7		10.61	0.00	0.00	92.40		10.35	18.92	83.84	86.68	12-Feb-19 11:00:00		**20.96**	**18.92**	**83.84**	**179.08**
12-Feb-19 12:00:00	12-Feb-19 13:00:00		30.92	0.00	0.00	275.41	2.1	329.7		10.19	0.00	0.00	90.80		10.35	18.92	83.84	86.68	12-Feb-19 12:00:00		**20.54**	**18.92**	**83.84**	**177.48**
12-Feb-19 13:00:00	12-Feb-19 14:00:00		9.26	0.00	0.00	260.77	2.1	329.7		3.05	0.00	0.00	85.98		10.35	18.92	83.84	86.68	12-Feb-19 13:00:00		**13.40**	**18.92**	**83.84**	**172.66**
12-Feb-19 14:00:00	12-Feb-19 15:00:00		9.61	0.00	0.00	266.52	2.1	329.7		3.17	0.00	0.00	87.87		10.35	18.92	83.84	86.68	12-Feb-19 14:00:00		**13.52**	**18.92**	**83.84**	**174.55**
12-Feb-19 15:00:00	12-Feb-19 16:00:00		4.60	0.00	0.00	258.76	2.1	329.7		1.52	0.00	0.00	85.31		10.35	18.92	83.84	86.68	12-Feb-19 15:00:00		**11.87**	**18.92**	**83.84**	**171.99**
12-Feb-19 16:00:00	12-Feb-19 17:00:00		4.93	37.11	0.00	265.66	2.1	329.7		1.63	12.24	0.00	87.59		10.35	18.92	83.84	86.68	12-Feb-19 16:00:00		**11.98**	**31.16**	**83.84**	**174.27**
12-Feb-19 17:00:00	12-Feb-19 18:00:00		6.06	0.00	0.00	274.68	2.1	329.7		2.00	0.00	0.00	90.56		10.35	18.92	83.84	86.68	12-Feb-19 17:00:00		**12.35**	**18.92**	**83.84**	**177.24**
12-Feb-19 18:00:00	12-Feb-19 19:00:00		7.67	0.00	0.00	335.70	2.1	329.7		2.53	0.00	0.00	110.68		10.35	18.92	83.84	86.68	12-Feb-19 18:00:00		**12.88**	**18.92**	**83.84**	**197.36**
12-Feb-19 19:00:00	12-Feb-19 20:00:00		7.15	0.00	0.00	365.13	2.1	329.7		2.36	0.00	0.00	120.38		10.35	18.92	83.84	86.68	12-Feb-19 19:00:00		**12.71**	**18.92**	**83.84**	**207.06**
12-Feb-19 20:00:00	12-Feb-19 21:00:00		6.62	0.00	0.00	331.19	2.1	329.7		2.18	0.00	0.00	109.19		10.35	18.92	83.84	86.68	12-Feb-19 20:00:00		**12.53**	**18.92**	**83.84**	**195.87**
12-Feb-19 21:00:00	12-Feb-19 22:00:00		5.51	0.00	0.00	332.57	2.1	329.7		1.82	0.00	0.00	109.65		10.35	18.92	83.84	86.68	12-Feb-19 21:00:00		**12.17**	**18.92**	**83.84**	**196.33**
12-Feb-19 22:00:00	12-Feb-19 23:00:00		7.00	0.00	0.00	333.96	2.1	329.7		2.31	0.00	0.00	110.11		10.35	18.92	83.84	86.68	12-Feb-19 22:00:00		**12.66**	**18.92**	**83.84**	**196.79**
12-Feb-19 23:00:00	13-Feb-19 00:00:00		19.10	0.00	0.00	335.86	2.1	329.7		6.30	0.00	0.00	110.73		10.35	18.92	83.84	86.68	12-Feb-19 23:00:00		**16.65**	**18.92**	**83.84**	**197.41**
13-Feb-19 00:00:00	13-Feb-19 01:00:00		22.78	0.00	0.00	336.24	2.1	329.7		7.51	0.00	0.00	110.86		10.35	18.92	83.84	86.68	13-Feb-19 00:00:00		**17.86**	**18.92**	**83.84**	**197.54**
13-Feb-19 01:00:00	13-Feb-19 02:00:00		1.70	0.00	0.00	336.15	2.1	329.7		0.56	0.00	0.00	110.83		10.35	18.92	83.84	86.68	13-Feb-19 01:00:00		**10.91**	**18.92**	**83.84**	**197.51**
13-Feb-19 02:00:00	13-Feb-19 03:00:00		5.61	0.00	0.00	336.06	2.1	329.7		1.85	0.00	0.00	110.80		10.35	18.92	83.84	86.68	13-Feb-19 02:00:00		**12.20**	**18.92**	**83.84**	**197.48**
13-Feb-19 03:00:00	13-Feb-19 04:00:00		11.27	0.00	0.00	336.04	2.1	329.7		3.72	0.00	0.00	110.79		10.35	18.92	83.84	86.68	13-Feb-19 03:00:00		**14.07**	**18.92**	**83.84**	**197.47**
13-Feb-19 04:00:00	13-Feb-19 05:00:00		11.42	0.00	0.00	336.28	2.1	329.7		3.77	0.00	0.00	110.87		10.35	18.92	83.84	86.68	13-Feb-19 04:00:00		**14.12**	**18.92**	**83.84**	**197.55**
13-Feb-19 05:00:00	13-Feb-19 06:00:00		5.99	0.00	0.00	336.53	2.1	329.7		1.97	0.00	0.00	110.95		10.35	18.92	83.84	86.68	13-Feb-19 05:00:00		**12.32**	**18.92**	**83.84**	**197.63**
13-Feb-19 06:00:00	13-Feb-19 07:00:00		4.74	0.00	0.00	247.92	2.1	329.7		1.56	0.00	0.00	81.74		10.35	18.92	83.84	86.68	13-Feb-19 06:00:00		**11.91**	**18.92**	**83.84**	**168.42**
13-Feb-19 07:00:00	13-Feb-19 08:00:00		1.57	0.00	0.00	7.75	2.1	329.7		0.52	0.00	0.00	2.55		10.35	18.92	83.84	86.68	13-Feb-19 07:00:00		**10.87**	**18.92**	**83.84**	**89.23**
13-Feb-19 08:00:00	13-Feb-19 09:00:00		9.61	0.00	0.00	7.69	2.1	329.7		3.17	0.00	0.00	2.54		10.35	18.92	83.84	86.68	13-Feb-19 08:00:00		**13.52**	**18.92**	**83.84**	**89.22**
13-Feb-19 09:00:00	13-Feb-19 10:00:00		9.13	0.00	0.00	7.63	2.1	329.7		3.01	0.00	0.00	2.52		10.35	18.92	83.84	86.68	13-Feb-19 09:00:00		**13.36**	**18.92**	**83.84**	**89.20**
13-Feb-19 10:00:00	13-Feb-19 11:00:00		8.55	0.00	0.00	7.56	2.1	329.7		2.82	0.00	0.00	2.49		10.35	18.92	83.84	86.68	13-Feb-19 10:00:00		**13.17**	**18.92**	**83.84**	**89.17**
13-Feb-19 11:00:00	13-Feb-19 12:00:00		10.59	0.00	0.00	7.34	2.1	329.7		3.49	0.00	0.00	2.42		10.35	18.92	83.84	86.68	13-Feb-19 11:00:00		**13.84**	**18.92**	**83.84**	**89.10**
13-Feb-19 12:00:00	13-Feb-19 13:00:00		3.49	0.00	0.00	7.10	2.1	329.7		1.15	0.00	0.00	2.34		10.35	18.92	83.84	86.68	13-Feb-19 12:00:00		**11.50**	**18.92**	**83.84**	**89.02**
13-Feb-19 13:00:00	13-Feb-19 14:00:00		5.04	0.00	0.00	6.86	2.1	329.7		1.66	0.00	0.00	2.26		10.35	18.92	83.84	86.68	13-Feb-19 13:00:00		**12.01**	**18.92**	**83.84**	**88.94**
13-Feb-19 14:00:00	13-Feb-19 15:00:00		1.53	0.00	0.00	6.64	2.1	329.7		0.51	0.00	0.00	2.19		10.35	18.92	83.84	86.68	13-Feb-19 14:00:00		**10.86**	**18.92**	**83.84**	**88.87**
13-Feb-19 15:00:00	13-Feb-19 16:00:00		5.14	0.00	0.00	6.59	2.1	329.7		1.70	0.00	0.00	2.17		10.35	18.92	83.84	86.68	13-Feb-19 15:00:00		**12.05**	**18.92**	**83.84**	**88.85**
13-Feb-19 16:00:00	13-Feb-19 17:00:00		3.06	0.00	0.00	6.51	2.1	329.7		1.01	0.00	0.00	2.15		10.35	18.92	83.84	86.68	13-Feb-19 16:00:00		**11.36**	**18.92**	**83.84**	**88.83**
13-Feb-19 17:00:00	13-Feb-19 18:00:00		1.36	0.00	0.00	6.44	2.1	329.7		0.45	0.00	0.00	2.12		10.35	18.92	83.84	86.68	13-Feb-19 17:00:00		**10.80**	**18.92**	**83.84**	**88.80**
13-Feb-19 18:00:00	13-Feb-19 19:00:00		0.77	0.00	0.00	6.37	2.1	329.7		0.25	0.00	0.00	2.10		10.35	18.92	83.84	86.68	13-Feb-19 18:00:00		**10.60**	**18.92**	**83.84**	**88.78**
13-Feb-19 19:00:00	13-Feb-19 20:00:00		0.43	0.00	0.00	6.46	2.1	329.7		0.14	0.00	0.00	2.13		10.35	18.92	83.84	86.68	13-Feb-19 19:00:00		**10.49**	**18.92**	**83.84**	**88.81**
13-Feb-19 20:00:00	13-Feb-19 21:00:00		0.71	109.17	0.00	6.60	2.1	329.7		0.23	35.99	0.00	2.18		10.35	18.92	83.84	86.68	13-Feb-19 20:00:00		**10.58**	**54.91**	**83.84**	**88.86**
13-Feb-19 21:00:00	13-Feb-19 22:00:00		0.52	591.22	0.00	6.75	2.1	329.7		0.17	194.93	0.00	2.22		10.35	18.92	83.84	86.68	13-Feb-19 21:00:00		**10.52**	**213.85**	**83.84**	**88.90**
13-Feb-19 22:00:00	13-Feb-19 23:00:00		1.57	1,017.84	0.00	6.87	2.1	329.7		0.52	335.58	0.00	2.27		10.35	18.92	83.84	86.68	13-Feb-19 22:00:00		**10.87**	**354.50**	**83.84**	**88.95**
13-Feb-19 23:00:00	14-Feb-19 00:00:00		4.39	1,526.59	0.00	6.98	2.1	329.7		1.45	503.32	0.00	2.30		10.35	18.92	83.84	86.68	13-Feb-19 23:00:00		**11.80**	**522.24**	**83.84**	**88.98**
14-Feb-19 00:00:00	14-Feb-19 01:00:00		9.96	1,526.60	0.00	7.14	2.1	329.7		3.28	503.32	0.00	2.35		10.35	18.92	83.84	86.68	14-Feb-19 00:00:00		**13.63**	**522.24**	**83.84**	**89.03**
14-Feb-19 01:00:00	14-Feb-19 02:00:00		38.04	1,159.49	0.00	7.31	2.1	329.7		12.54	382.28	0.00	2.41		10.35	18.92	83.84	86.68	14-Feb-19 01:00:00		**22.89**	**401.20**	**83.84**	**89.09**
14-Feb-19 02:00:00	14-Feb-19 03:00:00		4.97	651.65	0.00	7.48	2.1	329.7		1.64	214.85	0.00	2.47		10.35	18.92	83.84	86.68	14-Feb-19 02:00:00		**11.99**	**233.77**	**83.84**	**89.15**
14-Feb-19 03:00:00	14-Feb-19 04:00:00		3.82	302.08	0.00	7.64	2.1	329.7		1.26	99.60	0.00	2.52		10.35	18.92	83.84	86.68	14-Feb-19 03:00:00		**11.61**	**118.52**	**83.84**	**89.20**
14-Feb-19 04:00:00	14-Feb-19 05:00:00		3.10	452.72	0.00	7.73	2.1	329.7		1.02	149.26	0.00	2.55		10.35	18.92	83.84	86.68	14-Feb-19 04:00:00		**11.37**	**168.18**	**83.84**	**89.23**
14-Feb-19 05:00:00	14-Feb-19 06:00:00		3.83	944.23	0.00	7.82	2.1	329.7		1.26	311.31	0.00	2.58		10.35	18.92	83.84	86.68	14-Feb-19 05:00:00		**11.61**	**330.23**	**83.84**	**89.26**
14-Feb-19 06:00:00	14-Feb-19 07:00:00		12.52	943.45	0.00	7.86	2.1	329.7		4.13	311.05	0.00	2.59		10.35	18.92	83.84	86.68	14-Feb-19 06:00:00		**14.48**	**329.97**	**83.84**	**89.27**
14-Feb-19 07:00:00	14-Feb-19 08:00:00		23.88	944.73	0.00	7.49	2.1	329.7		7.87	311.48	0.00	2.47		10.35	18.92	83.84	86.68	14-Feb-19 07:00:00		**18.22**	**330.40**	**83.84**	**89.15**
14-Feb-19 08:00:00	14-Feb-19 09:00:00		3.47	941.53	0.00	7.19	2.1	329.7		1.14	310.42	0.00	2.37		10.35	18.92	83.84	86.68	14-Feb-19 08:00:00		**11.49**	**329.34**	**83.84**	**89.05**
14-Feb-19 09:00:00	14-Feb-19 10:00:00		3.78	502.19	0.00	6.88	2.1	329.7		1.25	165.57	0.00	2.27		10.35	18.92	83.84	86.68	14-Feb-19 09:00:00		**11.60**	**184.49**	**83.84**	**88.95**
14-Feb-19 10:00:00	14-Feb-19 11:00:00		6.14	0.00	0.00	6.56	2.1	329.7		2.03	0.00	0.00	2.16		10.35	18.92	83.84	86.68	14-Feb-19 10:00:00		**12.38**	**18.92**	**83.84**	**88.84**
14-Feb-19 11:00:00	14-Feb-19 12:00:00		0.95	0.00	0.00	6.19	2.1	329.7		0.31	0.00	0.00	2.04		10.35	18.92	83.84	86.68	14-Feb-19 11:00:00		**10.66**	**18.92**	**83.84**	**88.72**
14-Feb-19 12:00:00	14-Feb-19 13:00:00		0.08	0.00	0.00	5.94	2.1	329.7		0.03	0.00	0.00	1.96		10.35	18.92	83.84	86.68	14-Feb-19 12:00:00		**10.38**	**18.92**	**83.84**	**88.64**
14-Feb-19 13:00:00	14-Feb-19 14:00:00		0.00	0.00	0.00	5.69	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	14-Feb-19 13:00:00		**10.35**	**18.92**	**83.84**	**88.56**
14-Feb-19 14:00:00	14-Feb-19 15:00:00		0.84	0.00	0.00	5.45	2.1	329.7		0.28	0.00	0.00	1.80		10.35	18.92	83.84	86.68	14-Feb-19 14:00:00		**10.63**	**18.92**	**83.84**	**88.48**
14-Feb-19 15:00:00	14-Feb-19 16:00:00		18.45	0.00	0.00	5.45	2.1	329.7		6.08	0.00	0.00	1.80		10.35	18.92	83.84	86.68	14-Feb-19 15:00:00		**16.43**	**18.92**	**83.84**	**88.48**
14-Feb-19 16:00:00	14-Feb-19 17:00:00		26.87	0.00	0.00	5.56	2.1	329.7		8.86	0.00	0.00	1.83		10.35	18.92	83.84	86.68	14-Feb-19 16:00:00		**19.21**	**18.92**	**83.84**	**88.51**
14-Feb-19 17:00:00	14-Feb-19 18:00:00		18.62	0.00	0.00	5.66	2.1	329.7		6.14	0.00	0.00	1.87		10.35	18.92	83.84	86.68	14-Feb-19 17:00:00		**16.49**	**18.92**	**83.84**	**88.55**
14-Feb-19 18:00:00	14-Feb-19 19:00:00		9.87	0.00	0.00	5.77	2.1	329.7		3.25	0.00	0.00	1.90		10.35	18.92	83.84	86.68	14-Feb-19 18:00:00		**13.60**	**18.92**	**83.84**	**88.58**
14-Feb-19 19:00:00	14-Feb-19 20:00:00		8.77	0.00	0.00	5.93	2.1	329.7		2.89	0.00	0.00	1.95		10.35	18.92	83.84	86.68	14-Feb-19 19:00:00		**13.24**	**18.92**	**83.84**	**88.63**
14-Feb-19 20:00:00	14-Feb-19 21:00:00		11.53	0.00	0.00	6.05	2.1	329.7		3.80	0.00	0.00	1.99		10.35	18.92	83.84	86.68	14-Feb-19 20:00:00		**14.15**	**18.92**	**83.84**	**88.67**
14-Feb-19 21:00:00	14-Feb-19 22:00:00		11.38	0.00	0.00	6.17	2.1	329.7		3.75	0.00	0.00	2.03		10.35	18.92	83.84	86.68	14-Feb-19 21:00:00		**14.10**	**18.92**	**83.84**	**88.71**
14-Feb-19 22:00:00	14-Feb-19 23:00:00		10.58	0.00	0.00	6.30	2.1	329.7		3.49	0.00	0.00	2.08		10.35	18.92	83.84	86.68	14-Feb-19 22:00:00		**13.84**	**18.92**	**83.84**	**88.76**
14-Feb-19 23:00:00	15-Feb-19 00:00:00		24.28	0.00	0.00	6.43	2.1	329.7		8.01	0.00	0.00	2.12		10.35	18.92	83.84	86.68	14-Feb-19 23:00:00		**18.36**	**18.92**	**83.84**	**88.80**
15-Feb-19 00:00:00	15-Feb-19 01:00:00		13.48	0.00	0.00	6.44	2.1	329.7		4.44	0.00	0.00	2.12		10.35	18.92	83.84	86.68	15-Feb-19 00:00:00		**14.79**	**18.92**	**83.84**	**88.80**
15-Feb-19 01:00:00	15-Feb-19 02:00:00		1.47	0.00	0.00	6.45	2.1	329.7		0.49	0.00	0.00	2.13		10.35	18.92	83.84	86.68	15-Feb-19 01:00:00		**10.84**	**18.92**	**83.84**	**88.81**
15-Feb-19 02:00:00	15-Feb-19 03:00:00		2.11	0.00	0.00	6.46	2.1	329.7		0.69	0.00	0.00	2.13		10.35	18.92	83.84	86.68	15-Feb-19 02:00:00		**11.04**	**18.92**	**83.84**	**88.81**
15-Feb-19 03:00:00	15-Feb-19 04:00:00		2.31	0.00	0.00	6.49	2.1	329.7		0.76	0.00	0.00	2.14		10.35	18.92	83.84	86.68	15-Feb-19 03:00:00		**11.11**	**18.92**	**83.84**	**88.82**
15-Feb-19 04:00:00	15-Feb-19 05:00:00		2.15	0.00	0.00	6.62	2.1	329.7		0.71	0.00	0.00	2.18		10.35	18.92	83.84	86.68	15-Feb-19 04:00:00		**11.06**	**18.92**	**83.84**	**88.86**
15-Feb-19 05:00:00	15-Feb-19 06:00:00		2.28	0.00	0.00	6.76	2.1	329.7		0.75	0.00	0.00	2.23		10.35	18.92	83.84	86.68	15-Feb-19 05:00:00		**11.10**	**18.92**	**83.84**	**88.91**
15-Feb-19 06:00:00	15-Feb-19 07:00:00		2.41	0.00	0.00	6.90	2.1	329.7		0.79	0.00	0.00	2.27		10.35	18.92	83.84	86.68	15-Feb-19 06:00:00		**11.14**	**18.92**	**83.84**	**88.95**
15-Feb-19 07:00:00	15-Feb-19 08:00:00		1.69	0.00	0.00	6.85	2.1	329.7		0.56	0.00	0.00	2.26		10.35	18.92	83.84	86.68	15-Feb-19 07:00:00		**10.91**	**18.92**	**83.84**	**88.94**
15-Feb-19 08:00:00	15-Feb-19 09:00:00		1.12	0.00	0.00	6.71	2.1	329.7		0.37	0.00	0.00	2.21		10.35	18.92	83.84	86.68	15-Feb-19 08:00:00		**10.72**	**18.92**	**83.84**	**88.89**
15-Feb-19 09:00:00	15-Feb-19 10:00:00		0.00	0.00	0.00	6.57	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	15-Feb-19 09:00:00		**10.35**	**18.92**	**83.84**	**88.85**
15-Feb-19 10:00:00	15-Feb-19 11:00:00		0.45	0.00	0.00	6.43	2.1	329.7		0.15	0.00	0.00	2.12		10.35	18.92	83.84	86.68	15-Feb-19 10:00:00		**10.50**	**18.92**	**83.84**	**88.80**
15-Feb-19 11:00:00	15-Feb-19 12:00:00		0.87	0.00	0.00	6.29	2.1	329.7		0.29	0.00	0.00	2.07		10.35	18.92	83.84	86.68	15-Feb-19 11:00:00		**10.64**	**18.92**	**83.84**	**88.75**
15-Feb-19 12:00:00	15-Feb-19 13:00:00		6.81	0.00	0.00	6.15	2.1	329.7		2.24	0.00	0.00	2.03		10.35	18.92	83.84	86.68	15-Feb-19 12:00:00		**12.59**	**18.92**	**83.84**	**88.71**
15-Feb-19 13:00:00	15-Feb-19 14:00:00		2.26	0.00	0.00	6.02	2.1	329.7		0.74	0.00	0.00	1.98		10.35	18.92	83.84	86.68	15-Feb-19 13:00:00		**11.09**	**18.92**	**83.84**	**88.66**
15-Feb-19 14:00:00	15-Feb-19 15:00

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
17-Feb-19 16:00:00	17-Feb-19 17:00:00		10.49	0.00	0.00	7.48	2.1	329.7		3.46	0.00	0.00	2.47		10.35	18.92	83.84	86.68	17-Feb-19 16:00:00		**13.81**	**18.92**	**83.84**	**89.15**
17-Feb-19 17:00:00	17-Feb-19 18:00:00		12.08	0.00	0.00	7.46	2.1	329.7		3.98	0.00	0.00	2.46		10.35	18.92	83.84	86.68	17-Feb-19 17:00:00		**14.33**	**18.92**	**83.84**	**89.14**
17-Feb-19 18:00:00	17-Feb-19 19:00:00		8.26	0.00	0.00	7.36	2.1	329.7		2.72	0.00	0.00	2.43		10.35	18.92	83.84	86.68	17-Feb-19 18:00:00		**13.07**	**18.92**	**83.84**	**89.11**
17-Feb-19 19:00:00	17-Feb-19 20:00:00		1.31	0.00	0.00	7.30	2.1	329.7		0.43	0.00	0.00	2.41		10.35	18.92	83.84	86.68	17-Feb-19 19:00:00		**10.78**	**18.92**	**83.84**	**89.09**
17-Feb-19 20:00:00	17-Feb-19 21:00:00		4.17	0.00	0.00	7.23	2.1	329.7		1.38	0.00	0.00	2.38		10.35	18.92	83.84	86.68	17-Feb-19 20:00:00		**11.73**	**18.92**	**83.84**	**89.06**
17-Feb-19 21:00:00	17-Feb-19 22:00:00		9.40	0.00	0.00	7.23	2.1	329.7		3.10	0.00	0.00	2.38		10.35	18.92	83.84	86.68	17-Feb-19 21:00:00		**13.45**	**18.92**	**83.84**	**89.06**
17-Feb-19 22:00:00	17-Feb-19 23:00:00		7.60	0.00	0.00	7.20	2.1	329.7		2.51	0.00	0.00	2.37		10.35	18.92	83.84	86.68	17-Feb-19 22:00:00		**12.86**	**18.92**	**83.84**	**89.05**
17-Feb-19 23:00:00	18-Feb-19 00:00:00		8.96	0.00	0.00	7.12	2.1	329.7		2.95	0.00	0.00	2.35		10.35	18.92	83.84	86.68	17-Feb-19 23:00:00		**13.30**	**18.92**	**83.84**	**89.03**
18-Feb-19 00:00:00	18-Feb-19 01:00:00		15.88	0.00	0.00	7.03	2.1	329.7		5.24	0.00	0.00	2.32		10.35	18.92	83.84	86.68	18-Feb-19 00:00:00		**15.59**	**18.92**	**83.84**	**89.00**
18-Feb-19 01:00:00	18-Feb-19 02:00:00		15.01	0.00	0.00	6.95	2.1	329.7		4.95	0.00	0.00	2.29		10.35	18.92	83.84	86.68	18-Feb-19 01:00:00		**15.30**	**18.92**	**83.84**	**88.97**
18-Feb-19 02:00:00	18-Feb-19 03:00:00		14.04	0.00	0.00	7.02	2.1	329.7		4.63	0.00	0.00	2.32		10.35	18.92	83.84	86.68	18-Feb-19 02:00:00		**14.98**	**18.92**	**83.84**	**89.00**
18-Feb-19 03:00:00	18-Feb-19 04:00:00		11.61	0.00	0.00	7.13	2.1	329.7		3.83	0.00	0.00	2.35		10.35	18.92	83.84	86.68	18-Feb-19 03:00:00		**14.18**	**18.92**	**83.84**	**89.03**
18-Feb-19 04:00:00	18-Feb-19 05:00:00		2.19	0.00	0.00	7.24	2.1	329.7		0.72	0.00	0.00	2.39		10.35	18.92	83.84	86.68	18-Feb-19 04:00:00		**11.07**	**18.92**	**83.84**	**89.07**
18-Feb-19 05:00:00	18-Feb-19 06:00:00		1.23	0.00	0.00	7.22	2.1	329.7		0.41	0.00	0.00	2.38		10.35	18.92	83.84	86.68	18-Feb-19 05:00:00		**10.76**	**18.92**	**83.84**	**89.06**
18-Feb-19 06:00:00	18-Feb-19 07:00:00		0.80	0.00	0.00	7.18	2.1	329.7		0.26	0.00	0.00	2.37		10.35	18.92	83.84	86.68	18-Feb-19 06:00:00		**10.61**	**18.92**	**83.84**	**89.05**
18-Feb-19 07:00:00	18-Feb-19 08:00:00		0.36	0.00	0.00	7.22	2.1	329.7		0.12	0.00	0.00	2.38		10.35	18.92	83.84	86.68	18-Feb-19 07:00:00		**10.47**	**18.92**	**83.84**	**89.06**
18-Feb-19 08:00:00	18-Feb-19 09:00:00		0.02	0.00	0.00	7.27	2.1	329.7		0.01	0.00	0.00	2.40		10.35	18.92	83.84	86.68	18-Feb-19 08:00:00		**10.36**	**18.92**	**83.84**	**89.08**
18-Feb-19 09:00:00	18-Feb-19 10:00:00		0.00	0.00	0.00	7.27	2.1	329.7		0.00	0.00	0.00	2.40		10.35	18.92	83.84	86.68	18-Feb-19 09:00:00		**10.35**	**18.92**	**83.84**	**89.08**
18-Feb-19 10:00:00	18-Feb-19 11:00:00		0.12	0.00	0.00	6.94	2.1	329.7		0.04	0.00	0.00	2.29		10.35	18.92	83.84	86.68	18-Feb-19 10:00:00		**10.39**	**18.92**	**83.84**	**88.97**
18-Feb-19 11:00:00	18-Feb-19 12:00:00		8.02	0.00	0.00	6.55	2.1	329.7		2.64	0.00	0.00	2.16		10.35	18.92	83.84	86.68	18-Feb-19 11:00:00		**12.99**	**18.92**	**83.84**	**88.84**
18-Feb-19 12:00:00	18-Feb-19 13:00:00		1.67	0.00	0.00	6.16	2.1	329.7		0.55	0.00	0.00	2.03		10.35	18.92	83.84	86.68	18-Feb-19 12:00:00		**10.90**	**18.92**	**83.84**	**88.71**
18-Feb-19 13:00:00	18-Feb-19 14:00:00		3.88	0.00	0.00	5.80	2.1	329.7		1.28	0.00	0.00	1.91		10.35	18.92	83.84	86.68	18-Feb-19 13:00:00		**11.63**	**18.92**	**83.84**	**88.59**
18-Feb-19 14:00:00	18-Feb-19 15:00:00		10.81	0.00	0.00	5.67	2.1	329.7		3.56	0.00	0.00	1.87		10.35	18.92	83.84	86.68	18-Feb-19 14:00:00		**13.91**	**18.92**	**83.84**	**88.55**
18-Feb-19 15:00:00	18-Feb-19 16:00:00		11.61	0.00	0.00	5.57	2.1	329.7		3.83	0.00	0.00	1.84		10.35	18.92	83.84	86.68	18-Feb-19 15:00:00		**14.18**	**18.92**	**83.84**	**88.52**
18-Feb-19 16:00:00	18-Feb-19 17:00:00		3.89	0.00	0.00	5.47	2.1	329.7		1.28	0.00	0.00	1.80		10.35	18.92	83.84	86.68	18-Feb-19 16:00:00		**11.63**	**18.92**	**83.84**	**88.48**
18-Feb-19 17:00:00	18-Feb-19 18:00:00		0.18	0.00	0.00	5.43	2.1	329.7		0.06	0.00	0.00	1.79		10.35	18.92	83.84	86.68	18-Feb-19 17:00:00		**10.41**	**18.92**	**83.84**	**88.47**
18-Feb-19 18:00:00	18-Feb-19 19:00:00		0.39	0.00	0.00	5.55	2.1	329.7		0.13	0.00	0.00	1.83		10.35	18.92	83.84	86.68	18-Feb-19 18:00:00		**10.48**	**18.92**	**83.84**	**88.51**
18-Feb-19 19:00:00	18-Feb-19 20:00:00		1.57	0.00	0.00	5.67	2.1	329.7		0.52	0.00	0.00	1.87		10.35	18.92	83.84	86.68	18-Feb-19 19:00:00		**10.87**	**18.92**	**83.84**	**88.55**
18-Feb-19 20:00:00	18-Feb-19 21:00:00		7.00	0.00	0.00	5.78	2.1	329.7		2.31	0.00	0.00	1.91		10.35	18.92	83.84	86.68	18-Feb-19 20:00:00		**12.66**	**18.92**	**83.84**	**88.59**
18-Feb-19 21:00:00	18-Feb-19 22:00:00		4.34	0.00	0.00	5.86	2.1	329.7		1.43	0.00	0.00	1.93		10.35	18.92	83.84	86.68	18-Feb-19 21:00:00		**11.78**	**18.92**	**83.84**	**88.61**
18-Feb-19 22:00:00	18-Feb-19 23:00:00		3.26	0.00	0.00	6.04	2.1	329.7		1.07	0.00	0.00	1.99		10.35	18.92	83.84	86.68	18-Feb-19 22:00:00		**11.42**	**18.92**	**83.84**	**88.67**
18-Feb-19 23:00:00	19-Feb-19 00:00:00		3.20	0.00	0.00	6.28	2.1	329.7		1.06	0.00	0.00	2.07		10.35	18.92	83.84	86.68	18-Feb-19 23:00:00		**11.41**	**18.92**	**83.84**	**88.75**
19-Feb-19 00:00:00	19-Feb-19 01:00:00		6.84	0.00	0.00	6.52	2.1	329.7		2.26	0.00	0.00	2.15		10.35	18.92	83.84	86.68	19-Feb-19 00:00:00		**12.61**	**18.92**	**83.84**	**88.83**
19-Feb-19 01:00:00	19-Feb-19 02:00:00		8.01	0.00	0.00	6.78	2.1	329.7		2.64	0.00	0.00	2.23		10.35	18.92	83.84	86.68	19-Feb-19 01:00:00		**12.99**	**18.92**	**83.84**	**88.91**
19-Feb-19 02:00:00	19-Feb-19 03:00:00		3.57	0.00	0.00	6.97	2.1	329.7		1.18	0.00	0.00	2.30		10.35	18.92	83.84	86.68	19-Feb-19 02:00:00		**11.53**	**18.92**	**83.84**	**88.98**
19-Feb-19 03:00:00	19-Feb-19 04:00:00		0.59	0.00	0.00	7.13	2.1	329.7		0.19	0.00	0.00	2.35		10.35	18.92	83.84	86.68	19-Feb-19 03:00:00		**10.54**	**18.92**	**83.84**	**89.03**
19-Feb-19 04:00:00	19-Feb-19 05:00:00		5.18	0.00	0.00	7.28	2.1	329.7		1.71	0.00	0.00	2.40		10.35	18.92	83.84	86.68	19-Feb-19 04:00:00		**12.06**	**18.92**	**83.84**	**89.08**
19-Feb-19 05:00:00	19-Feb-19 06:00:00		5.56	0.00	0.00	7.40	2.1	329.7		1.83	0.00	0.00	2.44		10.35	18.92	83.84	86.68	19-Feb-19 05:00:00		**12.18**	**18.92**	**83.84**	**89.12**
19-Feb-19 06:00:00	19-Feb-19 07:00:00		12.13	0.00	0.00	7.43	2.1	329.7		4.00	0.00	0.00	2.45		10.35	18.92	83.84	86.68	19-Feb-19 06:00:00		**14.35**	**18.92**	**83.84**	**89.13**
19-Feb-19 07:00:00	19-Feb-19 08:00:00		18.84	0.00	0.00	7.46	2.1	329.7		6.21	0.00	0.00	2.46		10.35	18.92	83.84	86.68	19-Feb-19 07:00:00		**16.56**	**18.92**	**83.84**	**89.14**
19-Feb-19 08:00:00	19-Feb-19 09:00:00		17.40	0.00	0.00	7.48	2.1	329.7		5.74	0.00	0.00	2.47		10.35	18.92	83.84	86.68	19-Feb-19 08:00:00		**16.09**	**18.92**	**83.84**	**89.15**
19-Feb-19 09:00:00	19-Feb-19 10:00:00		37.16	0.00	28.89	7.50	2.1	329.7		12.25	0.00	9.53	2.47		10.35	18.92	83.84	86.68	19-Feb-19 09:00:00		**22.60**	**18.92**	**93.37**	**89.15**
19-Feb-19 10:00:00	19-Feb-19 11:00:00		44.25	354.22	301.53	7.40	2.1	329.7		14.59	116.79	99.41	2.44		10.35	18.92	83.84	86.68	19-Feb-19 10:00:00		**24.94**	**135.71**	**183.25**	**89.12**
19-Feb-19 11:00:00	19-Feb-19 12:00:00		55.58	599.15	245.68	7.29	2.1	329.7		18.33	197.54	81.00	2.40		10.35	18.92	83.84	86.68	19-Feb-19 11:00:00		**28.68**	**216.46**	**164.84**	**89.08**
19-Feb-19 12:00:00	19-Feb-19 13:00:00		53.02	1,217.54	113.03	7.17	2.1	329.7		17.48	401.42	37.27	2.36		10.35	18.92	83.84	86.68	19-Feb-19 12:00:00		**27.83**	**420.34**	**121.11**	**89.04**
19-Feb-19 13:00:00	19-Feb-19 14:00:00		51.52	374.27	0.00	7.10	2.1	329.7		16.98	123.40	0.00	2.34		10.35	18.92	83.84	86.68	19-Feb-19 13:00:00		**27.33**	**142.32**	**83.84**	**89.02**
19-Feb-19 14:00:00	19-Feb-19 15:00:00		48.05	0.00	0.00	7.24	2.1	329.7		15.84	0.00	0.00	2.39		10.35	18.92	83.84	86.68	19-Feb-19 14:00:00		**26.19**	**18.92**	**83.84**	**89.07**
19-Feb-19 15:00:00	19-Feb-19 16:00:00		38.39	0.00	0.00	7.41	2.1	329.7		12.66	0.00	0.00	2.44		10.35	18.92	83.84	86.68	19-Feb-19 15:00:00		**23.01**	**18.92**	**83.84**	**89.12**
19-Feb-19 16:00:00	19-Feb-19 17:00:00		3.30	0.00	0.00	7.58	2.1	329.7		1.09	0.00	0.00	2.50		10.35	18.92	83.84	86.68	19-Feb-19 16:00:00		**11.44**	**18.92**	**83.84**	**89.18**
19-Feb-19 17:00:00	19-Feb-19 18:00:00		13.89	0.00	0.00	7.68	2.1	329.7		4.58	0.00	0.00	2.53		10.35	18.92	83.84	86.68	19-Feb-19 17:00:00		**14.93**	**18.92**	**83.84**	**89.21**
19-Feb-19 18:00:00	19-Feb-19 19:00:00		4.82	0.00	0.00	7.64	2.1	329.7		1.59	0.00	0.00	2.52		10.35	18.92	83.84	86.68	19-Feb-19 18:00:00		**11.94**	**18.92**	**83.84**	**89.20**
19-Feb-19 19:00:00	19-Feb-19 20:00:00		6.95	0.00	0.00	7.63	2.1	329.7		2.29	0.00	0.00	2.52		10.35	18.92	83.84	86.68	19-Feb-19 19:00:00		**12.64**	**18.92**	**83.84**	**89.20**
19-Feb-19 20:00:00	19-Feb-19 21:00:00		5.43	0.00	0.00	7.63	2.1	329.7		1.79	0.00	0.00	2.52		10.35	18.92	83.84	86.68	19-Feb-19 20:00:00		**12.14**	**18.92**	**83.84**	**89.20**
19-Feb-19 21:00:00	19-Feb-19 22:00:00		2.03	0.00	0.00	7.55	2.1	329.7		0.67	0.00	0.00	2.49		10.35	18.92	83.84	86.68	19-Feb-19 21:00:00		**11.02**	**18.92**	**83.84**	**89.17**
19-Feb-19 22:00:00	19-Feb-19 23:00:00		1.42	0.00	0.00	7.49	2.1	329.7		0.47	0.00	0.00	2.47		10.35	18.92	83.84	86.68	19-Feb-19 22:00:00		**10.82**	**18.92**	**83.84**	**89.15**
19-Feb-19 23:00:00	20-Feb-19 00:00:00		0.87	0.00	0.00	7.52	2.1	329.7		0.29	0.00	0.00	2.48		10.35	18.92	83.84	86.68	19-Feb-19 23:00:00		**10.64**	**18.92**	**83.84**	**89.16**
20-Feb-19 00:00:00	20-Feb-19 01:00:00		0.32	0.00	0.00	7.55	2.1	329.7		0.11	0.00	0.00	2.49		10.35	18.92	83.84	86.68	20-Feb-19 00:00:00		**10.46**	**18.92**	**83.84**	**89.17**
20-Feb-19 01:00:00	20-Feb-19 02:00:00		0.35	0.00	0.00	7.53	2.1	329.7		0.12	0.00	0.00	2.48		10.35	18.92	83.84	86.68	20-Feb-19 01:00:00		**10.47**	**18.92**	**83.84**	**89.16**
20-Feb-19 02:00:00	20-Feb-19 03:00:00		1.19	0.00	0.00	7.44	2.1	329.7		0.39	0.00	0.00	2.45		10.35	18.92	83.84	86.68	20-Feb-19 02:00:00		**10.74**	**18.92**	**83.84**	**89.13**
20-Feb-19 03:00:00	20-Feb-19 04:00:00		2.04	0.00	0.00	7.41	2.1	329.7		0.67	0.00	0.00	2.44		10.35	18.92	83.84	86.68	20-Feb-19 03:00:00		**11.02**	**18.92**	**83.84**	**89.12**
20-Feb-19 04:00:00	20-Feb-19 05:00:00		5.81	0.00	0.00	7.38	2.1	329.7		1.92	0.00	0.00	2.43		10.35	18.92	83.84	86.68	20-Feb-19 04:00:00		**12.27**	**18.92**	**83.84**	**89.11**
20-Feb-19 05:00:00	20-Feb-19 06:00:00		10.48	0.00	0.00	7.37	2.1	329.7		3.45	0.00	0.00	2.43		10.35	18.92	83.84	86.68	20-Feb-19 05:00:00		**13.80**	**18.92**	**83.84**	**89.11**
20-Feb-19 06:00:00	20-Feb-19 07:00:00		10.69	0.00	0.00	7.42	2.1	329.7		3.52	0.00	0.00	2.45		10.35	18.92	83.84	86.68	20-Feb-19 06:00:00		**13.87**	**18.92**	**83.84**	**89.13**
20-Feb-19 07:00:00	20-Feb-19 08:00:00		10.71	0.00	0.00	7.46	2.1	329.7		3.53	0.00	0.00	2.46		10.35	18.92	83.84	86.68	20-Feb-19 07:00:00		**13.88**	**18.92**	**83.84**	**89.14**
20-Feb-19 08:00:00	20-Feb-19 09:00:00		12.12	0.00	0.00	7.50	2.1	329.7		4.00	0.00	0.00	2.47		10.35	18.92	83.84	86.68	20-Feb-19 08:00:00		**14.35**	**18.92**	**83.84**	**89.15**
20-Feb-19 09:00:00	20-Feb-19 10:00:00		13.81	0.00	0.00	7.54	2.1	329.7		4.55	0.00	0.00	2.49		10.35	18.92	83.84	86.68	20-Feb-19 09:00:00		**14.90**	**18.92**	**83.84**	**89.17**
20-Feb-19 10:00:00	20-Feb-19 11:00:00		10.76	0.00	0.00	7.54	2.1	329.7		3.55	0.00	0.00	2.48		10.35	18.92	83.84	86.68	20-Feb-19 10:00:00		**13.90**	**18.92**	**83.84**	**89.16**
20-Feb-19 11:00:00	20-Feb-19 12:00:00		21.48	0.00	0.00	7.51	2.1	329.7		7.08	0.00	0.00	2.47		10.35	18.92	83.84	86.68	20-Feb-19 11:00:00		**17.43**	**18.92**	**83.84**	**89.15**
20-Feb-19 12:00:00	20-Feb-19 13:00:00		47.19	0.00	0.00	7.48	2.1	329.7		15.56	0.00	0.00	2.47		10.35	18.92	83.84	86.68	20-Feb-19 12:00:00		**25.91**	**18.92**	**83.84**	**89.15**
20-Feb-19 13:00:00	20-Feb-19 14:00:00		20.21	0.00	0.00	7.41	2.1	329.7		6.66	0.00	0.00	2.44		10.35	18.92	83.84	86.68	20-Feb-19 13:00:00		**17.01**	**18.92**	**83.84**	**89.12**
20-Feb-19 14:00:00	20-Feb-19 15:00:00		25.07	0.00	0.00	7.32	2.1	329.7		8.26	0.00	0.00	2.41		10.35	18.92	83.84	86.68	20-Feb-19 14:00:00		**18.61**	**18.92**	**83.84**	**89.09**
20-Feb-19 15:00:00	20-Feb-19 16:00:00		18.97	0.00	0.00	7.27	2.1	329.7		6.26	0.00	0.00	2.40		10.35	18.92	83.84	86.68	20-Feb-19 15:00:00		**16.61**	**18.92**	**83.84**	**89.08**
20-Feb-19 16:00:00	20-Feb-19 17:00:00		10.86	0.00	0.00	7.23	2.1	329.7		3.58	0.00	0.00	2.38		10.35	18.92	83.84	86.68	20-Feb-19 16:00:00		**13.93**	**18.92**	**83.84**	**89.06**
20-Feb-19 17:00:00	20-Feb-19 18:00:00		11.27	0.00	0.00	7.18	2.1	329.7		3.72	0.00	0.00	2.37		10.35	18.92	83.84	86.68	20-Feb-19 17:00:00		**14.07**	**18.92**	**83.84**	**89.05**
20-Feb-19 18:00:00	20-Feb-19 19:00:00		13.55	0.00	0.00	7.16	2.1	329.7		4.47	0.00	0.00	2.36		10.35	18.92	83.84	86.68	20-Feb-19 18:00:00		**14.82**	**18.92**	**83.84**	**89.04**
20-Feb-19 19:00:00	20-Feb-19 20:00:00		17.38	0.00	0.00	7.16	2.1	329.7		5.73	0.00	0.00	2.36		10.35	18.92	83.84	86.68	20-Feb-19 19:00:00		**16.08**	**18.92**	**83.84**	**89.04**
20-Feb-19 20:00:00	20-Feb-19 21:00:00		17.48	0.00	0.00	7.16	2.1	329.7		5.76	0.00	0.00	2.36		10.35	18.92	83.84	86.68	20-Feb-19 20:00:00		**16.11**	**18.92**	**83.84**	**89.04**
20-Feb-19 21:00:00	20-Feb-19 22:00:00		12.37	0.00	0.00	7.12	2.1	329.7		4.08	0.00	0.00	2.35		10.35	18.92	83.84	86.68	20-Feb-19 21:00:00		**14.43**	**18.92**	**83.84**	**89.03**
20-Feb-19 22:00:00	20-Feb-19 23:00:00		13.51	0.00	0.00	7.01	2.1	329.7		4.46	0.00	0.00	2.31		10.35	18.92	83.84	86.68	20-Feb-19 22:00:00		**14.81**	**18.92**	**83.84**	**88.99**
20-Feb-19 23:00:00	21-Feb-19 00:00:00		14.59	0.00	0.00	6.99	2.1	329.7		4.81	0.00	0.00	2.30		10.35	18.92	83.84	86.68	20-Feb-19 23:00:00		**15.16**	**18.92**	**83.84**	**88.98**
21-Feb-19 00:00:00	21-Feb-19 01:00:00		14.32	0.00	0.00	6.96	2.1	329.7		4.72	0.00	0.00	2.29		10.35	18.92	83.84	86.68	21-Feb-19 00:00:00		**15.07**	**18.92**	**83.84**	**88.97**
21-Feb-19 01:00:00	21-Feb-19 02:00:00		13.61	0.00	0.00	6.97	2.1	329.7		4.49	0.00	0.00	2.30		10.35	18.92	83.84	86.68	21-Feb-19 01:00:00		**14.84**	**18.92**	**83.84**	**88.98**
21-Feb-19 02:00:00	21-Feb-19 03:00:00		13.93	0.00	0.00	7.04	2.1	329.7		4.59	0.00	0.00	2.32		10.35	18.92	83.84	86.68	21-Feb-19 02:00:00		**14.94**	**18.92**	**83.84**	**89.00**
21-Feb-19 03:00:00	21-Feb-19 04:00:00		14.29	0.00	0.00	7.07	2.1	329.7		4.71	0.00	0.00	2.33		10.35	18.92	83.84	86.68	21-Feb-19 03:00:00		**15.06**	**18.92**	**83.84**	**89.01**
21-Feb-19 04:00:00	21-Feb-19 05:00:00		15.20	0.00	0.00	7.10	2.1	329.7		5.01	0.00	0.00	2.34		10.35	18.92	83.84	86.68	21-Feb-19 04:00:00		**15.36**	**18.92**	**83.84**	**89.02**
21-Feb-19 05:00:00	21-Feb-19 06:00:00		15.53	0.00	0.00	7.13	2.1	329.7		5.12	0.00	0.00	2.35		10.35	18.92	83.84	86.68	21-Feb-19 05:00:00		**15.47**	**18.92**	**83.84**	**89.03**
21-Feb-19 06:00:00	21-Feb-19 07:00:00		14.37	0.00	0.00	10.62	2.1	329.7		4.74	0.00	0.00	3.50		10.35	18.92	83.84	86.68	21-Feb-19 06:00:00		**15.09**	**18.92**	**83.84**	**90.18**
21-Feb-19 07:00:00	21-Feb-19 08:00:00		14.42	0.00	0.00	7.12	2.1	329.7		4.75	0.00	0.00	2.35		10.35	18.92	83.84	86.68	21-Feb-19 07:00:00		**15.10**	**18.92**	**83.84**	**89.03**
21-Feb-19 08:00:00	21-Feb-19 09:00:00		20.35	0.00	0.00	53.43	2.1	329.7		6.71	0.00	0.00	17.62		10.35	18.92	83.84	86.68	21-Feb-19 08:00:00		**17.06**	**18.92**	**83.84**	**104.30**
21-Feb-19 09:00:00	21-Feb-19 10:00:00		23.17	0.00	0.00	6.91	2.1	329.7		7.64	0.00	0.00	2.28		10.35	18.92	83.84	86.68	21-Feb-19 09:00:00		**17.99**	**18.92**	**83.84**	**88.96**
21-Feb-19 10:00:00	21-Feb-19 11:00:00		16.13	0.00	0.00	6.64	2.1	329.7		5.32	0.00	0.00	2.19		10.35	18.92	83.84	86.68	21-Feb-19 10:00:00		**15.67**	**18.92**	**83.84**	**88.87**
21-Feb-19 11:00:00	21-Feb-19 12:00:00		3.59	0.00	0.00	6.38	2.1	329.7		1.18	0.00	0.00	2.10		10.35	18.92	83.84	86.68	21-Feb-19 11:00:00		**11.53**	**18.92**	**83.84**	**88.78**
21-Feb-19 12:00:00	21-Feb-19 13:00:00		13.54	0.00	0.00	6.09	2.1	329.7		4.46	0.00	0.00	2.01		10.35	18.92	83.84	86.68	21-Feb-19 12:00:00		**14.81**	**18.92**	**83.84**	**88.69**
21-Feb-19 13:00:00	21-Feb-19 14:00:00		2.96	0.00	0.00	5.85

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
23-Feb-19 15:00:00	23-Feb-19 16:00:00		5.41	0.00	0.00	6.93	2.1	329.7		1.78	0.00	0.00	2.28		10.35	18.92	83.84	86.68	23-Feb-19 15:00:00		**12.13**	**18.92**	**83.84**	**88.96**
23-Feb-19 16:00:00	23-Feb-19 17:00:00		4.35	0.00	0.00	6.97	2.1	329.7		1.43	0.00	0.00	2.30		10.35	18.92	83.84	86.68	23-Feb-19 16:00:00		**11.78**	**18.92**	**83.84**	**88.98**
23-Feb-19 17:00:00	23-Feb-19 18:00:00		3.81	0.00	0.00	6.91	2.1	329.7		1.26	0.00	0.00	2.28		10.35	18.92	83.84	86.68	23-Feb-19 17:00:00		**11.61**	**18.92**	**83.84**	**88.96**
23-Feb-19 18:00:00	23-Feb-19 19:00:00		4.54	0.00	0.00	6.79	2.1	329.7		1.50	0.00	0.00	2.24		10.35	18.92	83.84	86.68	23-Feb-19 18:00:00		**11.85**	**18.92**	**83.84**	**88.92**
23-Feb-19 19:00:00	23-Feb-19 20:00:00		6.18	0.00	0.00	6.68	2.1	329.7		2.04	0.00	0.00	2.20		10.35	18.92	83.84	86.68	23-Feb-19 19:00:00		**12.39**	**18.92**	**83.84**	**88.88**
23-Feb-19 20:00:00	23-Feb-19 21:00:00		6.70	0.00	0.00	6.63	2.1	329.7		2.21	0.00	0.00	2.19		10.35	18.92	83.84	86.68	23-Feb-19 20:00:00		**12.56**	**18.92**	**83.84**	**88.87**
23-Feb-19 21:00:00	23-Feb-19 22:00:00		6.94	0.00	0.00	6.64	2.1	329.7		2.29	0.00	0.00	2.19		10.35	18.92	83.84	86.68	23-Feb-19 21:00:00		**12.64**	**18.92**	**83.84**	**88.87**
23-Feb-19 22:00:00	23-Feb-19 23:00:00		7.17	0.00	0.00	6.63	2.1	329.7		2.37	0.00	0.00	2.19		10.35	18.92	83.84	86.68	23-Feb-19 22:00:00		**12.72**	**18.92**	**83.84**	**88.87**
23-Feb-19 23:00:00	24-Feb-19 00:00:00		11.48	0.00	0.00	6.62	2.1	329.7		3.79	0.00	0.00	2.18		10.35	18.92	83.84	86.68	23-Feb-19 23:00:00		**14.14**	**18.92**	**83.84**	**88.86**
24-Feb-19 00:00:00	24-Feb-19 01:00:00		5.98	0.00	0.00	6.69	2.1	329.7		1.97	0.00	0.00	2.20		10.35	18.92	83.84	86.68	24-Feb-19 00:00:00		**12.32**	**18.92**	**83.84**	**88.88**
24-Feb-19 01:00:00	24-Feb-19 02:00:00		29.27	0.00	0.00	6.73	2.1	329.7		9.65	0.00	0.00	2.22		10.35	18.92	83.84	86.68	24-Feb-19 01:00:00		**20.00**	**18.92**	**83.84**	**88.90**
24-Feb-19 02:00:00	24-Feb-19 03:00:00		3.87	0.00	0.00	6.71	2.1	329.7		1.28	0.00	0.00	2.21		10.35	18.92	83.84	86.68	24-Feb-19 02:00:00		**11.63**	**18.92**	**83.84**	**88.89**
24-Feb-19 03:00:00	24-Feb-19 04:00:00		5.58	0.00	0.00	6.70	2.1	329.7		1.84	0.00	0.00	2.21		10.35	18.92	83.84	86.68	24-Feb-19 03:00:00		**12.19**	**18.92**	**83.84**	**88.89**
24-Feb-19 04:00:00	24-Feb-19 05:00:00		6.01	0.00	0.00	6.66	2.1	329.7		1.98	0.00	0.00	2.20		10.35	18.92	83.84	86.68	24-Feb-19 04:00:00		**12.33**	**18.92**	**83.84**	**88.88**
24-Feb-19 05:00:00	24-Feb-19 06:00:00		6.45	0.00	0.00	6.62	2.1	329.7		2.13	0.00	0.00	2.18		10.35	18.92	83.84	86.68	24-Feb-19 05:00:00		**12.48**	**18.92**	**83.84**	**88.86**
24-Feb-19 06:00:00	24-Feb-19 07:00:00		7.95	0.00	0.00	6.60	2.1	329.7		2.62	0.00	0.00	2.18		10.35	18.92	83.84	86.68	24-Feb-19 06:00:00		**12.97**	**18.92**	**83.84**	**88.86**
24-Feb-19 07:00:00	24-Feb-19 08:00:00		8.08	0.00	0.00	6.59	2.1	329.7		2.67	0.00	0.00	2.17		10.35	18.92	83.84	86.68	24-Feb-19 07:00:00		**13.02**	**18.92**	**83.84**	**88.85**
24-Feb-19 08:00:00	24-Feb-19 09:00:00		254.54	0.00	0.00	6.58	2.1	329.7		83.92	0.00	0.00	2.17		10.35	18.92	83.84	86.68	24-Feb-19 08:00:00		**94.27**	**18.92**	**83.84**	**88.85**
24-Feb-19 09:00:00	24-Feb-19 10:00:00		471.21	115.45	0.00	6.41	2.1	329.7		155.36	38.06	0.00	2.11		10.35	18.92	83.84	86.68	24-Feb-19 09:00:00		**165.71**	**56.98**	**83.84**	**88.79**
24-Feb-19 10:00:00	24-Feb-19 11:00:00		479.74	304.22	0.00	6.20	2.1	329.7		158.17	100.30	0.00	2.04		10.35	18.92	83.84	86.68	24-Feb-19 10:00:00		**168.52**	**119.22**	**83.84**	**88.72**
24-Feb-19 11:00:00	24-Feb-19 12:00:00		414.16	304.29	0.00	5.98	2.1	329.7		136.55	100.33	0.00	1.97		10.35	18.92	83.84	86.68	24-Feb-19 11:00:00		**146.90**	**119.25**	**83.84**	**88.65**
24-Feb-19 12:00:00	24-Feb-19 13:00:00		401.43	304.36	0.00	5.74	2.1	329.7		132.35	100.35	0.00	1.89		10.35	18.92	83.84	86.68	24-Feb-19 12:00:00		**142.70**	**119.27**	**83.84**	**88.57**
24-Feb-19 13:00:00	24-Feb-19 14:00:00		414.13	304.43	0.00	5.58	2.1	329.7		136.54	100.37	0.00	1.84		10.35	18.92	83.84	86.68	24-Feb-19 13:00:00		**146.89**	**119.29**	**83.84**	**88.52**
24-Feb-19 14:00:00	24-Feb-19 15:00:00		426.67	304.50	0.00	5.46	2.1	329.7		140.67	100.39	0.00	1.80		10.35	18.92	83.84	86.68	24-Feb-19 14:00:00		**151.02**	**119.31**	**83.84**	**88.48**
24-Feb-19 15:00:00	24-Feb-19 16:00:00		438.64	304.53	0.00	5.34	2.1	329.7		144.62	100.41	0.00	1.76		10.35	18.92	83.84	86.68	24-Feb-19 15:00:00		**154.97**	**119.33**	**83.84**	**88.44**
24-Feb-19 16:00:00	24-Feb-19 17:00:00		431.41	304.00	0.00	5.25	2.1	329.7		142.24	100.23	0.00	1.73		10.35	18.92	83.84	86.68	24-Feb-19 16:00:00		**152.59**	**119.15**	**83.84**	**88.41**
24-Feb-19 17:00:00	24-Feb-19 18:00:00		428.86	304.01	0.00	5.39	2.1	329.7		141.40	100.23	0.00	1.78		10.35	18.92	83.84	86.68	24-Feb-19 17:00:00		**151.75**	**119.15**	**83.84**	**88.46**
24-Feb-19 18:00:00	24-Feb-19 19:00:00		441.99	304.20	0.00	5.56	2.1	329.7		145.72	100.30	0.00	1.83		10.35	18.92	83.84	86.68	24-Feb-19 18:00:00		**156.07**	**119.22**	**83.84**	**88.51**
24-Feb-19 19:00:00	24-Feb-19 20:00:00		305.99	255.95	0.00	5.73	2.1	329.7		100.88	84.39	0.00	1.89		10.35	18.92	83.84	86.68	24-Feb-19 19:00:00		**111.23**	**103.31**	**83.84**	**88.57**
24-Feb-19 20:00:00	24-Feb-19 21:00:00		9.18	0.00	0.00	5.90	2.1	329.7		3.03	0.00	0.00	1.94		10.35	18.92	83.84	86.68	24-Feb-19 20:00:00		**13.38**	**18.92**	**83.84**	**88.62**
24-Feb-19 21:00:00	24-Feb-19 22:00:00		65.53	0.00	0.00	6.14	2.1	329.7		21.60	0.00	0.00	2.03		10.35	18.92	83.84	86.68	24-Feb-19 21:00:00		**31.95**	**18.92**	**83.84**	**88.71**
24-Feb-19 22:00:00	24-Feb-19 23:00:00		242.15	0.00	0.00	6.41	2.1	329.7		79.84	0.00	0.00	2.11		10.35	18.92	83.84	86.68	24-Feb-19 22:00:00		**90.19**	**18.92**	**83.84**	**88.79**
24-Feb-19 23:00:00	25-Feb-19 00:00:00		246.03	0.00	0.00	6.68	2.1	329.7		81.12	0.00	0.00	2.20		10.35	18.92	83.84	86.68	24-Feb-19 23:00:00		**91.47**	**18.92**	**83.84**	**88.88**
25-Feb-19 00:00:00	25-Feb-19 01:00:00		236.75	0.00	0.00	6.96	2.1	329.7		78.06	0.00	0.00	2.29		10.35	18.92	83.84	86.68	25-Feb-19 00:00:00		**88.41**	**18.92**	**83.84**	**88.97**
25-Feb-19 01:00:00	25-Feb-19 02:00:00		224.50	0.00	0.00	7.08	2.1	329.7		74.02	0.00	0.00	2.33		10.35	18.92	83.84	86.68	25-Feb-19 01:00:00		**84.37**	**18.92**	**83.84**	**89.01**
25-Feb-19 02:00:00	25-Feb-19 03:00:00		236.75	0.00	0.00	7.15	2.1	329.7		78.06	0.00	0.00	2.36		10.35	18.92	83.84	86.68	25-Feb-19 02:00:00		**88.41**	**18.92**	**83.84**	**89.04**
25-Feb-19 03:00:00	25-Feb-19 04:00:00		248.85	0.00	0.00	7.23	2.1	329.7		82.05	0.00	0.00	2.38		10.35	18.92	83.84	86.68	25-Feb-19 03:00:00		**92.40**	**18.92**	**83.84**	**89.06**
25-Feb-19 04:00:00	25-Feb-19 05:00:00		277.26	0.00	0.00	7.38	2.1	329.7		91.41	0.00	0.00	2.43		10.35	18.92	83.84	86.68	25-Feb-19 04:00:00		**101.76**	**18.92**	**83.84**	**89.11**
25-Feb-19 05:00:00	25-Feb-19 06:00:00		328.67	259.24	0.00	7.41	2.1	329.7		108.36	85.47	0.00	2.44		10.35	18.92	83.84	86.68	25-Feb-19 05:00:00		**118.71**	**104.39**	**83.84**	**89.12**
25-Feb-19 06:00:00	25-Feb-19 07:00:00		347.16	405.25	0.00	7.37	2.1	329.7		114.46	133.61	0.00	2.43		10.35	18.92	83.84	86.68	25-Feb-19 06:00:00		**124.81**	**152.53**	**83.84**	**89.11**
25-Feb-19 07:00:00	25-Feb-19 08:00:00		316.46	0.00	0.00	7.32	2.1	329.7		104.34	0.00	0.00	2.41		10.35	18.92	83.84	86.68	25-Feb-19 07:00:00		**114.69**	**18.92**	**83.84**	**89.09**
25-Feb-19 08:00:00	25-Feb-19 09:00:00		330.27	0.00	0.00	7.35	2.1	329.7		108.89	0.00	0.00	2.42		10.35	18.92	83.84	86.68	25-Feb-19 08:00:00		**119.24**	**18.92**	**83.84**	**89.10**
25-Feb-19 09:00:00	25-Feb-19 10:00:00		325.86	0.00	0.00	6.94	2.1	329.7		107.44	0.00	0.00	2.29		10.35	18.92	83.84	86.68	25-Feb-19 09:00:00		**117.79**	**18.92**	**83.84**	**88.97**
25-Feb-19 10:00:00	25-Feb-19 11:00:00		296.71	27.17	0.00	6.36	2.1	329.7		97.83	8.96	0.00	2.10		10.35	18.92	83.84	86.68	25-Feb-19 10:00:00		**108.18**	**27.88**	**83.84**	**88.78**
25-Feb-19 11:00:00	25-Feb-19 12:00:00		111.15	301.88	0.00	5.77	2.1	329.7		36.65	99.53	0.00	1.90		10.35	18.92	83.84	86.68	25-Feb-19 11:00:00		**47.00**	**118.45**	**83.84**	**88.58**
25-Feb-19 12:00:00	25-Feb-19 13:00:00		3.13	302.69	0.00	5.23	2.1	329.7		1.03	99.80	0.00	1.73		10.35	18.92	83.84	86.68	25-Feb-19 12:00:00		**11.38**	**118.72**	**83.84**	**88.41**
25-Feb-19 13:00:00	25-Feb-19 14:00:00		0.35	294.67	0.00	5.17	2.1	329.7		0.12	97.15	0.00	1.71		10.35	18.92	83.84	86.68	25-Feb-19 13:00:00		**10.47**	**116.07**	**83.84**	**88.39**
25-Feb-19 14:00:00	25-Feb-19 15:00:00		8.68	288.72	0.00	5.21	2.1	329.7		2.86	95.19	0.00	1.72		10.35	18.92	83.84	86.68	25-Feb-19 14:00:00		**13.21**	**114.11**	**83.84**	**88.40**
25-Feb-19 15:00:00	25-Feb-19 16:00:00		33.43	373.43	0.00	5.25	2.1	329.7		11.02	123.12	0.00	1.73		10.35	18.92	83.84	86.68	25-Feb-19 15:00:00		**21.37**	**142.04**	**83.84**	**88.41**
25-Feb-19 16:00:00	25-Feb-19 17:00:00		48.81	378.01	0.00	5.33	2.1	329.7		16.09	124.63	0.00	1.76		10.35	18.92	83.84	86.68	25-Feb-19 16:00:00		**26.44**	**143.55**	**83.84**	**88.44**
25-Feb-19 17:00:00	25-Feb-19 18:00:00		30.92	379.00	0.00	5.51	2.1	329.7		10.19	124.96	0.00	1.82		10.35	18.92	83.84	86.68	25-Feb-19 17:00:00		**20.54**	**143.88**	**83.84**	**88.50**
25-Feb-19 18:00:00	25-Feb-19 19:00:00		29.31	351.91	0.00	5.67	2.1	329.7		9.66	116.03	0.00	1.87		10.35	18.92	83.84	86.68	25-Feb-19 18:00:00		**20.01**	**134.95**	**83.84**	**88.55**
25-Feb-19 19:00:00	25-Feb-19 20:00:00		14.42	350.10	0.00	5.84	2.1	329.7		4.76	115.43	0.00	1.92		10.35	18.92	83.84	86.68	25-Feb-19 19:00:00		**15.11**	**134.35**	**83.84**	**88.60**
25-Feb-19 20:00:00	25-Feb-19 21:00:00		2.38	349.23	0.00	6.06	2.1	329.7		0.78	115.14	0.00	2.00		10.35	18.92	83.84	86.68	25-Feb-19 20:00:00		**11.13**	**134.06**	**83.84**	**88.68**
25-Feb-19 21:00:00	25-Feb-19 22:00:00		27.91	349.44	0.00	6.36	2.1	329.7		9.20	115.21	0.00	2.10		10.35	18.92	83.84	86.68	25-Feb-19 21:00:00		**19.55**	**134.13**	**83.84**	**88.78**
25-Feb-19 22:00:00	25-Feb-19 23:00:00		43.06	326.59	0.00	6.63	2.1	329.7		14.20	107.68	0.00	2.19		10.35	18.92	83.84	86.68	25-Feb-19 22:00:00		**24.55**	**126.60**	**83.84**	**88.87**
25-Feb-19 23:00:00	26-Feb-19 00:00:00		28.36	912.69	0.00	6.89	2.1	329.7		9.35	300.92	0.00	2.27		10.35	18.92	83.84	86.68	25-Feb-19 23:00:00		**19.70**	**319.84**	**83.84**	**88.95**
26-Feb-19 00:00:00	26-Feb-19 01:00:00		44.55	2,748.43	0.00	7.14	2.1	329.7		14.69	906.16	0.00	2.35		10.35	18.92	83.84	86.68	26-Feb-19 00:00:00		**25.04**	**925.08**	**83.84**	**89.03**
26-Feb-19 01:00:00	26-Feb-19 02:00:00		43.52	2,789.40	0.00	7.24	2.1	329.7		14.35	919.66	0.00	2.39		10.35	18.92	83.84	86.68	26-Feb-19 01:00:00		**24.70**	**938.58**	**83.84**	**89.07**
26-Feb-19 02:00:00	26-Feb-19 03:00:00		10.85	2,643.47	0.00	7.30	2.1	329.7		3.58	871.55	0.00	2.41		10.35	18.92	83.84	86.68	26-Feb-19 02:00:00		**13.93**	**890.47**	**83.84**	**89.09**
26-Feb-19 03:00:00	26-Feb-19 04:00:00		0.00	378.10	0.00	7.37	2.1	329.7		0.00	124.66	0.00	2.43		10.35	18.92	83.84	86.68	26-Feb-19 03:00:00		**10.35**	**143.58**	**83.84**	**89.11**
26-Feb-19 04:00:00	26-Feb-19 05:00:00		0.00	0.00	0.00	7.41	2.1	329.7		0.00	0.00	0.00	2.44		10.35	18.92	83.84	86.68	26-Feb-19 04:00:00		**10.35**	**18.92**	**83.84**	**89.12**
26-Feb-19 05:00:00	26-Feb-19 06:00:00		0.00	0.00	0.00	7.36	2.1	329.7		0.00	0.00	0.00	2.43		10.35	18.92	83.84	86.68	26-Feb-19 05:00:00		**10.35**	**18.92**	**83.84**	**89.11**
26-Feb-19 06:00:00	26-Feb-19 07:00:00		0.00	0.00	0.00	7.30	2.1	329.7		0.00	0.00	0.00	2.41		10.35	18.92	83.84	86.68	26-Feb-19 06:00:00		**10.35**	**18.92**	**83.84**	**89.09**
26-Feb-19 07:00:00	26-Feb-19 08:00:00		0.35	0.00	0.00	7.24	2.1	329.7		0.11	0.00	0.00	2.39		10.35	18.92	83.84	86.68	26-Feb-19 07:00:00		**10.46**	**18.92**	**83.84**	**89.07**
26-Feb-19 08:00:00	26-Feb-19 09:00:00		1.15	0.00	0.00	6.99	2.1	329.7		0.38	0.00	0.00	2.30		10.35	18.92	83.84	86.68	26-Feb-19 08:00:00		**10.73**	**18.92**	**83.84**	**88.98**
26-Feb-19 09:00:00	26-Feb-19 10:00:00		3.07	0.00	0.00	6.46	2.1	329.7		1.01	0.00	0.00	2.13		10.35	18.92	83.84	86.68	26-Feb-19 09:00:00		**11.36**	**18.92**	**83.84**	**88.81**
26-Feb-19 10:00:00	26-Feb-19 11:00:00		24.17	0.00	0.00	6.05	2.1	329.7		7.97	0.00	0.00	1.99		10.35	18.92	83.84	86.68	26-Feb-19 10:00:00		**18.32**	**18.92**	**83.84**	**88.67**
26-Feb-19 11:00:00	26-Feb-19 12:00:00		15.25	29.38	0.00	5.63	2.1	329.7		5.03	9.69	0.00	1.86		10.35	18.92	83.84	86.68	26-Feb-19 11:00:00		**15.38**	**28.61**	**83.84**	**88.54**
26-Feb-19 12:00:00	26-Feb-19 13:00:00		0.18	31.28	0.00	5.30	2.1	329.7		0.06	10.31	0.00	1.75		10.35	18.92	83.84	86.68	26-Feb-19 12:00:00		**10.41**	**29.23**	**83.84**	**88.43**
26-Feb-19 13:00:00	26-Feb-19 14:00:00		0.48	0.00	0.00	5.57	2.1	329.7		0.16	0.00	0.00	1.84		10.35	18.92	83.84	86.68	26-Feb-19 13:00:00		**10.51**	**18.92**	**83.84**	**88.52**
26-Feb-19 14:00:00	26-Feb-19 15:00:00		9.71	0.00	0.00	5.94	2.1	329.7		3.20	0.00	0.00	1.96		10.35	18.92	83.84	86.68	26-Feb-19 14:00:00		**13.55**	**18.92**	**83.84**	**88.64**
26-Feb-19 15:00:00	26-Feb-19 16:00:00		13.15	0.00	0.00	6.32	2.1	329.7		4.33	0.00	0.00	2.08		10.35	18.92	83.84	86.68	26-Feb-19 15:00:00		**14.68**	**18.92**	**83.84**	**88.76**
26-Feb-19 16:00:00	26-Feb-19 17:00:00		29.52	0.00	0.00	6.70	2.1	329.7		9.73	0.00	0.00	2.21		10.35	18.92	83.84	86.68	26-Feb-19 16:00:00		**20.08**	**18.92**	**83.84**	**88.89**
26-Feb-19 17:00:00	26-Feb-19 18:00:00		30.21	0.00	0.00	6.56	2.1	329.7		9.96	0.00	0.00	2.16		10.35	18.92	83.84	86.68	26-Feb-19 17:00:00		**20.31**	**18.92**	**83.84**	**88.84**
26-Feb-19 18:00:00	26-Feb-19 19:00:00		28.64	0.00	0.00	6.22	2.1	329.7		9.44	0.00	0.00	2.05		10.35	18.92	83.84	86.68	26-Feb-19 18:00:00		**19.79**	**18.92**	**83.84**	**88.73**
26-Feb-19 19:00:00	26-Feb-19 20:00:00		23.93	0.00	0.00	5.88	2.1	329.7		7.89	0.00	0.00	1.94		10.35	18.92	83.84	86.68	26-Feb-19 19:00:00		**18.24**	**18.92**	**83.84**	**88.62**
26-Feb-19 20:00:00	26-Feb-19 21:00:00		2.95	0.00	0.00	5.63	2.1	329.7		0.97	0.00	0.00	1.86		10.35	18.92	83.84	86.68	26-Feb-19 20:00:00		**11.32**	**18.92**	**83.84**	**88.54**
26-Feb-19 21:00:00	26-Feb-19 22:00:00		6.75	0.00	0.00	5.68	2.1	329.7		2.23	0.00	0.00	1.87		10.35	18.92	83.84	86.68	26-Feb-19 21:00:00		**12.58**	**18.92**	**83.84**	**88.55**
26-Feb-19 22:00:00	26-Feb-19 23:00:00		2.00	0.00	0.00	5.73	2.1	329.7		0.66	0.00	0.00	1.89		10.35	18.92	83.84	86.68	26-Feb-19 22:00:00		**11.01**	**18.92**	**83.84**	**88.57**
26-Feb-19 23:00:00	27-Feb-19 00:00:00		2.99	0.00	0.00	5.78	2.1	329.7		0.99	0.00	0.00	1.91		10.35	18.92	83.84	86.68	26-Feb-19 23:00:00		**11.34**	**18.92**	**83.84**	**88.59**
27-Feb-19 00:00:00	27-Feb-19 01:00:00		1.59	0.00	0.00	5.89	2.1	329.7		0.52	0.00	0.00	1.94		10.35	18.92	83.84	86.68	27-Feb-19 00:00:00		**10.87**	**18.92**	**83.84**	**88.62**
27-Feb-19 01:00:00	27-Feb-19 02:00:00		1.00	0.00	0.00	5.95	2.1	329.7		0.33	0.00	0.00	1.96		10.35	18.92	83.84	86.68	27-Feb-19 01:00:00		**10.68**	**18.92**	**83.84**	**88.64**
27-Feb-19 02:00:00	27-Feb-19 03:00:00		0.41	0.00	0.00	5.94	2.1	329.7		0.14	0.00	0.00	1.96		10.35	18.92	83.84	86.68	27-Feb-19 02:00:00		**10.49**	**18.92**	**83.84**	**88.64**
27-Feb-19 03:00:00	27-Feb-19 04:00:00		0.01	0.00	0.00	5.92	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	27-Feb-19 03:00:00		**10.35**	**18.92**	**83.84**	**88.63**
27-Feb-19 04:00:00	27-Feb-19 05:00:00		0.00	0.00	0.00	5.93	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	27-Feb-19 04:00:00		**10.35**	**18.92**	**83.84**	**88.64**
27-Feb-19 05:00:00	27-Feb-19 06:00:00		0.00	0.00	0.00	5.97	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	27-Feb-19 05:00:00		**10.35**	**18.92**	**83.84**	**88.65**
27-Feb-19 06:00:00	27-Feb-19 07:00:00		0.00	0.00	0.00	5.98	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	27-Feb-19 06:00:00		**10.35**	**18.92**	**83.84**	**88.65**
27-Feb-19 07:00:00	27-Feb-19 08:00:00		0.00	0.00	0.00	5.99	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	27-Feb-19 07:00:00		**10.35**	**18.92**	**83.84**	**88.65**
27-Feb-19 08:00:00	27-Feb-19 09:00:00		0.00	0.00	0.00	5.91	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	27-Feb-19 08:00:00		**10.35**	**18.92**	**83.84**	**88.63**
27-Feb-19 09:00:00	27-Feb-19 10:00:00		0.00	0.00	0.00	5.70	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	27-Feb-19 09:00:00		**10.35**	**18.92**	**83.84**	**88.56**
27-Feb-19 10:00:00	27-Feb-19 11:00:00		0.00	0.00	0.00	5.56	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	27-Feb-19 10:00:00		**10.35**	**18.92**	**83.84**	**88.51**
27-Feb-19 11:00:00	27-Feb-19 12:00:00		0.00	0.00	0.00	5.41	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	27-Feb-19 11:00:00		**10.35**	**18.92**	**83.84**	**88.46**
27-Feb-19 12:00:00	27-Feb-19 13:00:00		3.71	0.00	0.00

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
01-Mar-19 14:00:00	01-Mar-19 15:00:00		0.00	0.00	0.00	70.91	2.1	329.7		0.00	0.00	0.00	23.38		10.35	18.92	83.84	86.68	01-Mar-19 14:00:00		**10.35**	**18.92**	**83.84**	**110.06**
01-Mar-19 15:00:00	01-Mar-19 16:00:00		0.00	0.00	0.00	5.70	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	01-Mar-19 15:00:00		**10.35**	**18.92**	**83.84**	**88.56**
01-Mar-19 16:00:00	01-Mar-19 17:00:00		0.00	0.00	0.00	5.57	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	01-Mar-19 16:00:00		**10.35**	**18.92**	**83.84**	**88.52**
01-Mar-19 17:00:00	01-Mar-19 18:00:00		0.00	0.00	0.00	14.91	2.1	329.7		0.00	0.00	0.00	4.92		10.35	18.92	83.84	86.68	01-Mar-19 17:00:00		**10.35**	**18.92**	**83.84**	**91.60**
01-Mar-19 18:00:00	01-Mar-19 19:00:00		0.00	0.00	0.00	6.08	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	01-Mar-19 18:00:00		**10.35**	**18.92**	**83.84**	**88.68**
01-Mar-19 19:00:00	01-Mar-19 20:00:00		0.00	0.00	0.00	6.41	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	01-Mar-19 19:00:00		**10.35**	**18.92**	**83.84**	**88.79**
01-Mar-19 20:00:00	01-Mar-19 21:00:00		0.00	0.00	0.00	6.73	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	01-Mar-19 20:00:00		**10.35**	**18.92**	**83.84**	**88.90**
01-Mar-19 21:00:00	01-Mar-19 22:00:00		0.00	0.00	0.00	6.92	2.1	329.7		0.00	0.00	0.00	2.28		10.35	18.92	83.84	86.68	01-Mar-19 21:00:00		**10.35**	**18.92**	**83.84**	**88.96**
01-Mar-19 22:00:00	01-Mar-19 23:00:00		0.89	0.00	0.00	6.92	2.1	329.7		0.29	0.00	0.00	2.28		10.35	18.92	83.84	86.68	01-Mar-19 22:00:00		**10.64**	**18.92**	**83.84**	**88.96**
01-Mar-19 23:00:00	02-Mar-19 00:00:00		3.54	0.00	0.00	6.93	2.1	329.7		1.17	0.00	0.00	2.28		10.35	18.92	83.84	86.68	01-Mar-19 23:00:00		**11.52**	**18.92**	**83.84**	**88.96**
02-Mar-19 00:00:00	02-Mar-19 01:00:00		5.92	0.00	0.00	6.94	2.1	329.7		1.95	0.00	0.00	2.29		10.35	18.92	83.84	86.68	02-Mar-19 00:00:00		**12.30**	**18.92**	**83.84**	**88.97**
02-Mar-19 01:00:00	02-Mar-19 02:00:00		7.20	0.00	0.00	6.98	2.1	329.7		2.37	0.00	0.00	2.30		10.35	18.92	83.84	86.68	02-Mar-19 01:00:00		**12.72**	**18.92**	**83.84**	**88.98**
02-Mar-19 02:00:00	02-Mar-19 03:00:00		9.66	0.00	0.00	7.02	2.1	329.7		3.19	0.00	0.00	2.31		10.35	18.92	83.84	86.68	02-Mar-19 02:00:00		**13.54**	**18.92**	**83.84**	**88.99**
02-Mar-19 03:00:00	02-Mar-19 04:00:00		2.16	0.00	0.00	7.03	2.1	329.7		0.71	0.00	0.00	2.32		10.35	18.92	83.84	86.68	02-Mar-19 03:00:00		**11.06**	**18.92**	**83.84**	**89.00**
02-Mar-19 04:00:00	02-Mar-19 05:00:00		0.00	0.00	0.00	8.16	2.1	329.7		0.00	0.00	0.00	2.69		10.35	18.92	83.84	86.68	02-Mar-19 04:00:00		**10.35**	**18.92**	**83.84**	**89.37**
02-Mar-19 05:00:00	02-Mar-19 06:00:00		0.00	0.00	0.00	6.91	2.1	329.7		0.00	0.00	0.00	2.28		10.35	18.92	83.84	86.68	02-Mar-19 05:00:00		**10.35**	**18.92**	**83.84**	**88.96**
02-Mar-19 06:00:00	02-Mar-19 07:00:00		0.00	0.00	0.00	6.92	2.1	329.7		0.00	0.00	0.00	2.28		10.35	18.92	83.84	86.68	02-Mar-19 06:00:00		**10.35**	**18.92**	**83.84**	**88.96**
02-Mar-19 07:00:00	02-Mar-19 08:00:00		10.24	0.00	0.00	6.92	2.1	329.7		3.38	0.00	0.00	2.28		10.35	18.92	83.84	86.68	02-Mar-19 07:00:00		**13.73**	**18.92**	**83.84**	**88.96**
02-Mar-19 08:00:00	02-Mar-19 09:00:00		13.75	0.00	0.00	6.82	2.1	329.7		4.53	0.00	0.00	2.25		10.35	18.92	83.84	86.68	02-Mar-19 08:00:00		**14.88**	**18.92**	**83.84**	**88.93**
02-Mar-19 09:00:00	02-Mar-19 10:00:00		10.80	0.00	0.00	6.62	2.1	329.7		3.56	0.00	0.00	2.18		10.35	18.92	83.84	86.68	02-Mar-19 09:00:00		**13.91**	**18.92**	**83.84**	**88.86**
02-Mar-19 10:00:00	02-Mar-19 11:00:00		9.22	0.00	0.00	6.43	2.1	329.7		3.04	0.00	0.00	2.12		10.35	18.92	83.84	86.68	02-Mar-19 10:00:00		**13.39**	**18.92**	**83.84**	**88.80**
02-Mar-19 11:00:00	02-Mar-19 12:00:00		8.02	0.00	0.00	6.25	2.1	329.7		2.64	0.00	0.00	2.06		10.35	18.92	83.84	86.68	02-Mar-19 11:00:00		**12.99**	**18.92**	**83.84**	**88.74**
02-Mar-19 12:00:00	02-Mar-19 13:00:00		5.65	0.00	0.00	6.28	2.1	329.7		1.86	0.00	0.00	2.07		10.35	18.92	83.84	86.68	02-Mar-19 12:00:00		**12.21**	**18.92**	**83.84**	**88.75**
02-Mar-19 13:00:00	02-Mar-19 14:00:00		9.19	0.00	0.00	6.21	2.1	329.7		3.03	0.00	0.00	2.05		10.35	18.92	83.84	86.68	02-Mar-19 13:00:00		**13.38**	**18.92**	**83.84**	**88.73**
02-Mar-19 14:00:00	02-Mar-19 15:00:00		7.66	0.00	0.00	6.06	2.1	329.7		2.53	0.00	0.00	2.00		10.35	18.92	83.84	86.68	02-Mar-19 14:00:00		**12.88**	**18.92**	**83.84**	**88.68**
02-Mar-19 15:00:00	02-Mar-19 16:00:00		2.40	0.00	0.00	5.90	2.1	329.7		0.79	0.00	0.00	1.95		10.35	18.92	83.84	86.68	02-Mar-19 15:00:00		**11.14**	**18.92**	**83.84**	**88.63**
02-Mar-19 16:00:00	02-Mar-19 17:00:00		0.86	0.00	0.00	8.69	2.1	329.7		0.28	0.00	0.00	2.87		10.35	18.92	83.84	86.68	02-Mar-19 16:00:00		**10.63**	**18.92**	**83.84**	**89.55**
02-Mar-19 17:00:00	02-Mar-19 18:00:00		0.00	0.00	0.00	5.70	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	02-Mar-19 17:00:00		**10.35**	**18.92**	**83.84**	**88.56**
02-Mar-19 18:00:00	02-Mar-19 19:00:00		0.00	0.00	0.00	5.76	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	02-Mar-19 18:00:00		**10.35**	**18.92**	**83.84**	**88.58**
02-Mar-19 19:00:00	02-Mar-19 20:00:00		0.00	0.00	0.00	28.16	2.1	329.7		0.00	0.00	0.00	9.29		10.35	18.92	83.84	86.68	02-Mar-19 19:00:00		**10.35**	**18.92**	**83.84**	**95.97**
02-Mar-19 20:00:00	02-Mar-19 21:00:00		0.00	0.00	0.00	5.75	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	02-Mar-19 20:00:00		**10.35**	**18.92**	**83.84**	**88.58**
02-Mar-19 21:00:00	02-Mar-19 22:00:00		0.00	0.00	0.00	5.85	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	02-Mar-19 21:00:00		**10.35**	**18.92**	**83.84**	**88.61**
02-Mar-19 22:00:00	02-Mar-19 23:00:00		0.00	0.00	0.00	5.96	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	02-Mar-19 22:00:00		**10.35**	**18.92**	**83.84**	**88.64**
02-Mar-19 23:00:00	03-Mar-19 00:00:00		0.00	0.00	0.00	6.06	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	02-Mar-19 23:00:00		**10.35**	**18.92**	**83.84**	**88.68**
03-Mar-19 00:00:00	03-Mar-19 01:00:00		0.00	0.00	0.00	32.25	2.1	329.7		0.00	0.00	0.00	10.63		10.35	18.92	83.84	86.68	03-Mar-19 00:00:00		**10.35**	**18.92**	**83.84**	**97.31**
03-Mar-19 01:00:00	03-Mar-19 02:00:00		0.00	0.00	0.00	6.12	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	03-Mar-19 01:00:00		**10.35**	**18.92**	**83.84**	**88.70**
03-Mar-19 02:00:00	03-Mar-19 03:00:00		0.00	0.00	0.00	6.20	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	03-Mar-19 02:00:00		**10.35**	**18.92**	**83.84**	**88.73**
03-Mar-19 03:00:00	03-Mar-19 04:00:00		0.00	0.00	0.00	6.28	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	03-Mar-19 03:00:00		**10.35**	**18.92**	**83.84**	**88.75**
03-Mar-19 04:00:00	03-Mar-19 05:00:00		0.00	0.00	0.00	6.36	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	03-Mar-19 04:00:00		**10.35**	**18.92**	**83.84**	**88.78**
03-Mar-19 05:00:00	03-Mar-19 06:00:00		0.00	0.00	0.00	6.27	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	03-Mar-19 05:00:00		**10.35**	**18.92**	**83.84**	**88.75**
03-Mar-19 06:00:00	03-Mar-19 07:00:00		0.00	0.00	0.00	6.15	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	03-Mar-19 06:00:00		**10.35**	**18.92**	**83.84**	**88.71**
03-Mar-19 07:00:00	03-Mar-19 08:00:00		0.00	0.00	0.00	115.94	2.1	329.7		0.00	0.00	0.00	38.22		10.35	18.92	83.84	86.68	03-Mar-19 07:00:00		**10.35**	**18.92**	**83.84**	**124.90**
03-Mar-19 08:00:00	03-Mar-19 09:00:00		0.00	0.00	0.00	5.96	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	03-Mar-19 08:00:00		**10.35**	**18.92**	**83.84**	**88.65**
03-Mar-19 09:00:00	03-Mar-19 10:00:00		0.00	0.00	0.00	5.95	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	03-Mar-19 09:00:00		**10.35**	**18.92**	**83.84**	**88.64**
03-Mar-19 10:00:00	03-Mar-19 11:00:00		0.00	0.00	0.00	5.94	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	03-Mar-19 10:00:00		**10.35**	**18.92**	**83.84**	**88.64**
03-Mar-19 11:00:00	03-Mar-19 12:00:00		0.00	0.00	0.00	5.96	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	03-Mar-19 11:00:00		**10.35**	**18.92**	**83.84**	**88.65**
03-Mar-19 12:00:00	03-Mar-19 13:00:00		0.00	0.00	0.00	6.01	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	03-Mar-19 12:00:00		**10.35**	**18.92**	**83.84**	**88.66**
03-Mar-19 13:00:00	03-Mar-19 14:00:00		0.00	0.00	0.00	5.96	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	03-Mar-19 13:00:00		**10.35**	**18.92**	**83.84**	**88.64**
03-Mar-19 14:00:00	03-Mar-19 15:00:00		0.00	0.00	0.00	5.91	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	03-Mar-19 14:00:00		**10.35**	**18.92**	**83.84**	**88.63**
03-Mar-19 15:00:00	03-Mar-19 16:00:00		0.00	0.00	0.00	5.88	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	03-Mar-19 15:00:00		**10.35**	**18.92**	**83.84**	**88.62**
03-Mar-19 16:00:00	03-Mar-19 17:00:00		0.00	0.00	0.00	6.11	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	03-Mar-19 16:00:00		**10.35**	**18.92**	**83.84**	**88.70**
03-Mar-19 17:00:00	03-Mar-19 18:00:00		0.00	0.00	0.00	6.38	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	03-Mar-19 17:00:00		**10.35**	**18.92**	**83.84**	**88.78**
03-Mar-19 18:00:00	03-Mar-19 19:00:00		0.00	0.00	0.00	6.64	2.1	329.7		0.00	0.00	0.00	2.19		10.35	18.92	83.84	86.68	03-Mar-19 18:00:00		**10.35**	**18.92**	**83.84**	**88.87**
03-Mar-19 19:00:00	03-Mar-19 20:00:00		14.78	0.00	0.00	6.89	2.1	329.7		4.87	0.00	0.00	2.27		10.35	18.92	83.84	86.68	03-Mar-19 19:00:00		**15.22**	**18.92**	**83.84**	**88.95**
03-Mar-19 20:00:00	03-Mar-19 21:00:00		311.38	0.00	0.00	6.84	2.1	329.7		102.66	0.00	0.00	2.26		10.35	18.92	83.84	86.68	03-Mar-19 20:00:00		**113.01**	**18.92**	**83.84**	**88.94**
03-Mar-19 21:00:00	03-Mar-19 22:00:00		332.70	0.00	0.00	6.69	2.1	329.7		109.69	0.00	0.00	2.21		10.35	18.92	83.84	86.68	03-Mar-19 21:00:00		**120.04**	**18.92**	**83.84**	**88.89**
03-Mar-19 22:00:00	03-Mar-19 23:00:00		336.85	0.00	0.00	6.53	2.1	329.7		111.06	0.00	0.00	2.15		10.35	18.92	83.84	86.68	03-Mar-19 22:00:00		**121.41**	**18.92**	**83.84**	**88.83**
03-Mar-19 23:00:00	04-Mar-19 00:00:00		337.28	0.00	0.00	6.41	2.1	329.7		111.20	0.00	0.00	2.11		10.35	18.92	83.84	86.68	03-Mar-19 23:00:00		**121.55**	**18.92**	**83.84**	**88.79**
04-Mar-19 00:00:00	04-Mar-19 01:00:00		336.25	0.00	0.00	6.42	2.1	329.7		110.86	0.00	0.00	2.12		10.35	18.92	83.84	86.68	04-Mar-19 00:00:00		**121.21**	**18.92**	**83.84**	**88.80**
04-Mar-19 01:00:00	04-Mar-19 02:00:00		707.28	0.00	0.00	6.40	2.1	329.7		233.19	0.00	0.00	2.11		10.35	18.92	83.84	86.68	04-Mar-19 01:00:00		**243.54**	**18.92**	**83.84**	**88.79**
04-Mar-19 02:00:00	04-Mar-19 03:00:00		729.12	0.00	0.00	6.38	2.1	329.7		240.39	0.00	0.00	2.10		10.35	18.92	83.84	86.68	04-Mar-19 02:00:00		**250.74**	**18.92**	**83.84**	**88.78**
04-Mar-19 03:00:00	04-Mar-19 04:00:00		750.63	0.00	0.00	6.36	2.1	329.7		247.48	0.00	0.00	2.10		10.35	18.92	83.84	86.68	04-Mar-19 03:00:00		**257.83**	**18.92**	**83.84**	**88.78**
04-Mar-19 04:00:00	04-Mar-19 05:00:00		849.84	0.00	0.00	6.34	2.1	329.7		280.19	0.00	0.00	2.09		10.35	18.92	83.84	86.68	04-Mar-19 04:00:00		**290.54**	**18.92**	**83.84**	**88.77**
04-Mar-19 05:00:00	04-Mar-19 06:00:00		0.14	0.00	0.00	6.34	2.1	329.7		0.05	0.00	0.00	2.09		10.35	18.92	83.84	86.68	04-Mar-19 05:00:00		**10.40**	**18.92**	**83.84**	**88.77**
04-Mar-19 06:00:00	04-Mar-19 07:00:00		0.00	0.00	0.00	6.34	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	04-Mar-19 06:00:00		**10.35**	**18.92**	**83.84**	**88.77**
04-Mar-19 07:00:00	04-Mar-19 08:00:00		0.00	0.00	0.00	6.37	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	04-Mar-19 07:00:00		**10.35**	**18.92**	**83.84**	**88.78**
04-Mar-19 08:00:00	04-Mar-19 09:00:00		0.00	0.00	0.00	6.56	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	04-Mar-19 08:00:00		**10.35**	**18.92**	**83.84**	**88.84**
04-Mar-19 09:00:00	04-Mar-19 10:00:00		1.01	0.00	0.00	6.66	2.1	329.7		0.33	0.00	0.00	2.20		10.35	18.92	83.84	86.68	04-Mar-19 09:00:00		**10.68**	**18.92**	**83.84**	**88.88**
04-Mar-19 10:00:00	04-Mar-19 11:00:00		0.00	0.00	0.00	6.77	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	04-Mar-19 10:00:00		**10.35**	**18.92**	**83.84**	**88.91**
04-Mar-19 11:00:00	04-Mar-19 12:00:00		6.02	0.00	0.00	6.87	2.1	329.7		1.99	0.00	0.00	2.26		10.35	18.92	83.84	86.68	04-Mar-19 11:00:00		**12.34**	**18.92**	**83.84**	**88.94**
04-Mar-19 12:00:00	04-Mar-19 13:00:00		0.42	0.00	0.00	6.81	2.1	329.7		0.14	0.00	0.00	2.25		10.35	18.92	83.84	86.68	04-Mar-19 12:00:00		**10.49**	**18.92**	**83.84**	**88.93**
04-Mar-19 13:00:00	04-Mar-19 14:00:00		0.29	0.00	0.00	6.69	2.1	329.7		0.10	0.00	0.00	2.21		10.35	18.92	83.84	86.68	04-Mar-19 13:00:00		**10.45**	**18.92**	**83.84**	**88.89**
04-Mar-19 14:00:00	04-Mar-19 15:00:00		0.16	0.00	0.00	6.57	2.1	329.7		0.05	0.00	0.00	2.17		10.35	18.92	83.84	86.68	04-Mar-19 14:00:00		**10.40**	**18.92**	**83.84**	**88.85**
04-Mar-19 15:00:00	04-Mar-19 16:00:00		0.04	0.00	0.00	6.45	2.1	329.7		0.01	0.00	0.00	2.13		10.35	18.92	83.84	86.68	04-Mar-19 15:00:00		**10.36**	**18.92**	**83.84**	**88.81**
04-Mar-19 16:00:00	04-Mar-19 17:00:00		0.00	0.00	0.00	6.39	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	04-Mar-19 16:00:00		**10.35**	**18.92**	**83.84**	**88.79**
04-Mar-19 17:00:00	04-Mar-19 18:00:00		0.00	0.00	0.00	6.40	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	04-Mar-19 17:00:00		**10.35**	**18.92**	**83.84**	**88.79**
04-Mar-19 18:00:00	04-Mar-19 19:00:00		0.00	0.00	0.00	6.42	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	04-Mar-19 18:00:00		**10.35**	**18.92**	**83.84**	**88.80**
04-Mar-19 19:00:00	04-Mar-19 20:00:00		6.56	0.00	0.00	6.45	2.1	329.7		2.16	0.00	0.00	2.13		10.35	18.92	83.84	86.68	04-Mar-19 19:00:00		**12.51**	**18.92**	**83.84**	**88.81**
04-Mar-19 20:00:00	04-Mar-19 21:00:00		16.34	0.00	0.00	6.61	2.1	329.7		5.39	0.00	0.00	2.18		10.35	18.92	83.84	86.68	04-Mar-19 20:00:00		**15.74**	**18.92**	**83.84**	**88.86**
04-Mar-19 21:00:00	04-Mar-19 22:00:00		23.02	0.00	0.00	6.75	2.1	329.7		7.59	0.00	0.00	2.23		10.35	18.92	83.84	86.68	04-Mar-19 21:00:00		**17.94**	**18.92**	**83.84**	**88.91**
04-Mar-19 22:00:00	04-Mar-19 23:00:00		50.46	0.00	0.00	6.88	2.1	329.7		16.64	0.00	0.00	2.27		10.35	18.92	83.84	86.68	04-Mar-19 22:00:00		**26.99**	**18.92**	**83.84**	**88.95**
04-Mar-19 23:00:00	05-Mar-19 00:00:00		21.46	0.00	0.00	7.05	2.1	329.7		7.08	0.00	0.00	2.33		10.35	18.92	83.84	86.68	04-Mar-19 23:00:00		**17.43**	**18.92**	**83.84**	**89.01**
05-Mar-19 00:00:00	05-Mar-19 01:00:00		43.30	0.00	0.00	7.31	2.1	329.7		14.28	0.00	0.00	2.41		10.35	18.92	83.84	86.68	05-Mar-19 00:00:00		**24.63**	**18.92**	**83.84**	**89.09**
05-Mar-19 01:00:00	05-Mar-19 02:00:00		70.34	0.00	0.00	7.38	2.1	329.7		23.19	0.00	0.00	2.43		10.35	18.92	83.84	86.68	05-Mar-19 01:00:00		**33.54**	**18.92**	**83.84**	**89.11**
05-Mar-19 02:00:00	05-Mar-19 03:00:00		77.66	0.00	0.00	7.45	2.1	329.7		25.60	0.00	0.00	2.46		10.35	18.92	83.84	86.68	05-Mar-19 02:00:00		**35.95**	**18.92**	**83.84**	**89.14**
05-Mar-19 03:00:00	05-Mar-19 04:00:00		50.26	0.00	0.00	7.52	2.1	329.7		16.57	0.00	0.00	2.48		10.35	18.92	83.84	86.68	05-Mar-19 03:00:00		**26.92**	**18.92**	**83.84**	**89.16**
05-Mar-19 04:00:00	05-Mar-19 05:00:00		44.72	0.00	0.00	7.52	2.1	329.7		14.74	0.00	0.00	2.48		10.35	18.92	83.84	86.68	05-Mar-19 04:00:00		**25.09**	**18.92**	**83.84**	**89.16**
05-Mar-19 05:00:00	05-Mar-19 06:00:00		46.09	0.00	0.00	7.53	2.1	329.7		15.20	0.00	0.00	2.48		10.35	18.92	83.84	86.68	05-Mar-19 05:00:00		**25.55**	**18.92**	**83.84**	**89.16**
05-Mar-19 06:00:00	05-Mar-19 07:00:00		47.92	0.00	0.00	7.54	2.1	329.7		15.80	0.00	0.00	2.48		10.35	18.92	83.84	86.68	05-Mar-19 06:00:00		**26.15**	**18.92**	**83.84**	**89.16**
05-Mar-19 07:00:00	05-Mar-19 08:00:00		48.85	0.00	0.00	7.55	2.1	329.7		16.10	0.00	0.00	2.49		10.35	18.92	83.84	86.68	05-Mar-19 07:00:00		**26.45**	**18.92**	**83.84**	**89.17**
05-Mar-19 08:00:00	05-Mar-19 09:00:00		37.15	0.00	0.00	7.55	2.1	329.7		12.25	0.00	0.00	2.49		10.35	18.92	83.84	86.68	05-Mar-19 08:00:00		**22.60**	**18.92**	**83.84**	**89.17**
05-Mar-19 09:00:00	05-Mar-19 10:00:00		42.84	0.00	0.00	7.51	2.1	329.7		14.13	0.00	0.00	2.48		10.35	18.92	83.84	86.68	05-Mar-19 09:00:00		**24.48**	**18.92**	**83.84**	**89.16**
05-Mar-19 10:00:00	05-Mar-19 11:00:00		62.76	0.00	0.00	7.47	2.1	329.7		20.69	0.00	0.00	2.46		10.35	18.92	83.84	86.68	05-Mar-19 10:00:00		**31.04**	**18.92**	**83.84**	**89.14**
05-Mar-19 11:00:00	05-Mar-19 12:00:00		61.33	0.00	0.00	7.40

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
07-Mar-19 13:00:00	07-Mar-19 14:00:00		46.40	0.00	0.00	5.86	2.1	329.7		15.30	0.00	0.00	1.93		10.35	18.92	83.84	86.68	07-Mar-19 13:00:00		25.65	18.92	83.84	88.61
07-Mar-19 14:00:00	07-Mar-19 15:00:00		53.20	0.00	0.00	5.84	2.1	329.7		17.54	0.00	0.00	1.93		10.35	18.92	83.84	86.68	07-Mar-19 14:00:00		27.89	18.92	83.84	88.61
07-Mar-19 15:00:00	07-Mar-19 16:00:00		46.13	0.00	0.00	5.83	2.1	329.7		15.21	0.00	0.00	1.92		10.35	18.92	83.84	86.68	07-Mar-19 15:00:00		25.56	18.92	83.84	88.60
07-Mar-19 16:00:00	07-Mar-19 17:00:00		51.45	0.00	0.00	5.70	2.1	329.7		16.96	0.00	0.00	1.88		10.35	18.92	83.84	86.68	07-Mar-19 16:00:00		27.31	18.92	83.84	88.56
07-Mar-19 17:00:00	07-Mar-19 18:00:00		42.26	0.00	0.00	5.80	2.1	329.7		13.93	0.00	0.00	1.91		10.35	18.92	83.84	86.68	07-Mar-19 17:00:00		24.28	18.92	83.84	88.59
07-Mar-19 18:00:00	07-Mar-19 19:00:00		46.08	0.00	0.00	5.89	2.1	329.7		15.19	0.00	0.00	1.94		10.35	18.92	83.84	86.68	07-Mar-19 18:00:00		25.54	18.92	83.84	88.62
07-Mar-19 19:00:00	07-Mar-19 20:00:00		55.15	0.00	0.00	5.98	2.1	329.7		18.18	0.00	0.00	1.97		10.35	18.92	83.84	86.68	07-Mar-19 19:00:00		28.53	18.92	83.84	88.65
07-Mar-19 20:00:00	07-Mar-19 21:00:00		47.95	0.00	0.00	6.01	2.1	329.7		15.81	0.00	0.00	1.98		10.35	18.92	83.84	86.68	07-Mar-19 20:00:00		26.16	18.92	83.84	88.66
07-Mar-19 21:00:00	07-Mar-19 22:00:00		32.45	0.00	0.00	6.13	2.1	329.7		10.70	0.00	0.00	2.02		10.35	18.92	83.84	86.68	07-Mar-19 21:00:00		21.05	18.92	83.84	88.70
07-Mar-19 22:00:00	07-Mar-19 23:00:00		32.46	0.00	0.00	6.25	2.1	329.7		10.70	0.00	0.00	2.06		10.35	18.92	83.84	86.68	07-Mar-19 22:00:00		21.05	18.92	83.84	88.74
07-Mar-19 23:00:00	08-Mar-19 00:00:00		31.76	0.00	0.00	6.38	2.1	329.7		10.47	0.00	0.00	2.10		10.35	18.92	83.84	86.68	07-Mar-19 23:00:00		20.82	18.92	83.84	88.78
08-Mar-19 00:00:00	08-Mar-19 01:00:00		28.27	0.00	0.00	6.25	2.1	329.7		9.32	0.00	0.00	2.06		10.35	18.92	83.84	86.68	08-Mar-19 00:00:00		19.67	18.92	83.84	88.74
08-Mar-19 01:00:00	08-Mar-19 02:00:00		28.93	0.00	0.00	6.32	2.1	329.7		9.54	0.00	0.00	2.08		10.35	18.92	83.84	86.68	08-Mar-19 01:00:00		19.89	18.92	83.84	88.76
08-Mar-19 02:00:00	08-Mar-19 03:00:00		28.95	0.00	0.00	6.38	2.1	329.7		9.54	0.00	0.00	2.10		10.35	18.92	83.84	86.68	08-Mar-19 02:00:00		19.89	18.92	83.84	88.78
08-Mar-19 03:00:00	08-Mar-19 04:00:00		26.81	0.00	0.00	6.44	2.1	329.7		8.84	0.00	0.00	2.12		10.35	18.92	83.84	86.68	08-Mar-19 03:00:00		19.19	18.92	83.84	88.80
08-Mar-19 04:00:00	08-Mar-19 05:00:00		21.42	0.00	0.00	6.48	2.1	329.7		7.06	0.00	0.00	2.14		10.35	18.92	83.84	86.68	08-Mar-19 04:00:00		17.41	18.92	83.84	88.82
08-Mar-19 05:00:00	08-Mar-19 06:00:00		16.50	0.00	0.00	6.50	2.1	329.7		5.44	0.00	0.00	2.14		10.35	18.92	83.84	86.68	08-Mar-19 05:00:00		15.79	18.92	83.84	88.82
08-Mar-19 06:00:00	08-Mar-19 07:00:00		17.38	0.00	0.00	6.53	2.1	329.7		5.73	0.00	0.00	2.15		10.35	18.92	83.84	86.68	08-Mar-19 06:00:00		16.08	18.92	83.84	88.83
08-Mar-19 07:00:00	08-Mar-19 08:00:00		18.23	0.00	0.00	6.55	2.1	329.7		6.01	0.00	0.00	2.16		10.35	18.92	83.84	86.68	08-Mar-19 07:00:00		16.36	18.92	83.84	88.84
08-Mar-19 08:00:00	08-Mar-19 09:00:00		18.18	0.00	0.00	6.47	2.1	329.7		5.99	0.00	0.00	2.13		10.35	18.92	83.84	86.68	08-Mar-19 08:00:00		16.34	18.92	83.84	88.81
08-Mar-19 09:00:00	08-Mar-19 10:00:00		18.29	0.00	0.00	6.32	2.1	329.7		6.03	0.00	0.00	2.09		10.35	18.92	83.84	86.68	08-Mar-19 09:00:00		16.38	18.92	83.84	88.77
08-Mar-19 10:00:00	08-Mar-19 11:00:00		18.24	0.00	0.00	6.18	2.1	329.7		6.01	0.00	0.00	2.04		10.35	18.92	83.84	86.68	08-Mar-19 10:00:00		16.36	18.92	83.84	88.72
08-Mar-19 11:00:00	08-Mar-19 12:00:00		17.45	0.00	0.00	6.03	2.1	329.7		5.75	0.00	0.00	1.99		10.35	18.92	83.84	86.68	08-Mar-19 11:00:00		16.10	18.92	83.84	88.67
08-Mar-19 12:00:00	08-Mar-19 13:00:00		20.93	0.00	0.00	6.17	2.1	329.7		6.90	0.00	0.00	2.03		10.35	18.92	83.84	86.68	08-Mar-19 12:00:00		17.25	18.92	83.84	88.71
08-Mar-19 13:00:00	08-Mar-19 14:00:00		24.16	0.00	0.00	6.20	2.1	329.7		7.97	0.00	0.00	2.05		10.35	18.92	83.84	86.68	08-Mar-19 13:00:00		18.32	18.92	83.84	88.73
08-Mar-19 14:00:00	08-Mar-19 15:00:00		27.50	0.00	0.00	6.23	2.1	329.7		9.07	0.00	0.00	2.05		10.35	18.92	83.84	86.68	08-Mar-19 14:00:00		19.42	18.92	83.84	88.73
08-Mar-19 15:00:00	08-Mar-19 16:00:00		3.66	0.00	0.00	6.26	2.1	329.7		1.21	0.00	0.00	2.06		10.35	18.92	83.84	86.68	08-Mar-19 15:00:00		11.56	18.92	83.84	88.74
08-Mar-19 16:00:00	08-Mar-19 17:00:00		14.24	0.00	0.00	6.35	2.1	329.7		4.70	0.00	0.00	2.09		10.35	18.92	83.84	86.68	08-Mar-19 16:00:00		15.05	18.92	83.84	88.77
08-Mar-19 17:00:00	08-Mar-19 18:00:00		16.04	0.00	0.00	6.51	2.1	329.7		5.29	0.00	0.00	2.15		10.35	18.92	83.84	86.68	08-Mar-19 17:00:00		15.64	18.92	83.84	88.83
08-Mar-19 18:00:00	08-Mar-19 19:00:00		4.57	0.00	0.00	6.66	2.1	329.7		1.51	0.00	0.00	2.20		10.35	18.92	83.84	86.68	08-Mar-19 18:00:00		11.86	18.92	83.84	88.88
08-Mar-19 19:00:00	08-Mar-19 20:00:00		6.21	0.00	0.00	6.82	2.1	329.7		2.05	0.00	0.00	2.25		10.35	18.92	83.84	86.68	08-Mar-19 19:00:00		12.40	18.92	83.84	88.93
08-Mar-19 20:00:00	08-Mar-19 21:00:00		5.60	0.00	0.00	7.04	2.1	329.7		1.85	0.00	0.00	2.32		10.35	18.92	83.84	86.68	08-Mar-19 20:00:00		12.20	18.92	83.84	89.00
08-Mar-19 21:00:00	08-Mar-19 22:00:00		9.08	0.00	0.00	6.90	2.1	329.7		2.99	0.00	0.00	2.27		10.35	18.92	83.84	86.68	08-Mar-19 21:00:00		13.34	18.92	83.84	88.95
08-Mar-19 22:00:00	08-Mar-19 23:00:00		7.59	0.00	0.00	6.74	2.1	329.7		2.50	0.00	0.00	2.22		10.35	18.92	83.84	86.68	08-Mar-19 22:00:00		12.85	18.92	83.84	88.90
08-Mar-19 23:00:00	09-Mar-19 00:00:00		2.33	0.00	0.00	6.58	2.1	329.7		0.77	0.00	0.00	2.17		10.35	18.92	83.84	86.68	08-Mar-19 23:00:00		11.12	18.92	83.84	88.85
09-Mar-19 00:00:00	09-Mar-19 01:00:00		3.21	0.00	0.00	6.56	2.1	329.7		1.06	0.00	0.00	2.16		10.35	18.92	83.84	86.68	09-Mar-19 00:00:00		11.41	18.92	83.84	88.84
09-Mar-19 01:00:00	09-Mar-19 02:00:00		2.14	0.00	0.00	6.55	2.1	329.7		0.71	0.00	0.00	2.16		10.35	18.92	83.84	86.68	09-Mar-19 01:00:00		11.06	18.92	83.84	88.84
09-Mar-19 02:00:00	09-Mar-19 03:00:00		2.38	0.00	0.00	6.54	2.1	329.7		0.78	0.00	0.00	2.16		10.35	18.92	83.84	86.68	09-Mar-19 02:00:00		11.13	18.92	83.84	88.84
09-Mar-19 03:00:00	09-Mar-19 04:00:00		2.25	0.00	0.00	6.52	2.1	329.7		0.74	0.00	0.00	2.15		10.35	18.92	83.84	86.68	09-Mar-19 03:00:00		11.09	18.92	83.84	88.83
09-Mar-19 04:00:00	09-Mar-19 05:00:00		2.34	0.00	0.00	6.45	2.1	329.7		0.77	0.00	0.00	2.13		10.35	18.92	83.84	86.68	09-Mar-19 04:00:00		11.12	18.92	83.84	88.81
09-Mar-19 05:00:00	09-Mar-19 06:00:00		2.10	0.00	0.00	6.49	2.1	329.7		0.69	0.00	0.00	2.14		10.35	18.92	83.84	86.68	09-Mar-19 05:00:00		11.04	18.92	83.84	88.82
09-Mar-19 06:00:00	09-Mar-19 07:00:00		1.99	0.00	0.00	6.54	2.1	329.7		0.66	0.00	0.00	2.16		10.35	18.92	83.84	86.68	09-Mar-19 06:00:00		11.01	18.92	83.84	88.84
09-Mar-19 07:00:00	09-Mar-19 08:00:00		2.91	0.00	0.00	6.58	2.1	329.7		0.96	0.00	0.00	2.17		10.35	18.92	83.84	86.68	09-Mar-19 07:00:00		11.31	18.92	83.84	88.85
09-Mar-19 08:00:00	09-Mar-19 09:00:00		2.79	0.00	0.00	6.56	2.1	329.7		0.92	0.00	0.00	2.16		10.35	18.92	83.84	86.68	09-Mar-19 08:00:00		11.27	18.92	83.84	88.84
09-Mar-19 09:00:00	09-Mar-19 10:00:00		2.89	0.00	0.00	6.48	2.1	329.7		0.95	0.00	0.00	2.14		10.35	18.92	83.84	86.68	09-Mar-19 09:00:00		11.30	18.92	83.84	88.82
09-Mar-19 10:00:00	09-Mar-19 11:00:00		2.99	0.00	0.00	6.41	2.1	329.7		0.99	0.00	0.00	2.11		10.35	18.92	83.84	86.68	09-Mar-19 10:00:00		11.34	18.92	83.84	88.79
09-Mar-19 11:00:00	09-Mar-19 12:00:00		3.42	0.00	0.00	6.34	2.1	329.7		1.13	0.00	0.00	2.09		10.35	18.92	83.84	86.68	09-Mar-19 11:00:00		11.48	18.92	83.84	88.77
09-Mar-19 12:00:00	09-Mar-19 13:00:00		1.66	0.00	0.00	6.27	2.1	329.7		0.55	0.00	0.00	2.07		10.35	18.92	83.84	86.68	09-Mar-19 12:00:00		10.90	18.92	83.84	88.75
09-Mar-19 13:00:00	09-Mar-19 14:00:00		2.42	0.00	0.00	6.22	2.1	329.7		0.80	0.00	0.00	2.05		10.35	18.92	83.84	86.68	09-Mar-19 13:00:00		11.15	18.92	83.84	88.73
09-Mar-19 14:00:00	09-Mar-19 15:00:00		0.88	0.00	0.00	6.17	2.1	329.7		0.29	0.00	0.00	2.03		10.35	18.92	83.84	86.68	09-Mar-19 14:00:00		10.64	18.92	83.84	88.71
09-Mar-19 15:00:00	09-Mar-19 16:00:00		1.60	0.00	0.00	6.12	2.1	329.7		0.53	0.00	0.00	2.02		10.35	18.92	83.84	86.68	09-Mar-19 15:00:00		10.88	18.92	83.84	88.70
09-Mar-19 16:00:00	09-Mar-19 17:00:00		2.11	0.00	0.00	5.98	2.1	329.7		0.70	0.00	0.00	1.97		10.35	18.92	83.84	86.68	09-Mar-19 16:00:00		11.05	18.92	83.84	88.65
09-Mar-19 17:00:00	09-Mar-19 18:00:00		1.49	0.00	0.00	6.02	2.1	329.7		0.49	0.00	0.00	1.98		10.35	18.92	83.84	86.68	09-Mar-19 17:00:00		10.84	18.92	83.84	88.66
09-Mar-19 18:00:00	09-Mar-19 19:00:00		1.85	0.00	0.00	6.07	2.1	329.7		0.61	0.00	0.00	2.00		10.35	18.92	83.84	86.68	09-Mar-19 18:00:00		10.96	18.92	83.84	88.68
09-Mar-19 19:00:00	09-Mar-19 20:00:00		1.67	0.00	0.00	6.13	2.1	329.7		0.55	0.00	0.00	2.02		10.35	18.92	83.84	86.68	09-Mar-19 19:00:00		10.90	18.92	83.84	88.70
09-Mar-19 20:00:00	09-Mar-19 21:00:00		1.88	0.00	0.00	6.10	2.1	329.7		0.62	0.00	0.00	2.01		10.35	18.92	83.84	86.68	09-Mar-19 20:00:00		10.97	18.92	83.84	88.69
09-Mar-19 21:00:00	09-Mar-19 22:00:00		2.59	0.00	0.00	6.10	2.1	329.7		0.85	0.00	0.00	2.01		10.35	18.92	83.84	86.68	09-Mar-19 21:00:00		11.20	18.92	83.84	88.69
09-Mar-19 22:00:00	09-Mar-19 23:00:00		2.23	0.00	0.00	6.12	2.1	329.7		0.74	0.00	0.00	2.02		10.35	18.92	83.84	86.68	09-Mar-19 22:00:00		11.09	18.92	83.84	88.70
09-Mar-19 23:00:00	10-Mar-19 00:00:00		2.39	0.00	0.00	6.13	2.1	329.7		0.79	0.00	0.00	2.02		10.35	18.92	83.84	86.68	09-Mar-19 23:00:00		11.14	18.92	83.84	88.70
10-Mar-19 00:00:00	10-Mar-19 01:00:00		1.91	0.00	0.00	6.10	2.1	329.7		0.63	0.00	0.00	2.01		10.35	18.92	83.84	86.68	10-Mar-19 00:00:00		10.98	18.92	83.84	88.69
10-Mar-19 01:00:00	10-Mar-19 03:00:00		2.02	0.00	0.00	5.99	2.1	329.7		0.67	0.00	0.00	1.97		10.35	18.92	83.84	86.68	10-Mar-19 01:00:00		11.02	18.92	83.84	88.65
10-Mar-19 03:00:00	10-Mar-19 04:00:00		2.16	0.00	0.00	5.88	2.1	329.7		0.71	0.00	0.00	1.94		10.35	18.92	83.84	86.68	10-Mar-19 03:00:00		11.06	18.92	83.84	88.62
10-Mar-19 04:00:00	10-Mar-19 05:00:00		2.34	0.00	0.00	5.82	2.1	329.7		0.77	0.00	0.00	1.92		10.35	18.92	83.84	86.68	10-Mar-19 04:00:00		11.12	18.92	83.84	88.60
10-Mar-19 05:00:00	10-Mar-19 06:00:00		2.10	0.00	0.00	5.84	2.1	329.7		0.69	0.00	0.00	1.93		10.35	18.92	83.84	86.68	10-Mar-19 05:00:00		11.04	18.92	83.84	88.61
10-Mar-19 06:00:00	10-Mar-19 07:00:00		0.46	0.00	0.00	115.78	2.1	329.7		0.15	0.00	0.00	38.17		10.35	18.92	83.84	86.68	10-Mar-19 06:00:00		10.50	18.92	83.84	124.85
10-Mar-19 07:00:00	10-Mar-19 08:00:00		0.21	0.00	0.00	6.00	2.1	329.7		0.07	0.00	0.00	1.98		10.35	18.92	83.84	86.68	10-Mar-19 07:00:00		10.42	18.92	83.84	88.66
10-Mar-19 08:00:00	10-Mar-19 09:00:00		0.19	0.00	0.00	6.09	2.1	329.7		0.06	0.00	0.00	2.01		10.35	18.92	83.84	86.68	10-Mar-19 08:00:00		10.41	18.92	83.84	88.69
10-Mar-19 09:00:00	10-Mar-19 10:00:00		1.36	0.00	0.00	6.18	2.1	329.7		0.45	0.00	0.00	2.04		10.35	18.92	83.84	86.68	10-Mar-19 09:00:00		10.80	18.92	83.84	88.72
10-Mar-19 10:00:00	10-Mar-19 11:00:00		0.55	0.00	0.00	6.26	2.1	329.7		0.18	0.00	0.00	2.06		10.35	18.92	83.84	86.68	10-Mar-19 10:00:00		10.53	18.92	83.84	88.74
10-Mar-19 11:00:00	10-Mar-19 12:00:00		0.92	0.00	0.00	6.13	2.1	329.7		0.30	0.00	0.00	2.02		10.35	18.92	83.84	86.68	10-Mar-19 11:00:00		10.65	18.92	83.84	88.70
10-Mar-19 12:00:00	10-Mar-19 13:00:00		30.70	0.00	0.00	5.97	2.1	329.7		10.12	0.00	0.00	1.97		10.35	18.92	83.84	86.68	10-Mar-19 12:00:00		20.47	18.92	83.84	88.65
10-Mar-19 13:00:00	10-Mar-19 14:00:00		30.48	0.00	0.00	5.81	2.1	329.7		10.05	0.00	0.00	1.92		10.35	18.92	83.84	86.68	10-Mar-19 13:00:00		20.40	18.92	83.84	88.60
10-Mar-19 14:00:00	10-Mar-19 15:00:00		32.51	0.00	0.00	5.65	2.1	329.7		10.72	0.00	0.00	1.86		10.35	18.92	83.84	86.68	10-Mar-19 14:00:00		21.07	18.92	83.84	88.54
10-Mar-19 15:00:00	10-Mar-19 16:00:00		25.32	0.00	0.00	5.45	2.1	329.7		8.35	0.00	0.00	1.80		10.35	18.92	83.84	86.68	10-Mar-19 15:00:00		18.70	18.92	83.84	88.48
10-Mar-19 16:00:00	10-Mar-19 17:00:00		17.65	0.00	0.00	5.33	2.1	329.7		5.82	0.00	0.00	1.76		10.35	18.92	83.84	86.68	10-Mar-19 16:00:00		16.17	18.92	83.84	88.44
10-Mar-19 17:00:00	10-Mar-19 18:00:00		38.18	0.00	0.00	5.21	2.1	329.7		12.59	0.00	0.00	1.72		10.35	18.92	83.84	86.68	10-Mar-19 17:00:00		22.94	18.92	83.84	88.40
10-Mar-19 18:00:00	10-Mar-19 19:00:00		10.34	0.00	0.00	5.11	2.1	329.7		3.41	0.00	0.00	1.69		10.35	18.92	83.84	86.68	10-Mar-19 18:00:00		13.76	18.92	83.84	88.37
10-Mar-19 19:00:00	10-Mar-19 20:00:00		7.45	0.00	0.00	5.29	2.1	329.7		2.46	0.00	0.00	1.74		10.35	18.92	83.84	86.68	10-Mar-19 19:00:00		12.81	18.92	83.84	88.42
10-Mar-19 20:00:00	10-Mar-19 21:00:00		7.06	0.00	0.00	5.34	2.1	329.7		2.33	0.00	0.00	1.76		10.35	18.92	83.84	86.68	10-Mar-19 20:00:00		12.68	18.92	83.84	88.44
10-Mar-19 21:00:00	10-Mar-19 22:00:00		74.76	0.00	0.00	5.38	2.1	329.7		24.64	0.00	0.00	1.78		10.35	18.92	83.84	86.68	10-Mar-19 21:00:00		35.00	18.92	83.84	88.46
10-Mar-19 22:00:00	10-Mar-19 23:00:00		845.78	0.00	0.00	5.42	2.1	329.7		278.85	0.00	0.00	1.79		10.35	18.92	83.84	86.68	10-Mar-19 22:00:00		289.20	18.92	83.84	88.47
10-Mar-19 23:00:00	11-Mar-19 00:00:00		1,255.23	0.00	0.00	5.46	2.1	329.7		413.85	0.00	0.00	1.80		10.35	18.92	83.84	86.68	10-Mar-19 23:00:00		424.20	18.92	83.84	88.48
11-Mar-19 00:00:00	11-Mar-19 01:00:00		1,519.23	0.00	0.00	5.63	2.1	329.7		500.89	0.00	0.00	1.86		10.35	18.92	83.84	86.68	11-Mar-19 00:00:00		511.24	18.92	83.84	88.54
11-Mar-19 01:00:00	11-Mar-19 02:00:00		1,696.05	0.00	0.00	5.81	2.1	329.7		559.19	0.00	0.00	1.91		10.35	18.92	83.84	86.68	11-Mar-19 01:00:00		569.54	18.92	83.84	88.59
11-Mar-19 02:00:00	11-Mar-19 03:00:00		1,715.00	0.00	0.00	5.98	2.1	329.7		565.43	0.00	0.00	1.97		10.35	18.92	83.84	86.68	11-Mar-19 02:00:00		575.78	18.92	83.84	88.65
11-Mar-19 03:00:00	11-Mar-19 04:00:00		1,697.92	0.00	0.00	6.11	2.1	329.7		559.80	0.00	0.00	2.02		10.35	18.92	83.84	86.68	11-Mar-19 03:00:00		570.15	18.92	83.84	88.70
11-Mar-19 04:00:00	11-Mar-19 05:00:00		1,695.01	0.00	0.00	6.16	2.1	329.7		558.85	0.00	0.00	2.03		10.35	18.92	83.84	86.68	11-Mar-19 04:00:00		569.20	18.92	83.84	88.71
11-Mar-19 05:00:00	11-Mar-19 06:00:00		245.52	0.00	0.00	6.20	2.1	329.7		80.95	0.00	0.00	2.04		10.35	18.92	83.84	86.68	11-Mar-19 05:00:00		91.30	18.92	83.84	88.72
11-Mar-19 06:00:00	11-Mar-19 07:00:00		6.07	0.00	0.00	6.26	2.1	329.7		2.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	11-Mar-19 06:00:00		12.35	18.92	83.84	88.74
11-Mar-19 07:00:00	11-Mar-19 08:00:00		19.84	0.00	0.00	6.32	2.1	329.7		6.54	0.00	0.00	2.08		10.35	18.92	83.84	86.68	11-Mar-19 07:00:00		16.89	18.92	83.84	88.76
11-Mar-19 08:00:00	11-Mar-19 09:00:00		24.48	0.00	0.00	6.12	2.1	329.7		8.07	0.00	0.00	2.02		10.35	18.92	83.84	86.68	11-Mar-19 08:00:00		18.42	18.92	83.84	88.70
11-Mar-19 09:00:00	11-Mar-19 10:00:00		36.43	0.00	0.00	5.93	2.1	329.7		12.01	0.00	0.00	1.96		10.35	18.92	83.84	86.68	11-Mar-19 09:00:00		22.36	18.92	83.84	88.64
11-Mar-19 10:00:00	11-Mar-19 11:00:00		49.59	0.00	0.00	5.73	2.1	329.7		16.35	0.00	0.00	1.89		10.35	18.92	83.84	86.68	11-Mar-19 10:00:00		26.70	18.92	83.84	88.57
11-Mar-19 11:00:00	11-Mar-19 12:00:00		46.43	0.00

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
13-Mar-19 13:00:00	13-Mar-19 14:00:00		395.46	0.00	0.00	5.72	2.1	329.7		130.38	0.00	0.00	1.88		10.35	18.92	83.84	86.68	13-Mar-19 13:00:00		**140.73**	**18.92**	**83.84**	**88.56**
13-Mar-19 14:00:00	13-Mar-19 15:00:00		944.52	0.00	0.00	5.44	2.1	329.7		311.41	0.00	0.00	1.79		10.35	18.92	83.84	86.68	13-Mar-19 14:00:00		**321.76**	**18.92**	**83.84**	**88.47**
13-Mar-19 15:00:00	13-Mar-19 16:00:00		581.50	0.00	0.00	5.32	2.1	329.7		191.72	0.00	0.00	1.75		10.35	18.92	83.84	86.68	13-Mar-19 15:00:00		**202.07**	**18.92**	**83.84**	**88.43**
13-Mar-19 16:00:00	13-Mar-19 17:00:00		1,355.49	0.00	0.00	5.26	2.1	329.7		446.90	0.00	0.00	1.73		10.35	18.92	83.84	86.68	13-Mar-19 16:00:00		**457.25**	**18.92**	**83.84**	**88.41**
13-Mar-19 17:00:00	13-Mar-19 18:00:00		1,108.50	0.00	0.00	5.20	2.1	329.7		365.47	0.00	0.00	1.71		10.35	18.92	83.84	86.68	13-Mar-19 17:00:00		**375.82**	**18.92**	**83.84**	**88.39**
13-Mar-19 18:00:00	13-Mar-19 19:00:00		867.01	0.00	0.00	5.14	2.1	329.7		285.85	0.00	0.00	1.69		10.35	18.92	83.84	86.68	13-Mar-19 18:00:00		**296.20**	**18.92**	**83.84**	**88.37**
13-Mar-19 19:00:00	13-Mar-19 20:00:00		869.58	0.00	0.00	5.20	2.1	329.7		286.70	0.00	0.00	1.71		10.35	18.92	83.84	86.68	13-Mar-19 19:00:00		**297.05**	**18.92**	**83.84**	**88.39**
13-Mar-19 20:00:00	13-Mar-19 21:00:00		873.08	0.00	0.00	5.44	2.1	329.7		287.86	0.00	0.00	1.79		10.35	18.92	83.84	86.68	13-Mar-19 20:00:00		**298.21**	**18.92**	**83.84**	**88.47**
13-Mar-19 21:00:00	13-Mar-19 22:00:00		875.31	0.00	0.00	5.68	2.1	329.7		288.59	0.00	0.00	1.87		10.35	18.92	83.84	86.68	13-Mar-19 21:00:00		**298.94**	**18.92**	**83.84**	**88.55**
13-Mar-19 22:00:00	13-Mar-19 23:00:00		871.51	0.00	0.00	5.92	2.1	329.7		287.34	0.00	0.00	1.95		10.35	18.92	83.84	86.68	13-Mar-19 22:00:00		**297.69**	**18.92**	**83.84**	**88.63**
13-Mar-19 23:00:00	14-Mar-19 00:00:00		869.42	0.00	0.00	6.21	2.1	329.7		286.65	0.00	0.00	2.05		10.35	18.92	83.84	86.68	13-Mar-19 23:00:00		**297.00**	**18.92**	**83.84**	**88.73**
14-Mar-19 00:00:00	14-Mar-19 01:00:00		762.52	0.00	0.00	6.24	2.1	329.7		251.40	0.00	0.00	2.06		10.35	18.92	83.84	86.68	14-Mar-19 00:00:00		**261.75**	**18.92**	**83.84**	**88.74**
14-Mar-19 01:00:00	14-Mar-19 02:00:00		332.84	0.00	0.00	6.27	2.1	329.7		109.74	0.00	0.00	2.07		10.35	18.92	83.84	86.68	14-Mar-19 01:00:00		**120.09**	**18.92**	**83.84**	**88.75**
14-Mar-19 02:00:00	14-Mar-19 03:00:00		340.22	0.00	0.00	6.29	2.1	329.7		112.17	0.00	0.00	2.08		10.35	18.92	83.84	86.68	14-Mar-19 02:00:00		**122.52**	**18.92**	**83.84**	**88.76**
14-Mar-19 03:00:00	14-Mar-19 04:00:00		329.22	0.00	0.00	6.47	2.1	329.7		108.54	0.00	0.00	2.13		10.35	18.92	83.84	86.68	14-Mar-19 03:00:00		**118.89**	**18.92**	**83.84**	**88.81**
14-Mar-19 04:00:00	14-Mar-19 05:00:00		334.80	0.00	0.00	6.55	2.1	329.7		110.38	0.00	0.00	2.16		10.35	18.92	83.84	86.68	14-Mar-19 04:00:00		**120.73**	**18.92**	**83.84**	**88.84**
14-Mar-19 05:00:00	14-Mar-19 06:00:00		81.17	0.00	0.00	6.63	2.1	329.7		26.76	0.00	0.00	2.18		10.35	18.92	83.84	86.68	14-Mar-19 05:00:00		**37.11**	**18.92**	**83.84**	**88.86**
14-Mar-19 06:00:00	14-Mar-19 07:00:00		2.33	0.00	0.00	6.70	2.1	329.7		0.77	0.00	0.00	2.21		10.35	18.92	83.84	86.68	14-Mar-19 06:00:00		**11.12**	**18.92**	**83.84**	**88.89**
14-Mar-19 07:00:00	14-Mar-19 08:00:00		1.86	0.00	0.00	6.60	2.1	329.7		0.61	0.00	0.00	2.18		10.35	18.92	83.84	86.68	14-Mar-19 07:00:00		**10.96**	**18.92**	**83.84**	**88.86**
14-Mar-19 08:00:00	14-Mar-19 09:00:00		8.14	0.00	0.00	6.39	2.1	329.7		2.68	0.00	0.00	2.11		10.35	18.92	83.84	86.68	14-Mar-19 08:00:00		**13.03**	**18.92**	**83.84**	**88.79**
14-Mar-19 09:00:00	14-Mar-19 10:00:00		0.27	0.00	0.00	6.19	2.1	329.7		0.09	0.00	0.00	2.04		10.35	18.92	83.84	86.68	14-Mar-19 09:00:00		**10.44**	**18.92**	**83.84**	**88.72**
14-Mar-19 10:00:00	14-Mar-19 11:00:00		1.14	0.00	0.00	5.98	2.1	329.7		0.38	0.00	0.00	1.97		10.35	18.92	83.84	86.68	14-Mar-19 10:00:00		**10.73**	**18.92**	**83.84**	**88.65**
14-Mar-19 11:00:00	14-Mar-19 12:00:00		15.66	0.00	0.00	5.75	2.1	329.7		5.16	0.00	0.00	1.89		10.35	18.92	83.84	86.68	14-Mar-19 11:00:00		**15.51**	**18.92**	**83.84**	**88.57**
14-Mar-19 12:00:00	14-Mar-19 13:00:00		26.67	0.00	0.00	5.47	2.1	329.7		8.79	0.00	0.00	1.80		10.35	18.92	83.84	86.68	14-Mar-19 12:00:00		**19.14**	**18.92**	**83.84**	**88.48**
14-Mar-19 13:00:00	14-Mar-19 14:00:00		23.41	0.00	0.00	5.20	2.1	329.7		7.72	0.00	0.00	1.71		10.35	18.92	83.84	86.68	14-Mar-19 13:00:00		**18.07**	**18.92**	**83.84**	**88.39**
14-Mar-19 14:00:00	14-Mar-19 15:00:00		24.63	0.00	0.00	4.92	2.1	329.7		8.12	0.00	0.00	1.62		10.35	18.92	83.84	86.68	14-Mar-19 14:00:00		**18.47**	**18.92**	**83.84**	**88.30**
14-Mar-19 15:00:00	14-Mar-19 16:00:00		31.53	0.00	0.00	4.78	2.1	329.7		10.40	0.00	0.00	1.58		10.35	18.92	83.84	86.68	14-Mar-19 15:00:00		**20.75**	**18.92**	**83.84**	**88.26**
14-Mar-19 16:00:00	14-Mar-19 17:00:00		27.40	0.00	0.00	4.77	2.1	329.7		9.03	0.00	0.00	1.57		10.35	18.92	83.84	86.68	14-Mar-19 16:00:00		**19.38**	**18.92**	**83.84**	**88.25**
14-Mar-19 17:00:00	14-Mar-19 18:00:00		33.69	0.00	0.00	4.76	2.1	329.7		11.11	0.00	0.00	1.57		10.35	18.92	83.84	86.68	14-Mar-19 17:00:00		**21.46**	**18.92**	**83.84**	**88.25**
14-Mar-19 18:00:00	14-Mar-19 19:00:00		18.25	0.00	0.00	4.74	2.1	329.7		6.02	0.00	0.00	1.56		10.35	18.92	83.84	86.68	14-Mar-19 18:00:00		**16.37**	**18.92**	**83.84**	**88.24**
14-Mar-19 19:00:00	14-Mar-19 20:00:00		17.08	0.00	0.00	4.94	2.1	329.7		5.63	0.00	0.00	1.63		10.35	18.92	83.84	86.68	14-Mar-19 19:00:00		**15.98**	**18.92**	**83.84**	**88.31**
14-Mar-19 20:00:00	14-Mar-19 21:00:00		16.75	0.00	0.00	5.06	2.1	329.7		5.52	0.00	0.00	1.67		10.35	18.92	83.84	86.68	14-Mar-19 20:00:00		**15.87**	**18.92**	**83.84**	**88.35**
14-Mar-19 21:00:00	14-Mar-19 22:00:00		17.23	0.00	0.00	5.16	2.1	329.7		5.68	0.00	0.00	1.70		10.35	18.92	83.84	86.68	14-Mar-19 21:00:00		**16.03**	**18.92**	**83.84**	**88.38**
14-Mar-19 22:00:00	14-Mar-19 23:00:00		17.58	0.00	0.00	5.26	2.1	329.7		5.79	0.00	0.00	1.73		10.35	18.92	83.84	86.68	14-Mar-19 22:00:00		**16.14**	**18.92**	**83.84**	**88.41**
14-Mar-19 23:00:00	15-Mar-19 00:00:00		16.38	0.00	0.00	5.35	2.1	329.7		5.40	0.00	0.00	1.76		10.35	18.92	83.84	86.68	14-Mar-19 23:00:00		**15.75**	**18.92**	**83.84**	**88.44**
15-Mar-19 00:00:00	15-Mar-19 01:00:00		15.04	0.00	0.00	5.45	2.1	329.7		4.96	0.00	0.00	1.80		10.35	18.92	83.84	86.68	15-Mar-19 00:00:00		**15.31**	**18.92**	**83.84**	**88.48**
15-Mar-19 01:00:00	15-Mar-19 02:00:00		17.52	0.00	0.00	5.54	2.1	329.7		5.78	0.00	0.00	1.83		10.35	18.92	83.84	86.68	15-Mar-19 01:00:00		**16.13**	**18.92**	**83.84**	**88.51**
15-Mar-19 02:00:00	15-Mar-19 03:00:00		4.38	0.00	0.00	5.64	2.1	329.7		1.45	0.00	0.00	1.86		10.35	18.92	83.84	86.68	15-Mar-19 02:00:00		**11.80**	**18.92**	**83.84**	**88.54**
15-Mar-19 03:00:00	15-Mar-19 04:00:00		28.90	0.00	0.00	5.71	2.1	329.7		9.53	0.00	0.00	1.88		10.35	18.92	83.84	86.68	15-Mar-19 03:00:00		**19.88**	**18.92**	**83.84**	**88.56**
15-Mar-19 04:00:00	15-Mar-19 05:00:00		30.31	0.00	0.00	5.73	2.1	329.7		9.99	0.00	0.00	1.89		10.35	18.92	83.84	86.68	15-Mar-19 04:00:00		**20.34**	**18.92**	**83.84**	**88.57**
15-Mar-19 05:00:00	15-Mar-19 06:00:00		13.87	0.00	0.00	5.75	2.1	329.7		4.57	0.00	0.00	1.90		10.35	18.92	83.84	86.68	15-Mar-19 05:00:00		**14.92**	**18.92**	**83.84**	**88.58**
15-Mar-19 06:00:00	15-Mar-19 07:00:00		17.32	0.00	0.00	5.76	2.1	329.7		5.71	0.00	0.00	1.90		10.35	18.92	83.84	86.68	15-Mar-19 06:00:00		**16.06**	**18.92**	**83.84**	**88.58**
15-Mar-19 07:00:00	15-Mar-19 08:00:00		18.96	0.00	0.00	5.71	2.1	329.7		6.25	0.00	0.00	1.88		10.35	18.92	83.84	86.68	15-Mar-19 07:00:00		**16.60**	**18.92**	**83.84**	**88.56**
15-Mar-19 08:00:00	15-Mar-19 09:00:00		10.90	0.00	0.00	5.73	2.1	329.7		3.60	0.00	0.00	1.89		10.35	18.92	83.84	86.68	15-Mar-19 08:00:00		**13.95**	**18.92**	**83.84**	**88.57**
15-Mar-19 09:00:00	15-Mar-19 10:00:00		17.55	0.00	0.00	5.77	2.1	329.7		5.79	0.00	0.00	1.90		10.35	18.92	83.84	86.68	15-Mar-19 09:00:00		**16.14**	**18.92**	**83.84**	**88.58**
15-Mar-19 10:00:00	15-Mar-19 11:00:00		16.97	0.00	0.00	5.80	2.1	329.7		5.59	0.00	0.00	1.91		10.35	18.92	83.84	86.68	15-Mar-19 10:00:00		**15.94**	**18.92**	**83.84**	**88.59**
15-Mar-19 11:00:00	15-Mar-19 12:00:00		16.56	0.00	0.00	5.79	2.1	329.7		5.46	0.00	0.00	1.91		10.35	18.92	83.84	86.68	15-Mar-19 11:00:00		**15.81**	**18.92**	**83.84**	**88.59**
15-Mar-19 12:00:00	15-Mar-19 13:00:00		14.18	0.00	0.00	5.71	2.1	329.7		4.67	0.00	0.00	1.88		10.35	18.92	83.84	86.68	15-Mar-19 12:00:00		**15.02**	**18.92**	**83.84**	**88.56**
15-Mar-19 13:00:00	15-Mar-19 14:00:00		16.20	0.00	0.00	5.63	2.1	329.7		5.34	0.00	0.00	1.86		10.35	18.92	83.84	86.68	15-Mar-19 13:00:00		**15.69**	**18.92**	**83.84**	**88.54**
15-Mar-19 14:00:00	15-Mar-19 15:00:00		21.26	0.00	0.00	115.64	2.1	329.7		7.01	0.00	0.00	38.13		10.35	18.92	83.84	86.68	15-Mar-19 14:00:00		**17.36**	**18.92**	**83.84**	**124.81**
15-Mar-19 15:00:00	15-Mar-19 16:00:00		27.92	0.00	0.00	5.78	2.1	329.7		9.21	0.00	0.00	1.90		10.35	18.92	83.84	86.68	15-Mar-19 15:00:00		**19.56**	**18.92**	**83.84**	**88.58**
15-Mar-19 16:00:00	15-Mar-19 17:00:00		27.92	0.00	0.00	44.40	2.1	329.7		9.21	0.00	0.00	14.64		10.35	18.92	83.84	86.68	15-Mar-19 16:00:00		**19.56**	**18.92**	**83.84**	**101.32**
15-Mar-19 17:00:00	15-Mar-19 18:00:00		29.03	0.00	0.00	5.83	2.1	329.7		9.57	0.00	0.00	1.92		10.35	18.92	83.84	86.68	15-Mar-19 17:00:00		**19.92**	**18.92**	**83.84**	**88.60**
15-Mar-19 18:00:00	15-Mar-19 19:00:00		28.20	0.00	0.00	6.03	2.1	329.7		9.30	0.00	0.00	1.99		10.35	18.92	83.84	86.68	15-Mar-19 18:00:00		**19.65**	**18.92**	**83.84**	**88.67**
15-Mar-19 19:00:00	15-Mar-19 20:00:00		26.64	0.00	0.00	6.22	2.1	329.7		8.78	0.00	0.00	2.05		10.35	18.92	83.84	86.68	15-Mar-19 19:00:00		**19.13**	**18.92**	**83.84**	**88.73**
15-Mar-19 20:00:00	15-Mar-19 21:00:00		17.49	0.00	0.00	6.43	2.1	329.7		5.77	0.00	0.00	2.12		10.35	18.92	83.84	86.68	15-Mar-19 20:00:00		**16.12**	**18.92**	**83.84**	**88.80**
15-Mar-19 21:00:00	15-Mar-19 22:00:00		24.48	0.00	0.00	6.45	2.1	329.7		8.07	0.00	0.00	2.13		10.35	18.92	83.84	86.68	15-Mar-19 21:00:00		**18.42**	**18.92**	**83.84**	**88.81**
15-Mar-19 22:00:00	15-Mar-19 23:00:00		20.92	0.00	0.00	6.47	2.1	329.7		6.90	0.00	0.00	2.13		10.35	18.92	83.84	86.68	15-Mar-19 22:00:00		**17.25**	**18.92**	**83.84**	**88.81**
15-Mar-19 23:00:00	16-Mar-19 00:00:00		17.91	0.00	0.00	6.49	2.1	329.7		5.91	0.00	0.00	2.14		10.35	18.92	83.84	86.68	15-Mar-19 23:00:00		**16.26**	**18.92**	**83.84**	**88.82**
16-Mar-19 00:00:00	16-Mar-19 01:00:00		26.13	0.00	0.00	6.59	2.1	329.7		8.61	0.00	0.00	2.17		10.35	18.92	83.84	86.68	16-Mar-19 00:00:00		**18.96**	**18.92**	**83.84**	**88.85**
16-Mar-19 01:00:00	16-Mar-19 02:00:00		38.74	0.00	0.00	6.53	2.1	329.7		12.77	0.00	0.00	2.15		10.35	18.92	83.84	86.68	16-Mar-19 01:00:00		**23.12**	**18.92**	**83.84**	**88.83**
16-Mar-19 02:00:00	16-Mar-19 03:00:00		11.02	0.00	0.00	6.46	2.1	329.7		3.63	0.00	0.00	2.13		10.35	18.92	83.84	86.68	16-Mar-19 02:00:00		**13.98**	**18.92**	**83.84**	**88.81**
16-Mar-19 03:00:00	16-Mar-19 04:00:00		4.74	0.00	0.00	6.39	2.1	329.7		1.56	0.00	0.00	2.11		10.35	18.92	83.84	86.68	16-Mar-19 03:00:00		**11.91**	**18.92**	**83.84**	**88.79**
16-Mar-19 04:00:00	16-Mar-19 05:00:00		7.48	0.00	0.00	6.36	2.1	329.7		2.47	0.00	0.00	2.10		10.35	18.92	83.84	86.68	16-Mar-19 04:00:00		**12.82**	**18.92**	**83.84**	**88.78**
16-Mar-19 05:00:00	16-Mar-19 06:00:00		32.96	0.00	0.00	6.40	2.1	329.7		10.87	0.00	0.00	2.11		10.35	18.92	83.84	86.68	16-Mar-19 05:00:00		**21.22**	**18.92**	**83.84**	**88.79**
16-Mar-19 06:00:00	16-Mar-19 07:00:00		25.92	0.00	0.00	6.43	2.1	329.7		8.55	0.00	0.00	2.12		10.35	18.92	83.84	86.68	16-Mar-19 06:00:00		**18.90**	**18.92**	**83.84**	**88.80**
16-Mar-19 07:00:00	16-Mar-19 08:00:00		47.21	0.00	0.00	6.46	2.1	329.7		15.56	0.00	0.00	2.13		10.35	18.92	83.84	86.68	16-Mar-19 07:00:00		**25.91**	**18.92**	**83.84**	**88.81**
16-Mar-19 08:00:00	16-Mar-19 09:00:00		21.99	0.00	0.00	6.50	2.1	329.7		7.25	0.00	0.00	2.14		10.35	18.92	83.84	86.68	16-Mar-19 08:00:00		**17.60**	**18.92**	**83.84**	**88.82**
16-Mar-19 09:00:00	16-Mar-19 10:00:00		20.72	0.00	0.00	6.51	2.1	329.7		6.83	0.00	0.00	2.15		10.35	18.92	83.84	86.68	16-Mar-19 09:00:00		**17.18**	**18.92**	**83.84**	**88.83**
16-Mar-19 10:00:00	16-Mar-19 11:00:00		10.49	0.00	0.00	6.52	2.1	329.7		3.46	0.00	0.00	2.15		10.35	18.92	83.84	86.68	16-Mar-19 10:00:00		**13.81**	**18.92**	**83.84**	**88.83**
16-Mar-19 11:00:00	16-Mar-19 12:00:00		11.30	0.00	0.00	6.53	2.1	329.7		3.73	0.00	0.00	2.15		10.35	18.92	83.84	86.68	16-Mar-19 11:00:00		**14.08**	**18.92**	**83.84**	**88.83**
16-Mar-19 12:00:00	16-Mar-19 13:00:00		11.88	0.00	0.00	6.38	2.1	329.7		3.92	0.00	0.00	2.10		10.35	18.92	83.84	86.68	16-Mar-19 12:00:00		**14.27**	**18.92**	**83.84**	**88.78**
16-Mar-19 13:00:00	16-Mar-19 14:00:00		10.87	0.00	0.00	6.25	2.1	329.7		3.58	0.00	0.00	2.06		10.35	18.92	83.84	86.68	16-Mar-19 13:00:00		**13.93**	**18.92**	**83.84**	**88.74**
16-Mar-19 14:00:00	16-Mar-19 15:00:00		2.27	0.00	0.00	6.12	2.1	329.7		0.75	0.00	0.00	2.02		10.35	18.92	83.84	86.68	16-Mar-19 14:00:00		**11.10**	**18.92**	**83.84**	**88.70**
16-Mar-19 15:00:00	16-Mar-19 16:00:00		5.47	0.00	0.00	6.00	2.1	329.7		1.80	0.00	0.00	1.98		10.35	18.92	83.84	86.68	16-Mar-19 15:00:00		**12.15**	**18.92**	**83.84**	**88.66**
16-Mar-19 16:00:00	16-Mar-19 17:00:00		0.87	0.00	0.00	5.98	2.1	329.7		0.29	0.00	0.00	1.97		10.35	18.92	83.84	86.68	16-Mar-19 16:00:00		**10.64**	**18.92**	**83.84**	**88.65**
16-Mar-19 17:00:00	16-Mar-19 18:00:00		1.46	0.00	0.00	6.04	2.1	329.7		0.48	0.00	0.00	1.99		10.35	18.92	83.84	86.68	16-Mar-19 17:00:00		**10.83**	**18.92**	**83.84**	**88.67**
16-Mar-19 18:00:00	16-Mar-19 19:00:00		2.31	0.00	0.00	6.11	2.1	329.7		0.76	0.00	0.00	2.01		10.35	18.92	83.84	86.68	16-Mar-19 18:00:00		**11.11**	**18.92**	**83.84**	**88.69**
16-Mar-19 19:00:00	16-Mar-19 20:00:00		1.54	0.00	0.00	6.17	2.1	329.7		0.51	0.00	0.00	2.03		10.35	18.92	83.84	86.68	16-Mar-19 19:00:00		**10.86**	**18.92**	**83.84**	**88.71**
16-Mar-19 20:00:00	16-Mar-19 21:00:00		1.34	0.00	0.00	6.40	2.1	329.7		0.44	0.00	0.00	2.11		10.35	18.92	83.84	86.68	16-Mar-19 20:00:00		**10.79**	**18.92**	**83.84**	**88.79**
16-Mar-19 21:00:00	16-Mar-19 22:00:00		11.18	0.00	0.00	6.65	2.1	329.7		3.68	0.00	0.00	2.19		10.35	18.92	83.84	86.68	16-Mar-19 21:00:00		**14.03**	**18.92**	**83.84**	**88.87**
16-Mar-19 22:00:00	16-Mar-19 23:00:00		32.77	0.00	0.00	6.90	2.1	329.7		10.80	0.00	0.00	2.27		10.35	18.92	83.84	86.68	16-Mar-19 22:00:00		**21.15**	**18.92**	**83.84**	**88.95**
16-Mar-19 23:00:00	17-Mar-19 00:00:00		61.82	0.00	0.00	7.15	2.1	329.7		20.38	0.00	0.00	2.36		10.35	18.92	83.84	86.68	16-Mar-19 23:00:00		**30.73**	**18.92**	**83.84**	**89.04**
17-Mar-19 00:00:00	17-Mar-19 01:00:00		51.91	0.00	0.00	7.20	2.1	329.7		17.11	0.00	0.00	2.38		10.35	18.92	83.84	86.68	17-Mar-19 00:00:00		**27.46**	**18.92**	**83.84**	**89.06**
17-Mar-19 01:00:00	17-Mar-19 02:00:00		64.29	0.00	0.00	7.23	2.1	329.7		21.19	0.00	0.00	2.39		10.35	18.92	83.84	86.68	17-Mar-19 01:00:00		**31.54**	**18.92**	**83.84**	**89.07**
17-Mar-19 02:00:00	17-Mar-19 03:00:00		53.32	0.00	0.00	7.28	2.1	329.7		17.58	0.00	0.00	2.40		10.35	18.92	83.84	86.68	17-Mar-19 02:00:00		**27.93**	**18.92**	**83.84**	**89.08**
17-Mar-19 03:00:00	17-Mar-19 04:00:00		60.67	0.00	0.00	7.33	2.1	329.7		20.00	0.00	0.00	2.42		10.35	18.92	83.84	86.68	17-Mar-19 03:00:00		**30.35**	**18.92**	**83.84**	**89.10**
17-Mar-19 04:00:00	17-Mar-19 05:00:00		56.96	0.00	0.00	7.36	2.1	329.7		18.78	0.00	0.00	2.43		10.35	18.92	83.84	86.68	17-Mar-19 04:00:00		**29.13**	**18.92**	**83.84**	**89.11**
17-Mar-19 05:00:00	17-Mar-19 06:00:00		44.13	0.00	0.00	7.25	2.1	329.7		14.55	0.00	0.00	2.39		10.35	18.92	83.84	86.68	17-Mar-19 05:00:00		**24.90**	**18.92**	**83.84**	**89.07**
17-Mar-19 06:00:00	17-Mar-19 07:00:00		41.53	0.00	0.00	7.13	2.1	329.7		13.69	0.00	0.00	2.35		10.35	18.92	83.84	86.68	17-Mar-19 06:00:00		**24.04**	**18.92**	**83.84**	**89.03**
17-Mar-19 07:00:00	17-Mar-19 08:00:00		60.53	0.00	0.00	7.00	2.1	329.7		19.96	0.00	0.00	2.31		10.35	18.92	83.84	86.68	17-Mar-19 07:00:00		**30.31**	**18.92**	**83.84**	**88.99**
17-Mar-19 08:00:00	17-Mar-19 09:00:00		64.06	0.00	0.00	6.93	2.1	329.7		21.12	0.00	0.00	2.28		10.35	18.92	83.84	86.68	17-Mar-19 08:00:00		**31.47**	**18.92**	**83.84**	**88.96**
17-Mar-19 09:00:00	17-Mar-19 10:00:00		68.10	0.00	0.00	6.82	2.1	329.7		22.45	0.00	0.00	2.25		10.35	18.92	83.84	86.68	17-Mar-19 09:00:00		**32.80**	**18.92**	**83.84**	**88.93**
17-Mar-19 10:00:00	17-Mar-19 11:00:00		77.16	0.00	0.00	6

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
19-Mar-19 12:00:00	19-Mar-19 13:00:00		38.81	0.00	0.00	6.49	2.1	329.7		12.80	0.00	0.00	2.14		10.35	18.92	83.84	86.68	19-Mar-19 12:00:00		**23.15**	**18.92**	**83.84**	**88.82**
19-Mar-19 13:00:00	19-Mar-19 14:00:00		26.13	0.00	0.00	6.31	2.1	329.7		8.61	0.00	0.00	2.08		10.35	18.92	83.84	86.68	19-Mar-19 13:00:00		**18.96**	**18.92**	**83.84**	**88.76**
19-Mar-19 14:00:00	19-Mar-19 15:00:00		33.67	0.00	0.00	6.12	2.1	329.7		11.10	0.00	0.00	2.02		10.35	18.92	83.84	86.68	19-Mar-19 14:00:00		**21.45**	**18.92**	**83.84**	**88.70**
19-Mar-19 15:00:00	19-Mar-19 16:00:00		66.36	0.00	0.00	5.93	2.1	329.7		21.88	0.00	0.00	1.96		10.35	18.92	83.84	86.68	19-Mar-19 15:00:00		**32.23**	**18.92**	**83.84**	**88.64**
19-Mar-19 16:00:00	19-Mar-19 17:00:00		38.39	0.00	0.00	5.87	2.1	329.7		12.66	0.00	0.00	1.94		10.35	18.92	83.84	86.68	19-Mar-19 16:00:00		**23.01**	**18.92**	**83.84**	**88.62**
19-Mar-19 17:00:00	19-Mar-19 18:00:00		35.23	0.00	0.00	5.90	2.1	329.7		11.62	0.00	0.00	1.94		10.35	18.92	83.84	86.68	19-Mar-19 17:00:00		**21.97**	**18.92**	**83.84**	**88.62**
19-Mar-19 18:00:00	19-Mar-19 19:00:00		66.52	0.00	0.00	5.89	2.1	329.7		21.93	0.00	0.00	1.94		10.35	18.92	83.84	86.68	19-Mar-19 18:00:00		**32.28**	**18.92**	**83.84**	**88.62**
19-Mar-19 19:00:00	19-Mar-19 20:00:00		69.53	0.00	0.00	5.88	2.1	329.7		22.92	0.00	0.00	1.94		10.35	18.92	83.84	86.68	19-Mar-19 19:00:00		**33.27**	**18.92**	**83.84**	**88.62**
19-Mar-19 20:00:00	19-Mar-19 21:00:00		67.15	0.00	0.00	5.94	2.1	329.7		22.14	0.00	0.00	1.96		10.35	18.92	83.84	86.68	19-Mar-19 20:00:00		**32.49**	**18.92**	**83.84**	**88.64**
19-Mar-19 21:00:00	19-Mar-19 22:00:00		67.22	0.00	0.00	6.21	2.1	329.7		22.16	0.00	0.00	2.05		10.35	18.92	83.84	86.68	19-Mar-19 21:00:00		**32.51**	**18.92**	**83.84**	**88.73**
19-Mar-19 22:00:00	19-Mar-19 23:00:00		44.84	0.00	0.00	6.48	2.1	329.7		14.79	0.00	0.00	2.14		10.35	18.92	83.84	86.68	19-Mar-19 22:00:00		**25.14**	**18.92**	**83.84**	**88.82**
19-Mar-19 23:00:00	20-Mar-19 00:00:00		42.68	0.00	0.00	6.76	2.1	329.7		14.07	0.00	0.00	2.23		10.35	18.92	83.84	86.68	19-Mar-19 23:00:00		**24.42**	**18.92**	**83.84**	**88.91**
20-Mar-19 00:00:00	20-Mar-19 01:00:00		41.08	0.00	0.00	7.06	2.1	329.7		13.54	0.00	0.00	2.33		10.35	18.92	83.84	86.68	20-Mar-19 00:00:00		**23.89**	**18.92**	**83.84**	**89.01**
20-Mar-19 01:00:00	20-Mar-19 02:00:00		21.58	0.00	0.00	7.15	2.1	329.7		7.12	0.00	0.00	2.36		10.35	18.92	83.84	86.68	20-Mar-19 01:00:00		**17.47**	**18.92**	**83.84**	**89.04**
20-Mar-19 02:00:00	20-Mar-19 03:00:00		21.18	0.00	0.00	7.18	2.1	329.7		6.98	0.00	0.00	2.37		10.35	18.92	83.84	86.68	20-Mar-19 02:00:00		**17.33**	**18.92**	**83.84**	**89.05**
20-Mar-19 03:00:00	20-Mar-19 04:00:00		33.28	0.00	0.00	7.22	2.1	329.7		10.97	0.00	0.00	2.38		10.35	18.92	83.84	86.68	20-Mar-19 03:00:00		**21.32**	**18.92**	**83.84**	**89.06**
20-Mar-19 04:00:00	20-Mar-19 05:00:00		12.20	0.00	0.00	7.30	2.1	329.7		4.02	0.00	0.00	2.41		10.35	18.92	83.84	86.68	20-Mar-19 04:00:00		**14.37**	**18.92**	**83.84**	**89.09**
20-Mar-19 05:00:00	20-Mar-19 06:00:00		10.78	0.00	0.00	7.37	2.1	329.7		3.55	0.00	0.00	2.43		10.35	18.92	83.84	86.68	20-Mar-19 05:00:00		**13.90**	**18.92**	**83.84**	**89.11**
20-Mar-19 06:00:00	20-Mar-19 07:00:00		20.13	0.00	0.00	7.42	2.1	329.7		6.64	0.00	0.00	2.45		10.35	18.92	83.84	86.68	20-Mar-19 06:00:00		**16.99**	**18.92**	**83.84**	**89.13**
20-Mar-19 07:00:00	20-Mar-19 08:00:00		20.77	0.00	0.00	7.48	2.1	329.7		6.85	0.00	0.00	2.46		10.35	18.92	83.84	86.68	20-Mar-19 07:00:00		**17.20**	**18.92**	**83.84**	**89.14**
20-Mar-19 08:00:00	20-Mar-19 09:00:00		19.79	0.00	0.00	7.44	2.1	329.7		6.53	0.00	0.00	2.45		10.35	18.92	83.84	86.68	20-Mar-19 08:00:00		**16.88**	**18.92**	**83.84**	**89.13**
20-Mar-19 09:00:00	20-Mar-19 10:00:00		18.59	0.00	0.00	7.20	2.1	329.7		6.13	0.00	0.00	2.37		10.35	18.92	83.84	86.68	20-Mar-19 09:00:00		**16.48**	**18.92**	**83.84**	**89.05**
20-Mar-19 10:00:00	20-Mar-19 11:00:00		13.46	0.00	0.00	6.96	2.1	329.7		4.44	0.00	0.00	2.29		10.35	18.92	83.84	86.68	20-Mar-19 10:00:00		**14.79**	**18.92**	**83.84**	**88.97**
20-Mar-19 11:00:00	20-Mar-19 12:00:00		3.71	0.00	0.00	6.71	2.1	329.7		1.22	0.00	0.00	2.21		10.35	18.92	83.84	86.68	20-Mar-19 11:00:00		**11.57**	**18.92**	**83.84**	**88.89**
20-Mar-19 12:00:00	20-Mar-19 13:00:00		10.96	0.00	0.00	6.46	2.1	329.7		3.61	0.00	0.00	2.13		10.35	18.92	83.84	86.68	20-Mar-19 12:00:00		**13.96**	**18.92**	**83.84**	**88.81**
20-Mar-19 13:00:00	20-Mar-19 14:00:00		10.88	0.00	0.00	6.26	2.1	329.7		3.59	0.00	0.00	2.06		10.35	18.92	83.84	86.68	20-Mar-19 13:00:00		**13.94**	**18.92**	**83.84**	**88.74**
20-Mar-19 14:00:00	20-Mar-19 15:00:00		0.11	166.78	0.00	6.08	2.1	329.7		0.04	54.99	0.00	2.01		10.35	18.92	83.84	86.68	20-Mar-19 14:00:00		**10.39**	**73.91**	**83.84**	**88.69**
20-Mar-19 15:00:00	20-Mar-19 16:00:00		0.00	375.45	0.00	5.91	2.1	329.7		0.00	123.79	0.00	1.95		10.35	18.92	83.84	86.68	20-Mar-19 15:00:00		**10.35**	**142.71**	**83.84**	**88.63**
20-Mar-19 16:00:00	20-Mar-19 17:00:00		0.00	607.80	0.00	5.79	2.1	329.7		0.00	200.39	0.00	1.91		10.35	18.92	83.84	86.68	20-Mar-19 16:00:00		**10.35**	**219.31**	**83.84**	**88.59**
20-Mar-19 17:00:00	20-Mar-19 18:00:00		0.00	658.18	0.00	5.89	2.1	329.7		0.00	217.00	0.00	1.94		10.35	18.92	83.84	86.68	20-Mar-19 17:00:00		**10.35**	**235.92**	**83.84**	**88.62**
20-Mar-19 18:00:00	20-Mar-19 19:00:00		0.00	1,150.55	0.00	6.02	2.1	329.7		0.00	379.33	0.00	1.98		10.35	18.92	83.84	86.68	20-Mar-19 18:00:00		**10.35**	**398.25**	**83.84**	**88.66**
20-Mar-19 19:00:00	20-Mar-19 20:00:00		0.00	1,423.08	0.00	6.14	2.1	329.7		0.00	469.19	0.00	2.03		10.35	18.92	83.84	86.68	20-Mar-19 19:00:00		**10.35**	**488.11**	**83.84**	**88.71**
20-Mar-19 20:00:00	20-Mar-19 21:00:00		0.00	1,020.81	0.00	6.13	2.1	329.7		0.00	336.56	0.00	2.02		10.35	18.92	83.84	86.68	20-Mar-19 20:00:00		**10.35**	**355.48**	**83.84**	**88.70**
20-Mar-19 21:00:00	20-Mar-19 22:00:00		0.00	1,017.28	0.00	6.24	2.1	329.7		0.00	335.40	0.00	2.06		10.35	18.92	83.84	86.68	20-Mar-19 21:00:00		**10.35**	**354.32**	**83.84**	**88.74**
20-Mar-19 22:00:00	20-Mar-19 23:00:00		6.65	1,015.31	0.00	6.46	2.1	329.7		2.19	334.75	0.00	2.13		10.35	18.92	83.84	86.68	20-Mar-19 22:00:00		**12.54**	**353.67**	**83.84**	**88.81**
20-Mar-19 23:00:00	21-Mar-19 00:00:00		8.62	522.82	0.00	6.68	2.1	329.7		2.84	172.38	0.00	2.20		10.35	18.92	83.84	86.68	20-Mar-19 23:00:00		**13.19**	**191.30**	**83.84**	**88.88**
21-Mar-19 00:00:00	21-Mar-19 01:00:00		8.35	0.00	0.00	6.86	2.1	329.7		2.75	0.00	0.00	2.26		10.35	18.92	83.84	86.68	21-Mar-19 00:00:00		**13.10**	**18.92**	**83.84**	**88.94**
21-Mar-19 01:00:00	21-Mar-19 02:00:00		8.88	0.00	0.00	6.77	2.1	329.7		2.93	0.00	0.00	2.23		10.35	18.92	83.84	86.68	21-Mar-19 01:00:00		**13.28**	**18.92**	**83.84**	**88.91**
21-Mar-19 02:00:00	21-Mar-19 03:00:00		7.63	0.00	0.00	6.63	2.1	329.7		2.52	0.00	0.00	2.19		10.35	18.92	83.84	86.68	21-Mar-19 02:00:00		**12.87**	**18.92**	**83.84**	**88.87**
21-Mar-19 03:00:00	21-Mar-19 04:00:00		8.24	0.00	0.00	6.49	2.1	329.7		2.72	0.00	0.00	2.14		10.35	18.92	83.84	86.68	21-Mar-19 03:00:00		**13.07**	**18.92**	**83.84**	**88.82**
21-Mar-19 04:00:00	21-Mar-19 05:00:00		6.91	0.00	0.00	6.44	2.1	329.7		2.28	0.00	0.00	2.12		10.35	18.92	83.84	86.68	21-Mar-19 04:00:00		**12.63**	**18.92**	**83.84**	**88.80**
21-Mar-19 05:00:00	21-Mar-19 06:00:00		5.22	0.00	0.00	6.60	2.1	329.7		1.72	0.00	0.00	2.17		10.35	18.92	83.84	86.68	21-Mar-19 05:00:00		**12.07**	**18.92**	**83.84**	**88.85**
21-Mar-19 06:00:00	21-Mar-19 07:00:00		5.75	0.00	0.00	6.75	2.1	329.7		1.90	0.00	0.00	2.22		10.35	18.92	83.84	86.68	21-Mar-19 06:00:00		**12.25**	**18.92**	**83.84**	**88.90**
21-Mar-19 07:00:00	21-Mar-19 08:00:00		5.64	0.00	0.00	6.90	2.1	329.7		1.86	0.00	0.00	2.27		10.35	18.92	83.84	86.68	21-Mar-19 07:00:00		**12.21**	**18.92**	**83.84**	**88.95**
21-Mar-19 08:00:00	21-Mar-19 09:00:00		5.54	0.00	0.00	6.93	2.1	329.7		1.83	0.00	0.00	2.28		10.35	18.92	83.84	86.68	21-Mar-19 08:00:00		**12.18**	**18.92**	**83.84**	**88.96**
21-Mar-19 09:00:00	21-Mar-19 10:00:00		4.80	0.00	0.00	6.79	2.1	329.7		1.58	0.00	0.00	2.24		10.35	18.92	83.84	86.68	21-Mar-19 09:00:00		**11.93**	**18.92**	**83.84**	**88.92**
21-Mar-19 10:00:00	21-Mar-19 11:00:00		3.91	0.00	0.00	6.68	2.1	329.7		1.29	0.00	0.00	2.20		10.35	18.92	83.84	86.68	21-Mar-19 10:00:00		**11.64**	**18.92**	**83.84**	**88.88**
21-Mar-19 11:00:00	21-Mar-19 12:00:00		4.44	0.00	0.00	6.57	2.1	329.7		1.46	0.00	0.00	2.17		10.35	18.92	83.84	86.68	21-Mar-19 11:00:00		**11.81**	**18.92**	**83.84**	**88.85**
21-Mar-19 12:00:00	21-Mar-19 13:00:00		2.60	0.00	0.00	6.40	2.1	329.7		0.86	0.00	0.00	2.11		10.35	18.92	83.84	86.68	21-Mar-19 12:00:00		**11.21**	**18.92**	**83.84**	**88.79**
21-Mar-19 13:00:00	21-Mar-19 14:00:00		1.08	0.00	0.00	6.29	2.1	329.7		0.36	0.00	0.00	2.08		10.35	18.92	83.84	86.68	21-Mar-19 13:00:00		**10.71**	**18.92**	**83.84**	**88.76**
21-Mar-19 14:00:00	21-Mar-19 15:00:00		7.79	0.00	0.00	6.25	2.1	329.7		2.57	0.00	0.00	2.06		10.35	18.92	83.84	86.68	21-Mar-19 14:00:00		**12.92**	**18.92**	**83.84**	**88.74**
21-Mar-19 15:00:00	21-Mar-19 16:00:00		2.01	0.00	0.00	6.20	2.1	329.7		0.66	0.00	0.00	2.04		10.35	18.92	83.84	86.68	21-Mar-19 15:00:00		**11.01**	**18.92**	**83.84**	**88.72**
21-Mar-19 16:00:00	21-Mar-19 17:00:00		1.40	0.00	0.00	6.23	2.1	329.7		0.46	0.00	0.00	2.05		10.35	18.92	83.84	86.68	21-Mar-19 16:00:00		**10.81**	**18.92**	**83.84**	**88.73**
21-Mar-19 17:00:00	21-Mar-19 18:00:00		0.80	0.00	0.00	6.27	2.1	329.7		0.26	0.00	0.00	2.07		10.35	18.92	83.84	86.68	21-Mar-19 17:00:00		**10.61**	**18.92**	**83.84**	**88.75**
21-Mar-19 18:00:00	21-Mar-19 19:00:00		0.20	0.00	0.00	6.26	2.1	329.7		0.07	0.00	0.00	2.07		10.35	18.92	83.84	86.68	21-Mar-19 18:00:00		**10.42**	**18.92**	**83.84**	**88.75**
21-Mar-19 19:00:00	21-Mar-19 20:00:00		0.00	0.00	0.00	6.26	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	21-Mar-19 19:00:00		**10.35**	**18.92**	**83.84**	**88.74**
21-Mar-19 20:00:00	21-Mar-19 21:00:00		0.00	0.00	0.00	6.39	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	21-Mar-19 20:00:00		**10.35**	**18.92**	**83.84**	**88.79**
21-Mar-19 21:00:00	21-Mar-19 22:00:00		0.00	0.00	0.00	6.70	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	21-Mar-19 21:00:00		**10.35**	**18.92**	**83.84**	**88.89**
21-Mar-19 22:00:00	21-Mar-19 23:00:00		0.00	0.00	0.00	6.99	2.1	329.7		0.00	0.00	0.00	2.30		10.35	18.92	83.84	86.68	21-Mar-19 22:00:00		**10.35**	**18.92**	**83.84**	**88.98**
21-Mar-19 23:00:00	22-Mar-19 00:00:00		0.20	0.00	0.00	7.27	2.1	329.7		0.07	0.00	0.00	2.40		10.35	18.92	83.84	86.68	21-Mar-19 23:00:00		**10.42**	**18.92**	**83.84**	**89.08**
22-Mar-19 00:00:00	22-Mar-19 01:00:00		0.00	50.43	0.00	7.56	2.1	329.7		0.00	16.63	0.00	2.49		10.35	18.92	83.84	86.68	22-Mar-19 00:00:00		**10.35**	**35.55**	**83.84**	**89.17**
22-Mar-19 01:00:00	22-Mar-19 02:00:00		0.00	48.06	0.00	7.68	2.1	329.7		0.00	15.85	0.00	2.53		10.35	18.92	83.84	86.68	22-Mar-19 01:00:00		**10.35**	**34.77**	**83.84**	**89.21**
22-Mar-19 02:00:00	22-Mar-19 03:00:00		226.18	0.00	0.00	7.74	2.1	329.7		74.57	0.00	0.00	2.55		10.35	18.92	83.84	86.68	22-Mar-19 02:00:00		**84.92**	**18.92**	**83.84**	**89.23**
22-Mar-19 03:00:00	22-Mar-19 04:00:00		279.50	0.00	0.00	7.80	2.1	329.7		92.15	0.00	0.00	2.57		10.35	18.92	83.84	86.68	22-Mar-19 03:00:00		**102.50**	**18.92**	**83.84**	**89.25**
22-Mar-19 04:00:00	22-Mar-19 05:00:00		282.44	0.00	0.00	7.97	2.1	329.7		93.12	0.00	0.00	2.63		10.35	18.92	83.84	86.68	22-Mar-19 04:00:00		**103.47**	**18.92**	**83.84**	**89.31**
22-Mar-19 05:00:00	22-Mar-19 06:00:00		327.58	0.00	0.00	8.10	2.1	329.7		108.00	0.00	0.00	2.67		10.35	18.92	83.84	86.68	22-Mar-19 05:00:00		**118.35**	**18.92**	**83.84**	**89.35**
22-Mar-19 06:00:00	22-Mar-19 07:00:00		332.16	0.00	0.00	8.15	2.1	329.7		109.51	0.00	0.00	2.69		10.35	18.92	83.84	86.68	22-Mar-19 06:00:00		**119.86**	**18.92**	**83.84**	**89.37**
22-Mar-19 07:00:00	22-Mar-19 08:00:00		328.83	0.00	0.00	8.19	2.1	329.7		108.42	0.00	0.00	2.70		10.35	18.92	83.84	86.68	22-Mar-19 07:00:00		**118.77**	**18.92**	**83.84**	**89.38**
22-Mar-19 08:00:00	22-Mar-19 09:00:00		326.21	0.00	0.00	8.20	2.1	329.7		107.55	0.00	0.00	2.70		10.35	18.92	83.84	86.68	22-Mar-19 08:00:00		**117.90**	**18.92**	**83.84**	**89.38**
22-Mar-19 09:00:00	22-Mar-19 10:00:00		323.76	0.00	0.00	7.92	2.1	329.7		106.74	0.00	0.00	2.61		10.35	18.92	83.84	86.68	22-Mar-19 09:00:00		**117.09**	**18.92**	**83.84**	**89.29**
22-Mar-19 10:00:00	22-Mar-19 11:00:00		323.61	0.00	0.00	7.60	2.1	329.7		106.69	0.00	0.00	2.51		10.35	18.92	83.84	86.68	22-Mar-19 10:00:00		**117.04**	**18.92**	**83.84**	**89.19**
22-Mar-19 11:00:00	22-Mar-19 12:00:00		324.51	0.00	0.00	7.27	2.1	329.7		106.99	0.00	0.00	2.40		10.35	18.92	83.84	86.68	22-Mar-19 11:00:00		**117.34**	**18.92**	**83.84**	**89.08**
22-Mar-19 12:00:00	22-Mar-19 13:00:00		334.36	0.00	0.00	7.01	2.1	329.7		110.24	0.00	0.00	2.31		10.35	18.92	83.84	86.68	22-Mar-19 12:00:00		**120.59**	**18.92**	**83.84**	**88.99**
22-Mar-19 13:00:00	22-Mar-19 14:00:00		88.54	0.00	0.00	6.76	2.1	329.7		29.19	0.00	0.00	2.23		10.35	18.92	83.84	86.68	22-Mar-19 13:00:00		**39.54**	**18.92**	**83.84**	**88.91**
22-Mar-19 14:00:00	22-Mar-19 15:00:00		0.00	0.00	0.00	6.46	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	22-Mar-19 14:00:00		**10.35**	**18.92**	**83.84**	**88.81**
22-Mar-19 15:00:00	22-Mar-19 16:00:00		0.06	0.00	0.00	6.16	2.1	329.7		0.02	0.00	0.00	2.03		10.35	18.92	83.84	86.68	22-Mar-19 15:00:00		**10.37**	**18.92**	**83.84**	**88.71**
22-Mar-19 16:00:00	22-Mar-19 17:00:00		0.07	0.00	0.00	5.99	2.1	329.7		0.02	0.00	0.00	1.97		10.35	18.92	83.84	86.68	22-Mar-19 16:00:00		**10.37**	**18.92**	**83.84**	**88.65**
22-Mar-19 17:00:00	22-Mar-19 18:00:00		30.74	0.00	0.00	6.01	2.1	329.7		10.13	0.00	0.00	1.98		10.35	18.92	83.84	86.68	22-Mar-19 17:00:00		**20.48**	**18.92**	**83.84**	**88.66**
22-Mar-19 18:00:00	22-Mar-19 19:00:00		254.69	0.00	0.00	5.96	2.1	329.7		83.97	0.00	0.00	1.96		10.35	18.92	83.84	86.68	22-Mar-19 18:00:00		**94.32**	**18.92**	**83.84**	**88.64**
22-Mar-19 19:00:00	22-Mar-19 20:00:00		257.47	0.00	0.00	5.91	2.1	329.7		84.89	0.00	0.00	1.95		10.35	18.92	83.84	86.68	22-Mar-19 19:00:00		**95.24**	**18.92**	**83.84**	**88.63**
22-Mar-19 20:00:00	22-Mar-19 21:00:00		259.73	0.00	0.00	5.91	2.1	329.7		85.63	0.00	0.00	1.95		10.35	18.92	83.84	86.68	22-Mar-19 20:00:00		**95.98**	**18.92**	**83.84**	**88.63**
22-Mar-19 21:00:00	22-Mar-19 22:00:00		255.07	0.00	0.00	6.03	2.1	329.7		84.10	0.00	0.00	1.99		10.35	18.92	83.84	86.68	22-Mar-19 21:00:00		**94.45**	**18.92**	**83.84**	**88.67**
22-Mar-19 22:00:00	22-Mar-19 23:00:00		137.34	0.00	0.00	6.13	2.1	329.7		45.28	0.00	0.00	2.02		10.35	18.92	83.84	86.68	22-Mar-19 22:00:00		**55.63**	**18.92**	**83.84**	**88.70**
22-Mar-19 23:00:00	23-Mar-19 00:00:00		0.00	0.00	0.00	6.24	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	22-Mar-19 23:00:00		**10.35**	**18.92**	**83.84**	**88.74**
23-Mar-19 00:00:00	23-Mar-19 01:00:00		0.00	0.00	0.00	6.30	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	23-Mar-19 00:00:00		**10.35**	**18.92**	**83.84**	**88.76**
23-Mar-19 01:00:00	23-Mar-19 02:00:00		0.00	0.00	0.00	10.15	2.1	329.7		0.00	0.00	0.00	3.35		10.35	18.92	83.84	86.68	23-Mar-19 01:00:00		**10.35**	**18.92**	**83.84**	**90.03**
23-Mar-19 02:00:00	23-Mar-19 03:00:00		0.00	0.00	0.00	6.70	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	23-Mar-19 02:00:00		**10.35**	**18.92**	**83.84**	**88.89**
23-Mar-19 03:00:00	23-Mar-19 04:00:00		0.75	0.00	0.00	7.03	2.1	329.7		0.25	0.00	0.00	2.32		10.35	18.92	83.84	86.68	23-Mar-19 03:00:00		**10.60**	**18.92**	**83.84**	**89.00**
23-Mar-19 04:00:00	23-Mar-19 05:00:00		8.11	0.00	0.00	7.37	2.1	329.7		2.67	0.00	0.00	2.43		10.35	18.92	83.84	86.68	23-Mar-19 04:00:00		**13.02**	**18.92**	**83.84**	**89.11**
23-Mar-19 05:00:00	23-Mar-19 06:00:00		17.65	0.00	0.00	7.62	2.1	329.7		5.82	0.00	0.00	2.51		10.35	18.92	83.84	86.68	23-Mar-19 05:00:00		**16.17**	**18.92**	**83.84**	**89.19**
23-Mar-19 06:00:00	23-Mar-19 07:00:00		4.40	0.00	0.00	7.71	2.1	329.7		1.45	0.00	0.00	2.54		10.35	18.92	83.84	86.68	23-Mar-19 06:00:00		**11.80**	**18.92**	**83.84**	**89.22**
23-Mar-19 07:00:00	23-Mar-19 08:00:00		48.35	0.00	0.00	7.80	2.1	329.7		15.94	0.00	0.00	2.57		10.35	18.92	83.84	86.68	23-Mar-19 07:00:00		**26.29**	**18.92**	**83.84**	**89.25**
23-Mar-19 08:00:00	23-Mar-19 09:00:00		11.79	0.00	0.00	7.89	2.1	329.7		3.89	0.00	0.00	2.60		10.35	18.92	83.84	86.68	23-Mar-19 08:00:00		**14.24**	**18.92**	**83.84**	**89.28**
23-Mar-19 09:00:00	23-Mar-19 10:00:00		130.41	0.00	0

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
25-Mar-19 11:00:00	25-Mar-19 12:00:00		0.00	0.00	0.00	6.17	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	25-Mar-19 11:00:00		**10.35**	**18.92**	**83.84**	**88.71**
25-Mar-19 12:00:00	25-Mar-19 13:00:00		0.21	0.00	0.00	5.85	2.1	329.7		0.07	0.00	0.00	1.93		10.35	18.92	83.84	86.68	25-Mar-19 12:00:00		**10.42**	**18.92**	**83.84**	**88.61**
25-Mar-19 13:00:00	25-Mar-19 14:00:00		0.94	0.00	0.00	5.54	2.1	329.7		0.31	0.00	0.00	1.83		10.35	18.92	83.84	86.68	25-Mar-19 13:00:00		**10.66**	**18.92**	**83.84**	**88.51**
25-Mar-19 14:00:00	25-Mar-19 15:00:00		7.89	0.00	0.00	5.46	2.1	329.7		2.60	0.00	0.00	1.80		10.35	18.92	83.84	86.68	25-Mar-19 14:00:00		**12.95**	**18.92**	**83.84**	**88.48**
25-Mar-19 15:00:00	25-Mar-19 16:00:00		5.03	0.00	0.00	5.47	2.1	329.7		1.66	0.00	0.00	1.80		10.35	18.92	83.84	86.68	25-Mar-19 15:00:00		**12.01**	**18.92**	**83.84**	**88.48**
25-Mar-19 16:00:00	25-Mar-19 17:00:00		4.86	0.00	0.00	5.48	2.1	329.7		1.60	0.00	0.00	1.81		10.35	18.92	83.84	86.68	25-Mar-19 16:00:00		**11.95**	**18.92**	**83.84**	**88.49**
25-Mar-19 17:00:00	25-Mar-19 18:00:00		5.07	0.00	0.00	5.47	2.1	329.7		1.67	0.00	0.00	1.80		10.35	18.92	83.84	86.68	25-Mar-19 17:00:00		**12.02**	**18.92**	**83.84**	**88.48**
25-Mar-19 18:00:00	25-Mar-19 19:00:00		2.93	0.00	0.00	5.65	2.1	329.7		0.97	0.00	0.00	1.86		10.35	18.92	83.84	86.68	25-Mar-19 18:00:00		**11.32**	**18.92**	**83.84**	**88.54**
25-Mar-19 19:00:00	25-Mar-19 20:00:00		1.50	0.00	0.00	5.98	2.1	329.7		0.50	0.00	0.00	1.97		10.35	18.92	83.84	86.68	25-Mar-19 19:00:00		**10.85**	**18.92**	**83.84**	**88.65**
25-Mar-19 20:00:00	25-Mar-19 21:00:00		5.09	0.00	0.00	6.30	2.1	329.7		1.68	0.00	0.00	2.08		10.35	18.92	83.84	86.68	25-Mar-19 20:00:00		**12.03**	**18.92**	**83.84**	**88.76**
25-Mar-19 21:00:00	25-Mar-19 22:00:00		4.83	0.00	0.00	6.60	2.1	329.7		1.59	0.00	0.00	2.18		10.35	18.92	83.84	86.68	25-Mar-19 21:00:00		**11.94**	**18.92**	**83.84**	**88.86**
25-Mar-19 22:00:00	25-Mar-19 23:00:00		13.20	0.00	0.00	6.69	2.1	329.7		4.35	0.00	0.00	2.20		10.35	18.92	83.84	86.68	25-Mar-19 22:00:00		**14.70**	**18.92**	**83.84**	**88.88**
25-Mar-19 23:00:00	26-Mar-19 00:00:00		14.77	0.00	0.00	6.72	2.1	329.7		4.87	0.00	0.00	2.21		10.35	18.92	83.84	86.68	25-Mar-19 23:00:00		**15.22**	**18.92**	**83.84**	**88.89**
26-Mar-19 00:00:00	26-Mar-19 01:00:00		0.00	0.00	0.00	6.74	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	26-Mar-19 00:00:00		**10.35**	**18.92**	**83.84**	**88.90**
26-Mar-19 01:00:00	26-Mar-19 02:00:00		0.18	0.00	0.00	6.82	2.1	329.7		0.06	0.00	0.00	2.25		10.35	18.92	83.84	86.68	26-Mar-19 01:00:00		**10.41**	**18.92**	**83.84**	**88.93**
26-Mar-19 02:00:00	26-Mar-19 03:00:00		0.00	0.00	0.00	6.84	2.1	329.7		0.00	0.00	0.00	2.25		10.35	18.92	83.84	86.68	26-Mar-19 02:00:00		**10.35**	**18.92**	**83.84**	**88.93**
26-Mar-19 03:00:00	26-Mar-19 04:00:00		0.00	0.00	0.00	6.74	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	26-Mar-19 03:00:00		**10.35**	**18.92**	**83.84**	**88.90**
26-Mar-19 04:00:00	26-Mar-19 05:00:00		0.00	0.00	0.00	6.64	2.1	329.7		0.00	0.00	0.00	2.19		10.35	18.92	83.84	86.68	26-Mar-19 04:00:00		**10.35**	**18.92**	**83.84**	**88.87**
26-Mar-19 05:00:00	26-Mar-19 06:00:00		0.00	0.00	0.00	6.53	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	26-Mar-19 05:00:00		**10.35**	**18.92**	**83.84**	**88.83**
26-Mar-19 06:00:00	26-Mar-19 07:00:00		120.77	0.00	0.00	6.56	2.1	329.7		39.82	0.00	0.00	2.16		10.35	18.92	83.84	86.68	26-Mar-19 06:00:00		**50.17**	**18.92**	**83.84**	**88.84**
26-Mar-19 07:00:00	26-Mar-19 08:00:00		455.49	0.00	0.00	6.67	2.1	329.7		150.18	0.00	0.00	2.20		10.35	18.92	83.84	86.68	26-Mar-19 07:00:00		**160.53**	**18.92**	**83.84**	**88.88**
26-Mar-19 08:00:00	26-Mar-19 09:00:00		459.56	0.00	0.00	6.78	2.1	329.7		151.52	0.00	0.00	2.24		10.35	18.92	83.84	86.68	26-Mar-19 08:00:00		**161.87**	**18.92**	**83.84**	**88.92**
26-Mar-19 09:00:00	26-Mar-19 10:00:00		583.03	0.00	0.00	6.88	2.1	329.7		192.22	0.00	0.00	2.27		10.35	18.92	83.84	86.68	26-Mar-19 09:00:00		**202.57**	**18.92**	**83.84**	**88.95**
26-Mar-19 10:00:00	26-Mar-19 11:00:00		940.78	0.00	0.00	6.85	2.1	329.7		310.18	0.00	0.00	2.26		10.35	18.92	83.84	86.68	26-Mar-19 10:00:00		**320.53**	**18.92**	**83.84**	**88.94**
26-Mar-19 11:00:00	26-Mar-19 12:00:00		982.82	0.00	0.00	6.81	2.1	329.7		324.04	0.00	0.00	2.25		10.35	18.92	83.84	86.68	26-Mar-19 11:00:00		**334.39**	**18.92**	**83.84**	**88.93**
26-Mar-19 12:00:00	26-Mar-19 13:00:00		985.27	0.00	0.00	6.77	2.1	329.7		324.84	0.00	0.00	2.23		10.35	18.92	83.84	86.68	26-Mar-19 12:00:00		**335.19**	**18.92**	**83.84**	**88.91**
26-Mar-19 13:00:00	26-Mar-19 14:00:00		979.21	0.00	0.00	6.72	2.1	329.7		322.85	0.00	0.00	2.21		10.35	18.92	83.84	86.68	26-Mar-19 13:00:00		**333.20**	**18.92**	**83.84**	**88.89**
26-Mar-19 14:00:00	26-Mar-19 15:00:00		980.67	0.00	0.00	6.64	2.1	329.7		323.33	0.00	0.00	2.19		10.35	18.92	83.84	86.68	26-Mar-19 14:00:00		**333.68**	**18.92**	**83.84**	**88.87**
26-Mar-19 15:00:00	26-Mar-19 16:00:00		988.09	0.00	0.00	6.57	2.1	329.7		325.77	0.00	0.00	2.17		10.35	18.92	83.84	86.68	26-Mar-19 15:00:00		**336.12**	**18.92**	**83.84**	**88.85**
26-Mar-19 16:00:00	26-Mar-19 17:00:00		986.26	0.00	0.00	6.51	2.1	329.7		325.17	0.00	0.00	2.14		10.35	18.92	83.84	86.68	26-Mar-19 16:00:00		**335.52**	**18.92**	**83.84**	**88.82**
26-Mar-19 17:00:00	26-Mar-19 18:00:00		991.07	0.00	0.00	6.50	2.1	329.7		326.76	0.00	0.00	2.14		10.35	18.92	83.84	86.68	26-Mar-19 17:00:00		**337.11**	**18.92**	**83.84**	**88.82**
26-Mar-19 18:00:00	26-Mar-19 19:00:00		991.95	0.00	0.00	6.63	2.1	329.7		327.05	0.00	0.00	2.19		10.35	18.92	83.84	86.68	26-Mar-19 18:00:00		**337.40**	**18.92**	**83.84**	**88.87**
26-Mar-19 19:00:00	26-Mar-19 20:00:00		970.45	0.00	0.00	6.61	2.1	329.7		319.96	0.00	0.00	2.18		10.35	18.92	83.84	86.68	26-Mar-19 19:00:00		**330.31**	**18.92**	**83.84**	**88.86**
26-Mar-19 20:00:00	26-Mar-19 21:00:00		962.47	0.00	0.00	6.60	2.1	329.7		317.33	0.00	0.00	2.18		10.35	18.92	83.84	86.68	26-Mar-19 20:00:00		**327.68**	**18.92**	**83.84**	**88.86**
26-Mar-19 21:00:00	26-Mar-19 22:00:00		982.62	0.00	0.00	6.56	2.1	329.7		323.97	0.00	0.00	2.16		10.35	18.92	83.84	86.68	26-Mar-19 21:00:00		**334.32**	**18.92**	**83.84**	**88.84**
26-Mar-19 22:00:00	26-Mar-19 23:00:00		995.22	0.00	0.00	6.61	2.1	329.7		328.13	0.00	0.00	2.18		10.35	18.92	83.84	86.68	26-Mar-19 22:00:00		**338.48**	**18.92**	**83.84**	**88.86**
26-Mar-19 23:00:00	27-Mar-19 00:00:00		1,001.22	0.00	0.00	6.81	2.1	329.7		330.10	0.00	0.00	2.24		10.35	18.92	83.84	86.68	26-Mar-19 23:00:00		**340.45**	**18.92**	**83.84**	**88.92**
27-Mar-19 00:00:00	27-Mar-19 01:00:00		997.65	0.00	0.00	7.00	2.1	329.7		328.93	0.00	0.00	2.31		10.35	18.92	83.84	86.68	27-Mar-19 00:00:00		**339.28**	**18.92**	**83.84**	**88.99**
27-Mar-19 01:00:00	27-Mar-19 02:00:00		1,037.37	0.00	0.00	7.20	2.1	329.7		342.02	0.00	0.00	2.37		10.35	18.92	83.84	86.68	27-Mar-19 01:00:00		**352.37**	**18.92**	**83.84**	**89.05**
27-Mar-19 02:00:00	27-Mar-19 03:00:00		1,029.64	0.00	0.00	7.37	2.1	329.7		339.47	0.00	0.00	2.43		10.35	18.92	83.84	86.68	27-Mar-19 02:00:00		**349.82**	**18.92**	**83.84**	**89.11**
27-Mar-19 03:00:00	27-Mar-19 04:00:00		1,041.74	0.00	0.00	7.56	2.1	329.7		343.46	0.00	0.00	2.49		10.35	18.92	83.84	86.68	27-Mar-19 03:00:00		**353.81**	**18.92**	**83.84**	**89.17**
27-Mar-19 04:00:00	27-Mar-19 05:00:00		1,056.51	0.00	0.00	7.75	2.1	329.7		348.33	0.00	0.00	2.55		10.35	18.92	83.84	86.68	27-Mar-19 04:00:00		**358.68**	**18.92**	**83.84**	**89.23**
27-Mar-19 05:00:00	27-Mar-19 06:00:00		1,043.02	0.00	0.00	7.95	2.1	329.7		343.88	0.00	0.00	2.62		10.35	18.92	83.84	86.68	27-Mar-19 05:00:00		**354.23**	**18.92**	**83.84**	**89.30**
27-Mar-19 06:00:00	27-Mar-19 07:00:00		1,056.46	0.00	0.00	8.01	2.1	329.7		348.32	0.00	0.00	2.64		10.35	18.92	83.84	86.68	27-Mar-19 06:00:00		**358.67**	**18.92**	**83.84**	**89.32**
27-Mar-19 07:00:00	27-Mar-19 08:00:00		1,049.58	0.00	0.00	7.93	2.1	329.7		346.05	0.00	0.00	2.61		10.35	18.92	83.84	86.68	27-Mar-19 07:00:00		**356.40**	**18.92**	**83.84**	**89.29**
27-Mar-19 08:00:00	27-Mar-19 09:00:00		464.25	0.00	0.00	7.85	2.1	329.7		153.06	0.00	0.00	2.59		10.35	18.92	83.84	86.68	27-Mar-19 08:00:00		**163.41**	**18.92**	**83.84**	**89.27**
27-Mar-19 09:00:00	27-Mar-19 10:00:00		16.58	0.00	0.00	7.79	2.1	329.7		5.47	0.00	0.00	2.57		10.35	18.92	83.84	86.68	27-Mar-19 09:00:00		**15.82**	**18.92**	**83.84**	**89.25**
27-Mar-19 10:00:00	27-Mar-19 11:00:00		14.70	0.00	0.00	7.59	2.1	329.7		4.85	0.00	0.00	2.50		10.35	18.92	83.84	86.68	27-Mar-19 10:00:00		**15.20**	**18.92**	**83.84**	**89.18**
27-Mar-19 11:00:00	27-Mar-19 12:00:00		12.51	0.00	0.00	7.26	2.1	329.7		4.12	0.00	0.00	2.39		10.35	18.92	83.84	86.68	27-Mar-19 11:00:00		**14.47**	**18.92**	**83.84**	**89.07**
27-Mar-19 12:00:00	27-Mar-19 13:00:00		11.47	0.00	0.00	6.94	2.1	329.7		3.78	0.00	0.00	2.29		10.35	18.92	83.84	86.68	27-Mar-19 12:00:00		**14.13**	**18.92**	**83.84**	**88.97**
27-Mar-19 13:00:00	27-Mar-19 14:00:00		17.36	0.00	0.00	6.62	2.1	329.7		5.72	0.00	0.00	2.18		10.35	18.92	83.84	86.68	27-Mar-19 13:00:00		**16.07**	**18.92**	**83.84**	**88.86**
27-Mar-19 14:00:00	27-Mar-19 15:00:00		4.56	0.00	0.00	6.44	2.1	329.7		1.50	0.00	0.00	2.12		10.35	18.92	83.84	86.68	27-Mar-19 14:00:00		**11.85**	**18.92**	**83.84**	**88.80**
27-Mar-19 15:00:00	27-Mar-19 16:00:00		0.78	0.00	0.00	6.32	2.1	329.7		0.26	0.00	0.00	2.08		10.35	18.92	83.84	86.68	27-Mar-19 15:00:00		**10.61**	**18.92**	**83.84**	**88.76**
27-Mar-19 16:00:00	27-Mar-19 17:00:00		1.78	0.00	0.00	6.20	2.1	329.7		0.59	0.00	0.00	2.05		10.35	18.92	83.84	86.68	27-Mar-19 16:00:00		**10.94**	**18.92**	**83.84**	**88.73**
27-Mar-19 17:00:00	27-Mar-19 18:00:00		1.58	0.00	0.00	6.11	2.1	329.7		0.52	0.00	0.00	2.01		10.35	18.92	83.84	86.68	27-Mar-19 17:00:00		**10.87**	**18.92**	**83.84**	**88.69**
27-Mar-19 18:00:00	27-Mar-19 19:00:00		0.00	5.80	0.00	6.20	2.1	329.7		0.00	1.91	0.00	2.04		10.35	18.92	83.84	86.68	27-Mar-19 18:00:00		**10.35**	**20.83**	**83.84**	**88.72**
27-Mar-19 19:00:00	27-Mar-19 20:00:00		1.15	163.16	0.00	6.30	2.1	329.7		0.38	53.79	0.00	2.08		10.35	18.92	83.84	86.68	27-Mar-19 19:00:00		**10.73**	**72.71**	**83.84**	**88.76**
27-Mar-19 20:00:00	27-Mar-19 21:00:00		0.00	156.78	0.00	6.41	2.1	329.7		0.00	51.69	0.00	2.11		10.35	18.92	83.84	86.68	27-Mar-19 20:00:00		**10.35**	**70.61**	**83.84**	**88.79**
27-Mar-19 21:00:00	27-Mar-19 22:00:00		0.00	155.72	0.00	6.58	2.1	329.7		0.00	51.34	0.00	2.17		10.35	18.92	83.84	86.68	27-Mar-19 21:00:00		**10.35**	**70.26**	**83.84**	**88.85**
27-Mar-19 22:00:00	27-Mar-19 23:00:00		0.08	289.30	0.00	6.97	2.1	329.7		0.03	95.38	0.00	2.30		10.35	18.92	83.84	86.68	27-Mar-19 22:00:00		**10.38**	**114.30**	**83.84**	**88.98**
27-Mar-19 23:00:00	28-Mar-19 00:00:00		6.62	394.89	0.00	7.17	2.1	329.7		2.18	130.20	0.00	2.36		10.35	18.92	83.84	86.68	27-Mar-19 23:00:00		**12.53**	**149.12**	**83.84**	**89.04**
28-Mar-19 00:00:00	28-Mar-19 01:00:00		28.79	418.30	0.00	7.38	2.1	329.7		9.49	137.91	0.00	2.43		10.35	18.92	83.84	86.68	28-Mar-19 00:00:00		**19.84**	**156.83**	**83.84**	**89.11**
28-Mar-19 01:00:00	28-Mar-19 02:00:00		29.09	461.96	0.00	7.64	2.1	329.7		9.59	152.31	0.00	2.52		10.35	18.92	83.84	86.68	28-Mar-19 01:00:00		**19.94**	**171.23**	**83.84**	**89.20**
28-Mar-19 02:00:00	28-Mar-19 03:00:00		17.43	247.69	0.00	7.93	2.1	329.7		5.75	81.66	0.00	2.61		10.35	18.92	83.84	86.68	28-Mar-19 02:00:00		**16.10**	**100.58**	**83.84**	**89.29**
28-Mar-19 03:00:00	28-Mar-19 04:00:00		16.85	532.60	0.00	7.96	2.1	329.7		5.55	175.60	0.00	2.63		10.35	18.92	83.84	86.68	28-Mar-19 03:00:00		**15.90**	**194.52**	**83.84**	**89.31**
28-Mar-19 04:00:00	28-Mar-19 05:00:00		23.55	578.15	0.00	8.00	2.1	329.7		7.77	190.62	0.00	2.64		10.35	18.92	83.84	86.68	28-Mar-19 04:00:00		**18.12**	**209.54**	**83.84**	**89.32**
28-Mar-19 05:00:00	28-Mar-19 06:00:00		11.49	574.78	0.00	8.03	2.1	329.7		3.79	189.50	0.00	2.65		10.35	18.92	83.84	86.68	28-Mar-19 05:00:00		**14.14**	**208.42**	**83.84**	**89.33**
28-Mar-19 06:00:00	28-Mar-19 07:00:00		14.27	571.85	0.00	7.96	2.1	329.7		4.70	188.54	0.00	2.63		10.35	18.92	83.84	86.68	28-Mar-19 06:00:00		**15.05**	**207.46**	**83.84**	**89.31**
28-Mar-19 07:00:00	28-Mar-19 08:00:00		14.15	569.98	0.00	7.82	2.1	329.7		4.66	187.92	0.00	2.58		10.35	18.92	83.84	86.68	28-Mar-19 07:00:00		**15.01**	**206.84**	**83.84**	**89.26**
28-Mar-19 08:00:00	28-Mar-19 09:00:00		15.22	566.65	0.00	7.67	2.1	329.7		5.02	186.83	0.00	2.53		10.35	18.92	83.84	86.68	28-Mar-19 08:00:00		**15.37**	**205.75**	**83.84**	**89.21**
28-Mar-19 09:00:00	28-Mar-19 10:00:00		15.39	570.46	0.00	7.57	2.1	329.7		5.07	188.08	0.00	2.50		10.35	18.92	83.84	86.68	28-Mar-19 09:00:00		**15.42**	**207.00**	**83.84**	**89.18**
28-Mar-19 10:00:00	28-Mar-19 11:00:00		12.45	581.26	0.00	7.45	2.1	329.7		4.11	191.64	0.00	2.46		10.35	18.92	83.84	86.68	28-Mar-19 10:00:00		**14.46**	**210.56**	**83.84**	**89.14**
28-Mar-19 11:00:00	28-Mar-19 12:00:00		6.78	580.19	0.00	7.06	2.1	329.7		2.23	191.29	0.00	2.33		10.35	18.92	83.84	86.68	28-Mar-19 11:00:00		**12.58**	**210.21**	**83.84**	**89.01**
28-Mar-19 12:00:00	28-Mar-19 13:00:00		2.41	578.60	0.00	6.66	2.1	329.7		0.80	190.76	0.00	2.20		10.35	18.92	83.84	86.68	28-Mar-19 12:00:00		**11.15**	**209.68**	**83.84**	**88.88**
28-Mar-19 13:00:00	28-Mar-19 14:00:00		0.64	199.69	0.00	6.25	2.1	329.7		0.21	65.84	0.00	2.06		10.35	18.92	83.84	86.68	28-Mar-19 13:00:00		**10.56**	**84.76**	**83.84**	**88.74**
28-Mar-19 14:00:00	28-Mar-19 15:00:00		1.26	0.00	0.00	5.91	2.1	329.7		0.42	0.00	0.00	1.95		10.35	18.92	83.84	86.68	28-Mar-19 14:00:00		**10.77**	**18.92**	**83.84**	**88.63**
28-Mar-19 15:00:00	28-Mar-19 16:00:00		0.00	4.18	0.00	5.75	2.1	329.7		0.00	1.38	0.00	1.90		10.35	18.92	83.84	86.68	28-Mar-19 15:00:00		**10.35**	**20.30**	**83.84**	**88.58**
28-Mar-19 16:00:00	28-Mar-19 17:00:00		0.00	118.86	0.00	5.58	2.1	329.7		0.00	39.19	0.00	1.84		10.35	18.92	83.84	86.68	28-Mar-19 16:00:00		**10.35**	**58.11**	**83.84**	**88.52**
28-Mar-19 17:00:00	28-Mar-19 18:00:00		0.00	184.25	0.00	5.46	2.1	329.7		0.00	60.75	0.00	1.80		10.35	18.92	83.84	86.68	28-Mar-19 17:00:00		**10.35**	**79.67**	**83.84**	**88.48**
28-Mar-19 18:00:00	28-Mar-19 19:00:00		1.33	164.86	0.00	5.59	2.1	329.7		0.44	54.36	0.00	1.84		10.35	18.92	83.84	86.68	28-Mar-19 18:00:00		**10.79**	**73.28**	**83.84**	**88.52**
28-Mar-19 19:00:00	28-Mar-19 20:00:00		0.15	132.66	0.00	5.68	2.1	329.7		0.05	43.74	0.00	1.87		10.35	18.92	83.84	86.68	28-Mar-19 19:00:00		**10.40**	**62.66**	**83.84**	**88.55**
28-Mar-19 20:00:00	28-Mar-19 21:00:00		0.36	527.60	0.00	5.77	2.1	329.7		0.12	173.95	0.00	1.90		10.35	18.92	83.84	86.68	28-Mar-19 20:00:00		**10.47**	**192.87**	**83.84**	**88.58**
28-Mar-19 21:00:00	28-Mar-19 22:00:00		0.56	534.08	0.00	5.87	2.1	329.7		0.19	176.09	0.00	1.93		10.35	18.92	83.84	86.68	28-Mar-19 21:00:00		**10.54**	**195.01**	**83.84**	**88.61**
28-Mar-19 22:00:00	28-Mar-19 23:00:00		2.21	532.06	0.00	6.07	2.1	329.7		0.73	175.42	0.00	2.00		10.35	18.92	83.84	86.68	28-Mar-19 22:00:00		**11.08**	**194.34**	**83.84**	**88.68**
28-Mar-19 23:00:00	29-Mar-19 00:00:00		0.00	546.48	0.00	6.34	2.1	329.7		0.00	180.18	0.00	2.09		10.35	18.92	83.84	86.68	28-Mar-19 23:00:00		**10.35**	**199.10**	**83.84**	**88.77**
29-Mar-19 00:00:00	29-Mar-19 01:00:00		0.40	572.31	0.00	6.62	2.1	329.7		0.13	188.69	0.00	2.18		10.35	18.92	83.84	86.68	29-Mar-19 00:00:00		**10.48**	**207.61**	**83.84**	**88.86**
29-Mar-19 01:00:00	29-Mar-19 02:00:00		7.19	571.69	0.00	6.89	2.1	329.7		2.37	188.49	0.00	2.27		10.35	18.92	83.84	86.68	29-Mar-19 01:00:00		**12.72**	**207.41**	**83.84**	**88.95**
29-Mar-19 02:00:00	29-Mar-19 03:00:00		1.56	571.56	0.00	7.07	2.1	329.7		0.51	188.44	0.00	2.33		10.35	18.92	83.84	86.68	29-Mar-19 02:00:00		**10.86**	**207.36**	**83.84**	**89.01**
29-Mar-19 03:00:00	29-Mar-19 04:00:00		7.96	574.07	0.00	7.21	2.1	329.7		2.62	189.27	0.00	2.38		10.35	18.92	83.84	86.68	29-Mar-19 03:00:00		**12.97**	**208.19**	**83.84**	**89.06**
29-Mar-19 04:00:00	29-Mar-19 05:00:00		3.32	576.72	0.00	7.36	2.1	329.7		1.09	190.14	0.00	2.43		10.35	18.92	83.84	86.68	29-Mar-19 04:00:00		**11.44**	**209.06**	**83.84**	**89.11**
29-Mar-19 05:00:00	29-Mar-19 06:00:00		1.99	574.18	0.00	7.50	2.1	329.7		0.66	189.31	0.00	2.47		10.35	18.92	83.84	86.68	29-Mar-19 05:00:00		**11.01**	**208.23**	**83.84**	**89.15**
29-Mar-19 06:00:00	29-Mar-19 07:00:00		3.31	501.40	0.00	7.50	2.1	329.7		1.09	165.31	0.00	2.47		10.35	18.92	83.84	86.68	29-Mar-19 06:00:00		**11.44**	**184.23**	**83.84**	**89.15**
29-Mar-19 07:00:00	29-Mar-19 08:00:00		20.92	405.44	0.00	7.40	2.1	329.7		6.90	133.67	0.00	2.44		10.35	18.92	83.84	86.68	29-Mar-19 07:00:00		**17.25**	**152.59**	**83.84**	**89.12**
29-Mar-19 08:00:00	29-Mar-19 09:00:00		12.28	131

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
31-Mar-19 10:00:00	31-Mar-19 11:00:00		7.36	0.00	0.00	6.11	2.1	329.7		2.43	0.00	0.00	2.01		10.35	18.92	83.84	86.68	31-Mar-19 10:00:00		12.78	18.92	83.84	88.69
31-Mar-19 11:00:00	31-Mar-19 12:00:00		7.29	0.00	0.00	6.01	2.1	329.7		2.40	0.00	0.00	1.98		10.35	18.92	83.84	86.68	31-Mar-19 11:00:00		12.75	18.92	83.84	88.66
31-Mar-19 12:00:00	31-Mar-19 13:00:00		5.15	0.00	0.00	6.02	2.1	329.7		1.70	0.00	0.00	1.98		10.35	18.92	83.84	86.68	31-Mar-19 12:00:00		12.05	18.92	83.84	88.66
31-Mar-19 13:00:00	31-Mar-19 14:00:00		4.12	0.00	0.00	5.98	2.1	329.7		1.36	0.00	0.00	1.97		10.35	18.92	83.84	86.68	31-Mar-19 13:00:00		11.71	18.92	83.84	88.65
31-Mar-19 14:00:00	31-Mar-19 15:00:00		3.65	0.00	0.00	5.93	2.1	329.7		1.20	0.00	0.00	1.96		10.35	18.92	83.84	86.68	31-Mar-19 14:00:00		11.55	18.92	83.84	88.64
31-Mar-19 15:00:00	31-Mar-19 16:00:00		3.18	0.00	0.00	5.88	2.1	329.7		1.05	0.00	0.00	1.94		10.35	18.92	83.84	86.68	31-Mar-19 15:00:00		11.40	18.92	83.84	88.62
31-Mar-19 16:00:00	31-Mar-19 17:00:00		1.14	0.00	0.00	5.86	2.1	329.7		0.38	0.00	0.00	1.93		10.35	18.92	83.84	86.68	31-Mar-19 16:00:00		10.73	18.92	83.84	88.61
31-Mar-19 17:00:00	31-Mar-19 18:00:00		0.00	0.00	0.00	5.96	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	31-Mar-19 17:00:00		10.35	18.92	83.84	88.65
31-Mar-19 18:00:00	31-Mar-19 19:00:00		0.10	0.00	0.00	6.07	2.1	329.7		0.03	0.00	0.00	2.00		10.35	18.92	83.84	86.68	31-Mar-19 18:00:00		10.38	18.92	83.84	88.68
31-Mar-19 19:00:00	31-Mar-19 20:00:00		0.00	0.00	0.00	6.19	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	31-Mar-19 19:00:00		10.35	18.92	83.84	88.72
31-Mar-19 20:00:00	31-Mar-19 21:00:00		0.00	0.00	0.00	6.22	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	31-Mar-19 20:00:00		10.35	18.92	83.84	88.73
31-Mar-19 21:00:00	31-Mar-19 22:00:00		0.40	0.00	0.00	6.37	2.1	329.7		0.13	0.00	0.00	2.10		10.35	18.92	83.84	86.68	31-Mar-19 21:00:00		10.48	18.92	83.84	88.78
31-Mar-19 22:00:00	31-Mar-19 23:00:00		15.36	0.00	0.00	6.55	2.1	329.7		5.06	0.00	0.00	2.16		10.35	18.92	83.84	86.68	31-Mar-19 22:00:00		15.41	18.92	83.84	88.84
31-Mar-19 23:00:00	01-Apr-19 00:00:00		23.20	0.00	0.00	6.72	2.1	329.7		7.65	0.00	0.00	2.22		10.35	18.92	83.84	86.68	31-Mar-19 23:00:00		18.00	18.92	83.84	88.90
01-Apr-19 00:00:00	01-Apr-19 01:00:00		0.57	0.00	0.00	6.85	2.1	329.7		0.19	0.00	0.00	2.26		10.35	18.92	83.84	86.68	01-Apr-19 00:00:00		10.54	18.92	83.84	88.94
01-Apr-19 01:00:00	01-Apr-19 02:00:00		0.27	0.00	0.00	7.04	2.1	329.7		0.09	0.00	0.00	2.32		10.35	18.92	83.84	86.68	01-Apr-19 01:00:00		10.44	18.92	83.84	89.00
01-Apr-19 02:00:00	01-Apr-19 03:00:00		12.92	0.00	0.00	7.25	2.1	329.7		4.26	0.00	0.00	2.39		10.35	18.92	83.84	86.68	01-Apr-19 02:00:00		14.61	18.92	83.84	89.07
01-Apr-19 03:00:00	01-Apr-19 04:00:00		11.63	0.00	0.00	7.46	2.1	329.7		3.83	0.00	0.00	2.46		10.35	18.92	83.84	86.68	01-Apr-19 03:00:00		14.18	18.92	83.84	89.14
01-Apr-19 04:00:00	01-Apr-19 05:00:00		25.97	0.00	0.00	7.56	2.1	329.7		8.56	0.00	0.00	2.49		10.35	18.92	83.84	86.68	01-Apr-19 04:00:00		18.91	18.92	83.84	89.17
01-Apr-19 05:00:00	01-Apr-19 06:00:00		31.23	0.00	0.00	7.66	2.1	329.7		10.29	0.00	0.00	2.53		10.35	18.92	83.84	86.68	01-Apr-19 05:00:00		20.64	18.92	83.84	89.21
01-Apr-19 06:00:00	01-Apr-19 07:00:00		13.81	0.00	0.00	7.79	2.1	329.7		4.55	0.00	0.00	2.57		10.35	18.92	83.84	86.68	01-Apr-19 06:00:00		14.90	18.92	83.84	89.25
01-Apr-19 07:00:00	01-Apr-19 08:00:00		23.30	0.00	0.00	7.91	2.1	329.7		7.68	0.00	0.00	2.61		10.35	18.92	83.84	86.68	01-Apr-19 07:00:00		18.03	18.92	83.84	89.29
01-Apr-19 08:00:00	01-Apr-19 09:00:00		38.64	0.00	0.00	7.97	2.1	329.7		12.74	0.00	0.00	2.63		10.35	18.92	83.84	86.68	01-Apr-19 08:00:00		23.09	18.92	83.84	89.31
01-Apr-19 09:00:00	01-Apr-19 10:00:00		61.19	0.00	0.00	7.73	2.1	329.7		20.18	0.00	0.00	2.55		10.35	18.92	83.84	86.68	01-Apr-19 09:00:00		30.53	18.92	83.84	89.23
01-Apr-19 10:00:00	01-Apr-19 11:00:00		53.31	279.99	0.00	7.46	2.1	329.7		17.58	92.31	0.00	2.46		10.35	18.92	83.84	86.68	01-Apr-19 10:00:00		27.93	111.23	83.84	89.14
01-Apr-19 11:00:00	01-Apr-19 12:00:00		49.97	427.54	0.00	7.20	2.1	329.7		16.48	140.96	0.00	2.37		10.35	18.92	83.84	86.68	01-Apr-19 11:00:00		26.83	159.88	83.84	89.05
01-Apr-19 12:00:00	01-Apr-19 13:00:00		25.81	265.93	0.00	7.07	2.1	329.7		8.51	87.68	0.00	2.33		10.35	18.92	83.84	86.68	01-Apr-19 12:00:00		18.86	106.60	83.84	89.01
01-Apr-19 13:00:00	01-Apr-19 14:00:00		7.65	0.00	0.00	6.90	2.1	329.7		2.52	0.00	0.00	2.28		10.35	18.92	83.84	86.68	01-Apr-19 13:00:00		12.87	18.92	83.84	88.96
01-Apr-19 14:00:00	01-Apr-19 15:00:00		1.45	0.00	0.00	6.69	2.1	329.7		0.48	0.00	0.00	2.21		10.35	18.92	83.84	86.68	01-Apr-19 14:00:00		10.83	18.92	83.84	88.89
01-Apr-19 15:00:00	01-Apr-19 16:00:00		2.54	0.00	0.00	6.49	2.1	329.7		0.84	0.00	0.00	2.14		10.35	18.92	83.84	86.68	01-Apr-19 15:00:00		11.19	18.92	83.84	88.82
01-Apr-19 16:00:00	01-Apr-19 17:00:00		14.29	0.00	0.00	6.36	2.1	329.7		4.71	0.00	0.00	2.10		10.35	18.92	83.84	86.68	01-Apr-19 16:00:00		15.06	18.92	83.84	88.78
01-Apr-19 17:00:00	01-Apr-19 18:00:00		21.47	0.00	0.00	6.33	2.1	329.7		7.08	0.00	0.00	2.09		10.35	18.92	83.84	86.68	01-Apr-19 17:00:00		17.43	18.92	83.84	88.77
01-Apr-19 18:00:00	01-Apr-19 19:00:00		17.72	0.00	0.00	6.30	2.1	329.7		5.84	0.00	0.00	2.08		10.35	18.92	83.84	86.68	01-Apr-19 18:00:00		16.19	18.92	83.84	88.76
01-Apr-19 19:00:00	01-Apr-19 20:00:00		10.11	0.00	0.00	6.27	2.1	329.7		3.33	0.00	0.00	2.07		10.35	18.92	83.84	86.68	01-Apr-19 19:00:00		13.68	18.92	83.84	88.75
01-Apr-19 20:00:00	01-Apr-19 21:00:00		10.90	0.00	0.00	6.45	2.1	329.7		3.59	0.00	0.00	2.13		10.35	18.92	83.84	86.68	01-Apr-19 20:00:00		13.94	18.92	83.84	88.81
01-Apr-19 21:00:00	01-Apr-19 22:00:00		11.78	0.00	0.00	6.67	2.1	329.7		3.88	0.00	0.00	2.20		10.35	18.92	83.84	86.68	01-Apr-19 21:00:00		14.23	18.92	83.84	88.88
01-Apr-19 22:00:00	01-Apr-19 23:00:00		20.00	0.00	0.00	6.84	2.1	329.7		6.59	0.00	0.00	2.26		10.35	18.92	83.84	86.68	01-Apr-19 22:00:00		16.94	18.92	83.84	88.94
01-Apr-19 23:00:00	02-Apr-19 00:00:00		33.02	0.00	0.00	7.02	2.1	329.7		10.89	0.00	0.00	2.31		10.35	18.92	83.84	86.68	01-Apr-19 23:00:00		21.24	18.92	83.84	88.99
02-Apr-19 00:00:00	02-Apr-19 01:00:00		19.33	0.00	0.00	7.19	2.1	329.7		6.37	0.00	0.00	2.37		10.35	18.92	83.84	86.68	02-Apr-19 00:00:00		16.72	18.92	83.84	89.05
02-Apr-19 01:00:00	02-Apr-19 02:00:00		2.47	0.00	0.00	7.24	2.1	329.7		0.81	0.00	0.00	2.39		10.35	18.92	83.84	86.68	02-Apr-19 01:00:00		11.16	18.92	83.84	89.07
02-Apr-19 02:00:00	02-Apr-19 03:00:00		15.79	0.00	0.00	7.28	2.1	329.7		5.21	0.00	0.00	2.40		10.35	18.92	83.84	86.68	02-Apr-19 02:00:00		15.56	18.92	83.84	89.08
02-Apr-19 03:00:00	02-Apr-19 04:00:00		16.33	0.00	0.00	7.31	2.1	329.7		5.38	0.00	0.00	2.41		10.35	18.92	83.84	86.68	02-Apr-19 03:00:00		15.73	18.92	83.84	89.09
02-Apr-19 04:00:00	02-Apr-19 05:00:00		12.26	0.00	0.00	7.48	2.1	329.7		4.04	0.00	0.00	2.47		10.35	18.92	83.84	86.68	02-Apr-19 04:00:00		14.39	18.92	83.84	89.15
02-Apr-19 05:00:00	02-Apr-19 06:00:00		11.97	0.00	0.00	7.60	2.1	329.7		3.95	0.00	0.00	2.51		10.35	18.92	83.84	86.68	02-Apr-19 05:00:00		14.30	18.92	83.84	89.19
02-Apr-19 06:00:00	02-Apr-19 07:00:00		22.91	0.00	0.00	7.68	2.1	329.7		7.55	0.00	0.00	2.53		10.35	18.92	83.84	86.68	02-Apr-19 06:00:00		17.90	18.92	83.84	89.21
02-Apr-19 07:00:00	02-Apr-19 08:00:00		1.26	0.00	0.00	7.75	2.1	329.7		0.41	0.00	0.00	2.56		10.35	18.92	83.84	86.68	02-Apr-19 07:00:00		10.76	18.92	83.84	89.24
02-Apr-19 08:00:00	02-Apr-19 09:00:00		0.45	0.00	0.00	7.69	2.1	329.7		0.15	0.00	0.00	2.54		10.35	18.92	83.84	86.68	02-Apr-19 08:00:00		10.50	18.92	83.84	89.22
02-Apr-19 09:00:00	02-Apr-19 10:00:00		8.63	0.00	0.00	7.76	2.1	329.7		2.84	0.00	0.00	2.56		10.35	18.92	83.84	86.68	02-Apr-19 09:00:00		13.19	18.92	83.84	89.24
02-Apr-19 10:00:00	02-Apr-19 11:00:00		13.75	0.00	41.16	7.89	2.1	329.7		4.54	0.00	13.57	2.60		10.35	18.92	83.84	86.68	02-Apr-19 10:00:00		14.89	18.92	97.41	89.28
02-Apr-19 11:00:00	02-Apr-19 12:00:00		35.30	0.00	0.00	8.02	2.1	329.7		11.64	0.00	0.00	2.64		10.35	18.92	83.84	86.68	02-Apr-19 11:00:00		21.99	18.92	83.84	89.32
02-Apr-19 12:00:00	02-Apr-19 13:00:00		36.24	0.00	0.00	8.22	2.1	329.7		11.95	0.00	0.00	2.71		10.35	18.92	83.84	86.68	02-Apr-19 12:00:00		22.30	18.92	83.84	89.39
02-Apr-19 13:00:00	02-Apr-19 14:00:00		36.24	0.00	0.00	8.03	2.1	329.7		11.95	0.00	0.00	2.65		10.35	18.92	83.84	86.68	02-Apr-19 13:00:00		22.30	18.92	83.84	89.33
02-Apr-19 14:00:00	02-Apr-19 15:00:00		35.81	0.00	0.00	7.75	2.1	329.7		11.81	0.00	0.00	2.56		10.35	18.92	83.84	86.68	02-Apr-19 14:00:00		22.16	18.92	83.84	89.24
02-Apr-19 15:00:00	02-Apr-19 16:00:00		222.87	0.00	0.00	7.47	2.1	329.7		73.48	0.00	0.00	2.46		10.35	18.92	83.84	86.68	02-Apr-19 15:00:00		83.83	18.92	83.84	89.14
02-Apr-19 16:00:00	02-Apr-19 17:00:00		669.48	0.00	0.00	7.21	2.1	329.7		220.73	0.00	0.00	2.38		10.35	18.92	83.84	86.68	02-Apr-19 16:00:00		231.08	18.92	83.84	89.06
02-Apr-19 17:00:00	02-Apr-19 18:00:00		721.16	0.00	0.00	6.91	2.1	329.7		237.77	0.00	0.00	2.28		10.35	18.92	83.84	86.68	02-Apr-19 17:00:00		248.12	18.92	83.84	88.96
02-Apr-19 18:00:00	02-Apr-19 19:00:00		703.29	0.00	0.00	7.03	2.1	329.7		231.88	0.00	0.00	2.32		10.35	18.92	83.84	86.68	02-Apr-19 18:00:00		242.23	18.92	83.84	89.00
02-Apr-19 19:00:00	02-Apr-19 20:00:00		704.55	0.00	0.00	7.10	2.1	329.7		232.29	0.00	0.00	2.34		10.35	18.92	83.84	86.68	02-Apr-19 19:00:00		242.64	18.92	83.84	89.02
02-Apr-19 20:00:00	02-Apr-19 21:00:00		706.08	0.00	0.00	7.17	2.1	329.7		232.80	0.00	0.00	2.36		10.35	18.92	83.84	86.68	02-Apr-19 20:00:00		243.15	18.92	83.84	89.04
02-Apr-19 21:00:00	02-Apr-19 22:00:00		781.99	0.00	0.00	7.17	2.1	329.7		257.82	0.00	0.00	2.36		10.35	18.92	83.84	86.68	02-Apr-19 21:00:00		268.17	18.92	83.84	89.04
02-Apr-19 22:00:00	02-Apr-19 23:00:00		653.34	0.00	0.00	7.11	2.1	329.7		215.41	0.00	0.00	2.34		10.35	18.92	83.84	86.68	02-Apr-19 22:00:00		225.76	18.92	83.84	89.02
02-Apr-19 23:00:00	03-Apr-19 00:00:00		661.25	0.00	0.00	7.23	2.1	329.7		218.02	0.00	0.00	2.39		10.35	18.92	83.84	86.68	02-Apr-19 23:00:00		228.37	18.92	83.84	89.07
03-Apr-19 00:00:00	03-Apr-19 01:00:00		698.94	0.00	0.00	7.36	2.1	329.7		230.44	0.00	0.00	2.43		10.35	18.92	83.84	86.68	03-Apr-19 00:00:00		240.79	18.92	83.84	89.11
03-Apr-19 01:00:00	03-Apr-19 02:00:00		926.74	0.00	0.00	7.54	2.1	329.7		305.55	0.00	0.00	2.48		10.35	18.92	83.84	86.68	03-Apr-19 01:00:00		315.90	18.92	83.84	89.16
03-Apr-19 02:00:00	03-Apr-19 03:00:00		1,174.66	0.00	0.00	7.77	2.1	329.7		387.29	0.00	0.00	2.56		10.35	18.92	83.84	86.68	03-Apr-19 02:00:00		397.64	18.92	83.84	89.24
03-Apr-19 03:00:00	03-Apr-19 04:00:00		1,168.07	0.00	0.00	7.89	2.1	329.7		385.11	0.00	0.00	2.60		10.35	18.92	83.84	86.68	03-Apr-19 03:00:00		395.46	18.92	83.84	89.28
03-Apr-19 04:00:00	03-Apr-19 05:00:00		725.42	0.00	0.00	8.01	2.1	329.7		239.17	0.00	0.00	2.64		10.35	18.92	83.84	86.68	03-Apr-19 04:00:00		249.52	18.92	83.84	89.32
03-Apr-19 05:00:00	03-Apr-19 06:00:00		541.27	0.00	0.00	8.11	2.1	329.7		178.46	0.00	0.00	2.67		10.35	18.92	83.84	86.68	03-Apr-19 05:00:00		188.81	18.92	83.84	89.35
03-Apr-19 06:00:00	03-Apr-19 07:00:00		578.56	0.00	0.00	8.06	2.1	329.7		190.75	0.00	0.00	2.66		10.35	18.92	83.84	86.68	03-Apr-19 06:00:00		201.10	18.92	83.84	89.34
03-Apr-19 07:00:00	03-Apr-19 08:00:00		781.59	0.00	0.00	8.03	2.1	329.7		257.69	0.00	0.00	2.65		10.35	18.92	83.84	86.68	03-Apr-19 07:00:00		268.04	18.92	83.84	89.33
03-Apr-19 08:00:00	03-Apr-19 09:00:00		819.13	0.00	0.00	8.01	2.1	329.7		270.07	0.00	0.00	2.64		10.35	18.92	83.84	86.68	03-Apr-19 08:00:00		280.42	18.92	83.84	89.32
03-Apr-19 09:00:00	03-Apr-19 10:00:00		728.13	0.00	0.00	7.94	2.1	329.7		240.06	0.00	0.00	2.62		10.35	18.92	83.84	86.68	03-Apr-19 09:00:00		250.41	18.92	83.84	89.30
03-Apr-19 10:00:00	03-Apr-19 11:00:00		680.46	0.00	0.00	7.44	2.1	329.7		224.35	0.00	0.00	2.45		10.35	18.92	83.84	86.68	03-Apr-19 10:00:00		234.70	18.92	83.84	89.13
03-Apr-19 11:00:00	03-Apr-19 12:00:00		704.28	0.00	0.00	6.90	2.1	329.7		232.20	0.00	0.00	2.27		10.35	18.92	83.84	86.68	03-Apr-19 11:00:00		242.55	18.92	83.84	88.95
03-Apr-19 12:00:00	03-Apr-19 13:00:00		665.74	0.00	0.00	6.35	2.1	329.7		219.49	0.00	0.00	2.09		10.35	18.92	83.84	86.68	03-Apr-19 12:00:00		229.84	18.92	83.84	88.77
03-Apr-19 13:00:00	03-Apr-19 14:00:00		674.20	0.00	0.00	5.82	2.1	329.7		222.28	0.00	0.00	1.92		10.35	18.92	83.84	86.68	03-Apr-19 13:00:00		232.63	18.92	83.84	88.60
03-Apr-19 14:00:00	03-Apr-19 15:00:00		580.33	0.00	0.00	5.62	2.1	329.7		191.33	0.00	0.00	1.85		10.35	18.92	83.84	86.68	03-Apr-19 14:00:00		201.68	18.92	83.84	88.53
03-Apr-19 15:00:00	03-Apr-19 16:00:00		597.60	0.00	0.00	5.54	2.1	329.7		197.03	0.00	0.00	1.83		10.35	18.92	83.84	86.68	03-Apr-19 15:00:00		207.38	18.92	83.84	88.51
03-Apr-19 16:00:00	03-Apr-19 17:00:00		612.59	0.00	0.00	5.46	2.1	329.7		201.97	0.00	0.00	1.80		10.35	18.92	83.84	86.68	03-Apr-19 16:00:00		212.32	18.92	83.84	88.48
03-Apr-19 17:00:00	03-Apr-19 18:00:00		632.02	0.00	0.00	5.35	2.1	329.7		208.38	0.00	0.00	1.77		10.35	18.92	83.84	86.68	03-Apr-19 17:00:00		218.73	18.92	83.84	88.45
03-Apr-19 18:00:00	03-Apr-19 19:00:00		884.03	0.00	0.00	5.32	2.1	329.7		291.47	0.00	0.00	1.75		10.35	18.92	83.84	86.68	03-Apr-19 18:00:00		301.82	18.92	83.84	88.43
03-Apr-19 19:00:00	03-Apr-19 20:00:00		1,087.61	0.00	0.00	5.43	2.1	329.7		358.59	0.00	0.00	1.79		10.35	18.92	83.84	86.68	03-Apr-19 19:00:00		368.94	18.92	83.84	88.47
03-Apr-19 20:00:00	03-Apr-19 21:00:00		1,098.09	0.00	0.00	5.55	2.1	329.7		362.04	0.00	0.00	1.83		10.35	18.92	83.84	86.68	03-Apr-19 20:00:00		372.39	18.92	83.84	88.51
03-Apr-19 21:00:00	03-Apr-19 22:00:00		1,094.89	0.00	0.00	5.68	2.1	329.7		360.98	0.00	0.00	1.87		10.35	18.92	83.84	86.68	03-Apr-19 21:00:00		371.33	18.92	83.84	88.55
03-Apr-19 22:00:00	03-Apr-19 23:00:00		1,247.53	0.00	0.00	5.90	2.1	329.7		411.31	0.00	0.00	1.94		10.35	18.92	83.84	86.68	03-Apr-19 22:00:00		421.66	18.92	83.84	88.62
03-Apr-19 23:00:00	04-Apr-19 00:00:00		1,276.54	465.11	0.00	6.06	2.1	329.7		420.88	153.35	0.00	2.00		10.35	18.92	83.84	86.68	03-Apr-19 23:00:00		431.23	172.27	83.84	88.68
04-Apr-19 00:00:00	04-Apr-19 01:00:00		1,161.09	537.04	0.00	6.23	2.1	329.7		382.81	177.06	0.00	2.05		10.35	18.92	83.84	86.68	04-Apr-19 00:00:00		393.16	195.98	83.84	88.73
04-Apr-19 01:00:00	04-Apr-19 02:00:00		1,207.72	486.49	0.00	6.38	2.1	329.7		398.18	160.40	0.00	2.10		10.35	18.92	83.84	86.68	04-Apr-19 01:00:00		408.53	179.32	83.84	88.78
04-Apr-19 02:00:00	04-Apr-19 03:00:00		1,335.18	657.07	0.00	6.50	2.1	329.7		440.21	216.63	0.00	2.14		10.35	18.92	83.84	86.68	04-Apr-19 02:00:00		450.56	235.55	83.84	88.82
04-Apr-19 03:00:00	04-Apr-19 04:00:00		1,420.37	683.01	0.00	6.64	2.1	329.7		468.30	225.19	0.00	2.19		10.35	18.92	83.84	86.68	04-Apr-19 03:00:00		478.65	244.11	83.84	88.87
04-Apr-19 04:00:00	04-Apr-19 05:00:00		1,486.89	677.88	0.00	6.78	2.1	329.7		490.23	223.50	0.00	2.23		10.35	18.92	83.84	86.68	04-Apr-19 04:00:00		500.58	242.42	83.84	88.91
04-Apr-19 05:00:00	04-Apr-19 06:00:00		1,454.63	676.33	0.00	6.91	2.1	329.7		479.59	222.98	0.00	2.28		10.35	18.92	83.84	86.68	04-Apr-19 05:00:00		489.94	241.90	83.84	88.96
04-Apr-19 06:00:00	04-Apr-19 07:00:00		1,472.29	673.78	0.00	6.92	2.1	329.7		485.41	222.15	0.00	2.28		10.35	18.92	83.84	86.68	04-Apr-19 06:00:00		495.76	241.07	83.84	88.96
04-Apr-19 07:00:00	04-Apr-19 08:00:

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
06-Apr-19 09:00:00	06-Apr-19 10:00:00		0.00	0.00	0.00	55.34	2.1	329.7		0.00	0.00	0.00	18.25		10.35	18.92	83.84	86.68	06-Apr-19 09:00:00		10.35	18.92	83.84	104.93
06-Apr-19 10:00:00	06-Apr-19 11:00:00		0.00	0.00	0.00	6.21	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	06-Apr-19 10:00:00		10.35	18.92	83.84	88.73
06-Apr-19 11:00:00	06-Apr-19 12:00:00		0.00	0.00	0.00	6.10	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	06-Apr-19 11:00:00		10.35	18.92	83.84	88.69
06-Apr-19 12:00:00	06-Apr-19 13:00:00		0.00	0.00	0.00	5.98	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	06-Apr-19 12:00:00		10.35	18.92	83.84	88.65
06-Apr-19 13:00:00	06-Apr-19 14:00:00		0.00	0.00	0.00	5.85	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	06-Apr-19 13:00:00		10.35	18.92	83.84	88.61
06-Apr-19 14:00:00	06-Apr-19 15:00:00		0.05	0.00	0.00	5.67	2.1	329.7		0.02	0.00	0.00	1.87		10.35	18.92	83.84	86.68	06-Apr-19 14:00:00		10.37	18.92	83.84	88.55
06-Apr-19 15:00:00	06-Apr-19 16:00:00		0.21	0.00	0.00	5.51	2.1	329.7		0.07	0.00	0.00	1.82		10.35	18.92	83.84	86.68	06-Apr-19 15:00:00		10.42	18.92	83.84	88.50
06-Apr-19 16:00:00	06-Apr-19 17:00:00		0.36	0.00	0.00	5.36	2.1	329.7		0.12	0.00	0.00	1.77		10.35	18.92	83.84	86.68	06-Apr-19 16:00:00		10.47	18.92	83.84	88.45
06-Apr-19 17:00:00	06-Apr-19 18:00:00		1.19	0.00	0.00	5.21	2.1	329.7		0.39	0.00	0.00	1.72		10.35	18.92	83.84	86.68	06-Apr-19 17:00:00		10.74	18.92	83.84	88.40
06-Apr-19 18:00:00	06-Apr-19 19:00:00		8.10	0.00	0.00	5.20	2.1	329.7		2.67	0.00	0.00	1.72		10.35	18.92	83.84	86.68	06-Apr-19 18:00:00		13.02	18.92	83.84	88.40
06-Apr-19 19:00:00	06-Apr-19 20:00:00		0.53	0.00	0.00	5.27	2.1	329.7		0.18	0.00	0.00	1.74		10.35	18.92	83.84	86.68	06-Apr-19 19:00:00		10.53	18.92	83.84	88.42
06-Apr-19 20:00:00	06-Apr-19 21:00:00		1.11	0.00	0.00	5.34	2.1	329.7		0.37	0.00	0.00	1.76		10.35	18.92	83.84	86.68	06-Apr-19 20:00:00		10.72	18.92	83.84	88.44
06-Apr-19 21:00:00	06-Apr-19 22:00:00		1.79	0.00	0.00	5.42	2.1	329.7		0.59	0.00	0.00	1.79		10.35	18.92	83.84	86.68	06-Apr-19 21:00:00		10.94	18.92	83.84	88.47
06-Apr-19 22:00:00	06-Apr-19 23:00:00		3.46	0.00	0.00	5.63	2.1	329.7		1.14	0.00	0.00	1.86		10.35	18.92	83.84	86.68	06-Apr-19 22:00:00		11.49	18.92	83.84	88.54
06-Apr-19 23:00:00	07-Apr-19 00:00:00		1.04	0.00	0.00	5.85	2.1	329.7		0.34	0.00	0.00	1.93		10.35	18.92	83.84	86.68	06-Apr-19 23:00:00		10.69	18.92	83.84	88.61
07-Apr-19 00:00:00	07-Apr-19 01:00:00		0.00	0.00	0.00	6.08	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	07-Apr-19 00:00:00		10.35	18.92	83.84	88.68
07-Apr-19 01:00:00	07-Apr-19 02:00:00		0.58	0.00	0.00	6.29	2.1	329.7		0.19	0.00	0.00	2.07		10.35	18.92	83.84	86.68	07-Apr-19 01:00:00		10.54	18.92	83.84	88.75
07-Apr-19 02:00:00	07-Apr-19 03:00:00		1.43	0.00	0.00	6.37	2.1	329.7		0.47	0.00	0.00	2.10		10.35	18.92	83.84	86.68	07-Apr-19 02:00:00		10.82	18.92	83.84	88.78
07-Apr-19 03:00:00	07-Apr-19 04:00:00		8.49	0.00	0.00	6.41	2.1	329.7		2.80	0.00	0.00	2.11		10.35	18.92	83.84	86.68	07-Apr-19 03:00:00		13.15	18.92	83.84	88.79
07-Apr-19 04:00:00	07-Apr-19 05:00:00		4.84	0.00	0.00	6.44	2.1	329.7		1.59	0.00	0.00	2.12		10.35	18.92	83.84	86.68	07-Apr-19 04:00:00		11.94	18.92	83.84	88.80
07-Apr-19 05:00:00	07-Apr-19 06:00:00		0.08	0.00	0.00	6.47	2.1	329.7		0.03	0.00	0.00	2.13		10.35	18.92	83.84	86.68	07-Apr-19 05:00:00		10.38	18.92	83.84	88.81
07-Apr-19 06:00:00	07-Apr-19 07:00:00		0.05	0.00	0.00	6.45	2.1	329.7		0.02	0.00	0.00	2.13		10.35	18.92	83.84	86.68	07-Apr-19 06:00:00		10.37	18.92	83.84	88.81
07-Apr-19 07:00:00	07-Apr-19 08:00:00		0.02	0.00	0.00	6.41	2.1	329.7		0.01	0.00	0.00	2.11		10.35	18.92	83.84	86.68	07-Apr-19 07:00:00		10.36	18.92	83.84	88.79
07-Apr-19 08:00:00	07-Apr-19 09:00:00		0.00	0.00	0.00	6.37	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	07-Apr-19 08:00:00		10.35	18.92	83.84	88.78
07-Apr-19 09:00:00	07-Apr-19 10:00:00		0.00	0.00	0.00	6.32	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	07-Apr-19 09:00:00		10.35	18.92	83.84	88.76
07-Apr-19 10:00:00	07-Apr-19 11:00:00		0.00	0.00	0.00	49.40	2.1	329.7		0.00	0.00	0.00	16.29		10.35	18.92	83.84	86.68	07-Apr-19 10:00:00		10.35	18.92	83.84	102.97
07-Apr-19 11:00:00	07-Apr-19 12:00:00		0.00	0.00	0.00	5.92	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	07-Apr-19 11:00:00		10.35	18.92	83.84	88.63
07-Apr-19 12:00:00	07-Apr-19 13:00:00		0.00	0.00	0.00	5.75	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	07-Apr-19 12:00:00		10.35	18.92	83.84	88.58
07-Apr-19 13:00:00	07-Apr-19 14:00:00		0.00	0.00	0.00	5.59	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	07-Apr-19 13:00:00		10.35	18.92	83.84	88.52
07-Apr-19 14:00:00	07-Apr-19 15:00:00		0.34	0.00	0.00	5.47	2.1	329.7		0.11	0.00	0.00	1.80		10.35	18.92	83.84	86.68	07-Apr-19 14:00:00		10.46	18.92	83.84	88.48
07-Apr-19 15:00:00	07-Apr-19 16:00:00		0.15	0.00	0.00	5.43	2.1	329.7		0.05	0.00	0.00	1.79		10.35	18.92	83.84	86.68	07-Apr-19 15:00:00		10.40	18.92	83.84	88.47
07-Apr-19 16:00:00	07-Apr-19 17:00:00		1.83	0.00	0.00	5.37	2.1	329.7		0.60	0.00	0.00	1.77		10.35	18.92	83.84	86.68	07-Apr-19 16:00:00		10.95	18.92	83.84	88.45
07-Apr-19 17:00:00	07-Apr-19 18:00:00		0.00	0.00	0.00	5.31	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	07-Apr-19 17:00:00		10.35	18.92	83.84	88.43
07-Apr-19 18:00:00	07-Apr-19 19:00:00		0.66	0.00	0.00	5.27	2.1	329.7		0.22	0.00	0.00	1.74		10.35	18.92	83.84	86.68	07-Apr-19 18:00:00		10.57	18.92	83.84	88.42
07-Apr-19 19:00:00	07-Apr-19 20:00:00		0.00	0.00	0.00	5.34	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	07-Apr-19 19:00:00		10.35	18.92	83.84	88.44
07-Apr-19 20:00:00	07-Apr-19 21:00:00		0.00	0.00	0.00	5.44	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	07-Apr-19 20:00:00		10.35	18.92	83.84	88.47
07-Apr-19 21:00:00	07-Apr-19 22:00:00		0.00	0.00	0.00	5.54	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	07-Apr-19 21:00:00		10.35	18.92	83.84	88.51
07-Apr-19 22:00:00	07-Apr-19 23:00:00		0.00	0.00	0.00	5.61	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	07-Apr-19 22:00:00		10.35	18.92	83.84	88.53
07-Apr-19 23:00:00	08-Apr-19 00:00:00		0.00	0.00	0.00	5.65	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	07-Apr-19 23:00:00		10.35	18.92	83.84	88.54
08-Apr-19 00:00:00	08-Apr-19 01:00:00		0.00	0.00	0.00	5.71	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	08-Apr-19 00:00:00		10.35	18.92	83.84	88.56
08-Apr-19 01:00:00	08-Apr-19 02:00:00		0.00	0.00	0.00	5.77	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	08-Apr-19 01:00:00		10.35	18.92	83.84	88.58
08-Apr-19 02:00:00	08-Apr-19 03:00:00		0.00	0.00	0.00	5.91	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	08-Apr-19 02:00:00		10.35	18.92	83.84	88.63
08-Apr-19 03:00:00	08-Apr-19 04:00:00		0.00	0.00	0.00	5.99	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	08-Apr-19 03:00:00		10.35	18.92	83.84	88.65
08-Apr-19 04:00:00	08-Apr-19 05:00:00		0.00	0.00	0.00	5.99	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	08-Apr-19 04:00:00		10.35	18.92	83.84	88.65
08-Apr-19 05:00:00	08-Apr-19 06:00:00		0.00	0.00	0.00	5.98	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	08-Apr-19 05:00:00		10.35	18.92	83.84	88.65
08-Apr-19 06:00:00	08-Apr-19 07:00:00		0.00	0.00	0.00	5.93	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	08-Apr-19 06:00:00		10.35	18.92	83.84	88.63
08-Apr-19 07:00:00	08-Apr-19 08:00:00		0.00	0.00	0.00	5.87	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	08-Apr-19 07:00:00		10.35	18.92	83.84	88.62
08-Apr-19 08:00:00	08-Apr-19 09:00:00		0.00	0.00	0.00	5.85	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	08-Apr-19 08:00:00		10.35	18.92	83.84	88.61
08-Apr-19 09:00:00	08-Apr-19 10:00:00		0.00	0.00	0.00	5.84	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	08-Apr-19 09:00:00		10.35	18.92	83.84	88.60
08-Apr-19 10:00:00	08-Apr-19 11:00:00		0.76	0.00	0.00	5.66	2.1	329.7		0.25	0.00	0.00	1.87		10.35	18.92	83.84	86.68	08-Apr-19 10:00:00		10.60	18.92	83.84	88.55
08-Apr-19 11:00:00	08-Apr-19 12:00:00		7.04	0.00	0.00	5.35	2.1	329.7		2.32	0.00	0.00	1.76		10.35	18.92	83.84	86.68	08-Apr-19 11:00:00		12.67	18.92	83.84	88.44
08-Apr-19 12:00:00	08-Apr-19 13:00:00		17.24	0.00	0.00	5.15	2.1	329.7		5.68	0.00	0.00	1.70		10.35	18.92	83.84	86.68	08-Apr-19 12:00:00		16.03	18.92	83.84	88.38
08-Apr-19 13:00:00	08-Apr-19 14:00:00		17.95	0.00	0.00	4.95	2.1	329.7		5.92	0.00	0.00	1.63		10.35	18.92	83.84	86.68	08-Apr-19 13:00:00		16.27	18.92	83.84	88.31
08-Apr-19 14:00:00	08-Apr-19 15:00:00		7.34	0.00	0.00	4.79	2.1	329.7		2.42	0.00	0.00	1.58		10.35	18.92	83.84	86.68	08-Apr-19 14:00:00		12.77	18.92	83.84	88.26
08-Apr-19 15:00:00	08-Apr-19 16:00:00		4.18	0.00	0.00	4.91	2.1	329.7		1.38	0.00	0.00	1.62		10.35	18.92	83.84	86.68	08-Apr-19 15:00:00		11.73	18.92	83.84	88.30
08-Apr-19 16:00:00	08-Apr-19 17:00:00		0.48	0.00	0.00	5.06	2.1	329.7		0.16	0.00	0.00	1.67		10.35	18.92	83.84	86.68	08-Apr-19 16:00:00		10.51	18.92	83.84	88.35
08-Apr-19 17:00:00	08-Apr-19 18:00:00		0.00	0.00	0.00	47.88	2.1	329.7		0.00	0.00	0.00	15.79		10.35	18.92	83.84	86.68	08-Apr-19 17:00:00		10.35	18.92	83.84	102.47
08-Apr-19 18:00:00	08-Apr-19 19:00:00		6.45	0.00	0.00	5.45	2.1	329.7		2.12	0.00	0.00	1.80		10.35	18.92	83.84	86.68	08-Apr-19 18:00:00		12.47	18.92	83.84	88.48
08-Apr-19 19:00:00	08-Apr-19 20:00:00		18.09	0.00	0.00	5.67	2.1	329.7		5.97	0.00	0.00	1.87		10.35	18.92	83.84	86.68	08-Apr-19 19:00:00		16.32	18.92	83.84	88.55
08-Apr-19 20:00:00	08-Apr-19 21:00:00		11.99	0.00	0.00	5.89	2.1	329.7		3.95	0.00	0.00	1.94		10.35	18.92	83.84	86.68	08-Apr-19 20:00:00		14.30	18.92	83.84	88.62
08-Apr-19 21:00:00	08-Apr-19 22:00:00		5.48	0.00	0.00	6.07	2.1	329.7		1.81	0.00	0.00	2.00		10.35	18.92	83.84	86.68	08-Apr-19 21:00:00		12.16	18.92	83.84	88.68
08-Apr-19 22:00:00	08-Apr-19 23:00:00		0.96	0.00	0.00	6.04	2.1	329.7		0.32	0.00	0.00	1.99		10.35	18.92	83.84	86.68	08-Apr-19 22:00:00		10.67	18.92	83.84	88.67
08-Apr-19 23:00:00	09-Apr-19 00:00:00		1.73	0.00	0.00	6.09	2.1	329.7		0.57	0.00	0.00	2.01		10.35	18.92	83.84	86.68	08-Apr-19 23:00:00		10.92	18.92	83.84	88.69
09-Apr-19 00:00:00	09-Apr-19 01:00:00		3.66	0.00	0.00	6.14	2.1	329.7		1.21	0.00	0.00	2.02		10.35	18.92	83.84	86.68	09-Apr-19 00:00:00		11.56	18.92	83.84	88.70
09-Apr-19 01:00:00	09-Apr-19 02:00:00		9.14	0.00	0.00	6.18	2.1	329.7		3.01	0.00	0.00	2.04		10.35	18.92	83.84	86.68	09-Apr-19 01:00:00		13.36	18.92	83.84	88.72
09-Apr-19 02:00:00	09-Apr-19 03:00:00		8.97	0.00	0.00	6.18	2.1	329.7		2.96	0.00	0.00	2.04		10.35	18.92	83.84	86.68	09-Apr-19 02:00:00		13.31	18.92	83.84	88.72
09-Apr-19 03:00:00	09-Apr-19 04:00:00		8.24	0.00	0.00	6.21	2.1	329.7		2.72	0.00	0.00	2.05		10.35	18.92	83.84	86.68	09-Apr-19 03:00:00		13.07	18.92	83.84	88.73
09-Apr-19 04:00:00	09-Apr-19 05:00:00		6.11	0.00	0.00	6.24	2.1	329.7		2.02	0.00	0.00	2.06		10.35	18.92	83.84	86.68	09-Apr-19 04:00:00		12.37	18.92	83.84	88.74
09-Apr-19 05:00:00	09-Apr-19 06:00:00		6.09	0.00	0.00	6.25	2.1	329.7		2.01	0.00	0.00	2.06		10.35	18.92	83.84	86.68	09-Apr-19 05:00:00		12.36	18.92	83.84	88.74
09-Apr-19 06:00:00	09-Apr-19 07:00:00		6.06	0.00	0.00	6.15	2.1	329.7		2.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	09-Apr-19 06:00:00		12.35	18.92	83.84	88.71
09-Apr-19 07:00:00	09-Apr-19 08:00:00		6.04	0.00	0.00	6.16	2.1	329.7		1.99	0.00	0.00	2.03		10.35	18.92	83.84	86.68	09-Apr-19 07:00:00		12.34	18.92	83.84	88.71
09-Apr-19 08:00:00	09-Apr-19 09:00:00		7.03	0.00	0.00	6.17	2.1	329.7		2.32	0.00	0.00	2.03		10.35	18.92	83.84	86.68	09-Apr-19 08:00:00		12.67	18.92	83.84	88.71
09-Apr-19 09:00:00	09-Apr-19 10:00:00		6.93	0.00	0.00	6.18	2.1	329.7		2.28	0.00	0.00	2.04		10.35	18.92	83.84	86.68	09-Apr-19 09:00:00		12.63	18.92	83.84	88.72
09-Apr-19 10:00:00	09-Apr-19 11:00:00		6.83	0.00	0.00	6.12	2.1	329.7		2.25	0.00	0.00	2.02		10.35	18.92	83.84	86.68	09-Apr-19 10:00:00		12.60	18.92	83.84	88.70
09-Apr-19 11:00:00	09-Apr-19 12:00:00		6.72	0.00	0.00	6.02	2.1	329.7		2.22	0.00	0.00	1.98		10.35	18.92	83.84	86.68	09-Apr-19 11:00:00		12.57	18.92	83.84	88.66
09-Apr-19 12:00:00	09-Apr-19 13:00:00		5.97	0.00	0.00	5.92	2.1	329.7		1.97	0.00	0.00	1.95		10.35	18.92	83.84	86.68	09-Apr-19 12:00:00		12.32	18.92	83.84	88.63
09-Apr-19 13:00:00	09-Apr-19 14:00:00		5.85	0.00	0.00	112.00	2.1	329.7		1.93	0.00	0.00	36.93		10.35	18.92	83.84	86.68	09-Apr-19 13:00:00		12.28	18.92	83.84	123.61
09-Apr-19 14:00:00	09-Apr-19 15:00:00		5.74	0.00	0.00	6.15	2.1	329.7		1.89	0.00	0.00	2.03		10.35	18.92	83.84	86.68	09-Apr-19 14:00:00		12.24	18.92	83.84	88.71
09-Apr-19 15:00:00	09-Apr-19 16:00:00		5.62	0.00	0.00	5.91	2.1	329.7		1.85	0.00	0.00	1.95		10.35	18.92	83.84	86.68	09-Apr-19 15:00:00		12.20	18.92	83.84	88.63
09-Apr-19 16:00:00	09-Apr-19 17:00:00		7.45	0.00	0.00	5.66	2.1	329.7		2.46	0.00	0.00	1.87		10.35	18.92	83.84	86.68	09-Apr-19 16:00:00		12.81	18.92	83.84	88.55
09-Apr-19 17:00:00	09-Apr-19 18:00:00		3.22	0.00	0.00	5.44	2.1	329.7		1.06	0.00	0.00	1.79		10.35	18.92	83.84	86.68	09-Apr-19 17:00:00		11.41	18.92	83.84	88.47
09-Apr-19 18:00:00	09-Apr-19 19:00:00		0.00	0.00	0.00	5.49	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	09-Apr-19 18:00:00		10.35	18.92	83.84	88.49
09-Apr-19 19:00:00	09-Apr-19 20:00:00		0.00	0.00	0.00	5.57	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	09-Apr-19 19:00:00		10.35	18.92	83.84	88.52
09-Apr-19 20:00:00	09-Apr-19 21:00:00		0.00	0.00	0.00	5.66	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	09-Apr-19 20:00:00		10.35	18.92	83.84	88.55
09-Apr-19 21:00:00	09-Apr-19 22:00:00		0.00	0.00	0.00	5.75	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	09-Apr-19 21:00:00		10.35	18.92	83.84	88.58
09-Apr-19 22:00:00	09-Apr-19 23:00:00		0.00	0.00	0.00	5.89	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	09-Apr-19 22:00:00		10.35	18.92	83.84	88.62
09-Apr-19 23:00:00	10-Apr-19 00:00:00		0.00	0.00	0.00	6.03	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	09-Apr-19 23:00:00		10.35	18.92	83.84	88.67
10-Apr-19 00:00:00	10-Apr-19 01:00:00		0.00	0.00	0.00	6.17	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	10-Apr-19 00:00:00		10.35	18.92	83.84	88.71
10-Apr-19 01:00:00	10-Apr-19 02:00:00		0.00	0.00	0.00	6.26	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	10-Apr-19 01:00:00		10.35	18.92	83.84	88.75
10-Apr-19 02:00:00	10-Apr-19 03:00:00		0.00	0.00	0.00	6.08	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	10-Apr-19 02:00:00		10.35	18.92	83.84	88.68
10-Apr-19 03:00:00	10-Apr-19 04:00:00		0.00	0.00	0.00	6.08	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	10-Apr-19 03:00:00		10.35	18.92	83.84	88.69
10-Apr-19 04:00:00	10-Apr-19 05:00:00		7.06	0.00	0.00	6.09	2.1	329.7		2.33	0.00	0.00	2.01		10.35	18.92	83.84	86.68	10-Apr-19 04:00:00		12.68	18.92	83.84	88.69
10-Apr-19 05:00:00	10-Apr-19 06:00:00		0.00	0.00	0.00	6.10	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	10-Apr-19 05:00:00		10.35	18.92	83.84	88.69
10-Apr-19 06:00:00	10-Apr-19 07:00:00		0.00	0.00	0.00	6.11

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
12-Apr-19 08:00:00	12-Apr-19 09:00:00		45.05	0.00	0.00	5.89	2.1	329.7		14.85	0.00	0.00	1.94		10.35	18.92	83.84	86.68	12-Apr-19 08:00:00		**25.20**	**18.92**	**83.84**	**88.62**
12-Apr-19 09:00:00	12-Apr-19 10:00:00		42.34	0.00	0.00	5.82	2.1	329.7		13.96	0.00	0.00	1.92		10.35	18.92	83.84	86.68	12-Apr-19 09:00:00		**24.31**	**18.92**	**83.84**	**88.60**
12-Apr-19 10:00:00	12-Apr-19 11:00:00		40.11	0.00	0.00	5.72	2.1	329.7		13.22	0.00	0.00	1.88		10.35	18.92	83.84	86.68	12-Apr-19 10:00:00		**23.57**	**18.92**	**83.84**	**88.56**
12-Apr-19 11:00:00	12-Apr-19 12:00:00		34.22	0.00	0.00	5.60	2.1	329.7		11.28	0.00	0.00	1.85		10.35	18.92	83.84	86.68	12-Apr-19 11:00:00		**21.63**	**18.92**	**83.84**	**88.53**
12-Apr-19 12:00:00	12-Apr-19 13:00:00		1.69	0.00	0.00	5.48	2.1	329.7		0.56	0.00	0.00	1.81		10.35	18.92	83.84	86.68	12-Apr-19 12:00:00		**10.91**	**18.92**	**83.84**	**88.49**
12-Apr-19 13:00:00	12-Apr-19 14:00:00		1.40	0.00	0.00	5.37	2.1	329.7		0.46	0.00	0.00	1.77		10.35	18.92	83.84	86.68	12-Apr-19 13:00:00		**10.81**	**18.92**	**83.84**	**88.45**
12-Apr-19 14:00:00	12-Apr-19 15:00:00		5.72	0.00	0.00	5.40	2.1	329.7		1.88	0.00	0.00	1.78		10.35	18.92	83.84	86.68	12-Apr-19 14:00:00		**12.23**	**18.92**	**83.84**	**88.46**
12-Apr-19 15:00:00	12-Apr-19 16:00:00		0.99	0.00	0.00	5.42	2.1	329.7		0.33	0.00	0.00	1.79		10.35	18.92	83.84	86.68	12-Apr-19 15:00:00		**10.68**	**18.92**	**83.84**	**88.47**
12-Apr-19 16:00:00	12-Apr-19 17:00:00		0.80	0.00	0.00	5.44	2.1	329.7		0.26	0.00	0.00	1.79		10.35	18.92	83.84	86.68	12-Apr-19 16:00:00		**10.61**	**18.92**	**83.84**	**88.47**
12-Apr-19 17:00:00	12-Apr-19 18:00:00		0.61	0.00	0.00	5.46	2.1	329.7		0.20	0.00	0.00	1.80		10.35	18.92	83.84	86.68	12-Apr-19 17:00:00		**10.55**	**18.92**	**83.84**	**88.48**
12-Apr-19 18:00:00	12-Apr-19 19:00:00		386.53	0.00	0.00	5.41	2.1	329.7		127.44	0.00	0.00	1.78		10.35	18.92	83.84	86.68	12-Apr-19 18:00:00		**137.79**	**18.92**	**83.84**	**88.46**
12-Apr-19 19:00:00	12-Apr-19 20:00:00		775.72	0.00	0.00	5.46	2.1	329.7		255.75	0.00	0.00	1.80		10.35	18.92	83.84	86.68	12-Apr-19 19:00:00		**266.10**	**18.92**	**83.84**	**88.48**
12-Apr-19 20:00:00	12-Apr-19 21:00:00		768.82	0.00	0.00	5.51	2.1	329.7		253.48	0.00	0.00	1.82		10.35	18.92	83.84	86.68	12-Apr-19 20:00:00		**263.83**	**18.92**	**83.84**	**88.50**
12-Apr-19 21:00:00	12-Apr-19 22:00:00		776.59	0.00	0.00	5.56	2.1	329.7		256.04	0.00	0.00	1.83		10.35	18.92	83.84	86.68	12-Apr-19 21:00:00		**266.39**	**18.92**	**83.84**	**88.51**
12-Apr-19 22:00:00	12-Apr-19 23:00:00		773.25	0.00	0.00	5.67	2.1	329.7		254.94	0.00	0.00	1.87		10.35	18.92	83.84	86.68	12-Apr-19 22:00:00		**265.29**	**18.92**	**83.84**	**88.55**
12-Apr-19 23:00:00	13-Apr-19 00:00:00		773.65	0.00	0.00	5.72	2.1	329.7		255.07	0.00	0.00	1.88		10.35	18.92	83.84	86.68	12-Apr-19 23:00:00		**265.42**	**18.92**	**83.84**	**88.56**
13-Apr-19 00:00:00	13-Apr-19 01:00:00		776.57	0.00	0.00	5.76	2.1	329.7		256.03	0.00	0.00	1.90		10.35	18.92	83.84	86.68	13-Apr-19 00:00:00		**266.38**	**18.92**	**83.84**	**88.58**
13-Apr-19 01:00:00	13-Apr-19 02:00:00		771.67	0.00	0.00	5.80	2.1	329.7		254.42	0.00	0.00	1.91		10.35	18.92	83.84	86.68	13-Apr-19 01:00:00		**264.77**	**18.92**	**83.84**	**88.59**
13-Apr-19 02:00:00	13-Apr-19 03:00:00		765.65	0.00	0.00	5.86	2.1	329.7		252.44	0.00	0.00	1.93		10.35	18.92	83.84	86.68	13-Apr-19 02:00:00		**262.79**	**18.92**	**83.84**	**88.61**
13-Apr-19 03:00:00	13-Apr-19 04:00:00		765.81	0.00	0.00	5.90	2.1	329.7		252.49	0.00	0.00	1.94		10.35	18.92	83.84	86.68	13-Apr-19 03:00:00		**262.84**	**18.92**	**83.84**	**88.62**
13-Apr-19 04:00:00	13-Apr-19 05:00:00		610.75	0.00	0.00	5.93	2.1	329.7		201.36	0.00	0.00	1.96		10.35	18.92	83.84	86.68	13-Apr-19 04:00:00		**211.71**	**18.92**	**83.84**	**88.64**
13-Apr-19 05:00:00	13-Apr-19 06:00:00		529.56	0.00	0.00	5.97	2.1	329.7		174.60	0.00	0.00	1.97		10.35	18.92	83.84	86.68	13-Apr-19 05:00:00		**184.95**	**18.92**	**83.84**	**88.65**
13-Apr-19 06:00:00	13-Apr-19 07:00:00		477.92	0.00	0.00	5.96	2.1	329.7		157.57	0.00	0.00	1.96		10.35	18.92	83.84	86.68	13-Apr-19 06:00:00		**167.92**	**18.92**	**83.84**	**88.64**
13-Apr-19 07:00:00	13-Apr-19 08:00:00		267.26	0.00	0.00	5.91	2.1	329.7		88.12	0.00	0.00	1.95		10.35	18.92	83.84	86.68	13-Apr-19 07:00:00		**98.47**	**18.92**	**83.84**	**88.63**
13-Apr-19 08:00:00	13-Apr-19 09:00:00		38.48	0.00	0.00	5.86	2.1	329.7		12.69	0.00	0.00	1.93		10.35	18.92	83.84	86.68	13-Apr-19 08:00:00		**23.04**	**18.92**	**83.84**	**88.61**
13-Apr-19 09:00:00	13-Apr-19 10:00:00		0.00	0.00	0.00	5.80	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	13-Apr-19 09:00:00		**10.35**	**18.92**	**83.84**	**88.59**
13-Apr-19 10:00:00	13-Apr-19 11:00:00		0.00	0.00	0.00	5.84	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	13-Apr-19 10:00:00		**10.35**	**18.92**	**83.84**	**88.61**
13-Apr-19 11:00:00	13-Apr-19 12:00:00		0.00	0.00	0.00	5.88	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	13-Apr-19 11:00:00		**10.35**	**18.92**	**83.84**	**88.62**
13-Apr-19 12:00:00	13-Apr-19 13:00:00		1.97	0.00	0.00	5.91	2.1	329.7		0.65	0.00	0.00	1.95		10.35	18.92	83.84	86.68	13-Apr-19 12:00:00		**11.00**	**18.92**	**83.84**	**88.63**
13-Apr-19 13:00:00	13-Apr-19 14:00:00		3.76	0.00	0.00	5.94	2.1	329.7		1.24	0.00	0.00	1.96		10.35	18.92	83.84	86.68	13-Apr-19 13:00:00		**11.59**	**18.92**	**83.84**	**88.64**
13-Apr-19 14:00:00	13-Apr-19 15:00:00		4.24	0.00	0.00	5.79	2.1	329.7		1.40	0.00	0.00	1.91		10.35	18.92	83.84	86.68	13-Apr-19 14:00:00		**11.75**	**18.92**	**83.84**	**88.59**
13-Apr-19 15:00:00	13-Apr-19 16:00:00		4.72	0.00	0.00	5.75	2.1	329.7		1.56	0.00	0.00	1.89		10.35	18.92	83.84	86.68	13-Apr-19 15:00:00		**11.91**	**18.92**	**83.84**	**88.57**
13-Apr-19 16:00:00	13-Apr-19 17:00:00		4.68	0.00	0.00	5.72	2.1	329.7		1.54	0.00	0.00	1.89		10.35	18.92	83.84	86.68	13-Apr-19 16:00:00		**11.89**	**18.92**	**83.84**	**88.57**
13-Apr-19 17:00:00	13-Apr-19 18:00:00		4.00	0.00	0.00	5.69	2.1	329.7		1.32	0.00	0.00	1.88		10.35	18.92	83.84	86.68	13-Apr-19 17:00:00		**11.67**	**18.92**	**83.84**	**88.56**
13-Apr-19 18:00:00	13-Apr-19 19:00:00		4.09	0.00	0.00	5.69	2.1	329.7		1.35	0.00	0.00	1.87		10.35	18.92	83.84	86.68	13-Apr-19 18:00:00		**11.70**	**18.92**	**83.84**	**88.55**
13-Apr-19 19:00:00	13-Apr-19 20:00:00		4.18	0.00	0.00	5.73	2.1	329.7		1.38	0.00	0.00	1.89		10.35	18.92	83.84	86.68	13-Apr-19 19:00:00		**11.73**	**18.92**	**83.84**	**88.57**
13-Apr-19 20:00:00	13-Apr-19 21:00:00		3.98	0.00	0.00	5.78	2.1	329.7		1.31	0.00	0.00	1.90		10.35	18.92	83.84	86.68	13-Apr-19 20:00:00		**11.66**	**18.92**	**83.84**	**88.58**
13-Apr-19 21:00:00	13-Apr-19 22:00:00		1.74	0.00	0.00	5.82	2.1	329.7		0.57	0.00	0.00	1.92		10.35	18.92	83.84	86.68	13-Apr-19 21:00:00		**10.92**	**18.92**	**83.84**	**88.60**
13-Apr-19 22:00:00	13-Apr-19 23:00:00		1.17	0.00	0.00	5.81	2.1	329.7		0.39	0.00	0.00	1.92		10.35	18.92	83.84	86.68	13-Apr-19 22:00:00		**10.74**	**18.92**	**83.84**	**88.60**
13-Apr-19 23:00:00	14-Apr-19 00:00:00		0.75	0.00	0.00	5.85	2.1	329.7		0.25	0.00	0.00	1.93		10.35	18.92	83.84	86.68	13-Apr-19 23:00:00		**10.60**	**18.92**	**83.84**	**88.61**
14-Apr-19 00:00:00	14-Apr-19 01:00:00		0.33	0.00	0.00	5.90	2.1	329.7		0.11	0.00	0.00	1.95		10.35	18.92	83.84	86.68	14-Apr-19 00:00:00		**10.46**	**18.92**	**83.84**	**88.63**
14-Apr-19 01:00:00	14-Apr-19 02:00:00		1.20	0.00	0.00	5.95	2.1	329.7		0.40	0.00	0.00	1.96		10.35	18.92	83.84	86.68	14-Apr-19 01:00:00		**10.75**	**18.92**	**83.84**	**88.64**
14-Apr-19 02:00:00	14-Apr-19 03:00:00		0.70	0.00	0.00	5.87	2.1	329.7		0.23	0.00	0.00	1.93		10.35	18.92	83.84	86.68	14-Apr-19 02:00:00		**10.58**	**18.92**	**83.84**	**88.61**
14-Apr-19 03:00:00	14-Apr-19 04:00:00		0.50	0.00	0.00	5.87	2.1	329.7		0.17	0.00	0.00	1.94		10.35	18.92	83.84	86.68	14-Apr-19 03:00:00		**10.52**	**18.92**	**83.84**	**88.62**
14-Apr-19 04:00:00	14-Apr-19 05:00:00		0.30	0.00	0.00	5.90	2.1	329.7		0.10	0.00	0.00	1.95		10.35	18.92	83.84	86.68	14-Apr-19 04:00:00		**10.45**	**18.92**	**83.84**	**88.63**
14-Apr-19 05:00:00	14-Apr-19 06:00:00		0.10	0.00	0.00	5.93	2.1	329.7		0.03	0.00	0.00	1.95		10.35	18.92	83.84	86.68	14-Apr-19 05:00:00		**10.38**	**18.92**	**83.84**	**88.63**
14-Apr-19 06:00:00	14-Apr-19 07:00:00		0.00	0.00	0.00	5.91	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	14-Apr-19 06:00:00		**10.35**	**18.92**	**83.84**	**88.63**
14-Apr-19 07:00:00	14-Apr-19 08:00:00		0.00	0.00	0.00	5.88	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	14-Apr-19 07:00:00		**10.35**	**18.92**	**83.84**	**88.62**
14-Apr-19 08:00:00	14-Apr-19 09:00:00		0.00	0.00	0.00	5.85	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	14-Apr-19 08:00:00		**10.35**	**18.92**	**83.84**	**88.61**
14-Apr-19 09:00:00	14-Apr-19 10:00:00		0.00	0.00	0.00	5.82	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	14-Apr-19 09:00:00		**10.35**	**18.92**	**83.84**	**88.60**
14-Apr-19 10:00:00	14-Apr-19 11:00:00		0.00	0.00	0.00	5.79	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	14-Apr-19 10:00:00		**10.35**	**18.92**	**83.84**	**88.59**
14-Apr-19 11:00:00	14-Apr-19 12:00:00		0.00	0.00	0.00	5.77	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	14-Apr-19 11:00:00		**10.35**	**18.92**	**83.84**	**88.58**
14-Apr-19 12:00:00	14-Apr-19 13:00:00		0.00	0.00	0.00	5.76	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	14-Apr-19 12:00:00		**10.35**	**18.92**	**83.84**	**88.58**
14-Apr-19 13:00:00	14-Apr-19 14:00:00		11.07	0.00	0.00	5.74	2.1	329.7		3.65	0.00	0.00	1.89		10.35	18.92	83.84	86.68	14-Apr-19 13:00:00		**14.00**	**18.92**	**83.84**	**88.57**
14-Apr-19 14:00:00	14-Apr-19 15:00:00		10.07	0.00	0.00	5.54	2.1	329.7		3.32	0.00	0.00	1.83		10.35	18.92	83.84	86.68	14-Apr-19 14:00:00		**13.67**	**18.92**	**83.84**	**88.51**
14-Apr-19 15:00:00	14-Apr-19 16:00:00		14.12	0.00	0.00	5.49	2.1	329.7		4.65	0.00	0.00	1.81		10.35	18.92	83.84	86.68	14-Apr-19 15:00:00		**15.00**	**18.92**	**83.84**	**88.49**
14-Apr-19 16:00:00	14-Apr-19 17:00:00		10.72	0.00	0.00	5.48	2.1	329.7		3.53	0.00	0.00	1.81		10.35	18.92	83.84	86.68	14-Apr-19 16:00:00		**13.88**	**18.92**	**83.84**	**88.49**
14-Apr-19 17:00:00	14-Apr-19 18:00:00		2.23	0.00	0.00	5.47	2.1	329.7		0.74	0.00	0.00	1.80		10.35	18.92	83.84	86.68	14-Apr-19 17:00:00		**11.09**	**18.92**	**83.84**	**88.48**
14-Apr-19 18:00:00	14-Apr-19 19:00:00		7.18	0.00	0.00	5.55	2.1	329.7		2.37	0.00	0.00	1.83		10.35	18.92	83.84	86.68	14-Apr-19 18:00:00		**12.72**	**18.92**	**83.84**	**88.51**
14-Apr-19 19:00:00	14-Apr-19 20:00:00		22.68	0.00	0.00	5.64	2.1	329.7		7.48	0.00	0.00	1.86		10.35	18.92	83.84	86.68	14-Apr-19 19:00:00		**17.83**	**18.92**	**83.84**	**88.54**
14-Apr-19 20:00:00	14-Apr-19 21:00:00		20.58	0.00	0.00	5.72	2.1	329.7		6.78	0.00	0.00	1.88		10.35	18.92	83.84	86.68	14-Apr-19 20:00:00		**17.13**	**18.92**	**83.84**	**88.56**
14-Apr-19 21:00:00	14-Apr-19 22:00:00		21.16	0.00	0.00	5.79	2.1	329.7		6.98	0.00	0.00	1.91		10.35	18.92	83.84	86.68	14-Apr-19 21:00:00		**17.33**	**18.92**	**83.84**	**88.59**
14-Apr-19 22:00:00	14-Apr-19 23:00:00		21.75	0.00	0.00	5.84	2.1	329.7		7.17	0.00	0.00	1.92		10.35	18.92	83.84	86.68	14-Apr-19 22:00:00		**17.52**	**18.92**	**83.84**	**88.60**
14-Apr-19 23:00:00	15-Apr-19 00:00:00		22.30	0.00	0.00	6.05	2.1	329.7		7.35	0.00	0.00	1.99		10.35	18.92	83.84	86.68	14-Apr-19 23:00:00		**17.70**	**18.92**	**83.84**	**88.67**
15-Apr-19 00:00:00	15-Apr-19 01:00:00		21.57	0.00	0.00	6.28	2.1	329.7		7.11	0.00	0.00	2.07		10.35	18.92	83.84	86.68	15-Apr-19 00:00:00		**17.46**	**18.92**	**83.84**	**88.75**
15-Apr-19 01:00:00	15-Apr-19 02:00:00		13.99	0.00	0.00	6.51	2.1	329.7		4.61	0.00	0.00	2.15		10.35	18.92	83.84	86.68	15-Apr-19 01:00:00		**14.96**	**18.92**	**83.84**	**88.83**
15-Apr-19 02:00:00	15-Apr-19 03:00:00		14.69	0.00	0.00	6.75	2.1	329.7		4.84	0.00	0.00	2.22		10.35	18.92	83.84	86.68	15-Apr-19 02:00:00		**15.19**	**18.92**	**83.84**	**88.90**
15-Apr-19 03:00:00	15-Apr-19 04:00:00		2.77	0.00	0.00	6.94	2.1	329.7		0.91	0.00	0.00	2.29		10.35	18.92	83.84	86.68	15-Apr-19 03:00:00		**11.26**	**18.92**	**83.84**	**88.97**
15-Apr-19 04:00:00	15-Apr-19 05:00:00		7.98	0.00	0.00	7.13	2.1	329.7		2.63	0.00	0.00	2.35		10.35	18.92	83.84	86.68	15-Apr-19 04:00:00		**12.98**	**18.92**	**83.84**	**89.03**
15-Apr-19 05:00:00	15-Apr-19 06:00:00		9.70	0.00	0.00	7.32	2.1	329.7		3.20	0.00	0.00	2.41		10.35	18.92	83.84	86.68	15-Apr-19 05:00:00		**13.55**	**18.92**	**83.84**	**89.09**
15-Apr-19 06:00:00	15-Apr-19 07:00:00		13.62	0.00	0.00	7.34	2.1	329.7		4.49	0.00	0.00	2.42		10.35	18.92	83.84	86.68	15-Apr-19 06:00:00		**14.84**	**18.92**	**83.84**	**89.10**
15-Apr-19 07:00:00	15-Apr-19 08:00:00		1.17	0.00	0.00	7.18	2.1	329.7		0.39	0.00	0.00	2.37		10.35	18.92	83.84	86.68	15-Apr-19 07:00:00		**10.74**	**18.92**	**83.84**	**89.05**
15-Apr-19 08:00:00	15-Apr-19 09:00:00		0.78	0.00	0.00	7.03	2.1	329.7		0.26	0.00	0.00	2.32		10.35	18.92	83.84	86.68	15-Apr-19 08:00:00		**10.61**	**18.92**	**83.84**	**89.00**
15-Apr-19 09:00:00	15-Apr-19 10:00:00		0.79	0.00	0.00	6.87	2.1	329.7		0.26	0.00	0.00	2.27		10.35	18.92	83.84	86.68	15-Apr-19 09:00:00		**10.61**	**18.92**	**83.84**	**88.95**
15-Apr-19 10:00:00	15-Apr-19 11:00:00		0.81	0.00	0.00	6.81	2.1	329.7		0.27	0.00	0.00	2.25		10.35	18.92	83.84	86.68	15-Apr-19 10:00:00		**10.62**	**18.92**	**83.84**	**88.93**
15-Apr-19 11:00:00	15-Apr-19 12:00:00		0.56	0.00	0.00	6.61	2.1	329.7		0.19	0.00	0.00	2.18		10.35	18.92	83.84	86.68	15-Apr-19 11:00:00		**10.54**	**18.92**	**83.84**	**88.86**
15-Apr-19 12:00:00	15-Apr-19 13:00:00		6.15	0.00	0.00	6.39	2.1	329.7		2.03	0.00	0.00	2.11		10.35	18.92	83.84	86.68	15-Apr-19 12:00:00		**12.38**	**18.92**	**83.84**	**88.79**
15-Apr-19 13:00:00	15-Apr-19 14:00:00		4.60	0.00	0.00	6.16	2.1	329.7		1.52	0.00	0.00	2.03		10.35	18.92	83.84	86.68	15-Apr-19 13:00:00		**11.87**	**18.92**	**83.84**	**88.71**
15-Apr-19 14:00:00	15-Apr-19 15:00:00		7.19	0.00	0.00	5.95	2.1	329.7		2.37	0.00	0.00	1.96		10.35	18.92	83.84	86.68	15-Apr-19 14:00:00		**12.72**	**18.92**	**83.84**	**88.64**
15-Apr-19 15:00:00	15-Apr-19 16:00:00		10.59	0.00	0.00	5.88	2.1	329.7		3.49	0.00	0.00	1.94		10.35	18.92	83.84	86.68	15-Apr-19 15:00:00		**13.84**	**18.92**	**83.84**	**88.62**
15-Apr-19 16:00:00	15-Apr-19 17:00:00		15.70	0.00	0.00	5.82	2.1	329.7		5.18	0.00	0.00	1.92		10.35	18.92	83.84	86.68	15-Apr-19 16:00:00		**15.53**	**18.92**	**83.84**	**88.60**
15-Apr-19 17:00:00	15-Apr-19 18:00:00		2.13	0.00	0.00	5.76	2.1	329.7		0.70	0.00	0.00	1.90		10.35	18.92	83.84	86.68	15-Apr-19 17:00:00		**11.05**	**18.92**	**83.84**	**88.58**
15-Apr-19 18:00:00	15-Apr-19 19:00:00		0.00	0.00	0.00	5.63	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	15-Apr-19 18:00:00		**10.35**	**18.92**	**83.84**	**88.54**
15-Apr-19 19:00:00	15-Apr-19 20:00:00		0.00	0.00	0.00	5.67	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	15-Apr-19 19:00:00		**10.35**	**18.92**	**83.84**	**88.55**
15-Apr-19 20:00:00	15-Apr-19 21:00:00		0.00	0.00	0.00	5.73	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	15-Apr-19 20:00:00		**10.35**	**18.92**	**83.84**	**88.57**
15-Apr-19 21:00:00	15-Apr-19 22:00:00		38.70	0.00	0.00	5.79	2.1	329.7		12.76	0.00	0.00	1.91		10.35	18.92	83.84	86.68	15-Apr-19 21:00:00		**23.11**	**18.92**	**83.84**	**88.59**
15-Apr-19 22:00:00	15-Apr-19 23:00:00		0.35	0.00	0.00	5.93	2.1	329.7		0.11	0.00	0.00	1.95		10.35	18.92	83.84	86.68	15-Apr-19 22:00:00		**10.46**	**18.92**	**83.84**	**88.63**
15-Apr-19 23:00:00	16-Apr-19 00:00:00		4.80	0.00	0.00	6.19	2.1	329.7		1.58	0.00	0.00	2.04		10.35	18.92	83.84	86.68	15-Apr-19 23:00:00		**11.93**	**18.92**	**83.84**	**88.72**
16-Apr-19 00:00:00	16-Apr-19 01:00:00		5.77	0.00	0.00	6.46	2.1	329.7		1.90	0.00	0.00	2.13		10.35	18.92	83.84	86.68	16-Apr-19 00:00:00		**12.25**	**18.92**	**83.84**	**88.81**
16-Apr-19 01:00:00	16-Apr-19 02:00:00		12.81	0.00	0.00	6.72	2.1	329.7		4.22	0.00	0.00	2.22		10.35	18.92	83.84	86.68	16-Apr-19 01:00:00		**14.57**	**18.92**	**83.84**	**88.90**
16-Apr-19 02:00:00	16-Apr-19 03:00:00		2.54	0.00	0.00	7.03	2.1	329.7		0.84	0.00	0.00	2.32		10.35	18.92	83.84	86.68	16-Apr-19 02:00:00		**11.19**	**18.92**	**83.84**	**89.00**
16-Apr-19 03:00:00	16-Apr-19 04:00:00		0.89	0.00	0.00	7.22	2.1	329.7		0.29	0.00	0.00	2.38		10.35	18.92	83.84	86.68	16-Apr-19 03:00:00		**10.64**	**18.92**	**83.84**	**89.06**
16-Apr-19 04:00:00	16-Apr-19 05:00:00		8.23	0.00	0.00	7.37	2.1	329.7		2.71	0.00	0.00	2.43		10.35	18.92	83.84	86.68	16-Apr-19 04:00:00		**13.06**	**18.92**	**83.84**	**89.11**
16-Apr-19 05:00:00	16-Apr-19 06:00:00		6.34	0.00	0.00	7.53

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
18-Apr-19 07:00:00	18-Apr-19 08:00:00		1,417.22	0.00	0.00	5.80	2.1	329.7		467.26	0.00	0.00	1.91		10.35	18.92	83.84	86.68	18-Apr-19 07:00:00		477.61	18.92	83.84	88.59
18-Apr-19 08:00:00	18-Apr-19 09:00:00		1,407.70	0.00	0.00	5.83	2.1	329.7		464.12	0.00	0.00	1.92		10.35	18.92	83.84	86.68	18-Apr-19 08:00:00		474.47	18.92	83.84	88.60
18-Apr-19 09:00:00	18-Apr-19 10:00:00		1,391.09	0.00	0.00	5.86	2.1	329.7		458.64	0.00	0.00	1.93		10.35	18.92	83.84	86.68	18-Apr-19 09:00:00		468.99	18.92	83.84	88.61
18-Apr-19 10:00:00	18-Apr-19 11:00:00		1,393.28	0.00	0.00	5.76	2.1	329.7		459.37	0.00	0.00	1.90		10.35	18.92	83.84	86.68	18-Apr-19 10:00:00		469.72	18.92	83.84	88.58
18-Apr-19 11:00:00	18-Apr-19 12:00:00		1,395.74	0.00	0.00	5.50	2.1	329.7		460.17	0.00	0.00	1.81		10.35	18.92	83.84	86.68	18-Apr-19 11:00:00		470.52	18.92	83.84	88.49
18-Apr-19 12:00:00	18-Apr-19 13:00:00		1,035.37	0.00	0.00	5.27	2.1	329.7		341.36	0.00	0.00	1.74		10.35	18.92	83.84	86.68	18-Apr-19 12:00:00		351.71	18.92	83.84	88.42
18-Apr-19 13:00:00	18-Apr-19 14:00:00		821.43	0.00	0.00	5.03	2.1	329.7		270.83	0.00	0.00	1.66		10.35	18.92	83.84	86.68	18-Apr-19 13:00:00		281.18	18.92	83.84	88.34
18-Apr-19 14:00:00	18-Apr-19 15:00:00		0.01	0.00	0.00	4.77	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	18-Apr-19 14:00:00		10.35	18.92	83.84	88.25
18-Apr-19 15:00:00	18-Apr-19 16:00:00		0.00	0.00	0.00	4.71	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	18-Apr-19 15:00:00		10.35	18.92	83.84	88.23
18-Apr-19 16:00:00	18-Apr-19 17:00:00		0.00	0.00	0.00	4.71	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	18-Apr-19 16:00:00		10.35	18.92	83.84	88.23
18-Apr-19 17:00:00	18-Apr-19 18:00:00		0.00	0.00	0.00	4.71	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	18-Apr-19 17:00:00		10.35	18.92	83.84	88.23
18-Apr-19 18:00:00	18-Apr-19 19:00:00		0.00	0.00	0.00	4.70	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	18-Apr-19 18:00:00		10.35	18.92	83.84	88.23
18-Apr-19 19:00:00	18-Apr-19 20:00:00		0.00	0.00	0.00	4.83	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	18-Apr-19 19:00:00		10.35	18.92	83.84	88.27
18-Apr-19 20:00:00	18-Apr-19 21:00:00		0.00	0.00	0.00	5.00	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	18-Apr-19 20:00:00		10.35	18.92	83.84	88.33
18-Apr-19 21:00:00	18-Apr-19 22:00:00		0.00	0.00	0.00	5.17	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	18-Apr-19 21:00:00		10.35	18.92	83.84	88.38
18-Apr-19 22:00:00	18-Apr-19 23:00:00		0.00	0.00	0.00	5.27	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	18-Apr-19 22:00:00		10.35	18.92	83.84	88.42
18-Apr-19 23:00:00	19-Apr-19 00:00:00		0.00	0.00	0.00	5.37	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	18-Apr-19 23:00:00		10.35	18.92	83.84	88.45
19-Apr-19 00:00:00	19-Apr-19 01:00:00		0.00	0.00	0.00	5.50	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	19-Apr-19 00:00:00		10.35	18.92	83.84	88.49
19-Apr-19 01:00:00	19-Apr-19 02:00:00		0.00	0.00	0.00	5.63	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	19-Apr-19 01:00:00		10.35	18.92	83.84	88.53
19-Apr-19 02:00:00	19-Apr-19 03:00:00		0.00	0.00	0.00	5.74	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	19-Apr-19 02:00:00		10.35	18.92	83.84	88.57
19-Apr-19 03:00:00	19-Apr-19 04:00:00		0.00	0.00	0.00	5.75	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	19-Apr-19 03:00:00		10.35	18.92	83.84	88.58
19-Apr-19 04:00:00	19-Apr-19 05:00:00		0.00	0.00	0.00	5.74	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	19-Apr-19 04:00:00		10.35	18.92	83.84	88.57
19-Apr-19 05:00:00	19-Apr-19 06:00:00		0.00	0.00	0.00	5.72	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	19-Apr-19 05:00:00		10.35	18.92	83.84	88.57
19-Apr-19 06:00:00	19-Apr-19 07:00:00		0.00	0.00	0.00	5.71	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	19-Apr-19 06:00:00		10.35	18.92	83.84	88.56
19-Apr-19 07:00:00	19-Apr-19 08:00:00		0.00	0.00	0.00	5.64	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	19-Apr-19 07:00:00		10.35	18.92	83.84	88.54
19-Apr-19 08:00:00	19-Apr-19 09:00:00		0.00	0.00	0.00	5.56	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	19-Apr-19 08:00:00		10.35	18.92	83.84	88.51
19-Apr-19 09:00:00	19-Apr-19 10:00:00		0.00	0.00	0.00	5.47	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	19-Apr-19 09:00:00		10.35	18.92	83.84	88.48
19-Apr-19 10:00:00	19-Apr-19 11:00:00		0.00	0.00	0.00	5.40	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	19-Apr-19 10:00:00		10.35	18.92	83.84	88.46
19-Apr-19 11:00:00	19-Apr-19 12:00:00		0.00	0.00	0.00	5.36	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	19-Apr-19 11:00:00		10.35	18.92	83.84	88.45
19-Apr-19 12:00:00	19-Apr-19 13:00:00		0.00	0.00	0.00	5.31	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	19-Apr-19 12:00:00		10.35	18.92	83.84	88.43
19-Apr-19 13:00:00	19-Apr-19 14:00:00		0.00	0.00	0.00	5.26	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	19-Apr-19 13:00:00		10.35	18.92	83.84	88.41
19-Apr-19 14:00:00	19-Apr-19 15:00:00		0.00	0.00	0.00	5.27	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	19-Apr-19 14:00:00		10.35	18.92	83.84	88.42
19-Apr-19 15:00:00	19-Apr-19 16:00:00		0.00	0.00	0.00	5.44	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	19-Apr-19 15:00:00		10.35	18.92	83.84	88.47
19-Apr-19 16:00:00	19-Apr-19 17:00:00		0.00	0.00	0.00	5.61	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	19-Apr-19 16:00:00		10.35	18.92	83.84	88.53
19-Apr-19 17:00:00	19-Apr-19 18:00:00		0.00	0.00	0.00	5.78	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	19-Apr-19 17:00:00		10.35	18.92	83.84	88.59
19-Apr-19 18:00:00	19-Apr-19 19:00:00		0.00	0.00	0.00	5.95	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	19-Apr-19 18:00:00		10.35	18.92	83.84	88.64
19-Apr-19 19:00:00	19-Apr-19 20:00:00		0.00	0.00	0.00	6.05	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	19-Apr-19 19:00:00		10.35	18.92	83.84	88.68
19-Apr-19 20:00:00	19-Apr-19 21:00:00		0.00	0.00	0.00	6.15	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	19-Apr-19 20:00:00		10.35	18.92	83.84	88.71
19-Apr-19 21:00:00	19-Apr-19 22:00:00		0.00	0.00	0.00	6.25	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	19-Apr-19 21:00:00		10.35	18.92	83.84	88.74
19-Apr-19 22:00:00	19-Apr-19 23:00:00		0.00	0.00	0.00	6.37	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	19-Apr-19 22:00:00		10.35	18.92	83.84	88.78
19-Apr-19 23:00:00	20-Apr-19 00:00:00		0.00	0.00	0.00	6.59	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	19-Apr-19 23:00:00		10.35	18.92	83.84	88.85
20-Apr-19 00:00:00	20-Apr-19 01:00:00		0.00	0.00	0.00	6.82	2.1	329.7		0.00	0.00	0.00	2.25		10.35	18.92	83.84	86.68	20-Apr-19 00:00:00		10.35	18.92	83.84	88.93
20-Apr-19 01:00:00	20-Apr-19 02:00:00		0.00	0.00	0.00	7.06	2.1	329.7		0.00	0.00	0.00	2.33		10.35	18.92	83.84	86.68	20-Apr-19 01:00:00		10.35	18.92	83.84	89.01
20-Apr-19 02:00:00	20-Apr-19 03:00:00		0.00	0.00	0.00	7.25	2.1	329.7		0.00	0.00	0.00	2.39		10.35	18.92	83.84	86.68	20-Apr-19 02:00:00		10.35	18.92	83.84	89.07
20-Apr-19 03:00:00	20-Apr-19 04:00:00		0.00	0.00	0.00	7.44	2.1	329.7		0.00	0.00	0.00	2.45		10.35	18.92	83.84	86.68	20-Apr-19 03:00:00		10.35	18.92	83.84	89.13
20-Apr-19 04:00:00	20-Apr-19 05:00:00		0.00	0.00	0.00	7.67	2.1	329.7		0.00	0.00	0.00	2.53		10.35	18.92	83.84	86.68	20-Apr-19 04:00:00		10.35	18.92	83.84	89.21
20-Apr-19 05:00:00	20-Apr-19 06:00:00		0.00	0.00	0.00	7.90	2.1	329.7		0.00	0.00	0.00	2.60		10.35	18.92	83.84	86.68	20-Apr-19 05:00:00		10.35	18.92	83.84	89.28
20-Apr-19 06:00:00	20-Apr-19 07:00:00		0.00	0.00	0.00	7.95	2.1	329.7		0.00	0.00	0.00	2.62		10.35	18.92	83.84	86.68	20-Apr-19 06:00:00		10.35	18.92	83.84	89.30
20-Apr-19 07:00:00	20-Apr-19 08:00:00		0.00	14.91	0.00	7.72	2.1	329.7		0.00	4.92	0.00	2.55		10.35	18.92	83.84	86.68	20-Apr-19 07:00:00		10.35	23.84	83.84	89.23
20-Apr-19 08:00:00	20-Apr-19 09:00:00		17.22	497.68	0.00	7.56	2.1	329.7		5.68	164.08	0.00	2.49		10.35	18.92	83.84	86.68	20-Apr-19 08:00:00		16.03	183.00	83.84	89.17
20-Apr-19 09:00:00	20-Apr-19 10:00:00		411.94	848.46	0.00	7.40	2.1	329.7		135.82	279.74	0.00	2.44		10.35	18.92	83.84	86.68	20-Apr-19 09:00:00		146.17	298.66	83.84	89.12
20-Apr-19 10:00:00	20-Apr-19 11:00:00		410.41	888.16	0.00	7.30	2.1	329.7		135.31	292.83	0.00	2.41		10.35	18.92	83.84	86.68	20-Apr-19 10:00:00		145.66	311.75	83.84	89.09
20-Apr-19 11:00:00	20-Apr-19 12:00:00		391.22	885.95	0.00	7.32	2.1	329.7		128.98	292.10	0.00	2.41		10.35	18.92	83.84	86.68	20-Apr-19 11:00:00		139.33	311.02	83.84	89.09
20-Apr-19 12:00:00	20-Apr-19 13:00:00		392.54	890.73	0.00	7.33	2.1	329.7		129.42	293.67	0.00	2.42		10.35	18.92	83.84	86.68	20-Apr-19 12:00:00		139.77	312.59	83.84	89.10
20-Apr-19 13:00:00	20-Apr-19 14:00:00		398.46	910.11	0.00	7.34	2.1	329.7		131.37	300.06	0.00	2.42		10.35	18.92	83.84	86.68	20-Apr-19 13:00:00		141.72	318.98	83.84	89.10
20-Apr-19 14:00:00	20-Apr-19 15:00:00		389.93	840.70	0.00	7.35	2.1	329.7		128.56	277.18	0.00	2.42		10.35	18.92	83.84	86.68	20-Apr-19 14:00:00		138.91	296.10	83.84	89.10
20-Apr-19 15:00:00	20-Apr-19 16:00:00		296.80	281.92	0.00	7.26	2.1	329.7		97.85	92.95	0.00	2.39		10.35	18.92	83.84	86.68	20-Apr-19 15:00:00		108.20	111.87	83.84	89.07
20-Apr-19 16:00:00	20-Apr-19 17:00:00		162.43	149.45	0.00	7.14	2.1	329.7		53.55	49.27	0.00	2.35		10.35	18.92	83.84	86.68	20-Apr-19 16:00:00		63.90	68.19	83.84	89.03
20-Apr-19 17:00:00	20-Apr-19 18:00:00		3.02	149.31	0.00	7.03	2.1	329.7		1.00	49.23	0.00	2.32		10.35	18.92	83.84	86.68	20-Apr-19 17:00:00		11.35	68.15	83.84	89.00
20-Apr-19 18:00:00	20-Apr-19 19:00:00		2.93	66.53	0.00	6.95	2.1	329.7		0.97	21.94	0.00	2.29		10.35	18.92	83.84	86.68	20-Apr-19 18:00:00		11.32	40.86	83.84	88.97
20-Apr-19 19:00:00	20-Apr-19 20:00:00		2.85	0.00	0.00	6.97	2.1	329.7		0.94	0.00	0.00	2.30		10.35	18.92	83.84	86.68	20-Apr-19 19:00:00		11.29	18.92	83.84	88.98
20-Apr-19 20:00:00	20-Apr-19 21:00:00		2.52	0.00	0.00	6.97	2.1	329.7		0.83	0.00	0.00	2.30		10.35	18.92	83.84	86.68	20-Apr-19 20:00:00		11.18	18.92	83.84	88.98
20-Apr-19 21:00:00	20-Apr-19 22:00:00		12.37	0.00	0.00	6.98	2.1	329.7		4.08	0.00	0.00	2.30		10.35	18.92	83.84	86.68	20-Apr-19 21:00:00		14.43	18.92	83.84	88.98
20-Apr-19 22:00:00	20-Apr-19 23:00:00		25.23	0.00	0.00	7.00	2.1	329.7		8.32	0.00	0.00	2.31		10.35	18.92	83.84	86.68	20-Apr-19 22:00:00		18.67	18.92	83.84	88.99
20-Apr-19 23:00:00	21-Apr-19 00:00:00		28.96	0.00	0.00	7.10	2.1	329.7		9.55	0.00	0.00	2.34		10.35	18.92	83.84	86.68	20-Apr-19 23:00:00		19.90	18.92	83.84	89.02
21-Apr-19 00:00:00	21-Apr-19 01:00:00		48.46	0.00	0.00	7.21	2.1	329.7		15.98	0.00	0.00	2.38		10.35	18.92	83.84	86.68	21-Apr-19 00:00:00		26.33	18.92	83.84	89.06
21-Apr-19 01:00:00	21-Apr-19 02:00:00		34.43	0.00	0.00	7.31	2.1	329.7		11.35	0.00	0.00	2.41		10.35	18.92	83.84	86.68	21-Apr-19 01:00:00		21.70	18.92	83.84	89.09
21-Apr-19 02:00:00	21-Apr-19 03:00:00		9.52	0.00	0.00	7.26	2.1	329.7		3.14	0.00	0.00	2.39		10.35	18.92	83.84	86.68	21-Apr-19 02:00:00		13.49	18.92	83.84	89.07
21-Apr-19 03:00:00	21-Apr-19 04:00:00		19.23	0.00	0.00	7.24	2.1	329.7		6.34	0.00	0.00	2.39		10.35	18.92	83.84	86.68	21-Apr-19 03:00:00		16.69	18.92	83.84	89.07
21-Apr-19 04:00:00	21-Apr-19 05:00:00		37.39	0.00	0.00	7.39	2.1	329.7		12.33	0.00	0.00	2.44		10.35	18.92	83.84	86.68	21-Apr-19 04:00:00		22.68	18.92	83.84	89.12
21-Apr-19 05:00:00	21-Apr-19 06:00:00		39.46	0.00	0.00	7.54	2.1	329.7		13.01	0.00	0.00	2.49		10.35	18.92	83.84	86.68	21-Apr-19 05:00:00		23.36	18.92	83.84	89.17
21-Apr-19 06:00:00	21-Apr-19 07:00:00		33.77	0.00	0.00	7.60	2.1	329.7		11.14	0.00	0.00	2.51		10.35	18.92	83.84	86.68	21-Apr-19 06:00:00		21.49	18.92	83.84	89.19
21-Apr-19 07:00:00	21-Apr-19 08:00:00		33.99	0.00	0.00	7.30	2.1	329.7		11.21	0.00	0.00	2.41		10.35	18.92	83.84	86.68	21-Apr-19 07:00:00		21.56	18.92	83.84	89.09
21-Apr-19 08:00:00	21-Apr-19 09:00:00		34.20	0.00	0.00	6.98	2.1	329.7		11.28	0.00	0.00	2.30		10.35	18.92	83.84	86.68	21-Apr-19 08:00:00		21.63	18.92	83.84	88.98
21-Apr-19 09:00:00	21-Apr-19 10:00:00		34.67	0.00	0.00	6.66	2.1	329.7		11.43	0.00	0.00	2.19		10.35	18.92	83.84	86.68	21-Apr-19 09:00:00		21.78	18.92	83.84	88.87
21-Apr-19 10:00:00	21-Apr-19 11:00:00		30.66	0.00	0.00	6.35	2.1	329.7		10.11	0.00	0.00	2.09		10.35	18.92	83.84	86.68	21-Apr-19 10:00:00		20.46	18.92	83.84	88.77
21-Apr-19 11:00:00	21-Apr-19 12:00:00		9.52	0.00	0.00	34.93	2.1	329.7		3.14	0.00	0.00	11.52		10.35	18.92	83.84	86.68	21-Apr-19 11:00:00		13.49	18.92	83.84	98.20
21-Apr-19 12:00:00	21-Apr-19 13:00:00		6.17	0.00	0.00	6.04	2.1	329.7		2.03	0.00	0.00	1.99		10.35	18.92	83.84	86.68	21-Apr-19 12:00:00		12.38	18.92	83.84	88.67
21-Apr-19 13:00:00	21-Apr-19 14:00:00		25.68	0.00	0.00	5.96	2.1	329.7		8.47	0.00	0.00	1.97		10.35	18.92	83.84	86.68	21-Apr-19 13:00:00		18.82	18.92	83.84	88.65
21-Apr-19 14:00:00	21-Apr-19 15:00:00		18.85	0.00	0.00	5.88	2.1	329.7		6.21	0.00	0.00	1.94		10.35	18.92	83.84	86.68	21-Apr-19 14:00:00		16.56	18.92	83.84	88.62
21-Apr-19 15:00:00	21-Apr-19 16:00:00		26.29	0.00	0.00	5.87	2.1	329.7		8.67	0.00	0.00	1.94		10.35	18.92	83.84	86.68	21-Apr-19 15:00:00		19.02	18.92	83.84	88.62
21-Apr-19 16:00:00	21-Apr-19 17:00:00		25.96	0.00	0.00	5.93	2.1	329.7		8.56	0.00	0.00	1.96		10.35	18.92	83.84	86.68	21-Apr-19 16:00:00		18.91	18.92	83.84	88.64
21-Apr-19 17:00:00	21-Apr-19 18:00:00		22.72	0.00	0.00	5.88	2.1	329.7		7.49	0.00	0.00	1.94		10.35	18.92	83.84	86.68	21-Apr-19 17:00:00		17.84	18.92	83.84	88.62
21-Apr-19 18:00:00	21-Apr-19 19:00:00		34.81	0.00	0.00	5.84	2.1	329.7		11.48	0.00	0.00	1.92		10.35	18.92	83.84	86.68	21-Apr-19 18:00:00		21.83	18.92	83.84	88.60
21-Apr-19 19:00:00	21-Apr-19 20:00:00		32.83	0.00	0.00	5.82	2.1	329.7		10.82	0.00	0.00	1.92		10.35	18.92	83.84	86.68	21-Apr-19 19:00:00		21.17	18.92	83.84	88.60
21-Apr-19 20:00:00	21-Apr-19 21:00:00		33.84	0.00	0.00	5.98	2.1	329.7		11.16	0.00	0.00	1.97		10.35	18.92	83.84	86.68	21-Apr-19 20:00:00		21.51	18.92	83.84	88.65
21-Apr-19 21:00:00	21-Apr-19 22:00:00		40.33	0.00	0.00	6.14	2.1	329.7		13.30	0.00	0.00	2.02		10.35	18.92	83.84	86.68	21-Apr-19 21:00:00		23.65	18.92	83.84	88.70
21-Apr-19 22:00:00	21-Apr-19 23:00:00		30.00	0.00	0.00	6.30	2.1	329.7		9.89	0.00	0.00	2.08		10.35	18.92	83.84	86.68	21-Apr-19 22:00:00		20.24	18.92	83.84	88.76
21-Apr-19 23:00:00	22-Apr-19 00:00:00		20.46	0.00	0.00	6.46	2.1	329.7		6.75	0.00	0.00	2.13		10.35	18.92	83.84	86.68	21-Apr-19 23:00:00		17.10	18.92	83.84	88.81
22-Apr-19 00:00:00	22-Apr-19 01:00:00		16.28	0.00	0.00	19.87	2.1	329.7		5.37	0.00	0.00	6.55		10.35	18.92	83.84	86.68	22-Apr-19 00:00:00		15.72	18.92	83.84	93.23
22-Apr-19 01:00:00	22-Apr-19 02:00:00		5.95	0.00	0.00	16.69	2.1	329.7		1.96	0.00	0.00	5.50		10.35	18.92	83.84	86.68	22-Apr-19 01:00:00		12.31	18.92	83.84	92.18
22-Apr-19 02:00:00	22-Apr-19 03:00:00		8.04	0.00	0.00	6.84	2.1	329.7		2.65	0.00	0.00	2.26		10.35	18.92	83.84	86.68	22-Apr-19 02:00:00		13.00	18.92	83.84	88.94
22-Apr-19 03:00:00	22-Apr-19 04:00:00		4.01	0.00	0.00	6.89	2.1	329.7		1.32	0.00	0.00	2.27		10.35	18.92	83.84	86.68	22-Apr-19 03:00:00		11.67	18.92	83.84	88.95
22-Apr-19 04:00:00	22-Apr-19 05:00:00		12.48	0.00

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
24-Apr-19 06:00:00	24-Apr-19 07:00:00		14.99	0.00	0.00	6.54	2.1	329.7		4.94	0.00	0.00	2.16		10.35	18.92	83.84	86.68	24-Apr-19 06:00:00		15.29	18.92	83.84	88.84
24-Apr-19 07:00:00	24-Apr-19 08:00:00		9.11	0.00	0.00	6.45	2.1	329.7		3.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	24-Apr-19 07:00:00		13.35	18.92	83.84	88.81
24-Apr-19 08:00:00	24-Apr-19 09:00:00		14.46	0.00	0.00	6.35	2.1	329.7		4.77	0.00	0.00	2.09		10.35	18.92	83.84	86.68	24-Apr-19 08:00:00		15.12	18.92	83.84	88.77
24-Apr-19 09:00:00	24-Apr-19 10:00:00		16.29	0.00	0.00	6.16	2.1	329.7		5.37	0.00	0.00	2.03		10.35	18.92	83.84	86.68	24-Apr-19 09:00:00		15.72	18.92	83.84	88.71
24-Apr-19 10:00:00	24-Apr-19 11:00:00		18.33	0.00	0.00	79.06	2.1	329.7		6.04	0.00	0.00	26.06		10.35	18.92	83.84	86.68	24-Apr-19 10:00:00		16.39	18.92	83.84	112.74
24-Apr-19 11:00:00	24-Apr-19 12:00:00		9.39	0.00	0.00	5.51	2.1	329.7		3.10	0.00	0.00	1.82		10.35	18.92	83.84	86.68	24-Apr-19 11:00:00		13.45	18.92	83.84	88.50
24-Apr-19 12:00:00	24-Apr-19 13:00:00		14.07	0.00	0.00	5.24	2.1	329.7		4.64	0.00	0.00	1.73		10.35	18.92	83.84	86.68	24-Apr-19 12:00:00		14.99	18.92	83.84	88.41
24-Apr-19 13:00:00	24-Apr-19 14:00:00		7.46	0.00	0.00	4.98	2.1	329.7		2.46	0.00	0.00	1.64		10.35	18.92	83.84	86.68	24-Apr-19 13:00:00		12.81	18.92	83.84	88.32
24-Apr-19 14:00:00	24-Apr-19 15:00:00		4.89	0.00	0.00	4.97	2.1	329.7		1.61	0.00	0.00	1.64		10.35	18.92	83.84	86.68	24-Apr-19 14:00:00		11.96	18.92	83.84	88.32
24-Apr-19 15:00:00	24-Apr-19 16:00:00		4.18	0.00	0.00	4.96	2.1	329.7		1.38	0.00	0.00	1.64		10.35	18.92	83.84	86.68	24-Apr-19 15:00:00		11.73	18.92	83.84	88.32
24-Apr-19 16:00:00	24-Apr-19 17:00:00		12.56	0.00	0.00	4.95	2.1	329.7		4.14	0.00	0.00	1.63		10.35	18.92	83.84	86.68	24-Apr-19 16:00:00		14.49	18.92	83.84	88.31
24-Apr-19 17:00:00	24-Apr-19 18:00:00		9.13	0.00	0.00	4.94	2.1	329.7		3.01	0.00	0.00	1.63		10.35	18.92	83.84	86.68	24-Apr-19 17:00:00		13.36	18.92	83.84	88.31
24-Apr-19 18:00:00	24-Apr-19 19:00:00		13.29	0.00	0.00	4.98	2.1	329.7		4.38	0.00	0.00	1.64		10.35	18.92	83.84	86.68	24-Apr-19 18:00:00		14.73	18.92	83.84	88.32
24-Apr-19 19:00:00	24-Apr-19 20:00:00		13.31	0.00	0.00	5.18	2.1	329.7		4.39	0.00	0.00	1.71		10.35	18.92	83.84	86.68	24-Apr-19 19:00:00		14.74	18.92	83.84	88.39
24-Apr-19 20:00:00	24-Apr-19 21:00:00		16.72	0.00	0.00	5.38	2.1	329.7		5.51	0.00	0.00	1.77		10.35	18.92	83.84	86.68	24-Apr-19 20:00:00		15.86	18.92	83.84	88.45
24-Apr-19 21:00:00	24-Apr-19 22:00:00		6.72	0.00	0.00	5.58	2.1	329.7		2.22	0.00	0.00	1.84		10.35	18.92	83.84	86.68	24-Apr-19 21:00:00		12.57	18.92	83.84	88.52
24-Apr-19 22:00:00	24-Apr-19 23:00:00		2.02	0.00	0.00	5.83	2.1	329.7		0.67	0.00	0.00	1.92		10.35	18.92	83.84	86.68	24-Apr-19 22:00:00		11.02	18.92	83.84	88.60
24-Apr-19 23:00:00	25-Apr-19 00:00:00		5.04	0.00	0.00	6.10	2.1	329.7		1.66	0.00	0.00	2.01		10.35	18.92	83.84	86.68	24-Apr-19 23:00:00		12.01	18.92	83.84	88.69
25-Apr-19 00:00:00	25-Apr-19 01:00:00		9.03	0.00	0.00	6.36	2.1	329.7		2.98	0.00	0.00	2.10		10.35	18.92	83.84	86.68	25-Apr-19 00:00:00		13.33	18.92	83.84	88.78
25-Apr-19 01:00:00	25-Apr-19 02:00:00		16.08	0.00	0.00	6.63	2.1	329.7		5.30	0.00	0.00	2.18		10.35	18.92	83.84	86.68	25-Apr-19 01:00:00		15.65	18.92	83.84	88.86
25-Apr-19 02:00:00	25-Apr-19 03:00:00		10.09	0.00	0.00	6.69	2.1	329.7		3.33	0.00	0.00	2.21		10.35	18.92	83.84	86.68	25-Apr-19 02:00:00		13.68	18.92	83.84	88.89
25-Apr-19 03:00:00	25-Apr-19 04:00:00		11.22	0.00	0.00	6.65	2.1	329.7		3.70	0.00	0.00	2.19		10.35	18.92	83.84	86.68	25-Apr-19 03:00:00		14.05	18.92	83.84	88.87
25-Apr-19 04:00:00	25-Apr-19 05:00:00		15.33	0.00	0.00	6.62	2.1	329.7		5.05	0.00	0.00	2.18		10.35	18.92	83.84	86.68	25-Apr-19 04:00:00		15.40	18.92	83.84	88.86
25-Apr-19 05:00:00	25-Apr-19 06:00:00		13.18	0.00	0.00	6.58	2.1	329.7		4.35	0.00	0.00	2.17		10.35	18.92	83.84	86.68	25-Apr-19 05:00:00		14.70	18.92	83.84	88.85
25-Apr-19 06:00:00	25-Apr-19 07:00:00		16.65	0.00	0.00	6.78	2.1	329.7		5.49	0.00	0.00	2.24		10.35	18.92	83.84	86.68	25-Apr-19 06:00:00		15.84	18.92	83.84	88.92
25-Apr-19 07:00:00	25-Apr-19 08:00:00		31.87	0.00	0.00	6.93	2.1	329.7		10.51	0.00	0.00	2.28		10.35	18.92	83.84	86.68	25-Apr-19 07:00:00		20.86	18.92	83.84	88.96
25-Apr-19 08:00:00	25-Apr-19 09:00:00		32.84	0.00	0.00	7.06	2.1	329.7		10.83	0.00	0.00	2.33		10.35	18.92	83.84	86.68	25-Apr-19 08:00:00		21.18	18.92	83.84	89.01
25-Apr-19 09:00:00	25-Apr-19 10:00:00		32.03	0.00	0.00	7.19	2.1	329.7		10.56	0.00	0.00	2.37		10.35	18.92	83.84	86.68	25-Apr-19 09:00:00		20.91	18.92	83.84	89.05
25-Apr-19 10:00:00	25-Apr-19 11:00:00		30.53	0.00	0.00	7.09	2.1	329.7		10.06	0.00	0.00	2.34		10.35	18.92	83.84	86.68	25-Apr-19 10:00:00		20.41	18.92	83.84	89.02
25-Apr-19 11:00:00	25-Apr-19 12:00:00		25.57	0.00	0.00	6.72	2.1	329.7		8.43	0.00	0.00	2.21		10.35	18.92	83.84	86.68	25-Apr-19 11:00:00		18.78	18.92	83.84	88.89
25-Apr-19 12:00:00	25-Apr-19 13:00:00		9.84	0.00	0.00	6.34	2.1	329.7		3.24	0.00	0.00	2.09		10.35	18.92	83.84	86.68	25-Apr-19 12:00:00		13.59	18.92	83.84	88.77
25-Apr-19 13:00:00	25-Apr-19 14:00:00		3.88	0.00	0.00	5.97	2.1	329.7		1.28	0.00	0.00	1.97		10.35	18.92	83.84	86.68	25-Apr-19 13:00:00		11.63	18.92	83.84	88.65
25-Apr-19 14:00:00	25-Apr-19 15:00:00		16.06	0.00	0.00	5.72	2.1	329.7		5.30	0.00	0.00	1.89		10.35	18.92	83.84	86.68	25-Apr-19 14:00:00		15.65	18.92	83.84	88.57
25-Apr-19 15:00:00	25-Apr-19 16:00:00		5.63	0.00	0.00	5.70	2.1	329.7		1.86	0.00	0.00	1.88		10.35	18.92	83.84	86.68	25-Apr-19 15:00:00		12.21	18.92	83.84	88.56
25-Apr-19 16:00:00	25-Apr-19 17:00:00		1.41	0.00	0.00	5.67	2.1	329.7		0.47	0.00	0.00	1.87		10.35	18.92	83.84	86.68	25-Apr-19 16:00:00		10.82	18.92	83.84	88.55
25-Apr-19 17:00:00	25-Apr-19 18:00:00		1.24	0.00	0.00	5.65	2.1	329.7		0.41	0.00	0.00	1.86		10.35	18.92	83.84	86.68	25-Apr-19 17:00:00		10.76	18.92	83.84	88.54
25-Apr-19 18:00:00	25-Apr-19 19:00:00		0.83	0.00	0.00	5.69	2.1	329.7		0.27	0.00	0.00	1.88		10.35	18.92	83.84	86.68	25-Apr-19 18:00:00		10.62	18.92	83.84	88.56
25-Apr-19 19:00:00	25-Apr-19 20:00:00		0.42	0.00	0.00	5.69	2.1	329.7		0.14	0.00	0.00	1.88		10.35	18.92	83.84	86.68	25-Apr-19 19:00:00		10.49	18.92	83.84	88.56
25-Apr-19 20:00:00	25-Apr-19 21:00:00		0.63	0.00	0.00	5.68	2.1	329.7		0.21	0.00	0.00	1.87		10.35	18.92	83.84	86.68	25-Apr-19 20:00:00		10.56	18.92	83.84	88.55
25-Apr-19 21:00:00	25-Apr-19 22:00:00		2.72	0.00	0.00	5.68	2.1	329.7		0.90	0.00	0.00	1.87		10.35	18.92	83.84	86.68	25-Apr-19 21:00:00		11.25	18.92	83.84	88.55
25-Apr-19 22:00:00	25-Apr-19 23:00:00		2.04	0.00	0.00	5.74	2.1	329.7		0.67	0.00	0.00	1.89		10.35	18.92	83.84	86.68	25-Apr-19 22:00:00		11.02	18.92	83.84	88.57
25-Apr-19 23:00:00	26-Apr-19 00:00:00		2.13	0.00	0.00	5.78	2.1	329.7		0.70	0.00	0.00	1.91		10.35	18.92	83.84	86.68	25-Apr-19 23:00:00		11.05	18.92	83.84	88.59
26-Apr-19 00:00:00	26-Apr-19 01:00:00		33.63	0.00	0.00	5.82	2.1	329.7		11.09	0.00	0.00	1.92		10.35	18.92	83.84	86.68	26-Apr-19 00:00:00		21.44	18.92	83.84	88.60
26-Apr-19 01:00:00	26-Apr-19 02:00:00		33.96	0.00	0.00	5.86	2.1	329.7		11.20	0.00	0.00	1.93		10.35	18.92	83.84	86.68	26-Apr-19 01:00:00		21.55	18.92	83.84	88.61
26-Apr-19 02:00:00	26-Apr-19 03:00:00		29.43	0.00	0.00	5.93	2.1	329.7		9.70	0.00	0.00	1.96		10.35	18.92	83.84	86.68	26-Apr-19 02:00:00		20.05	18.92	83.84	88.64
26-Apr-19 03:00:00	26-Apr-19 04:00:00		29.08	0.00	0.00	6.05	2.1	329.7		9.59	0.00	0.00	1.99		10.35	18.92	83.84	86.68	26-Apr-19 03:00:00		19.94	18.92	83.84	88.67
26-Apr-19 04:00:00	26-Apr-19 05:00:00		10.62	0.00	0.00	81.01	2.1	329.7		3.50	0.00	0.00	26.71		10.35	18.92	83.84	86.68	26-Apr-19 04:00:00		13.85	18.92	83.84	113.39
26-Apr-19 05:00:00	26-Apr-19 06:00:00		7.60	0.00	0.00	6.13	2.1	329.7		2.51	0.00	0.00	2.02		10.35	18.92	83.84	86.68	26-Apr-19 05:00:00		12.86	18.92	83.84	88.70
26-Apr-19 06:00:00	26-Apr-19 07:00:00		3.50	0.00	0.00	6.20	2.1	329.7		1.15	0.00	0.00	2.04		10.35	18.92	83.84	86.68	26-Apr-19 06:00:00		11.50	18.92	83.84	88.72
26-Apr-19 07:00:00	26-Apr-19 08:00:00		8.39	0.00	0.00	6.27	2.1	329.7		2.76	0.00	0.00	2.07		10.35	18.92	83.84	86.68	26-Apr-19 07:00:00		13.11	18.92	83.84	88.75
26-Apr-19 08:00:00	26-Apr-19 09:00:00		14.56	0.00	0.00	6.35	2.1	329.7		4.80	0.00	0.00	2.09		10.35	18.92	83.84	86.68	26-Apr-19 08:00:00		15.15	18.92	83.84	88.77
26-Apr-19 09:00:00	26-Apr-19 10:00:00		12.93	0.00	0.00	6.49	2.1	329.7		4.26	0.00	0.00	2.14		10.35	18.92	83.84	86.68	26-Apr-19 09:00:00		14.61	18.92	83.84	88.82
26-Apr-19 10:00:00	26-Apr-19 11:00:00		11.83	0.00	0.00	6.59	2.1	329.7		3.90	0.00	0.00	2.17		10.35	18.92	83.84	86.68	26-Apr-19 10:00:00		14.25	18.92	83.84	88.85
26-Apr-19 11:00:00	26-Apr-19 12:00:00		9.10	0.00	0.00	6.70	2.1	329.7		3.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	26-Apr-19 11:00:00		13.35	18.92	83.84	88.89
26-Apr-19 12:00:00	26-Apr-19 13:00:00		4.05	0.00	0.00	6.79	2.1	329.7		1.34	0.00	0.00	2.24		10.35	18.92	83.84	86.68	26-Apr-19 12:00:00		11.69	18.92	83.84	88.92
26-Apr-19 13:00:00	26-Apr-19 14:00:00		18.02	0.00	0.00	6.72	2.1	329.7		5.94	0.00	0.00	2.21		10.35	18.92	83.84	86.68	26-Apr-19 13:00:00		16.29	18.92	83.84	88.89
26-Apr-19 14:00:00	26-Apr-19 15:00:00		25.20	0.00	0.00	6.61	2.1	329.7		8.31	0.00	0.00	2.18		10.35	18.92	83.84	86.68	26-Apr-19 14:00:00		18.66	18.92	83.84	88.86
26-Apr-19 15:00:00	26-Apr-19 16:00:00		19.84	0.00	0.00	6.51	2.1	329.7		6.54	0.00	0.00	2.15		10.35	18.92	83.84	86.68	26-Apr-19 15:00:00		16.89	18.92	83.84	88.83
26-Apr-19 16:00:00	26-Apr-19 17:00:00		18.60	0.00	0.00	6.40	2.1	329.7		6.13	0.00	0.00	2.11		10.35	18.92	83.84	86.68	26-Apr-19 16:00:00		16.48	18.92	83.84	88.79
26-Apr-19 17:00:00	26-Apr-19 18:00:00		18.20	0.00	0.00	6.37	2.1	329.7		6.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	26-Apr-19 17:00:00		16.35	18.92	83.84	88.78
26-Apr-19 18:00:00	26-Apr-19 19:00:00		2.35	0.00	0.00	6.39	2.1	329.7		0.78	0.00	0.00	2.11		10.35	18.92	83.84	86.68	26-Apr-19 18:00:00		11.13	18.92	83.84	88.79
26-Apr-19 19:00:00	26-Apr-19 20:00:00		1.39	0.00	0.00	6.41	2.1	329.7		0.46	0.00	0.00	2.11		10.35	18.92	83.84	86.68	26-Apr-19 19:00:00		10.81	18.92	83.84	88.79
26-Apr-19 20:00:00	26-Apr-19 21:00:00		1.54	0.00	0.00	6.44	2.1	329.7		0.51	0.00	0.00	2.12		10.35	18.92	83.84	86.68	26-Apr-19 20:00:00		10.86	18.92	83.84	88.80
26-Apr-19 21:00:00	26-Apr-19 22:00:00		2.51	0.00	0.00	6.58	2.1	329.7		0.83	0.00	0.00	2.17		10.35	18.92	83.84	86.68	26-Apr-19 21:00:00		11.18	18.92	83.84	88.85
26-Apr-19 22:00:00	26-Apr-19 23:00:00		6.92	0.00	0.00	6.78	2.1	329.7		2.28	0.00	0.00	2.24		10.35	18.92	83.84	86.68	26-Apr-19 22:00:00		12.63	18.92	83.84	88.92
26-Apr-19 23:00:00	27-Apr-19 00:00:00		4.34	0.00	0.00	6.99	2.1	329.7		1.43	0.00	0.00	2.30		10.35	18.92	83.84	86.68	26-Apr-19 23:00:00		11.78	18.92	83.84	88.98
27-Apr-19 00:00:00	27-Apr-19 01:00:00		16.60	0.00	0.00	7.15	2.1	329.7		5.47	0.00	0.00	2.36		10.35	18.92	83.84	86.68	27-Apr-19 00:00:00		15.82	18.92	83.84	89.04
27-Apr-19 01:00:00	27-Apr-19 02:00:00		26.61	0.00	0.00	7.19	2.1	329.7		8.77	0.00	0.00	2.37		10.35	18.92	83.84	86.68	27-Apr-19 01:00:00		19.12	18.92	83.84	89.05
27-Apr-19 02:00:00	27-Apr-19 03:00:00		28.51	0.00	0.00	7.31	2.1	329.7		9.40	0.00	0.00	2.41		10.35	18.92	83.84	86.68	27-Apr-19 02:00:00		19.75	18.92	83.84	89.09
27-Apr-19 03:00:00	27-Apr-19 04:00:00		0.91	0.00	0.00	7.43	2.1	329.7		0.30	0.00	0.00	2.45		10.35	18.92	83.84	86.68	27-Apr-19 03:00:00		10.65	18.92	83.84	89.13
27-Apr-19 04:00:00	27-Apr-19 05:00:00		0.64	0.00	0.00	7.54	2.1	329.7		0.21	0.00	0.00	2.49		10.35	18.92	83.84	86.68	27-Apr-19 04:00:00		10.56	18.92	83.84	89.17
27-Apr-19 05:00:00	27-Apr-19 06:00:00		0.36	0.00	0.00	7.37	2.1	329.7		0.12	0.00	0.00	2.43		10.35	18.92	83.84	86.68	27-Apr-19 05:00:00		10.47	18.92	83.84	89.11
27-Apr-19 06:00:00	27-Apr-19 07:00:00		0.09	0.00	0.00	14.58	2.1	329.7		0.03	0.00	0.00	4.81		10.35	18.92	83.84	86.68	27-Apr-19 06:00:00		10.38	18.92	83.84	91.49
27-Apr-19 07:00:00	27-Apr-19 08:00:00		1.02	0.00	0.00	7.19	2.1	329.7		0.34	0.00	0.00	2.37		10.35	18.92	83.84	86.68	27-Apr-19 07:00:00		10.69	18.92	83.84	89.05
27-Apr-19 08:00:00	27-Apr-19 09:00:00		5.71	0.00	0.00	6.98	2.1	329.7		1.88	0.00	0.00	2.30		10.35	18.92	83.84	86.68	27-Apr-19 08:00:00		12.23	18.92	83.84	88.98
27-Apr-19 09:00:00	27-Apr-19 10:00:00		11.52	0.00	0.00	6.78	2.1	329.7		3.80	0.00	0.00	2.23		10.35	18.92	83.84	86.68	27-Apr-19 09:00:00		14.15	18.92	83.84	88.91
27-Apr-19 10:00:00	27-Apr-19 11:00:00		23.01	0.00	0.00	6.57	2.1	329.7		7.59	0.00	0.00	2.16		10.35	18.92	83.84	86.68	27-Apr-19 10:00:00		17.94	18.92	83.84	88.84
27-Apr-19 11:00:00	27-Apr-19 12:00:00		15.55	0.00	0.00	6.35	2.1	329.7		5.13	0.00	0.00	2.09		10.35	18.92	83.84	86.68	27-Apr-19 11:00:00		15.48	18.92	83.84	88.77
27-Apr-19 12:00:00	27-Apr-19 13:00:00		9.01	0.00	0.00	6.13	2.1	329.7		2.97	0.00	0.00	2.02		10.35	18.92	83.84	86.68	27-Apr-19 12:00:00		13.32	18.92	83.84	88.70
27-Apr-19 13:00:00	27-Apr-19 14:00:00		10.69	0.00	0.00	116.04	2.1	329.7		3.52	0.00	0.00	38.26		10.35	18.92	83.84	86.68	27-Apr-19 13:00:00		13.87	18.92	83.84	124.94
27-Apr-19 14:00:00	27-Apr-19 15:00:00		11.30	0.00	0.00	6.06	2.1	329.7		3.73	0.00	0.00	2.00		10.35	18.92	83.84	86.68	27-Apr-19 14:00:00		14.08	18.92	83.84	88.68
27-Apr-19 15:00:00	27-Apr-19 16:00:00		16.95	0.00	0.00	5.98	2.1	329.7		5.59	0.00	0.00	1.97		10.35	18.92	83.84	86.68	27-Apr-19 15:00:00		15.94	18.92	83.84	88.65
27-Apr-19 16:00:00	27-Apr-19 17:00:00		8.77	0.00	0.00	5.90	2.1	329.7		2.89	0.00	0.00	1.95		10.35	18.92	83.84	86.68	27-Apr-19 16:00:00		13.24	18.92	83.84	88.63
27-Apr-19 17:00:00	27-Apr-19 18:00:00		5.56	0.00	0.00	5.76	2.1	329.7		1.83	0.00	0.00	1.90		10.35	18.92	83.84	86.68	27-Apr-19 17:00:00		12.18	18.92	83.84	88.58
27-Apr-19 18:00:00	27-Apr-19 19:00:00		10.47	0.00	0.00	5.83	2.1	329.7		3.45	0.00	0.00	1.92		10.35	18.92	83.84	86.68	27-Apr-19 18:00:00		13.80	18.92	83.84	88.60
27-Apr-19 19:00:00	27-Apr-19 20:00:00		9.52	0.00	0.00	5.91	2.1	329.7		3.14	0.00	0.00	1.95		10.35	18.92	83.84	86.68	27-Apr-19 19:00:00		13.49	18.92	83.84	88.63
27-Apr-19 20:00:00	27-Apr-19 21:00:00		8.81	0.00	0.00	5.99	2.1	329.7		2.91	0.00	0.00	1.97		10.35	18.92	83.84	86.68	27-Apr-19 20:00:00		13.26	18.92	83.84	88.65
27-Apr-19 21:00:00	27-Apr-19 22:00:00		7.80	0.00	0.00	5.92	2.1	329.7		2.57	0.00	0.00	1.95		10.35	18.92	83.84	86.68	27-Apr-19 21:00:00		12.92	18.92	83.84	88.63
27-Apr-19 22:00:00	27-Apr-19 23:00:00		9.36	0.00	0.00	6.12	2.1	329.7		3.09	0.00	0.00	2.02		10.35	18.92	83.84	86.68	27-Apr-19 22:00:00		13.44	18.92	83.84	88.70
27-Apr-19 23:00:00	28-Apr-19 00:00:00		5.36	0.00	0.00	6.35	2.1	329.7		1.77	0.00	0.00	2.09		10.35	18.92	83.84	86.68	27-Apr-19 23:00:00		12.12	18.92	83.84	88.77
28-Apr-19 00:00:00	28-Apr-19 01:00:00		0.00	0.00	0.00	6.58	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	28-Apr-19 00:00:00		10.35	18.92	83.84	88.85
28-Apr-19 01:00:00	28-Apr-19 02:00:00		3.00	0.00	0.00	6.77	2.1	329.7		0.99	0.00	0.00	2.23		10.35	18.92	83.84	86.68	28-Apr-19 01:00:00		11.34	18.92	83.84	88.91
28-Apr-19 02:00:00	28-Apr-19 03:00:00		0.52	0.00	0.00	6.74	2.1	329.7		0.17	0.00	0.00	2.22		10.35	18.92	83.84	86.68	28-Apr-19 02:00:00		10.52	18.92	83.84	88.90
28-Apr-19 03:00:00	28-Apr-19 04:00:00		1.54	0.00	0.00	6.69

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
30-Apr-19 05:00:00	30-Apr-19 06:00:00		6.87	0.00	0.00	6.88	2.1	329.7		2.27	0.00	0.00	2.27		10.35	18.92	83.84	86.68	30-Apr-19 05:00:00		12.62	18.92	83.84	88.95
30-Apr-19 06:00:00	30-Apr-19 07:00:00		6.50	0.00	0.00	6.82	2.1	329.7		2.14	0.00	0.00	2.25		10.35	18.92	83.84	86.68	30-Apr-19 06:00:00		12.49	18.92	83.84	88.93
30-Apr-19 07:00:00	30-Apr-19 08:00:00		0.00	0.00	0.00	6.75	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	30-Apr-19 07:00:00		10.35	18.92	83.84	88.91
30-Apr-19 08:00:00	30-Apr-19 09:00:00		0.00	0.00	0.00	6.68	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	30-Apr-19 08:00:00		10.35	18.92	83.84	88.88
30-Apr-19 09:00:00	30-Apr-19 10:00:00		0.00	0.00	0.00	6.54	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	30-Apr-19 09:00:00		10.35	18.92	83.84	88.84
30-Apr-19 10:00:00	30-Apr-19 11:00:00		0.77	0.00	0.00	6.31	2.1	329.7		0.25	0.00	0.00	2.08		10.35	18.92	83.84	86.68	30-Apr-19 10:00:00		10.60	18.92	83.84	88.76
30-Apr-19 11:00:00	30-Apr-19 12:00:00		7.15	0.00	0.00	6.12	2.1	329.7		2.36	0.00	0.00	2.02		10.35	18.92	83.84	86.68	30-Apr-19 11:00:00		12.71	18.92	83.84	88.70
30-Apr-19 12:00:00	30-Apr-19 13:00:00		8.47	0.00	0.00	5.92	2.1	329.7		2.79	0.00	0.00	1.95		10.35	18.92	83.84	86.68	30-Apr-19 12:00:00		13.14	18.92	83.84	88.63
30-Apr-19 13:00:00	30-Apr-19 14:00:00		16.40	0.00	0.00	5.69	2.1	329.7		5.41	0.00	0.00	1.88		10.35	18.92	83.84	86.68	30-Apr-19 13:00:00		15.76	18.92	83.84	88.56
30-Apr-19 14:00:00	30-Apr-19 15:00:00		10.05	0.00	0.00	5.58	2.1	329.7		3.31	0.00	0.00	1.84		10.35	18.92	83.84	86.68	30-Apr-19 14:00:00		13.66	18.92	83.84	88.52
30-Apr-19 15:00:00	30-Apr-19 16:00:00		2.53	0.00	0.00	5.53	2.1	329.7		0.84	0.00	0.00	1.82		10.35	18.92	83.84	86.68	30-Apr-19 15:00:00		11.19	18.92	83.84	88.50
30-Apr-19 16:00:00	30-Apr-19 17:00:00		0.86	0.00	0.00	5.48	2.1	329.7		0.28	0.00	0.00	1.81		10.35	18.92	83.84	86.68	30-Apr-19 16:00:00		10.63	18.92	83.84	88.49
30-Apr-19 17:00:00	30-Apr-19 18:00:00		0.54	0.00	0.00	5.42	2.1	329.7		0.18	0.00	0.00	1.79		10.35	18.92	83.84	86.68	30-Apr-19 17:00:00		10.53	18.92	83.84	88.47
30-Apr-19 18:00:00	30-Apr-19 19:00:00		0.23	0.00	0.00	5.57	2.1	329.7		0.08	0.00	0.00	1.84		10.35	18.92	83.84	86.68	30-Apr-19 18:00:00		10.43	18.92	83.84	88.52
30-Apr-19 19:00:00	30-Apr-19 20:00:00		0.01	0.00	0.00	5.80	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	30-Apr-19 19:00:00		10.35	18.92	83.84	88.59
30-Apr-19 20:00:00	30-Apr-19 21:00:00		0.00	0.00	0.00	6.04	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	30-Apr-19 20:00:00		10.35	18.92	83.84	88.67
30-Apr-19 21:00:00	30-Apr-19 22:00:00		0.00	0.00	0.00	6.10	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	30-Apr-19 21:00:00		10.35	18.92	83.84	88.69
30-Apr-19 22:00:00	30-Apr-19 23:00:00		0.00	0.00	0.00	6.09	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	30-Apr-19 22:00:00		10.35	18.92	83.84	88.69
30-Apr-19 23:00:00	01-May-19 00:00:00		4.25	0.00	0.00	6.23	2.1	329.7		1.40	0.00	0.00	2.05		10.35	18.92	83.84	86.68	30-Apr-19 23:00:00		11.75	18.92	83.84	88.73
01-May-19 00:00:00	01-May-19 01:00:00		7.07	0.00	0.00	6.36	2.1	329.7		2.33	0.00	0.00	2.10		10.35	18.92	83.84	86.68	01-May-19 00:00:00		12.68	18.92	83.84	88.78
01-May-19 01:00:00	01-May-19 02:00:00		15.97	0.00	0.00	6.46	2.1	329.7		5.27	0.00	0.00	2.13		10.35	18.92	83.84	86.68	01-May-19 01:00:00		15.62	18.92	83.84	88.81
01-May-19 02:00:00	01-May-19 03:00:00		10.34	0.00	0.00	6.55	2.1	329.7		3.41	0.00	0.00	2.16		10.35	18.92	83.84	86.68	01-May-19 02:00:00		13.76	18.92	83.84	88.84
01-May-19 03:00:00	01-May-19 04:00:00		21.77	0.00	0.00	6.67	2.1	329.7		7.18	0.00	0.00	2.20		10.35	18.92	83.84	86.68	01-May-19 03:00:00		17.53	18.92	83.84	88.88
01-May-19 04:00:00	01-May-19 05:00:00		8.99	0.00	0.00	6.80	2.1	329.7		2.96	0.00	0.00	2.24		10.35	18.92	83.84	86.68	01-May-19 04:00:00		13.31	18.92	83.84	88.92
01-May-19 05:00:00	01-May-19 06:00:00		3.08	0.00	0.00	6.91	2.1	329.7		1.02	0.00	0.00	2.28		10.35	18.92	83.84	86.68	01-May-19 05:00:00		11.37	18.92	83.84	88.96
01-May-19 06:00:00	01-May-19 07:00:00		4.25	0.00	0.00	6.92	2.1	329.7		1.40	0.00	0.00	2.28		10.35	18.92	83.84	86.68	01-May-19 06:00:00		11.75	18.92	83.84	88.96
01-May-19 07:00:00	01-May-19 08:00:00		2.30	0.00	0.00	6.90	2.1	329.7		0.76	0.00	0.00	2.27		10.35	18.92	83.84	86.68	01-May-19 07:00:00		11.11	18.92	83.84	88.95
01-May-19 08:00:00	01-May-19 09:00:00		1.64	0.00	0.00	6.88	2.1	329.7		0.54	0.00	0.00	2.27		10.35	18.92	83.84	86.68	01-May-19 08:00:00		10.89	18.92	83.84	88.95
01-May-19 09:00:00	01-May-19 10:00:00		0.99	0.00	0.00	6.83	2.1	329.7		0.33	0.00	0.00	2.25		10.35	18.92	83.84	86.68	01-May-19 09:00:00		10.68	18.92	83.84	88.93
01-May-19 10:00:00	01-May-19 11:00:00		0.33	0.00	0.00	6.64	2.1	329.7		0.11	0.00	0.00	2.19		10.35	18.92	83.84	86.68	01-May-19 10:00:00		10.46	18.92	83.84	88.87
01-May-19 11:00:00	01-May-19 12:00:00		0.84	0.00	0.00	6.43	2.1	329.7		0.28	0.00	0.00	2.12		10.35	18.92	83.84	86.68	01-May-19 11:00:00		10.63	18.92	83.84	88.80
01-May-19 12:00:00	01-May-19 13:00:00		3.91	0.00	0.00	6.21	2.1	329.7		1.29	0.00	0.00	2.05		10.35	18.92	83.84	86.68	01-May-19 12:00:00		11.64	18.92	83.84	88.73
01-May-19 13:00:00	01-May-19 14:00:00		19.48	0.00	0.00	5.96	2.1	329.7		6.42	0.00	0.00	1.97		10.35	18.92	83.84	86.68	01-May-19 13:00:00		16.77	18.92	83.84	88.65
01-May-19 14:00:00	01-May-19 15:00:00		4.95	0.00	0.00	5.85	2.1	329.7		1.63	0.00	0.00	1.93		10.35	18.92	83.84	86.68	01-May-19 14:00:00		11.98	18.92	83.84	88.61
01-May-19 15:00:00	01-May-19 16:00:00		5.19	0.00	0.00	5.82	2.1	329.7		1.71	0.00	0.00	1.92		10.35	18.92	83.84	86.68	01-May-19 15:00:00		12.06	18.92	83.84	88.60
01-May-19 16:00:00	01-May-19 17:00:00		5.08	0.00	0.00	5.80	2.1	329.7		1.68	0.00	0.00	1.91		10.35	18.92	83.84	86.68	01-May-19 16:00:00		12.03	18.92	83.84	88.59
01-May-19 17:00:00	01-May-19 18:00:00		13.57	0.00	0.00	5.75	2.1	329.7		4.47	0.00	0.00	1.90		10.35	18.92	83.84	86.68	01-May-19 17:00:00		14.82	18.92	83.84	88.58
01-May-19 18:00:00	01-May-19 19:00:00		33.21	0.00	0.00	5.83	2.1	329.7		10.95	0.00	0.00	1.92		10.35	18.92	83.84	86.68	01-May-19 18:00:00		21.30	18.92	83.84	88.60
01-May-19 19:00:00	01-May-19 20:00:00		32.91	0.00	0.00	5.99	2.1	329.7		10.85	0.00	0.00	1.97		10.35	18.92	83.84	86.68	01-May-19 19:00:00		21.20	18.92	83.84	88.65
01-May-19 20:00:00	01-May-19 21:00:00		34.90	0.00	0.00	6.15	2.1	329.7		11.51	0.00	0.00	2.03		10.35	18.92	83.84	86.68	01-May-19 20:00:00		21.86	18.92	83.84	88.71
01-May-19 21:00:00	01-May-19 22:00:00		27.14	0.00	0.00	6.31	2.1	329.7		8.95	0.00	0.00	2.08		10.35	18.92	83.84	86.68	01-May-19 21:00:00		19.30	18.92	83.84	88.76
01-May-19 22:00:00	01-May-19 23:00:00		7.13	0.00	0.00	6.47	2.1	329.7		2.35	0.00	0.00	2.13		10.35	18.92	83.84	86.68	01-May-19 22:00:00		12.70	18.92	83.84	88.81
01-May-19 23:00:00	02-May-19 00:00:00		0.00	0.00	0.00	6.61	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	01-May-19 23:00:00		10.35	18.92	83.84	88.86
02-May-19 00:00:00	02-May-19 01:00:00		9.69	0.00	0.00	6.75	2.1	329.7		3.20	0.00	0.00	2.23		10.35	18.92	83.84	86.68	02-May-19 00:00:00		13.55	18.92	83.84	88.91
02-May-19 01:00:00	02-May-19 02:00:00		20.01	0.00	0.00	6.84	2.1	329.7		6.60	0.00	0.00	2.25		10.35	18.92	83.84	86.68	02-May-19 01:00:00		16.95	18.92	83.84	88.93
02-May-19 02:00:00	02-May-19 03:00:00		15.93	0.00	0.00	6.83	2.1	329.7		5.25	0.00	0.00	2.25		10.35	18.92	83.84	86.68	02-May-19 02:00:00		15.60	18.92	83.84	88.93
02-May-19 03:00:00	02-May-19 04:00:00		22.43	0.00	0.00	6.87	2.1	329.7		7.40	0.00	0.00	2.27		10.35	18.92	83.84	86.68	02-May-19 03:00:00		17.75	18.92	83.84	88.95
02-May-19 04:00:00	02-May-19 05:00:00		6.49	0.00	0.00	6.92	2.1	329.7		2.14	0.00	0.00	2.28		10.35	18.92	83.84	86.68	02-May-19 04:00:00		12.49	18.92	83.84	88.96
02-May-19 05:00:00	02-May-19 06:00:00		9.07	0.00	0.00	6.97	2.1	329.7		2.99	0.00	0.00	2.30		10.35	18.92	83.84	86.68	02-May-19 05:00:00		13.34	18.92	83.84	88.98
02-May-19 06:00:00	02-May-19 07:00:00		11.28	0.00	0.00	7.15	2.1	329.7		3.72	0.00	0.00	2.36		10.35	18.92	83.84	86.68	02-May-19 06:00:00		14.07	18.92	83.84	89.04
02-May-19 07:00:00	02-May-19 08:00:00		10.57	0.00	0.00	7.35	2.1	329.7		3.48	0.00	0.00	2.42		10.35	18.92	83.84	86.68	02-May-19 07:00:00		13.83	18.92	83.84	89.10
02-May-19 08:00:00	02-May-19 09:00:00		9.86	0.00	0.00	17.95	2.1	329.7		3.25	0.00	0.00	5.92		10.35	18.92	83.84	86.68	02-May-19 08:00:00		13.60	18.92	83.84	92.60
02-May-19 09:00:00	02-May-19 10:00:00		9.50	10.63	0.00	6.98	2.1	329.7		3.13	3.50	0.00	2.30		10.35	18.92	83.84	86.68	02-May-19 09:00:00		13.48	22.42	83.84	88.98
02-May-19 10:00:00	02-May-19 11:00:00		8.97	0.00	0.00	6.68	2.1	329.7		2.96	0.00	0.00	2.20		10.35	18.92	83.84	86.68	02-May-19 10:00:00		13.31	18.92	83.84	88.88
02-May-19 11:00:00	02-May-19 12:00:00		7.57	0.00	0.00	6.38	2.1	329.7		2.49	0.00	0.00	2.10		10.35	18.92	83.84	86.68	02-May-19 11:00:00		12.84	18.92	83.84	88.78
02-May-19 12:00:00	02-May-19 13:00:00		6.64	0.00	0.00	6.19	2.1	329.7		2.19	0.00	0.00	2.04		10.35	18.92	83.84	86.68	02-May-19 12:00:00		12.54	18.92	83.84	88.72
02-May-19 13:00:00	02-May-19 14:00:00		25.08	0.00	0.00	6.08	2.1	329.7		8.27	0.00	0.00	2.00		10.35	18.92	83.84	86.68	02-May-19 13:00:00		18.62	18.92	83.84	88.68
02-May-19 14:00:00	02-May-19 15:00:00		19.66	0.00	0.00	5.97	2.1	329.7		6.48	0.00	0.00	1.97		10.35	18.92	83.84	86.68	02-May-19 14:00:00		16.83	18.92	83.84	88.65
02-May-19 15:00:00	02-May-19 16:00:00		3.92	0.00	0.00	5.86	2.1	329.7		1.29	0.00	0.00	1.93		10.35	18.92	83.84	86.68	02-May-19 15:00:00		11.64	18.92	83.84	88.61
02-May-19 16:00:00	02-May-19 17:00:00		2.36	0.00	0.00	5.77	2.1	329.7		0.78	0.00	0.00	1.90		10.35	18.92	83.84	86.68	02-May-19 16:00:00		11.13	18.92	83.84	88.58
02-May-19 17:00:00	02-May-19 18:00:00		23.22	0.00	0.00	5.78	2.1	329.7		7.66	0.00	0.00	1.91		10.35	18.92	83.84	86.68	02-May-19 17:00:00		18.01	18.92	83.84	88.59
02-May-19 18:00:00	02-May-19 19:00:00		21.68	0.00	0.00	5.80	2.1	329.7		7.15	0.00	0.00	1.91		10.35	18.92	83.84	86.68	02-May-19 18:00:00		17.50	18.92	83.84	88.59
02-May-19 19:00:00	02-May-19 20:00:00		15.06	0.00	0.00	5.82	2.1	329.7		4.97	0.00	0.00	1.92		10.35	18.92	83.84	86.68	02-May-19 19:00:00		15.32	18.92	83.84	88.60
02-May-19 20:00:00	02-May-19 21:00:00		14.00	0.00	0.00	5.97	2.1	329.7		4.62	0.00	0.00	1.97		10.35	18.92	83.84	86.68	02-May-19 20:00:00		14.97	18.92	83.84	88.65
02-May-19 21:00:00	02-May-19 22:00:00		15.31	0.00	0.00	6.21	2.1	329.7		5.05	0.00	0.00	2.05		10.35	18.92	83.84	86.68	02-May-19 21:00:00		15.40	18.92	83.84	88.73
02-May-19 22:00:00	02-May-19 23:00:00		8.56	0.00	0.00	6.44	2.1	329.7		2.82	0.00	0.00	2.12		10.35	18.92	83.84	86.68	02-May-19 22:00:00		13.17	18.92	83.84	88.80
02-May-19 23:00:00	03-May-19 00:00:00		11.93	0.00	0.00	6.68	2.1	329.7		3.93	0.00	0.00	2.20		10.35	18.92	83.84	86.68	02-May-19 23:00:00		14.28	18.92	83.84	88.88
03-May-19 00:00:00	03-May-19 01:00:00		20.64	0.00	0.00	6.87	2.1	329.7		6.81	0.00	0.00	2.27		10.35	18.92	83.84	86.68	03-May-19 00:00:00		17.16	18.92	83.84	88.95
03-May-19 01:00:00	03-May-19 02:00:00		31.14	0.00	0.00	7.00	2.1	329.7		10.27	0.00	0.00	2.31		10.35	18.92	83.84	86.68	03-May-19 01:00:00		20.62	18.92	83.84	88.99
03-May-19 02:00:00	03-May-19 03:00:00		25.42	0.00	0.00	7.13	2.1	329.7		8.38	0.00	0.00	2.35		10.35	18.92	83.84	86.68	03-May-19 02:00:00		18.73	18.92	83.84	89.03
03-May-19 03:00:00	03-May-19 04:00:00		13.79	0.00	0.00	7.26	2.1	329.7		4.55	0.00	0.00	2.39		10.35	18.92	83.84	86.68	03-May-19 03:00:00		14.90	18.92	83.84	89.07
03-May-19 04:00:00	03-May-19 05:00:00		3.08	0.00	0.00	7.26	2.1	329.7		1.01	0.00	0.00	2.39		10.35	18.92	83.84	86.68	03-May-19 04:00:00		11.36	18.92	83.84	89.07
03-May-19 05:00:00	03-May-19 06:00:00		0.00	0.00	0.00	7.16	2.1	329.7		0.00	0.00	0.00	2.36		10.35	18.92	83.84	86.68	03-May-19 05:00:00		10.35	18.92	83.84	89.04
03-May-19 06:00:00	03-May-19 07:00:00		0.00	0.00	0.00	7.07	2.1	329.7		0.00	0.00	0.00	2.33		10.35	18.92	83.84	86.68	03-May-19 06:00:00		10.35	18.92	83.84	89.01
03-May-19 07:00:00	03-May-19 08:00:00		0.00	0.00	0.00	6.97	2.1	329.7		0.00	0.00	0.00	2.30		10.35	18.92	83.84	86.68	03-May-19 07:00:00		10.35	18.92	83.84	88.98
03-May-19 08:00:00	03-May-19 09:00:00		0.07	0.00	0.00	6.86	2.1	329.7		0.02	0.00	0.00	2.26		10.35	18.92	83.84	86.68	03-May-19 08:00:00		10.37	18.92	83.84	88.94
03-May-19 09:00:00	03-May-19 10:00:00		0.46	0.00	0.00	6.73	2.1	329.7		0.15	0.00	0.00	2.22		10.35	18.92	83.84	86.68	03-May-19 09:00:00		10.50	18.92	83.84	88.90
03-May-19 10:00:00	03-May-19 11:00:00		0.91	0.00	0.00	6.60	2.1	329.7		0.30	0.00	0.00	2.18		10.35	18.92	83.84	86.68	03-May-19 10:00:00		10.65	18.92	83.84	88.86
03-May-19 11:00:00	03-May-19 12:00:00		1.35	0.00	0.00	6.47	2.1	329.7		0.44	0.00	0.00	2.13		10.35	18.92	83.84	86.68	03-May-19 11:00:00		10.79	18.92	83.84	88.81
03-May-19 12:00:00	03-May-19 13:00:00		2.33	0.00	0.00	6.28	2.1	329.7		0.77	0.00	0.00	2.07		10.35	18.92	83.84	86.68	03-May-19 12:00:00		11.12	18.92	83.84	88.75
03-May-19 13:00:00	03-May-19 14:00:00		2.46	0.00	0.00	6.19	2.1	329.7		0.81	0.00	0.00	2.04		10.35	18.92	83.84	86.68	03-May-19 13:00:00		11.16	18.92	83.84	88.72
03-May-19 14:00:00	03-May-19 15:00:00		18.91	0.00	0.00	6.11	2.1	329.7		6.24	0.00	0.00	2.02		10.35	18.92	83.84	86.68	03-May-19 14:00:00		16.59	18.92	83.84	88.70
03-May-19 15:00:00	03-May-19 16:00:00		8.78	0.00	0.00	6.04	2.1	329.7		2.89	0.00	0.00	1.99		10.35	18.92	83.84	86.68	03-May-19 15:00:00		13.24	18.92	83.84	88.67
03-May-19 16:00:00	03-May-19 17:00:00		19.60	0.00	0.00	5.95	2.1	329.7		6.46	0.00	0.00	1.96		10.35	18.92	83.84	86.68	03-May-19 16:00:00		16.81	18.92	83.84	88.64
03-May-19 17:00:00	03-May-19 18:00:00		11.65	0.00	0.00	6.02	2.1	329.7		3.84	0.00	0.00	1.98		10.35	18.92	83.84	86.68	03-May-19 17:00:00		14.19	18.92	83.84	88.66
03-May-19 18:00:00	03-May-19 19:00:00		6.23	0.00	0.00	6.11	2.1	329.7		2.05	0.00	0.00	2.01		10.35	18.92	83.84	86.68	03-May-19 18:00:00		12.40	18.92	83.84	88.69
03-May-19 19:00:00	03-May-19 20:00:00		6.86	0.00	0.00	6.19	2.1	329.7		2.26	0.00	0.00	2.04		10.35	18.92	83.84	86.68	03-May-19 19:00:00		12.61	18.92	83.84	88.72
03-May-19 20:00:00	03-May-19 21:00:00		7.49	0.00	0.00	6.31	2.1	329.7		2.47	0.00	0.00	2.08		10.35	18.92	83.84	86.68	03-May-19 20:00:00		12.82	18.92	83.84	88.76
03-May-19 21:00:00	03-May-19 22:00:00		8.07	0.00	0.00	6.46	2.1	329.7		2.66	0.00	0.00	2.13		10.35	18.92	83.84	86.68	03-May-19 21:00:00		13.01	18.92	83.84	88.81
03-May-19 22:00:00	03-May-19 23:00:00		9.35	0.00	0.00	6.61	2.1	329.7		3.08	0.00	0.00	2.18		10.35	18.92	83.84	86.68	03-May-19 22:00:00		13.43	18.92	83.84	88.86
03-May-19 23:00:00	04-May-19 00:00:00		15.19	0.00	0.00	6.76	2.1	329.7		5.01	0.00	0.00	2.23		10.35	18.92	83.84	86.68	03-May-19 23:00:00		15.36	18.92	83.84	88.91
04-May-19 00:00:00	04-May-19 01:00:00		6.81	0.00	0.00	6.91	2.1	329.7		2.24	0.00	0.00	2.28		10.35	18.92	83.84	86.68	04-May-19 00:00:00		12.59	18.92	83.84	88.96
04-May-19 01:00:00	04-May-19 02:00:00		14.79	0.00	0.00	6.95	2.1	329.7		4.88	0.00	0.00	2.29		10.35	18.92	83.84	86.68	04-May-19 01:00:00		15.23	18.92	83.84	88.97
04-May-19 02:00:00	04-May-19 03:00:00		11.26	0.00	0.00	6.98	2.1	329.7		3.71	0.00	0.00	2.30		10.35	18.92	83.84	86.68	04-May-19 02:00:00		14.06	18.92	83.84	88.98
04-May-19 03:00:00	04-May-19 04:00:00		4.44	0.00	0.00	7.01	2.1	329.7		1.47	0.00	0.00	2.31		10.35	18.92	83.84	86.68	04-May-19 03:00:00		11.82	18.92	83.84	88.99
04-May-19 04:00:00	04-May-19 05:00:00		3.99	0.00	0.00	6.95	2.1	329.7		1.32	0.00	0.00	2.29		10.35	18.92	83.84	86.68	04-May-19 04:00:00		11.67	18.92	83.84	88.97
04-May-19 05:00:00	04-May-19 06:00:00		3.65

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
06-May-19 04:00:00	06-May-19 05:00:00		14.61	0.00	0.00	7.38	2.1	329.7		4.82	0.00	0.00	2.43		10.35	18.92	83.84	86.68	06-May-19 04:00:00		15.17	18.92	83.84	89.11
06-May-19 05:00:00	06-May-19 06:00:00		16.87	0.00	0.00	7.43	2.1	329.7		5.56	0.00	0.00	2.45		10.35	18.92	83.84	86.68	06-May-19 05:00:00		15.91	18.92	83.84	89.13
06-May-19 06:00:00	06-May-19 07:00:00		12.15	0.00	0.00	7.47	2.1	329.7		4.01	0.00	0.00	2.46		10.35	18.92	83.84	86.68	06-May-19 06:00:00		14.36	18.92	83.84	89.14
06-May-19 07:00:00	06-May-19 08:00:00		27.77	0.00	0.00	7.50	2.1	329.7		9.15	0.00	0.00	2.47		10.35	18.92	83.84	86.68	06-May-19 07:00:00		19.50	18.92	83.84	89.15
06-May-19 08:00:00	06-May-19 09:00:00		20.92	0.00	0.00	7.33	2.1	329.7		6.90	0.00	0.00	2.42		10.35	18.92	83.84	86.68	06-May-19 08:00:00		17.25	18.92	83.84	89.10
06-May-19 09:00:00	06-May-19 10:00:00		20.46	0.00	0.00	7.12	2.1	329.7		6.74	0.00	0.00	2.35		10.35	18.92	83.84	86.68	06-May-19 09:00:00		17.09	18.92	83.84	89.03
06-May-19 10:00:00	06-May-19 11:00:00		19.38	0.00	0.00	6.91	2.1	329.7		6.39	0.00	0.00	2.28		10.35	18.92	83.84	86.68	06-May-19 10:00:00		16.74	18.92	83.84	88.96
06-May-19 11:00:00	06-May-19 12:00:00		17.22	0.00	0.00	6.77	2.1	329.7		5.68	0.00	0.00	2.23		10.35	18.92	83.84	86.68	06-May-19 11:00:00		16.03	18.92	83.84	88.91
06-May-19 12:00:00	06-May-19 13:00:00		12.25	0.00	0.00	6.64	2.1	329.7		4.04	0.00	0.00	2.19		10.35	18.92	83.84	86.68	06-May-19 12:00:00		14.39	18.92	83.84	88.87
06-May-19 13:00:00	06-May-19 14:00:00		39.14	0.00	0.00	6.51	2.1	329.7		12.90	0.00	0.00	2.15		10.35	18.92	83.84	86.68	06-May-19 13:00:00		23.25	18.92	83.84	88.83
06-May-19 14:00:00	06-May-19 15:00:00		9.31	0.00	0.00	6.37	2.1	329.7		3.07	0.00	0.00	2.10		10.35	18.92	83.84	86.68	06-May-19 14:00:00		13.42	18.92	83.84	88.78
06-May-19 15:00:00	06-May-19 16:00:00		14.00	0.00	0.00	6.27	2.1	329.7		4.62	0.00	0.00	2.07		10.35	18.92	83.84	86.68	06-May-19 15:00:00		14.97	18.92	83.84	88.75
06-May-19 16:00:00	06-May-19 17:00:00		5.23	0.00	0.00	6.20	2.1	329.7		1.73	0.00	0.00	2.05		10.35	18.92	83.84	86.68	06-May-19 16:00:00		12.08	18.92	83.84	88.73
06-May-19 17:00:00	06-May-19 18:00:00		15.80	0.00	0.00	6.14	2.1	329.7		5.21	0.00	0.00	2.02		10.35	18.92	83.84	86.68	06-May-19 17:00:00		15.56	18.92	83.84	88.70
06-May-19 18:00:00	06-May-19 19:00:00		14.33	0.00	0.00	6.07	2.1	329.7		4.72	0.00	0.00	2.00		10.35	18.92	83.84	86.68	06-May-19 18:00:00		15.07	18.92	83.84	88.68
06-May-19 19:00:00	06-May-19 20:00:00		13.88	0.00	0.00	6.05	2.1	329.7		4.58	0.00	0.00	2.00		10.35	18.92	83.84	86.68	06-May-19 19:00:00		14.93	18.92	83.84	88.68
06-May-19 20:00:00	06-May-19 21:00:00		14.92	0.00	0.00	6.26	2.1	329.7		4.92	0.00	0.00	2.07		10.35	18.92	83.84	86.68	06-May-19 20:00:00		15.27	18.92	83.84	88.75
06-May-19 21:00:00	06-May-19 22:00:00		17.43	0.00	0.00	6.50	2.1	329.7		5.75	0.00	0.00	2.14		10.35	18.92	83.84	86.68	06-May-19 21:00:00		16.10	18.92	83.84	88.82
06-May-19 22:00:00	06-May-19 23:00:00		6.69	0.00	0.00	6.73	2.1	329.7		2.20	0.00	0.00	2.22		10.35	18.92	83.84	86.68	06-May-19 22:00:00		12.55	18.92	83.84	88.90
06-May-19 23:00:00	07-May-19 00:00:00		9.91	0.00	0.00	6.99	2.1	329.7		3.27	0.00	0.00	2.31		10.35	18.92	83.84	86.68	06-May-19 23:00:00		13.62	18.92	83.84	88.99
07-May-19 00:00:00	07-May-19 01:00:00		8.52	0.00	0.00	7.14	2.1	329.7		2.81	0.00	0.00	2.35		10.35	18.92	83.84	86.68	07-May-19 00:00:00		13.16	18.92	83.84	89.03
07-May-19 01:00:00	07-May-19 02:00:00		12.83	0.00	0.00	7.25	2.1	329.7		4.23	0.00	0.00	2.39		10.35	18.92	83.84	86.68	07-May-19 01:00:00		14.58	18.92	83.84	89.07
07-May-19 02:00:00	07-May-19 03:00:00		17.15	0.00	0.00	7.35	2.1	329.7		5.65	0.00	0.00	2.42		10.35	18.92	83.84	86.68	07-May-19 02:00:00		16.00	18.92	83.84	89.10
07-May-19 03:00:00	07-May-19 04:00:00		18.12	0.00	0.00	7.49	2.1	329.7		5.97	0.00	0.00	2.47		10.35	18.92	83.84	86.68	07-May-19 03:00:00		16.32	18.92	83.84	89.15
07-May-19 04:00:00	07-May-19 05:00:00		16.40	0.00	0.00	7.51	2.1	329.7		5.41	0.00	0.00	2.48		10.35	18.92	83.84	86.68	07-May-19 04:00:00		15.76	18.92	83.84	89.16
07-May-19 05:00:00	07-May-19 06:00:00		18.09	0.00	0.00	7.50	2.1	329.7		5.96	0.00	0.00	2.47		10.35	18.92	83.84	86.68	07-May-19 05:00:00		16.31	18.92	83.84	89.15
07-May-19 06:00:00	07-May-19 07:00:00		16.36	0.00	0.00	7.49	2.1	329.7		5.39	0.00	0.00	2.47		10.35	18.92	83.84	86.68	07-May-19 06:00:00		15.74	18.92	83.84	89.15
07-May-19 07:00:00	07-May-19 08:00:00		10.67	0.00	0.00	7.45	2.1	329.7		3.52	0.00	0.00	2.46		10.35	18.92	83.84	86.68	07-May-19 07:00:00		13.87	18.92	83.84	89.14
07-May-19 08:00:00	07-May-19 09:00:00		0.70	0.00	0.00	7.32	2.1	329.7		0.23	0.00	0.00	2.41		10.35	18.92	83.84	86.68	07-May-19 08:00:00		10.58	18.92	83.84	89.09
07-May-19 09:00:00	07-May-19 10:00:00		0.00	0.00	0.00	7.18	2.1	329.7		0.00	0.00	0.00	2.37		10.35	18.92	83.84	86.68	07-May-19 09:00:00		10.35	18.92	83.84	89.05
07-May-19 10:00:00	07-May-19 11:00:00		0.00	0.00	0.00	7.03	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	07-May-19 10:00:00		10.35	18.92	83.84	89.00
07-May-19 11:00:00	07-May-19 12:00:00		3.10	0.00	0.00	6.96	2.1	329.7		1.02	0.00	0.00	2.29		10.35	18.92	83.84	86.68	07-May-19 11:00:00		11.37	18.92	83.84	88.97
07-May-19 12:00:00	07-May-19 13:00:00		15.35	0.00	0.00	6.82	2.1	329.7		5.06	0.00	0.00	2.25		10.35	18.92	83.84	86.68	07-May-19 12:00:00		15.41	18.92	83.84	88.93
07-May-19 13:00:00	07-May-19 14:00:00		9.09	0.00	0.00	6.64	2.1	329.7		3.00	0.00	0.00	2.19		10.35	18.92	83.84	86.68	07-May-19 13:00:00		13.35	18.92	83.84	88.87
07-May-19 14:00:00	07-May-19 15:00:00		11.46	0.00	0.00	6.45	2.1	329.7		3.78	0.00	0.00	2.13		10.35	18.92	83.84	86.68	07-May-19 14:00:00		14.13	18.92	83.84	88.81
07-May-19 15:00:00	07-May-19 16:00:00		2.51	0.00	0.00	6.27	2.1	329.7		0.83	0.00	0.00	2.07		10.35	18.92	83.84	86.68	07-May-19 15:00:00		11.18	18.92	83.84	88.75
07-May-19 16:00:00	07-May-19 17:00:00		0.00	0.00	0.00	6.26	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	07-May-19 16:00:00		10.35	18.92	83.84	88.75
07-May-19 17:00:00	07-May-19 18:00:00		0.00	0.00	0.00	6.31	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	07-May-19 17:00:00		10.35	18.92	83.84	88.76
07-May-19 18:00:00	07-May-19 19:00:00		0.00	0.00	0.00	6.35	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	07-May-19 18:00:00		10.35	18.92	83.84	88.77
07-May-19 19:00:00	07-May-19 20:00:00		0.00	0.00	0.00	6.46	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	07-May-19 19:00:00		10.35	18.92	83.84	88.81
07-May-19 20:00:00	07-May-19 21:00:00		0.00	0.00	0.00	6.60	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	07-May-19 20:00:00		10.35	18.92	83.84	88.85
07-May-19 21:00:00	07-May-19 22:00:00		0.00	0.00	0.00	6.71	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	07-May-19 21:00:00		10.35	18.92	83.84	88.89
07-May-19 22:00:00	07-May-19 23:00:00		0.00	0.00	0.00	6.82	2.1	329.7		0.00	0.00	0.00	2.25		10.35	18.92	83.84	86.68	07-May-19 22:00:00		10.35	18.92	83.84	88.93
07-May-19 23:00:00	08-May-19 00:00:00		0.00	0.00	0.00	7.05	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	07-May-19 23:00:00		10.35	18.92	83.84	89.00
08-May-19 00:00:00	08-May-19 01:00:00		0.00	0.00	0.00	7.19	2.1	329.7		0.00	0.00	0.00	2.37		10.35	18.92	83.84	86.68	08-May-19 00:00:00		10.35	18.92	83.84	89.05
08-May-19 01:00:00	08-May-19 02:00:00		6.91	0.00	0.00	7.25	2.1	329.7		2.28	0.00	0.00	2.39		10.35	18.92	83.84	86.68	08-May-19 01:00:00		12.63	18.92	83.84	89.07
08-May-19 02:00:00	08-May-19 03:00:00		24.12	0.00	0.00	7.31	2.1	329.7		7.95	0.00	0.00	2.41		10.35	18.92	83.84	86.68	08-May-19 02:00:00		18.30	18.92	83.84	89.09
08-May-19 03:00:00	08-May-19 04:00:00		17.38	0.00	0.00	7.27	2.1	329.7		5.73	0.00	0.00	2.40		10.35	18.92	83.84	86.68	08-May-19 03:00:00		16.08	18.92	83.84	89.08
08-May-19 04:00:00	08-May-19 05:00:00		13.86	0.00	0.00	7.29	2.1	329.7		4.57	0.00	0.00	2.40		10.35	18.92	83.84	86.68	08-May-19 04:00:00		14.92	18.92	83.84	89.08
08-May-19 05:00:00	08-May-19 06:00:00		17.24	0.00	0.00	7.37	2.1	329.7		5.68	0.00	0.00	2.43		10.35	18.92	83.84	86.68	08-May-19 05:00:00		16.03	18.92	83.84	89.11
08-May-19 06:00:00	08-May-19 07:00:00		22.17	0.00	0.00	7.45	2.1	329.7		7.31	0.00	0.00	2.46		10.35	18.92	83.84	86.68	08-May-19 06:00:00		17.66	18.92	83.84	89.14
08-May-19 07:00:00	08-May-19 08:00:00		11.83	0.00	0.00	7.51	2.1	329.7		3.90	0.00	0.00	2.48		10.35	18.92	83.84	86.68	08-May-19 07:00:00		14.25	18.92	83.84	89.16
08-May-19 08:00:00	08-May-19 09:00:00		6.18	0.00	0.00	209.52	2.1	329.7		2.04	0.00	0.00	69.08		10.35	18.92	83.84	86.68	08-May-19 08:00:00		12.39	18.92	83.84	155.76
08-May-19 09:00:00	08-May-19 10:00:00		3.73	0.00	0.00	371.80	2.1	329.7		1.23	0.00	0.00	122.58		10.35	18.92	83.84	86.68	08-May-19 09:00:00		11.58	18.92	83.84	209.26
08-May-19 10:00:00	08-May-19 11:00:00		3.19	0.00	0.00	349.16	2.1	329.7		1.05	0.00	0.00	115.12		10.35	18.92	83.84	86.68	08-May-19 10:00:00		11.40	18.92	83.84	201.80
08-May-19 11:00:00	08-May-19 12:00:00		6.70	0.00	0.00	376.50	2.1	329.7		2.21	0.00	0.00	124.13		10.35	18.92	83.84	86.68	08-May-19 11:00:00		12.56	18.92	83.84	210.81
08-May-19 12:00:00	08-May-19 13:00:00		10.68	0.00	0.00	365.42	2.1	329.7		3.52	0.00	0.00	120.48		10.35	18.92	83.84	86.68	08-May-19 12:00:00		13.87	18.92	83.84	207.16
08-May-19 13:00:00	08-May-19 14:00:00		5.89	0.00	0.00	357.77	2.1	329.7		1.94	0.00	0.00	117.96		10.35	18.92	83.84	86.68	08-May-19 13:00:00		12.29	18.92	83.84	204.64
08-May-19 14:00:00	08-May-19 15:00:00		3.72	0.00	0.00	328.43	2.1	329.7		1.23	0.00	0.00	108.28		10.35	18.92	83.84	86.68	08-May-19 14:00:00		11.58	18.92	83.84	194.96
08-May-19 15:00:00	08-May-19 16:00:00		7.42	0.00	0.00	336.38	2.1	329.7		2.45	0.00	0.00	110.90		10.35	18.92	83.84	86.68	08-May-19 15:00:00		12.80	18.92	83.84	197.58
08-May-19 16:00:00	08-May-19 17:00:00		26.71	0.00	0.00	332.17	2.1	329.7		8.81	0.00	0.00	109.52		10.35	18.92	83.84	86.68	08-May-19 16:00:00		19.16	18.92	83.84	196.20
08-May-19 17:00:00	08-May-19 18:00:00		28.11	0.00	0.00	400.77	2.1	329.7		9.27	0.00	0.00	132.13		10.35	18.92	83.84	86.68	08-May-19 17:00:00		19.62	18.92	83.84	218.81
08-May-19 18:00:00	08-May-19 19:00:00		19.33	0.00	0.00	367.38	2.1	329.7		6.37	0.00	0.00	121.12		10.35	18.92	83.84	86.68	08-May-19 18:00:00		16.72	18.92	83.84	207.80
08-May-19 19:00:00	08-May-19 20:00:00		17.50	0.00	0.00	218.24	2.1	329.7		5.77	0.00	0.00	71.96		10.35	18.92	83.84	86.68	08-May-19 19:00:00		16.12	18.92	83.84	158.64
08-May-19 20:00:00	08-May-19 21:00:00		18.65	0.00	0.00	1,106.54	2.1	329.7		6.15	0.00	0.00	364.83		10.35	18.92	83.84	86.68	08-May-19 20:00:00		16.50	18.92	83.84	451.51
08-May-19 21:00:00	08-May-19 22:00:00		15.34	0.00	0.00	1,104.89	2.1	329.7		5.06	0.00	0.00	364.28		10.35	18.92	83.84	86.68	08-May-19 21:00:00		15.41	18.92	83.84	450.96
08-May-19 22:00:00	08-May-19 23:00:00		17.96	0.00	0.00	1,102.53	2.1	329.7		5.92	0.00	0.00	363.50		10.35	18.92	83.84	86.68	08-May-19 22:00:00		16.27	18.92	83.84	450.18
08-May-19 23:00:00	09-May-19 00:00:00		21.19	0.00	0.00	1,102.07	2.1	329.7		6.99	0.00	0.00	363.35		10.35	18.92	83.84	86.68	08-May-19 23:00:00		17.34	18.92	83.84	450.03
09-May-19 00:00:00	09-May-19 01:00:00		14.71	0.00	0.00	1,100.62	2.1	329.7		4.85	0.00	0.00	362.87		10.35	18.92	83.84	86.68	09-May-19 00:00:00		15.20	18.92	83.84	449.55
09-May-19 01:00:00	09-May-19 02:00:00		9.95	0.00	0.00	1,102.20	2.1	329.7		3.28	0.00	0.00	363.39		10.35	18.92	83.84	86.68	09-May-19 01:00:00		13.63	18.92	83.84	450.07
09-May-19 02:00:00	09-May-19 03:00:00		10.04	0.00	0.00	1,101.85	2.1	329.7		3.31	0.00	0.00	363.28		10.35	18.92	83.84	86.68	09-May-19 02:00:00		13.66	18.92	83.84	449.96
09-May-19 03:00:00	09-May-19 04:00:00		5.33	0.00	0.00	1,102.71	2.1	329.7		1.76	0.00	0.00	363.56		10.35	18.92	83.84	86.68	09-May-19 03:00:00		12.11	18.92	83.84	450.24
09-May-19 04:00:00	09-May-19 05:00:00		24.02	0.00	0.00	1,098.26	2.1	329.7		7.92	0.00	0.00	362.10		10.35	18.92	83.84	86.68	09-May-19 04:00:00		18.27	18.92	83.84	448.78
09-May-19 05:00:00	09-May-19 06:00:00		16.27	0.00	0.00	1,097.34	2.1	329.7		5.37	0.00	0.00	361.79		10.35	18.92	83.84	86.68	09-May-19 05:00:00		15.72	18.92	83.84	448.47
09-May-19 06:00:00	09-May-19 07:00:00		14.39	0.00	0.00	580.01	2.1	329.7		4.74	0.00	0.00	191.23		10.35	18.92	83.84	86.68	09-May-19 06:00:00		15.09	18.92	83.84	277.91
09-May-19 07:00:00	09-May-19 08:00:00		4.01	0.00	0.00	7.26	2.1	329.7		1.32	0.00	0.00	2.39		10.35	18.92	83.84	86.68	09-May-19 07:00:00		11.67	18.92	83.84	89.07
09-May-19 08:00:00	09-May-19 09:00:00		0.13	0.00	0.00	7.26	2.1	329.7		0.04	0.00	0.00	2.39		10.35	18.92	83.84	86.68	09-May-19 08:00:00		10.39	18.92	83.84	89.07
09-May-19 09:00:00	09-May-19 10:00:00		0.31	0.00	0.00	7.26	2.1	329.7		0.10	0.00	0.00	2.39		10.35	18.92	83.84	86.68	09-May-19 09:00:00		10.45	18.92	83.84	89.07
09-May-19 10:00:00	09-May-19 11:00:00		0.57	0.00	0.00	7.29	2.1	329.7		0.19	0.00	0.00	2.40		10.35	18.92	83.84	86.68	09-May-19 10:00:00		10.54	18.92	83.84	89.08
09-May-19 11:00:00	09-May-19 12:00:00		18.08	0.00	0.00	7.21	2.1	329.7		5.96	0.00	0.00	2.38		10.35	18.92	83.84	86.68	09-May-19 11:00:00		16.31	18.92	83.84	89.06
09-May-19 12:00:00	09-May-19 13:00:00		5.96	0.00	0.00	7.08	2.1	329.7		1.97	0.00	0.00	2.33		10.35	18.92	83.84	86.68	09-May-19 12:00:00		12.32	18.92	83.84	89.01
09-May-19 13:00:00	09-May-19 14:00:00		7.03	0.00	0.00	6.95	2.1	329.7		2.32	0.00	0.00	2.29		10.35	18.92	83.84	86.68	09-May-19 13:00:00		12.67	18.92	83.84	88.97
09-May-19 14:00:00	09-May-19 15:00:00		15.15	0.00	0.00	6.86	2.1	329.7		5.00	0.00	0.00	2.26		10.35	18.92	83.84	86.68	09-May-19 14:00:00		15.35	18.92	83.84	88.94
09-May-19 15:00:00	09-May-19 16:00:00		4.84	0.00	0.00	7.02	2.1	329.7		1.60	0.00	0.00	2.31		10.35	18.92	83.84	86.68	09-May-19 15:00:00		11.95	18.92	83.84	88.99
09-May-19 16:00:00	09-May-19 17:00:00		4.97	0.00	0.00	7.19	2.1	329.7		1.64	0.00	0.00	2.37		10.35	18.92	83.84	86.68	09-May-19 16:00:00		11.99	18.92	83.84	89.05
09-May-19 17:00:00	09-May-19 18:00:00		5.11	0.00	0.00	7.37	2.1	329.7		1.68	0.00	0.00	2.43		10.35	18.92	83.84	86.68	09-May-19 17:00:00		12.03	18.92	83.84	89.11
09-May-19 18:00:00	09-May-19 19:00:00		5.27	0.00	0.00	7.66	2.1	329.7		1.74	0.00	0.00	2.52		10.35	18.92	83.84	86.68	09-May-19 18:00:00		12.09	18.92	83.84	89.20
09-May-19 19:00:00	09-May-19 20:00:00		5.86	0.00	0.00	7.78	2.1	329.7		1.93	0.00	0.00	2.56		10.35	18.92	83.84	86.68	09-May-19 19:00:00		12.28	18.92	83.84	89.24
09-May-19 20:00:00	09-May-19 21:00:00		6.60	0.00	0.00	7.68	2.1	329.7		2.18	0.00	0.00	2.53		10.35	18.92	83.84	86.68	09-May-19 20:00:00		12.53	18.92	83.84	89.21
09-May-19 21:00:00	09-May-19 22:00:00		7.35	0.00	0.00	7.59	2.1	329.7		2.42	0.00	0.00	2.50		10.35	18.92	83.84	86.68	09-May-19 21:00:00		12.77	18.92	83.84	89.18
09-May-19 22:00:00	09-May-19 23:00:00		15.48	0.00	0.00	7.51	2.1	329.7		5.11	0.00	0.00	2.48		10.35	18.92	83.84	86.68	09-May-19 22:00:00		15.46	18.92	83.84	89.16
09-May-19 23:00:00	10-May-19 00:00:00		21.08	0.00	0.00	7.53	2.1	329.7		6.95	0.00	0.00	2.48		10.35	18.92	83.84	86.68	09-May-19 23:00:00		17.30	18.92	83.84	89.16
10-May-19 00:00:00	10-May-19 01:00:00		27.50	0.00	0.00	7.54	2.1	329.7		9.07	0.00	0.00	2.48		10.35	18.92	83.84	86.68	10-May-19 00:00:00		19.42	18.92	83.84	89.16
10-May-19 01:00:00	10-May-19 02:00:00		19.15	0.00	0.00	7.55	2.1	329.7		6.32	0.00	0.00	2.49		10.35	18.92	83.84	86.68	10-May-19 01:00:00		16.67	18.92	83.84	89.17
10-May-19 02:00:00	10-May-19 03:00:00		8.35	0.00	0.00	7.52	2.1	329.7		2.75	0.00	0.00	2.48		10.35	18.92	83.84	86.68	10-May-19 02:00:00		13.10	18.92	83.84	89.16
10-May-19 03:00:00	10-May-19 04:00:00		7.10	0.00	0.00	7.43	2.1	329.7		2.34	0.00	0.00	2.45		10.35	18.92	83.84	86.68	10-May-19 03:00:00		12.69	18.92	83.84	89.13
10-May-19 04:00:00	10-May-19 05:00:00		7.41	0.00	0.00	7.35	2.1	329.7		2.44	0.00	0.00	2.42		10.35	18.92	83.84	86.68	10-May-19 04:00:00

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
12-May-19 03:00:00	12-May-19 04:00:00		17.32	0.00	0.00	7.34	2.1	329.7		5.71	0.00	0.00	2.42		10.35	18.92	83.84	86.68	12-May-19 03:00:00		**16.06**	**18.92**	**83.84**	**89.10**
12-May-19 04:00:00	12-May-19 05:00:00		9.46	0.00	0.00	7.42	2.1	329.7		3.12	0.00	0.00	2.45		10.35	18.92	83.84	86.68	12-May-19 04:00:00		**13.47**	**18.92**	**83.84**	**89.13**
12-May-19 05:00:00	12-May-19 06:00:00		0.00	0.00	0.00	7.50	2.1	329.7		0.00	0.00	0.00	2.47		10.35	18.92	83.84	86.68	12-May-19 05:00:00		**10.35**	**18.92**	**83.84**	**89.15**
12-May-19 06:00:00	12-May-19 07:00:00		0.00	0.00	0.00	7.57	2.1	329.7		0.00	0.00	0.00	2.50		10.35	18.92	83.84	86.68	12-May-19 06:00:00		**10.35**	**18.92**	**83.84**	**89.18**
12-May-19 07:00:00	12-May-19 08:00:00		0.00	0.00	0.00	7.57	2.1	329.7		0.00	0.00	0.00	2.49		10.35	18.92	83.84	86.68	12-May-19 07:00:00		**10.35**	**18.92**	**83.84**	**89.17**
12-May-19 08:00:00	12-May-19 09:00:00		0.00	0.00	0.00	7.54	2.1	329.7		0.00	0.00	0.00	2.49		10.35	18.92	83.84	86.68	12-May-19 08:00:00		**10.35**	**18.92**	**83.84**	**89.17**
12-May-19 09:00:00	12-May-19 10:00:00		0.00	0.00	0.00	7.51	2.1	329.7		0.00	0.00	0.00	2.48		10.35	18.92	83.84	86.68	12-May-19 09:00:00		**10.35**	**18.92**	**83.84**	**89.16**
12-May-19 10:00:00	12-May-19 11:00:00		0.00	0.00	0.00	7.47	2.1	329.7		0.00	0.00	0.00	2.46		10.35	18.92	83.84	86.68	12-May-19 10:00:00		**10.35**	**18.92**	**83.84**	**89.14**
12-May-19 11:00:00	12-May-19 12:00:00		0.00	0.00	0.00	7.47	2.1	329.7		0.00	0.00	0.00	2.46		10.35	18.92	83.84	86.68	12-May-19 11:00:00		**10.35**	**18.92**	**83.84**	**89.14**
12-May-19 12:00:00	12-May-19 13:00:00		0.00	0.00	0.00	7.49	2.1	329.7		0.00	0.00	0.00	2.47		10.35	18.92	83.84	86.68	12-May-19 12:00:00		**10.35**	**18.92**	**83.84**	**89.15**
12-May-19 13:00:00	12-May-19 14:00:00		0.00	0.00	0.00	7.51	2.1	329.7		0.00	0.00	0.00	2.47		10.35	18.92	83.84	86.68	12-May-19 13:00:00		**10.35**	**18.92**	**83.84**	**89.15**
12-May-19 14:00:00	12-May-19 15:00:00		0.00	0.00	0.00	7.79	2.1	329.7		0.00	0.00	0.00	2.57		10.35	18.92	83.84	86.68	12-May-19 14:00:00		**10.35**	**18.92**	**83.84**	**89.25**
12-May-19 15:00:00	12-May-19 16:00:00		0.00	0.00	0.00	7.35	2.1	329.7		0.00	0.00	0.00	2.42		10.35	18.92	83.84	86.68	12-May-19 15:00:00		**10.35**	**18.92**	**83.84**	**89.10**
12-May-19 16:00:00	12-May-19 17:00:00		0.00	0.00	0.00	7.21	2.1	329.7		0.00	0.00	0.00	2.38		10.35	18.92	83.84	86.68	12-May-19 16:00:00		**10.35**	**18.92**	**83.84**	**89.06**
12-May-19 17:00:00	12-May-19 18:00:00		0.00	0.00	0.00	7.07	2.1	329.7		0.00	0.00	0.00	2.33		10.35	18.92	83.84	86.68	12-May-19 17:00:00		**10.35**	**18.92**	**83.84**	**89.01**
12-May-19 18:00:00	12-May-19 19:00:00		0.00	0.00	0.00	6.92	2.1	329.7		0.00	0.00	0.00	2.28		10.35	18.92	83.84	86.68	12-May-19 18:00:00		**10.35**	**18.92**	**83.84**	**88.96**
12-May-19 19:00:00	12-May-19 20:00:00		0.00	0.00	0.00	6.70	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	12-May-19 19:00:00		**10.35**	**18.92**	**83.84**	**88.89**
12-May-19 20:00:00	12-May-19 21:00:00		0.00	0.00	0.00	6.03	2.1	329.7		0.00	0.00	0.00	20.12		10.35	18.92	83.84	86.68	12-May-19 20:00:00		**10.35**	**18.92**	**83.84**	**106.80**
12-May-19 21:00:00	12-May-19 22:00:00		0.00	0.00	0.00	6.68	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	12-May-19 21:00:00		**10.35**	**18.92**	**83.84**	**88.88**
12-May-19 22:00:00	12-May-19 23:00:00		0.00	0.00	0.00	6.79	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	12-May-19 22:00:00		**10.35**	**18.92**	**83.84**	**88.92**
12-May-19 23:00:00	13-May-19 00:00:00		0.00	0.00	0.00	6.89	2.1	329.7		0.00	0.00	0.00	2.27		10.35	18.92	83.84	86.68	12-May-19 23:00:00		**10.35**	**18.92**	**83.84**	**88.95**
13-May-19 00:00:00	13-May-19 01:00:00		11.66	0.00	0.00	7.03	2.1	329.7		3.84	0.00	0.00	2.32		10.35	18.92	83.84	86.68	13-May-19 00:00:00		**14.19**	**18.92**	**83.84**	**89.00**
13-May-19 01:00:00	13-May-19 02:00:00		23.62	0.00	0.00	7.23	2.1	329.7		7.79	0.00	0.00	2.38		10.35	18.92	83.84	86.68	13-May-19 01:00:00		**18.14**	**18.92**	**83.84**	**89.06**
13-May-19 02:00:00	13-May-19 03:00:00		22.39	0.00	0.00	7.33	2.1	329.7		7.38	0.00	0.00	2.42		10.35	18.92	83.84	86.68	13-May-19 02:00:00		**17.73**	**18.92**	**83.84**	**89.10**
13-May-19 03:00:00	13-May-19 04:00:00		16.21	0.00	0.00	7.44	2.1	329.7		5.34	0.00	0.00	2.45		10.35	18.92	83.84	86.68	13-May-19 03:00:00		**15.69**	**18.92**	**83.84**	**89.13**
13-May-19 04:00:00	13-May-19 05:00:00		13.03	0.00	0.00	7.53	2.1	329.7		4.30	0.00	0.00	2.48		10.35	18.92	83.84	86.68	13-May-19 04:00:00		**14.65**	**18.92**	**83.84**	**89.16**
13-May-19 05:00:00	13-May-19 06:00:00		13.07	0.00	0.00	13.40	2.1	329.7		4.31	0.00	0.00	4.42		10.35	18.92	83.84	86.68	13-May-19 05:00:00		**14.66**	**18.92**	**83.84**	**91.10**
13-May-19 06:00:00	13-May-19 07:00:00		14.46	0.00	0.00	7.51	2.1	329.7		4.77	0.00	0.00	2.48		10.35	18.92	83.84	86.68	13-May-19 06:00:00		**15.12**	**18.92**	**83.84**	**89.16**
13-May-19 07:00:00	13-May-19 08:00:00		15.36	0.00	0.00	7.50	2.1	329.7		5.06	0.00	0.00	2.47		10.35	18.92	83.84	86.68	13-May-19 07:00:00		**15.41**	**18.92**	**83.84**	**89.15**
13-May-19 08:00:00	13-May-19 09:00:00		14.00	0.00	0.00	7.49	2.1	329.7		4.62	0.00	0.00	2.47		10.35	18.92	83.84	86.68	13-May-19 08:00:00		**14.97**	**18.92**	**83.84**	**89.15**
13-May-19 09:00:00	13-May-19 10:00:00		14.37	0.00	0.00	7.46	2.1	329.7		4.74	0.00	0.00	2.46		10.35	18.92	83.84	86.68	13-May-19 09:00:00		**15.09**	**18.92**	**83.84**	**89.14**
13-May-19 10:00:00	13-May-19 11:00:00		15.18	0.00	0.00	7.36	2.1	329.7		5.01	0.00	0.00	2.43		10.35	18.92	83.84	86.68	13-May-19 10:00:00		**15.36**	**18.92**	**83.84**	**89.11**
13-May-19 11:00:00	13-May-19 12:00:00		15.31	0.00	0.00	7.23	2.1	329.7		5.05	0.00	0.00	2.38		10.35	18.92	83.84	86.68	13-May-19 11:00:00		**15.40**	**18.92**	**83.84**	**89.06**
13-May-19 12:00:00	13-May-19 13:00:00		12.94	0.00	0.00	7.10	2.1	329.7		4.27	0.00	0.00	2.34		10.35	18.92	83.84	86.68	13-May-19 12:00:00		**14.62**	**18.92**	**83.84**	**89.02**
13-May-19 13:00:00	13-May-19 14:00:00		7.39	0.00	0.00	6.95	2.1	329.7		2.44	0.00	0.00	2.29		10.35	18.92	83.84	86.68	13-May-19 13:00:00		**12.79**	**18.92**	**83.84**	**88.97**
13-May-19 14:00:00	13-May-19 15:00:00		22.97	0.00	0.00	6.80	2.1	329.7		7.57	0.00	0.00	2.24		10.35	18.92	83.84	86.68	13-May-19 14:00:00		**17.92**	**18.92**	**83.84**	**88.92**
13-May-19 15:00:00	13-May-19 16:00:00		23.36	0.00	0.00	6.69	2.1	329.7		7.70	0.00	0.00	2.20		10.35	18.92	83.84	86.68	13-May-19 15:00:00		**18.05**	**18.92**	**83.84**	**88.88**
13-May-19 16:00:00	13-May-19 17:00:00		17.57	0.00	0.00	6.57	2.1	329.7		5.79	0.00	0.00	2.17		10.35	18.92	83.84	86.68	13-May-19 16:00:00		**16.14**	**18.92**	**83.84**	**88.85**
13-May-19 17:00:00	13-May-19 18:00:00		1.72	0.00	0.00	6.45	2.1	329.7		0.57	0.00	0.00	2.13		10.35	18.92	83.84	86.68	13-May-19 17:00:00		**10.92**	**18.92**	**83.84**	**88.81**
13-May-19 18:00:00	13-May-19 19:00:00		2.47	0.00	0.00	6.46	2.1	329.7		0.82	0.00	0.00	2.13		10.35	18.92	83.84	86.68	13-May-19 18:00:00		**11.17**	**18.92**	**83.84**	**88.81**
13-May-19 19:00:00	13-May-19 20:00:00		3.71	0.00	0.00	6.53	2.1	329.7		1.22	0.00	0.00	2.15		10.35	18.92	83.84	86.68	13-May-19 19:00:00		**11.57**	**18.92**	**83.84**	**88.83**
13-May-19 20:00:00	13-May-19 21:00:00		21.10	0.00	0.00	6.61	2.1	329.7		6.96	0.00	0.00	2.18		10.35	18.92	83.84	86.68	13-May-19 20:00:00		**17.31**	**18.92**	**83.84**	**88.86**
13-May-19 21:00:00	13-May-19 22:00:00		23.62	0.00	0.00	6.67	2.1	329.7		7.79	0.00	0.00	2.20		10.35	18.92	83.84	86.68	13-May-19 21:00:00		**18.14**	**18.92**	**83.84**	**88.88**
13-May-19 22:00:00	13-May-19 23:00:00		7.39	0.00	0.00	6.84	2.1	329.7		2.44	0.00	0.00	2.26		10.35	18.92	83.84	86.68	13-May-19 22:00:00		**12.79**	**18.92**	**83.84**	**88.94**
13-May-19 23:00:00	14-May-19 00:00:00		12.81	0.00	0.00	7.07	2.1	329.7		4.22	0.00	0.00	2.33		10.35	18.92	83.84	86.68	13-May-19 23:00:00		**14.57**	**18.92**	**83.84**	**89.01**
14-May-19 00:00:00	14-May-19 01:00:00		1.87	0.00	0.00	7.30	2.1	329.7		0.62	0.00	0.00	2.41		10.35	18.92	83.84	86.68	14-May-19 00:00:00		**10.97**	**18.92**	**83.84**	**89.09**
14-May-19 01:00:00	14-May-19 02:00:00		3.53	0.00	0.00	7.49	2.1	329.7		1.17	0.00	0.00	2.47		10.35	18.92	83.84	86.68	14-May-19 01:00:00		**11.52**	**18.92**	**83.84**	**89.15**
14-May-19 02:00:00	14-May-19 03:00:00		9.67	0.00	0.00	7.61	2.1	329.7		3.19	0.00	0.00	2.51		10.35	18.92	83.84	86.68	14-May-19 02:00:00		**13.54**	**18.92**	**83.84**	**89.19**
14-May-19 03:00:00	14-May-19 04:00:00		24.69	0.00	0.00	7.77	2.1	329.7		8.14	0.00	0.00	2.56		10.35	18.92	83.84	86.68	14-May-19 03:00:00		**18.49**	**18.92**	**83.84**	**89.24**
14-May-19 04:00:00	14-May-19 05:00:00		27.61	0.00	0.00	7.92	2.1	329.7		9.10	0.00	0.00	2.61		10.35	18.92	83.84	86.68	14-May-19 04:00:00		**19.45**	**18.92**	**83.84**	**89.29**
14-May-19 05:00:00	14-May-19 06:00:00		33.22	0.00	0.00	8.00	2.1	329.7		10.95	0.00	0.00	2.64		10.35	18.92	83.84	86.68	14-May-19 05:00:00		**21.30**	**18.92**	**83.84**	**89.32**
14-May-19 06:00:00	14-May-19 07:00:00		23.34	0.00	0.00	7.87	2.1	329.7		7.70	0.00	0.00	2.60		10.35	18.92	83.84	86.68	14-May-19 06:00:00		**18.05**	**18.92**	**83.84**	**89.28**
14-May-19 07:00:00	14-May-19 08:00:00		54.70	0.00	0.00	7.76	2.1	329.7		18.03	0.00	0.00	2.56		10.35	18.92	83.84	86.68	14-May-19 07:00:00		**28.38**	**18.92**	**83.84**	**89.24**
14-May-19 08:00:00	14-May-19 09:00:00		79.58	0.00	0.00	7.64	2.1	329.7		26.24	0.00	0.00	2.52		10.35	18.92	83.84	86.68	14-May-19 08:00:00		**36.59**	**18.92**	**83.84**	**89.20**
14-May-19 09:00:00	14-May-19 10:00:00		75.02	0.00	0.00	7.52	2.1	329.7		24.73	0.00	0.00	2.48		10.35	18.92	83.84	86.68	14-May-19 09:00:00		**35.08**	**18.92**	**83.84**	**89.16**
14-May-19 10:00:00	14-May-19 11:00:00		67.09	0.00	0.00	7.55	2.1	329.7		22.12	0.00	0.00	2.49		10.35	18.92	83.84	86.68	14-May-19 10:00:00		**32.47**	**18.92**	**83.84**	**89.17**
14-May-19 11:00:00	14-May-19 12:00:00		20.42	0.00	0.00	7.64	2.1	329.7		6.73	0.00	0.00	2.52		10.35	18.92	83.84	86.68	14-May-19 11:00:00		**17.08**	**18.92**	**83.84**	**89.20**
14-May-19 12:00:00	14-May-19 13:00:00		21.72	0.00	0.00	7.72	2.1	329.7		7.16	0.00	0.00	2.55		10.35	18.92	83.84	86.68	14-May-19 12:00:00		**17.51**	**18.92**	**83.84**	**89.23**
14-May-19 13:00:00	14-May-19 14:00:00		27.43	0.00	0.00	7.78	2.1	329.7		9.04	0.00	0.00	2.56		10.35	18.92	83.84	86.68	14-May-19 13:00:00		**19.39**	**18.92**	**83.84**	**89.24**
14-May-19 14:00:00	14-May-19 15:00:00		30.50	0.00	0.00	7.61	2.1	329.7		10.06	0.00	0.00	2.51		10.35	18.92	83.84	86.68	14-May-19 14:00:00		**20.41**	**18.92**	**83.84**	**89.19**
14-May-19 15:00:00	14-May-19 16:00:00		29.98	0.00	0.00	7.40	2.1	329.7		9.88	0.00	0.00	2.44		10.35	18.92	83.84	86.68	14-May-19 15:00:00		**20.23**	**18.92**	**83.84**	**89.12**
14-May-19 16:00:00	14-May-19 17:00:00		18.82	0.00	0.00	7.19	2.1	329.7		6.20	0.00	0.00	2.37		10.35	18.92	83.84	86.68	14-May-19 16:00:00		**16.55**	**18.92**	**83.84**	**89.05**
14-May-19 17:00:00	14-May-19 18:00:00		16.70	0.00	0.00	7.02	2.1	329.7		5.51	0.00	0.00	2.32		10.35	18.92	83.84	86.68	14-May-19 17:00:00		**15.86**	**18.92**	**83.84**	**89.00**
14-May-19 18:00:00	14-May-19 19:00:00		9.59	0.00	0.00	7.22	2.1	329.7		3.16	0.00	0.00	2.38		10.35	18.92	83.84	86.68	14-May-19 18:00:00		**13.51**	**18.92**	**83.84**	**89.06**
14-May-19 19:00:00	14-May-19 20:00:00		10.30	0.00	0.00	7.52	2.1	329.7		3.39	0.00	0.00	2.48		10.35	18.92	83.84	86.68	14-May-19 19:00:00		**13.74**	**18.92**	**83.84**	**89.16**
14-May-19 20:00:00	14-May-19 21:00:00		11.00	0.00	0.00	7.81	2.1	329.7		3.63	0.00	0.00	2.57		10.35	18.92	83.84	86.68	14-May-19 20:00:00		**13.98**	**18.92**	**83.84**	**89.25**
14-May-19 21:00:00	14-May-19 22:00:00		22.05	0.00	0.00	8.08	2.1	329.7		7.27	0.00	0.00	2.66		10.35	18.92	83.84	86.68	14-May-19 21:00:00		**17.62**	**18.92**	**83.84**	**89.34**
14-May-19 22:00:00	14-May-19 23:00:00		26.28	0.00	0.00	8.22	2.1	329.7		8.66	0.00	0.00	2.71		10.35	18.92	83.84	86.68	14-May-19 22:00:00		**19.01**	**18.92**	**83.84**	**89.39**
14-May-19 23:00:00	15-May-19 00:00:00		7.96	0.00	0.00	8.35	2.1	329.7		2.62	0.00	0.00	2.75		10.35	18.92	83.84	86.68	14-May-19 23:00:00		**12.97**	**18.92**	**83.84**	**89.43**
15-May-19 00:00:00	15-May-19 01:00:00		9.37	0.00	0.00	8.47	2.1	329.7		3.09	0.00	0.00	2.79		10.35	18.92	83.84	86.68	15-May-19 00:00:00		**13.44**	**18.92**	**83.84**	**89.47**
15-May-19 01:00:00	15-May-19 02:00:00		19.77	0.00	0.00	8.55	2.1	329.7		6.52	0.00	0.00	2.82		10.35	18.92	83.84	86.68	15-May-19 01:00:00		**16.87**	**18.92**	**83.84**	**89.50**
15-May-19 02:00:00	15-May-19 03:00:00		19.78	0.00	0.00	8.48	2.1	329.7		6.52	0.00	0.00	2.80		10.35	18.92	83.84	86.68	15-May-19 02:00:00		**16.87**	**18.92**	**83.84**	**89.48**
15-May-19 03:00:00	15-May-19 04:00:00		35.06	0.00	0.00	8.44	2.1	329.7		11.56	0.00	0.00	2.78		10.35	18.92	83.84	86.68	15-May-19 03:00:00		**21.91**	**18.92**	**83.84**	**89.46**
15-May-19 04:00:00	15-May-19 05:00:00		44.24	0.00	0.00	8.40	2.1	329.7		14.59	0.00	0.00	2.77		10.35	18.92	83.84	86.68	15-May-19 04:00:00		**24.94**	**18.92**	**83.84**	**89.45**
15-May-19 05:00:00	15-May-19 06:00:00		20.91	0.00	0.00	8.37	2.1	329.7		6.90	0.00	0.00	2.76		10.35	18.92	83.84	86.68	15-May-19 05:00:00		**17.25**	**18.92**	**83.84**	**89.44**
15-May-19 06:00:00	15-May-19 07:00:00		37.24	0.00	0.00	72.08	2.1	329.7		12.28	0.00	0.00	23.76		10.35	18.92	83.84	86.68	15-May-19 06:00:00		**22.63**	**18.92**	**83.84**	**110.44**
15-May-19 07:00:00	15-May-19 08:00:00		39.73	0.00	0.00	8.10	2.1	329.7		13.10	0.00	0.00	2.67		10.35	18.92	83.84	86.68	15-May-19 07:00:00		**23.45**	**18.92**	**83.84**	**89.35**
15-May-19 08:00:00	15-May-19 09:00:00		39.90	0.00	0.00	7.90	2.1	329.7		13.15	0.00	0.00	2.60		10.35	18.92	83.84	86.68	15-May-19 08:00:00		**23.50**	**18.92**	**83.84**	**89.28**
15-May-19 09:00:00	15-May-19 10:00:00		33.83	0.00	0.00	7.69	2.1	329.7		11.15	0.00	0.00	2.54		10.35	18.92	83.84	86.68	15-May-19 09:00:00		**21.50**	**18.92**	**83.84**	**89.22**
15-May-19 10:00:00	15-May-19 11:00:00		21.10	0.00	0.00	7.46	2.1	329.7		6.96	0.00	0.00	2.46		10.35	18.92	83.84	86.68	15-May-19 10:00:00		**17.31**	**18.92**	**83.84**	**89.14**
15-May-19 11:00:00	15-May-19 12:00:00		10.74	0.00	0.00	7.32	2.1	329.7		3.54	0.00	0.00	2.41		10.35	18.92	83.84	86.68	15-May-19 11:00:00		**13.89**	**18.92**	**83.84**	**89.09**
15-May-19 12:00:00	15-May-19 13:00:00		9.42	0.00	0.00	7.19	2.1	329.7		3.11	0.00	0.00	2.37		10.35	18.92	83.84	86.68	15-May-19 12:00:00		**13.46**	**18.92**	**83.84**	**89.05**
15-May-19 13:00:00	15-May-19 14:00:00		7.60	0.00	0.00	7.06	2.1	329.7		2.51	0.00	0.00	2.33		10.35	18.92	83.84	86.68	15-May-19 13:00:00		**12.86**	**18.92**	**83.84**	**89.01**
15-May-19 14:00:00	15-May-19 15:00:00		15.62	0.00	0.00	7.08	2.1	329.7		5.15	0.00	0.00	2.33		10.35	18.92	83.84	86.68	15-May-19 14:00:00		**15.50**	**18.92**	**83.84**	**89.01**
15-May-19 15:00:00	15-May-19 16:00:00		6.58	0.00	0.00	7.14	2.1	329.7		2.17	0.00	0.00	2.35		10.35	18.92	83.84	86.68	15-May-19 15:00:00		**12.52**	**18.92**	**83.84**	**89.03**
15-May-19 16:00:00	15-May-19 17:00:00		5.07	0.00	0.00	7.15	2.1	329.7		1.67	0.00	0.00	2.36		10.35	18.92	83.84	86.68	15-May-19 16:00:00		**12.02**	**18.92**	**83.84**	**89.04**
15-May-19 17:00:00	15-May-19 18:00:00		2.87	0.00	0.00	7.17	2.1	329.7		0.95	0.00	0.00	2.36		10.35	18.92	83.84	86.68	15-May-19 17:00:00		**11.30**	**18.92**	**83.84**	**89.04**
15-May-19 18:00:00	15-May-19 19:00:00		2.51	0.00	0.00	7.08	2.1	329.7		0.83	0.00	0.00	2.33		10.35	18.92	83.84	86.68	15-May-19 18:00:00		**11.18**	**18.92**	**83.84**	**89.01**
15-May-19 19:00:00	15-May-19 20:00:00		2.14	0.00	0.00	7.02	2.1	329.7		0.70	0.00	0.00	2.32		10.35	18.92	83.84	86.68	15-May-19 19:00:00		**11.05**	**18.92**	**83.84**	**89.00**
15-May-19 20:00:00	15-May-19 21:00:00		1.90	0.00	0.00	7.00	2.1	329.7		0.63	0.00	0.00	2.31		10.35	18.92	83.84	86.68	15-May-19 20:00:00		**10.98**	**18.92**	**83.84**	**88.99**
15-May-19 21:00:00	15-May-19 22:00:00		3.51	0.00	0.00	6.98	2.1	329.7		1.16	0.00	0.00	2.30		10.35	18.92	83.84	86.68	15-May-19 21:00:00		**11.51**	**18.92**	**83.84**	**88.98**
15-May-19 22:00:00	15-May-19 23:00:00		3.09	0.00	0.00	7.01	2.1	329.7		1.02	0.00	0.00	2.31		10.35	18.92	83.84	86.68	15-May-19 22:00:00		**11.37**	**18.92**	**83.84**	**88.99**
15-May-19 23:00:00	16-May-19 00:00:00		6.54	0.00	0.00	7.14	2.1	329.7		2.16	0.00	0.00	2.35		10.35	18.92	83.84	86.68	15-May-19 23:00:00		**12.51**	**18.92**	**83.84**	**89.03**
16-May-19 00:00:00	16-May-19 01:00:00		6.79	0.00	0.00	7.27	2.1	329.7		2.24	0.00	0.00	2.40		10.35	18.92	83.84	86.68	16-May-19 00:00:00		**12.59**	**18.92**	**83.84**	**89.08**
16-May-19 01:00:00	16-May-19 02:00:00		10.34	0.00	0.00	7.41	2.1	329.7		3.41	0.00	0.00	2.44		10.35	18.92	83.84	86.68	16-May-19 01:00:00		**13.76**	**18.92**	**83.84**	**89.12**
16-May-19 02:00:00	16-May-19 03:00:00		7.34	0.00	0.00	7.56	2.1	329.7		2.42	0.00	0.00	2.49		10.35	18.92	83.84	86.68	16-May-19 02:00:00		**12.77**	**18.92**	**83.84**	**89.17**
16-May-19 03:00:00	16-May-19 04:00:00		2.18	0.00	0.00	7.58	2.1	329.7		0.72	0.00	0.00	2.50		10.35	18.92	83.84	86.68	16-May-19 03:00:00		**11.07**	**18.92**	**83.84**

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
18-May-19 02:00:00	18-May-19 03:00:00		27.45	0.00	0.00	7.01	2.1	329.7		9.05	0.00	0.00	2.31		10.35	18.92	83.84	86.68	18-May-19 02:00:00		19.40	18.92	83.84	88.99
18-May-19 03:00:00	18-May-19 04:00:00		22.36	0.00	0.00	7.13	2.1	329.7		7.37	0.00	0.00	2.35		10.35	18.92	83.84	86.68	18-May-19 03:00:00		17.72	18.92	83.84	89.03
18-May-19 04:00:00	18-May-19 05:00:00		13.04	0.00	0.00	7.26	2.1	329.7		4.30	0.00	0.00	2.39		10.35	18.92	83.84	86.68	18-May-19 04:00:00		14.65	18.92	83.84	89.07
18-May-19 05:00:00	18-May-19 06:00:00		28.51	0.00	0.00	7.39	2.1	329.7		9.40	0.00	0.00	2.44		10.35	18.92	83.84	86.68	18-May-19 05:00:00		19.75	18.92	83.84	89.12
18-May-19 06:00:00	18-May-19 07:00:00		23.42	0.00	0.00	7.44	2.1	329.7		7.72	0.00	0.00	2.45		10.35	18.92	83.84	86.68	18-May-19 06:00:00		18.07	18.92	83.84	89.13
18-May-19 07:00:00	18-May-19 08:00:00		18.60	0.00	0.00	7.25	2.1	329.7		6.13	0.00	0.00	2.39		10.35	18.92	83.84	86.68	18-May-19 07:00:00		16.48	18.92	83.84	89.07
18-May-19 08:00:00	18-May-19 09:00:00		11.99	0.00	0.00	7.05	2.1	329.7		3.95	0.00	0.00	2.32		10.35	18.92	83.84	86.68	18-May-19 08:00:00		14.30	18.92	83.84	89.00
18-May-19 09:00:00	18-May-19 10:00:00		12.75	0.00	0.00	6.85	2.1	329.7		4.20	0.00	0.00	2.26		10.35	18.92	83.84	86.68	18-May-19 09:00:00		14.55	18.92	83.84	88.94
18-May-19 10:00:00	18-May-19 11:00:00		10.03	0.00	0.00	6.66	2.1	329.7		3.31	0.00	0.00	2.20		10.35	18.92	83.84	86.68	18-May-19 10:00:00		13.66	18.92	83.84	88.88
18-May-19 11:00:00	18-May-19 12:00:00		7.09	0.00	0.00	6.75	2.1	329.7		2.34	0.00	0.00	2.23		10.35	18.92	83.84	86.68	18-May-19 11:00:00		12.69	18.92	83.84	88.91
18-May-19 12:00:00	18-May-19 13:00:00		22.17	0.00	0.00	6.90	2.1	329.7		7.31	0.00	0.00	2.27		10.35	18.92	83.84	86.68	18-May-19 12:00:00		17.66	18.92	83.84	88.95
18-May-19 13:00:00	18-May-19 14:00:00		56.46	0.00	0.00	7.04	2.1	329.7		18.61	0.00	0.00	2.32		10.35	18.92	83.84	86.68	18-May-19 13:00:00		28.96	18.92	83.84	89.00
18-May-19 14:00:00	18-May-19 15:00:00		17.43	0.00	0.00	7.21	2.1	329.7		5.75	0.00	0.00	2.38		10.35	18.92	83.84	86.68	18-May-19 14:00:00		16.10	18.92	83.84	89.06
18-May-19 15:00:00	18-May-19 16:00:00		55.81	0.00	0.00	6.96	2.1	329.7		18.40	0.00	0.00	2.29		10.35	18.92	83.84	86.68	18-May-19 15:00:00		28.75	18.92	83.84	88.97
18-May-19 16:00:00	18-May-19 17:00:00		28.93	0.00	0.00	6.60	2.1	329.7		9.54	0.00	0.00	2.17		10.35	18.92	83.84	86.68	18-May-19 16:00:00		19.89	18.92	83.84	88.85
18-May-19 17:00:00	18-May-19 18:00:00		51.80	0.00	0.00	6.24	2.1	329.7		17.08	0.00	0.00	2.06		10.35	18.92	83.84	86.68	18-May-19 17:00:00		27.43	18.92	83.84	88.74
18-May-19 18:00:00	18-May-19 19:00:00		55.82	0.00	0.00	5.96	2.1	329.7		18.40	0.00	0.00	1.97		10.35	18.92	83.84	86.68	18-May-19 18:00:00		28.75	18.92	83.84	88.65
18-May-19 19:00:00	18-May-19 20:00:00		57.25	0.00	0.00	6.14	2.1	329.7		18.87	0.00	0.00	2.03		10.35	18.92	83.84	86.68	18-May-19 19:00:00		29.22	18.92	83.84	88.71
18-May-19 20:00:00	18-May-19 21:00:00		58.43	0.00	0.00	6.38	2.1	329.7		19.27	0.00	0.00	2.10		10.35	18.92	83.84	86.68	18-May-19 20:00:00		29.62	18.92	83.84	88.78
18-May-19 21:00:00	18-May-19 22:00:00		56.04	0.00	0.00	6.62	2.1	329.7		18.48	0.00	0.00	2.18		10.35	18.92	83.84	86.68	18-May-19 21:00:00		28.83	18.92	83.84	88.86
18-May-19 22:00:00	18-May-19 23:00:00		40.30	0.00	0.00	6.69	2.1	329.7		13.29	0.00	0.00	2.21		10.35	18.92	83.84	86.68	18-May-19 22:00:00		23.64	18.92	83.84	88.89
18-May-19 23:00:00	19-May-19 00:00:00		21.25	0.00	0.00	6.71	2.1	329.7		7.01	0.00	0.00	2.22		10.35	18.92	83.84	86.68	18-May-19 23:00:00		17.36	18.92	83.84	88.89
19-May-19 00:00:00	19-May-19 01:00:00		32.45	0.00	0.00	6.80	2.1	329.7		10.70	0.00	0.00	2.24		10.35	18.92	83.84	86.68	19-May-19 00:00:00		21.05	18.92	83.84	88.92
19-May-19 01:00:00	19-May-19 02:00:00		40.27	0.00	0.00	6.89	2.1	329.7		13.28	0.00	0.00	2.27		10.35	18.92	83.84	86.68	19-May-19 01:00:00		23.63	18.92	83.84	88.95
19-May-19 02:00:00	19-May-19 03:00:00		23.78	0.00	0.00	7.04	2.1	329.7		7.84	0.00	0.00	2.32		10.35	18.92	83.84	86.68	19-May-19 02:00:00		18.19	18.92	83.84	89.00
19-May-19 03:00:00	19-May-19 04:00:00		20.90	0.00	0.00	7.14	2.1	329.7		6.89	0.00	0.00	2.35		10.35	18.92	83.84	86.68	19-May-19 03:00:00		17.24	18.92	83.84	89.03
19-May-19 04:00:00	19-May-19 05:00:00		1.45	0.00	0.00	7.20	2.1	329.7		0.48	0.00	0.00	2.37		10.35	18.92	83.84	86.68	19-May-19 04:00:00		10.83	18.92	83.84	89.05
19-May-19 05:00:00	19-May-19 06:00:00		10.99	0.00	0.00	7.25	2.1	329.7		3.62	0.00	0.00	2.39		10.35	18.92	83.84	86.68	19-May-19 05:00:00		13.97	18.92	83.84	89.07
19-May-19 06:00:00	19-May-19 07:00:00		4.79	0.00	0.00	7.30	2.1	329.7		1.58	0.00	0.00	2.41		10.35	18.92	83.84	86.68	19-May-19 06:00:00		11.93	18.92	83.84	89.09
19-May-19 07:00:00	19-May-19 08:00:00		10.66	0.00	0.00	7.22	2.1	329.7		3.51	0.00	0.00	2.38		10.35	18.92	83.84	86.68	19-May-19 07:00:00		13.86	18.92	83.84	89.06
19-May-19 08:00:00	19-May-19 09:00:00		17.16	0.00	0.00	7.13	2.1	329.7		5.66	0.00	0.00	2.35		10.35	18.92	83.84	86.68	19-May-19 08:00:00		16.01	18.92	83.84	89.03
19-May-19 09:00:00	19-May-19 10:00:00		18.70	0.00	0.00	7.03	2.1	329.7		6.17	0.00	0.00	2.32		10.35	18.92	83.84	86.68	19-May-19 09:00:00		16.52	18.92	83.84	89.00
19-May-19 10:00:00	19-May-19 11:00:00		22.45	0.00	0.00	6.92	2.1	329.7		7.40	0.00	0.00	2.28		10.35	18.92	83.84	86.68	19-May-19 10:00:00		17.75	18.92	83.84	88.96
19-May-19 11:00:00	19-May-19 12:00:00		30.90	0.00	0.00	6.78	2.1	329.7		10.19	0.00	0.00	2.23		10.35	18.92	83.84	86.68	19-May-19 11:00:00		20.54	18.92	83.84	88.91
19-May-19 12:00:00	19-May-19 13:00:00		12.56	0.00	0.00	6.63	2.1	329.7		4.14	0.00	0.00	2.19		10.35	18.92	83.84	86.68	19-May-19 12:00:00		14.49	18.92	83.84	88.87
19-May-19 13:00:00	19-May-19 14:00:00		4.34	0.00	0.00	6.49	2.1	329.7		1.43	0.00	0.00	2.14		10.35	18.92	83.84	86.68	19-May-19 13:00:00		11.78	18.92	83.84	88.82
19-May-19 14:00:00	19-May-19 15:00:00		24.74	0.00	0.00	6.32	2.1	329.7		8.16	0.00	0.00	2.08		10.35	18.92	83.84	86.68	19-May-19 14:00:00		18.51	18.92	83.84	88.76
19-May-19 15:00:00	19-May-19 16:00:00		55.96	0.00	0.00	6.27	2.1	329.7		18.45	0.00	0.00	2.07		10.35	18.92	83.84	86.68	19-May-19 15:00:00		28.80	18.92	83.84	88.75
19-May-19 16:00:00	19-May-19 17:00:00		51.31	0.00	0.00	6.28	2.1	329.7		16.92	0.00	0.00	2.07		10.35	18.92	83.84	86.68	19-May-19 16:00:00		27.27	18.92	83.84	88.75
19-May-19 17:00:00	19-May-19 18:00:00		38.08	0.00	0.00	6.29	2.1	329.7		12.56	0.00	0.00	2.07		10.35	18.92	83.84	86.68	19-May-19 17:00:00		22.91	18.92	83.84	88.75
19-May-19 18:00:00	19-May-19 19:00:00		30.39	0.00	0.00	6.32	2.1	329.7		10.02	0.00	0.00	2.09		10.35	18.92	83.84	86.68	19-May-19 18:00:00		20.37	18.92	83.84	88.77
19-May-19 19:00:00	19-May-19 20:00:00		34.51	0.00	0.00	6.46	2.1	329.7		11.38	0.00	0.00	2.13		10.35	18.92	83.84	86.68	19-May-19 19:00:00		21.73	18.92	83.84	88.81
19-May-19 20:00:00	19-May-19 21:00:00		28.85	0.00	0.00	6.60	2.1	329.7		9.51	0.00	0.00	2.18		10.35	18.92	83.84	86.68	19-May-19 20:00:00		19.86	18.92	83.84	88.86
19-May-19 21:00:00	19-May-19 22:00:00		46.28	0.00	0.00	6.75	2.1	329.7		15.26	0.00	0.00	2.22		10.35	18.92	83.84	86.68	19-May-19 21:00:00		25.61	18.92	83.84	88.90
19-May-19 22:00:00	19-May-19 23:00:00		32.84	0.00	0.00	6.92	2.1	329.7		10.83	0.00	0.00	2.28		10.35	18.92	83.84	86.68	19-May-19 22:00:00		21.18	18.92	83.84	88.96
19-May-19 23:00:00	20-May-19 00:00:00		42.14	0.00	0.00	7.20	2.1	329.7		13.89	0.00	0.00	2.37		10.35	18.92	83.84	86.68	19-May-19 23:00:00		24.24	18.92	83.84	89.05
20-May-19 00:00:00	20-May-19 01:00:00		34.32	0.00	0.00	7.47	2.1	329.7		11.32	0.00	0.00	2.46		10.35	18.92	83.84	86.68	20-May-19 00:00:00		21.67	18.92	83.84	89.14
20-May-19 01:00:00	20-May-19 02:00:00		26.43	0.00	0.00	7.75	2.1	329.7		8.71	0.00	0.00	2.56		10.35	18.92	83.84	86.68	20-May-19 01:00:00		19.06	18.92	83.84	89.24
20-May-19 02:00:00	20-May-19 03:00:00		16.43	0.00	0.00	73.19	2.1	329.7		5.42	0.00	0.00	24.13		10.35	18.92	83.84	86.68	20-May-19 02:00:00		15.77	18.92	83.84	110.81
20-May-19 03:00:00	20-May-19 04:00:00		24.33	0.00	0.00	7.98	2.1	329.7		8.02	0.00	0.00	2.63		10.35	18.92	83.84	86.68	20-May-19 03:00:00		18.37	18.92	83.84	89.31
20-May-19 04:00:00	20-May-19 05:00:00		31.35	0.00	0.00	7.79	2.1	329.7		10.34	0.00	0.00	2.57		10.35	18.92	83.84	86.68	20-May-19 04:00:00		20.69	18.92	83.84	89.25
20-May-19 05:00:00	20-May-19 06:00:00		33.07	0.00	0.00	7.59	2.1	329.7		10.90	0.00	0.00	2.50		10.35	18.92	83.84	86.68	20-May-19 05:00:00		21.25	18.92	83.84	89.18
20-May-19 06:00:00	20-May-19 07:00:00		34.38	0.00	0.00	7.40	2.1	329.7		11.34	0.00	0.00	2.44		10.35	18.92	83.84	86.68	20-May-19 06:00:00		21.69	18.92	83.84	89.12
20-May-19 07:00:00	20-May-19 08:00:00		27.89	0.00	0.00	7.39	2.1	329.7		9.20	0.00	0.00	2.44		10.35	18.92	83.84	86.68	20-May-19 07:00:00		19.55	18.92	83.84	89.12
20-May-19 08:00:00	20-May-19 09:00:00		26.71	0.00	0.00	35.86	2.1	329.7		8.81	0.00	0.00	11.82		10.35	18.92	83.84	86.68	20-May-19 08:00:00		19.16	18.92	83.84	98.50
20-May-19 09:00:00	20-May-19 10:00:00		26.04	0.00	0.00	7.38	2.1	329.7		8.59	0.00	0.00	2.43		10.35	18.92	83.84	86.68	20-May-19 09:00:00		18.94	18.92	83.84	89.11
20-May-19 10:00:00	20-May-19 11:00:00		25.38	0.00	0.00	7.09	2.1	329.7		8.37	0.00	0.00	2.34		10.35	18.92	83.84	86.68	20-May-19 10:00:00		18.72	18.92	83.84	89.02
20-May-19 11:00:00	20-May-19 12:00:00		24.14	0.00	0.00	6.81	2.1	329.7		7.96	0.00	0.00	2.24		10.35	18.92	83.84	86.68	20-May-19 11:00:00		18.31	18.92	83.84	88.92
20-May-19 12:00:00	20-May-19 13:00:00		17.62	0.00	0.00	6.52	2.1	329.7		5.81	0.00	0.00	2.15		10.35	18.92	83.84	86.68	20-May-19 12:00:00		16.16	18.92	83.84	88.83
20-May-19 13:00:00	20-May-19 14:00:00		12.96	0.00	0.00	6.44	2.1	329.7		4.27	0.00	0.00	2.12		10.35	18.92	83.84	86.68	20-May-19 13:00:00		14.62	18.92	83.84	88.80
20-May-19 14:00:00	20-May-19 15:00:00		27.01	0.00	0.00	6.59	2.1	329.7		8.91	0.00	0.00	2.17		10.35	18.92	83.84	86.68	20-May-19 14:00:00		19.26	18.92	83.84	88.85
20-May-19 15:00:00	20-May-19 16:00:00		43.36	0.00	0.00	6.75	2.1	329.7		14.30	0.00	0.00	2.22		10.35	18.92	83.84	86.68	20-May-19 15:00:00		24.65	18.92	83.84	88.90
20-May-19 16:00:00	20-May-19 17:00:00		30.24	0.00	0.00	6.90	2.1	329.7		9.97	0.00	0.00	2.28		10.35	18.92	83.84	86.68	20-May-19 16:00:00		20.32	18.92	83.84	88.96
20-May-19 17:00:00	20-May-19 18:00:00		7.37	0.00	0.00	6.93	2.1	329.7		2.43	0.00	0.00	2.28		10.35	18.92	83.84	86.68	20-May-19 17:00:00		12.78	18.92	83.84	88.96
20-May-19 18:00:00	20-May-19 19:00:00		1.16	0.00	0.00	6.76	2.1	329.7		0.38	0.00	0.00	2.23		10.35	18.92	83.84	86.68	20-May-19 18:00:00		10.73	18.92	83.84	88.91
20-May-19 19:00:00	20-May-19 20:00:00		0.00	0.00	0.00	6.60	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	20-May-19 19:00:00		10.35	18.92	83.84	88.85
20-May-19 20:00:00	20-May-19 21:00:00		0.00	0.00	0.00	6.43	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	20-May-19 20:00:00		10.35	18.92	83.84	88.80
20-May-19 21:00:00	20-May-19 22:00:00		0.00	0.00	0.00	6.64	2.1	329.7		0.00	0.00	0.00	2.19		10.35	18.92	83.84	86.68	20-May-19 21:00:00		10.35	18.92	83.84	88.87
20-May-19 22:00:00	20-May-19 23:00:00		0.00	0.00	0.00	6.79	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	20-May-19 22:00:00		10.35	18.92	83.84	88.92
20-May-19 23:00:00	21-May-19 00:00:00		38.03	0.00	0.00	6.92	2.1	329.7		12.54	0.00	0.00	2.28		10.35	18.92	83.84	86.68	20-May-19 23:00:00		22.89	18.92	83.84	88.96
21-May-19 00:00:00	21-May-19 01:00:00		10.72	0.00	0.00	7.06	2.1	329.7		3.53	0.00	0.00	2.33		10.35	18.92	83.84	86.68	21-May-19 00:00:00		13.88	18.92	83.84	89.01
21-May-19 01:00:00	21-May-19 02:00:00		23.09	0.00	0.00	7.17	2.1	329.7		7.61	0.00	0.00	2.36		10.35	18.92	83.84	86.68	21-May-19 01:00:00		17.96	18.92	83.84	89.04
21-May-19 02:00:00	21-May-19 03:00:00		27.26	0.00	0.00	7.26	2.1	329.7		8.99	0.00	0.00	2.39		10.35	18.92	83.84	86.68	21-May-19 02:00:00		19.34	18.92	83.84	89.07
21-May-19 03:00:00	21-May-19 04:00:00		22.88	0.00	0.00	7.36	2.1	329.7		7.55	0.00	0.00	2.43		10.35	18.92	83.84	86.68	21-May-19 03:00:00		17.90	18.92	83.84	89.11
21-May-19 04:00:00	21-May-19 05:00:00		21.34	0.00	0.00	7.45	2.1	329.7		7.04	0.00	0.00	2.46		10.35	18.92	83.84	86.68	21-May-19 04:00:00		17.39	18.92	83.84	89.14
21-May-19 05:00:00	21-May-19 06:00:00		25.88	0.00	0.00	7.48	2.1	329.7		8.53	0.00	0.00	2.47		10.35	18.92	83.84	86.68	21-May-19 05:00:00		18.88	18.92	83.84	89.15
21-May-19 06:00:00	21-May-19 07:00:00		22.35	0.00	0.00	7.48	2.1	329.7		7.37	0.00	0.00	2.47		10.35	18.92	83.84	86.68	21-May-19 06:00:00		17.72	18.92	83.84	89.15
21-May-19 07:00:00	21-May-19 08:00:00		26.33	0.00	0.00	7.47	2.1	329.7		8.68	0.00	0.00	2.46		10.35	18.92	83.84	86.68	21-May-19 07:00:00		19.03	18.92	83.84	89.14
21-May-19 08:00:00	21-May-19 09:00:00		22.50	0.00	0.00	7.47	2.1	329.7		7.42	0.00	0.00	2.46		10.35	18.92	83.84	86.68	21-May-19 08:00:00		17.77	18.92	83.84	89.14
21-May-19 09:00:00	21-May-19 10:00:00		21.71	0.00	0.00	7.28	2.1	329.7		7.16	0.00	0.00	2.40		10.35	18.92	83.84	86.68	21-May-19 09:00:00		17.51	18.92	83.84	89.08
21-May-19 10:00:00	21-May-19 11:00:00		19.52	0.00	0.00	7.02	2.1	329.7		6.44	0.00	0.00	2.31		10.35	18.92	83.84	86.68	21-May-19 10:00:00		16.79	18.92	83.84	88.99
21-May-19 11:00:00	21-May-19 12:00:00		14.37	0.00	0.00	6.77	2.1	329.7		4.74	0.00	0.00	2.23		10.35	18.92	83.84	86.68	21-May-19 11:00:00		15.09	18.92	83.84	88.91
21-May-19 12:00:00	21-May-19 13:00:00		20.07	0.00	0.00	6.52	2.1	329.7		6.62	0.00	0.00	2.15		10.35	18.92	83.84	86.68	21-May-19 12:00:00		16.97	18.92	83.84	88.83
21-May-19 13:00:00	21-May-19 14:00:00		4.91	0.00	0.00	6.37	2.1	329.7		1.62	0.00	0.00	2.10		10.35	18.92	83.84	86.68	21-May-19 13:00:00		11.97	18.92	83.84	88.78
21-May-19 14:00:00	21-May-19 15:00:00		5.32	0.00	0.00	6.37	2.1	329.7		1.75	0.00	0.00	2.10		10.35	18.92	83.84	86.68	21-May-19 14:00:00		12.10	18.92	83.84	88.78
21-May-19 15:00:00	21-May-19 16:00:00		20.88	0.00	0.00	6.37	2.1	329.7		6.88	0.00	0.00	2.10		10.35	18.92	83.84	86.68	21-May-19 15:00:00		17.23	18.92	83.84	88.78
21-May-19 16:00:00	21-May-19 17:00:00		19.25	0.00	0.00	6.37	2.1	329.7		6.35	0.00	0.00	2.10		10.35	18.92	83.84	86.68	21-May-19 16:00:00		16.70	18.92	83.84	88.78
21-May-19 17:00:00	21-May-19 18:00:00		18.32	0.00	0.00	6.35	2.1	329.7		6.04	0.00	0.00	2.10		10.35	18.92	83.84	86.68	21-May-19 17:00:00		16.39	18.92	83.84	88.78
21-May-19 18:00:00	21-May-19 19:00:00		43.29	0.00	0.00	6.36	2.1	329.7		14.27	0.00	0.00	2.10		10.35	18.92	83.84	86.68	21-May-19 18:00:00		24.62	18.92	83.84	88.78
21-May-19 19:00:00	21-May-19 20:00:00		53.69	0.00	0.00	6.36	2.1	329.7		17.70	0.00	0.00	2.10		10.35	18.92	83.84	86.68	21-May-19 19:00:00		28.05	18.92	83.84	88.78
21-May-19 20:00:00	21-May-19 21:00:00		58.34	0.00	0.00	6.36	2.1	329.7		19.23	0.00	0.00	2.10		10.35	18.92	83.84	86.68	21-May-19 20:00:00		29.58	18.92	83.84	88.78
21-May-19 21:00:00	21-May-19 22:00:00		51.60	0.00	0.00	6.54	2.1	329.7		17.01	0.00	0.00	2.16		10.35	18.92	83.84	86.68	21-May-19 21:00:00		27.36	18.92	83.84	88.84
21-May-19 22:00:00	21-May-19 23:00:00		19.02	0.00	0.00	6.76	2.1	329.7		6.27	0.00	0.00	2.23		10.35	18.92	83.84	86.68	21-May-19 22:00:00		16.62	18.92	83.84	88.91
21-May-19 23:00:00	22-May-19 00:00:00		35.74	0.00	0.00	6.98	2.1	329.7		11.78	0.00	0.00	2.30		10.35	18.92	83.84	86.68	21-May-19 23:00:00		22.13	18.92	83.84	88.98
22-May-19 00:00:00	22-May-19 01:00:00		41.63	0.00	0.00	7.19	2.1	329.7		13.72	0.00	0.00	2.37		10.35	18.92	83.84	86.68	22-May-19 00:00:00		24.07	18.92	83.84	89.05
22-May-19 01:00:00	22-May-19 02:00:00		35.58	0.00	0.00	7.45	2.1	329.7		11.73	0.00	0.00	2.46		10.35	18.92	83.84	86.68	22-May-19 01:00:00		22.08	18.92	83.84	89.14
22-May-19 02:00:00	22-May-19 03:00:00		1.58	0.00	0.00	7.51	2.1	329.7		0.52	0.00	0.00	2.48		10.35	18.92	83.84	86.68	22-May-19 02:00:00		10.87	18.92	83.84

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
24-May-19 01:00:00	24-May-19 02:00:00		39.65	0.00	0.00	7.01	2.1	329.7		13.07	0.00	0.00	2.31		10.35	18.92	83.84	86.68	24-May-19 01:00:00		23.42	18.92	83.84	88.99
24-May-19 02:00:00	24-May-19 03:00:00		16.77	0.00	0.00	7.13	2.1	329.7		5.53	0.00	0.00	2.35		10.35	18.92	83.84	86.68	24-May-19 02:00:00		15.88	18.92	83.84	89.03
24-May-19 03:00:00	24-May-19 04:00:00		21.00	0.00	0.00	7.24	2.1	329.7		6.92	0.00	0.00	2.39		10.35	18.92	83.84	86.68	24-May-19 03:00:00		17.27	18.92	83.84	89.07
24-May-19 04:00:00	24-May-19 05:00:00		71.36	0.00	0.00	7.34	2.1	329.7		23.53	0.00	0.00	2.42		10.35	18.92	83.84	86.68	24-May-19 04:00:00		33.88	18.92	83.84	89.10
24-May-19 05:00:00	24-May-19 06:00:00		47.75	0.00	0.00	7.42	2.1	329.7		15.74	0.00	0.00	2.45		10.35	18.92	83.84	86.68	24-May-19 05:00:00		26.09	18.92	83.84	89.13
24-May-19 06:00:00	24-May-19 07:00:00		12.43	0.00	0.00	7.39	2.1	329.7		4.10	0.00	0.00	2.44		10.35	18.92	83.84	86.68	24-May-19 06:00:00		14.45	18.92	83.84	89.12
24-May-19 07:00:00	24-May-19 08:00:00		42.72	0.00	0.00	7.35	2.1	329.7		14.09	0.00	0.00	2.42		10.35	18.92	83.84	86.68	24-May-19 07:00:00		24.44	18.92	83.84	89.10
24-May-19 08:00:00	24-May-19 09:00:00		44.10	0.00	0.00	7.32	2.1	329.7		14.54	0.00	0.00	2.41		10.35	18.92	83.84	86.68	24-May-19 08:00:00		24.89	18.92	83.84	89.09
24-May-19 09:00:00	24-May-19 10:00:00		40.87	0.00	0.00	7.30	2.1	329.7		13.48	0.00	0.00	2.41		10.35	18.92	83.84	86.68	24-May-19 09:00:00		23.83	18.92	83.84	89.09
24-May-19 10:00:00	24-May-19 11:00:00		27.45	0.00	0.00	7.12	2.1	329.7		9.05	0.00	0.00	2.35		10.35	18.92	83.84	86.68	24-May-19 10:00:00		19.40	18.92	83.84	89.03
24-May-19 11:00:00	24-May-19 12:00:00		23.04	0.00	0.00	6.92	2.1	329.7		7.60	0.00	0.00	2.28		10.35	18.92	83.84	86.68	24-May-19 11:00:00		17.95	18.92	83.84	88.96
24-May-19 12:00:00	24-May-19 13:00:00		61.56	0.00	0.00	6.71	2.1	329.7		20.30	0.00	0.00	2.21		10.35	18.92	83.84	86.68	24-May-19 12:00:00		30.65	18.92	83.84	88.89
24-May-19 13:00:00	24-May-19 14:00:00		73.98	0.00	0.00	6.51	2.1	329.7		24.39	0.00	0.00	2.15		10.35	18.92	83.84	86.68	24-May-19 13:00:00		34.74	18.92	83.84	88.83
24-May-19 14:00:00	24-May-19 15:00:00		36.36	0.00	0.00	6.34	2.1	329.7		11.99	0.00	0.00	2.09		10.35	18.92	83.84	86.68	24-May-19 14:00:00		22.34	18.92	83.84	88.77
24-May-19 15:00:00	24-May-19 16:00:00		40.59	0.00	0.00	6.17	2.1	329.7		13.38	0.00	0.00	2.03		10.35	18.92	83.84	86.68	24-May-19 15:00:00		23.73	18.92	83.84	88.71
24-May-19 16:00:00	24-May-19 17:00:00		48.68	0.00	0.00	6.00	2.1	329.7		16.05	0.00	0.00	1.98		10.35	18.92	83.84	86.68	24-May-19 16:00:00		26.40	18.92	83.84	88.66
24-May-19 17:00:00	24-May-19 18:00:00		42.82	0.00	0.00	5.91	2.1	329.7		14.12	0.00	0.00	1.95		10.35	18.92	83.84	86.68	24-May-19 17:00:00		24.47	18.92	83.84	88.63
24-May-19 18:00:00	24-May-19 19:00:00		37.08	0.00	0.00	6.02	2.1	329.7		12.23	0.00	0.00	1.98		10.35	18.92	83.84	86.68	24-May-19 18:00:00		22.58	18.92	83.84	88.66
24-May-19 19:00:00	24-May-19 20:00:00		38.54	0.00	0.00	6.13	2.1	329.7		12.71	0.00	0.00	2.02		10.35	18.92	83.84	86.68	24-May-19 19:00:00		23.06	18.92	83.84	88.70
24-May-19 20:00:00	24-May-19 21:00:00		46.86	0.00	0.00	6.25	2.1	329.7		15.45	0.00	0.00	2.06		10.35	18.92	83.84	86.68	24-May-19 20:00:00		25.80	18.92	83.84	88.74
24-May-19 21:00:00	24-May-19 22:00:00		31.99	0.00	0.00	6.45	2.1	329.7		10.55	0.00	0.00	2.13		10.35	18.92	83.84	86.68	24-May-19 21:00:00		20.90	18.92	83.84	88.81
24-May-19 22:00:00	24-May-19 23:00:00		60.38	0.00	0.00	6.64	2.1	329.7		19.91	0.00	0.00	2.19		10.35	18.92	83.84	86.68	24-May-19 22:00:00		30.26	18.92	83.84	88.87
24-May-19 23:00:00	25-May-19 00:00:00		33.93	0.00	0.00	6.80	2.1	329.7		11.19	0.00	0.00	2.24		10.35	18.92	83.84	86.68	24-May-19 23:00:00		21.54	18.92	83.84	88.92
25-May-19 00:00:00	25-May-19 01:00:00		41.75	0.00	0.00	6.97	2.1	329.7		13.76	0.00	0.00	2.30		10.35	18.92	83.84	86.68	25-May-19 00:00:00		24.11	18.92	83.84	88.98
25-May-19 01:00:00	25-May-19 02:00:00		46.74	0.00	0.00	7.12	2.1	329.7		15.41	0.00	0.00	2.35		10.35	18.92	83.84	86.68	25-May-19 01:00:00		25.76	18.92	83.84	89.03
25-May-19 02:00:00	25-May-19 03:00:00		24.41	0.00	0.00	7.24	2.1	329.7		8.05	0.00	0.00	2.39		10.35	18.92	83.84	86.68	25-May-19 02:00:00		18.40	18.92	83.84	89.07
25-May-19 03:00:00	25-May-19 04:00:00		64.76	0.00	0.00	7.35	2.1	329.7		21.35	0.00	0.00	2.42		10.35	18.92	83.84	86.68	25-May-19 03:00:00		31.70	18.92	83.84	89.10
25-May-19 04:00:00	25-May-19 05:00:00		40.67	0.00	0.00	86.36	2.1	329.7		13.41	0.00	0.00	28.47		10.35	18.92	83.84	86.68	25-May-19 04:00:00		23.76	18.92	83.84	115.15
25-May-19 05:00:00	25-May-19 06:00:00		60.23	0.00	0.00	7.45	2.1	329.7		19.86	0.00	0.00	2.46		10.35	18.92	83.84	86.68	25-May-19 05:00:00		30.21	18.92	83.84	89.14
25-May-19 06:00:00	25-May-19 07:00:00		72.46	0.00	0.00	7.42	2.1	329.7		23.89	0.00	0.00	2.45		10.35	18.92	83.84	86.68	25-May-19 06:00:00		34.24	18.92	83.84	89.13
25-May-19 07:00:00	25-May-19 08:00:00		71.80	0.00	0.00	7.40	2.1	329.7		23.67	0.00	0.00	2.44		10.35	18.92	83.84	86.68	25-May-19 07:00:00		34.02	18.92	83.84	89.12
25-May-19 08:00:00	25-May-19 09:00:00		74.92	0.00	0.00	7.38	2.1	329.7		24.70	0.00	0.00	2.43		10.35	18.92	83.84	86.68	25-May-19 08:00:00		35.05	18.92	83.84	89.11
25-May-19 09:00:00	25-May-19 10:00:00		75.86	0.00	0.00	7.13	2.1	329.7		25.01	0.00	0.00	2.35		10.35	18.92	83.84	86.68	25-May-19 09:00:00		35.36	18.92	83.84	89.03
25-May-19 10:00:00	25-May-19 11:00:00		45.75	0.00	0.00	6.81	2.1	329.7		15.08	0.00	0.00	2.25		10.35	18.92	83.84	86.68	25-May-19 10:00:00		25.43	18.92	83.84	88.93
25-May-19 11:00:00	25-May-19 12:00:00		50.60	0.00	0.00	6.49	2.1	329.7		16.68	0.00	0.00	2.14		10.35	18.92	83.84	86.68	25-May-19 11:00:00		27.03	18.92	83.84	88.82
25-May-19 12:00:00	25-May-19 13:00:00		54.85	0.00	0.00	6.18	2.1	329.7		18.09	0.00	0.00	2.04		10.35	18.92	83.84	86.68	25-May-19 12:00:00		28.44	18.92	83.84	88.72
25-May-19 13:00:00	25-May-19 14:00:00		48.45	0.00	0.00	5.92	2.1	329.7		15.98	0.00	0.00	1.95		10.35	18.92	83.84	86.68	25-May-19 13:00:00		26.33	18.92	83.84	88.63
25-May-19 14:00:00	25-May-19 15:00:00		28.26	0.00	0.00	225.73	2.1	329.7		9.32	0.00	0.00	74.42		10.35	18.92	83.84	86.68	25-May-19 14:00:00		19.67	18.92	83.84	161.10
25-May-19 15:00:00	25-May-19 16:00:00		21.10	0.00	0.00	5.88	2.1	329.7		6.96	0.00	0.00	1.94		10.35	18.92	83.84	86.68	25-May-19 15:00:00		17.31	18.92	83.84	88.62
25-May-19 16:00:00	25-May-19 17:00:00		19.11	0.00	0.00	5.82	2.1	329.7		6.30	0.00	0.00	1.92		10.35	18.92	83.84	86.68	25-May-19 16:00:00		16.65	18.92	83.84	88.60
25-May-19 17:00:00	25-May-19 18:00:00		19.90	0.00	0.00	5.77	2.1	329.7		6.56	0.00	0.00	1.90		10.35	18.92	83.84	86.68	25-May-19 17:00:00		16.91	18.92	83.84	88.58
25-May-19 18:00:00	25-May-19 19:00:00		30.39	0.00	0.00	5.77	2.1	329.7		10.02	0.00	0.00	1.90		10.35	18.92	83.84	86.68	25-May-19 18:00:00		20.37	18.92	83.84	88.58
25-May-19 19:00:00	25-May-19 20:00:00		40.23	0.00	0.00	6.01	2.1	329.7		13.26	0.00	0.00	1.98		10.35	18.92	83.84	86.68	25-May-19 19:00:00		23.61	18.92	83.84	88.66
25-May-19 20:00:00	25-May-19 21:00:00		37.78	0.00	0.00	6.26	2.1	329.7		12.46	0.00	0.00	2.06		10.35	18.92	83.84	86.68	25-May-19 20:00:00		22.81	18.92	83.84	88.74
25-May-19 21:00:00	25-May-19 22:00:00		39.18	0.00	0.00	6.52	2.1	329.7		12.92	0.00	0.00	2.15		10.35	18.92	83.84	86.68	25-May-19 21:00:00		23.27	18.92	83.84	88.83
25-May-19 22:00:00	25-May-19 23:00:00		21.87	0.00	0.00	6.73	2.1	329.7		7.21	0.00	0.00	2.22		10.35	18.92	83.84	86.68	25-May-19 22:00:00		17.56	18.92	83.84	88.90
25-May-19 23:00:00	26-May-19 00:00:00		57.66	0.00	0.00	7.66	2.1	329.7		19.01	0.00	0.00	2.53		10.35	18.92	83.84	86.68	25-May-19 23:00:00		29.36	18.92	83.84	89.21
26-May-19 00:00:00	26-May-19 01:00:00		48.10	0.00	0.00	7.04	2.1	329.7		15.86	0.00	0.00	2.32		10.35	18.92	83.84	86.68	26-May-19 00:00:00		26.21	18.92	83.84	89.00
26-May-19 01:00:00	26-May-19 02:00:00		61.48	0.00	0.00	7.19	2.1	329.7		20.27	0.00	0.00	2.37		10.35	18.92	83.84	86.68	26-May-19 01:00:00		30.62	18.92	83.84	89.05
26-May-19 02:00:00	26-May-19 03:00:00		43.75	0.00	0.00	7.33	2.1	329.7		14.43	0.00	0.00	2.42		10.35	18.92	83.84	86.68	26-May-19 02:00:00		24.78	18.92	83.84	89.10
26-May-19 03:00:00	26-May-19 04:00:00		42.35	0.00	0.00	7.44	2.1	329.7		13.96	0.00	0.00	2.45		10.35	18.92	83.84	86.68	26-May-19 03:00:00		24.31	18.92	83.84	89.13
26-May-19 04:00:00	26-May-19 05:00:00		47.96	0.00	0.00	7.43	2.1	329.7		15.81	0.00	0.00	2.45		10.35	18.92	83.84	86.68	26-May-19 04:00:00		26.16	18.92	83.84	89.13
26-May-19 05:00:00	26-May-19 06:00:00		40.98	0.00	0.00	7.45	2.1	329.7		13.51	0.00	0.00	2.46		10.35	18.92	83.84	86.68	26-May-19 05:00:00		23.86	18.92	83.84	89.14
26-May-19 06:00:00	26-May-19 07:00:00		56.80	0.00	0.00	7.46	2.1	329.7		18.73	0.00	0.00	2.46		10.35	18.92	83.84	86.68	26-May-19 06:00:00		29.08	18.92	83.84	89.14
26-May-19 07:00:00	26-May-19 08:00:00		52.16	0.00	0.00	7.46	2.1	329.7		17.20	0.00	0.00	2.46		10.35	18.92	83.84	86.68	26-May-19 07:00:00		27.55	18.92	83.84	89.14
26-May-19 08:00:00	26-May-19 09:00:00		24.26	0.00	0.00	7.26	2.1	329.7		8.00	0.00	0.00	2.39		10.35	18.92	83.84	86.68	26-May-19 08:00:00		18.35	18.92	83.84	89.07
26-May-19 09:00:00	26-May-19 10:00:00		40.09	0.00	0.00	7.00	2.1	329.7		13.22	0.00	0.00	2.31		10.35	18.92	83.84	86.68	26-May-19 09:00:00		23.57	18.92	83.84	88.99
26-May-19 10:00:00	26-May-19 11:00:00		50.58	0.00	0.00	6.74	2.1	329.7		16.68	0.00	0.00	2.22		10.35	18.92	83.84	86.68	26-May-19 10:00:00		27.03	18.92	83.84	88.90
26-May-19 11:00:00	26-May-19 12:00:00		61.14	0.00	0.00	6.47	2.1	329.7		20.16	0.00	0.00	2.13		10.35	18.92	83.84	86.68	26-May-19 11:00:00		30.51	18.92	83.84	88.81
26-May-19 12:00:00	26-May-19 13:00:00		55.71	0.00	0.00	6.35	2.1	329.7		18.37	0.00	0.00	2.09		10.35	18.92	83.84	86.68	26-May-19 12:00:00		28.72	18.92	83.84	88.77
26-May-19 13:00:00	26-May-19 14:00:00		34.62	0.00	0.00	6.33	2.1	329.7		11.41	0.00	0.00	2.09		10.35	18.92	83.84	86.68	26-May-19 13:00:00		21.76	18.92	83.84	88.77
26-May-19 14:00:00	26-May-19 15:00:00		24.62	0.00	0.00	6.31	2.1	329.7		8.12	0.00	0.00	2.08		10.35	18.92	83.84	86.68	26-May-19 14:00:00		18.47	18.92	83.84	88.76
26-May-19 15:00:00	26-May-19 16:00:00		51.73	0.00	0.00	6.28	2.1	329.7		17.06	0.00	0.00	2.07		10.35	18.92	83.84	86.68	26-May-19 15:00:00		27.41	18.92	83.84	88.75
26-May-19 16:00:00	26-May-19 17:00:00		43.07	0.00	0.00	6.20	2.1	329.7		14.20	0.00	0.00	2.04		10.35	18.92	83.84	86.68	26-May-19 16:00:00		24.55	18.92	83.84	88.72
26-May-19 17:00:00	26-May-19 18:00:00		10.74	0.00	0.00	6.10	2.1	329.7		3.54	0.00	0.00	2.01		10.35	18.92	83.84	86.68	26-May-19 17:00:00		13.89	18.92	83.84	88.69
26-May-19 18:00:00	26-May-19 19:00:00		23.83	0.00	0.00	6.01	2.1	329.7		7.86	0.00	0.00	1.98		10.35	18.92	83.84	86.68	26-May-19 18:00:00		18.21	18.92	83.84	88.66
26-May-19 19:00:00	26-May-19 20:00:00		19.03	0.00	0.00	5.95	2.1	329.7		6.27	0.00	0.00	1.96		10.35	18.92	83.84	86.68	26-May-19 19:00:00		16.62	18.92	83.84	88.64
26-May-19 20:00:00	26-May-19 21:00:00		31.23	0.00	0.00	6.21	2.1	329.7		10.30	0.00	0.00	2.05		10.35	18.92	83.84	86.68	26-May-19 20:00:00		20.65	18.92	83.84	88.73
26-May-19 21:00:00	26-May-19 22:00:00		40.98	0.00	0.00	6.50	2.1	329.7		13.51	0.00	0.00	2.14		10.35	18.92	83.84	86.68	26-May-19 21:00:00		23.86	18.92	83.84	88.82
26-May-19 22:00:00	26-May-19 23:00:00		37.10	0.00	0.00	6.80	2.1	329.7		12.23	0.00	0.00	2.24		10.35	18.92	83.84	86.68	26-May-19 22:00:00		22.58	18.92	83.84	88.92
26-May-19 23:00:00	27-May-19 00:00:00		39.48	0.00	0.00	7.08	2.1	329.7		13.02	0.00	0.00	2.33		10.35	18.92	83.84	86.68	26-May-19 23:00:00		23.37	18.92	83.84	89.01
27-May-19 00:00:00	27-May-19 01:00:00		51.55	0.00	0.00	7.22	2.1	329.7		17.00	0.00	0.00	2.38		10.35	18.92	83.84	86.68	27-May-19 00:00:00		27.35	18.92	83.84	89.06
27-May-19 01:00:00	27-May-19 02:00:00		91.64	0.00	0.00	7.32	2.1	329.7		30.21	0.00	0.00	2.41		10.35	18.92	83.84	86.68	27-May-19 01:00:00		40.56	18.92	83.84	89.09
27-May-19 02:00:00	27-May-19 03:00:00		64.51	0.00	0.00	7.42	2.1	329.7		21.27	0.00	0.00	2.45		10.35	18.92	83.84	86.68	27-May-19 02:00:00		31.62	18.92	83.84	89.13
27-May-19 03:00:00	27-May-19 04:00:00		65.04	0.00	0.00	7.52	2.1	329.7		21.44	0.00	0.00	2.48		10.35	18.92	83.84	86.68	27-May-19 03:00:00		31.79	18.92	83.84	89.16
27-May-19 04:00:00	27-May-19 05:00:00		67.37	0.00	0.00	39.46	2.1	329.7		22.21	0.00	0.00	13.01		10.35	18.92	83.84	86.68	27-May-19 04:00:00		32.56	18.92	83.84	99.69
27-May-19 05:00:00	27-May-19 06:00:00		43.83	0.00	0.00	7.58	2.1	329.7		14.45	0.00	0.00	2.50		10.35	18.92	83.84	86.68	27-May-19 05:00:00		24.80	18.92	83.84	89.18
27-May-19 06:00:00	27-May-19 07:00:00		23.96	0.00	0.00	7.63	2.1	329.7		7.90	0.00	0.00	2.51		10.35	18.92	83.84	86.68	27-May-19 06:00:00		18.25	18.92	83.84	89.19
27-May-19 07:00:00	27-May-19 08:00:00		25.18	0.00	0.00	7.67	2.1	329.7		8.30	0.00	0.00	2.53		10.35	18.92	83.84	86.68	27-May-19 07:00:00		18.65	18.92	83.84	89.21
27-May-19 08:00:00	27-May-19 09:00:00		26.61	0.00	0.00	7.67	2.1	329.7		8.77	0.00	0.00	2.53		10.35	18.92	83.84	86.68	27-May-19 08:00:00		19.12	18.92	83.84	89.21
27-May-19 09:00:00	27-May-19 10:00:00		27.37	0.00	0.00	7.35	2.1	329.7		9.03	0.00	0.00	2.42		10.35	18.92	83.84	86.68	27-May-19 09:00:00		19.38	18.92	83.84	89.10
27-May-19 10:00:00	27-May-19 11:00:00		28.13	0.00	0.00	7.01	2.1	329.7		9.27	0.00	0.00	2.31		10.35	18.92	83.84	86.68	27-May-19 10:00:00		19.62	18.92	83.84	88.99
27-May-19 11:00:00	27-May-19 12:00:00		60.21	0.00	0.00	6.66	2.1	329.7		19.85	0.00	0.00	2.20		10.35	18.92	83.84	86.68	27-May-19 11:00:00		30.20	18.92	83.84	88.88
27-May-19 12:00:00	27-May-19 13:00:00		75.68	0.00	0.00	6.37	2.1	329.7		24.95	0.00	0.00	2.10		10.35	18.92	83.84	86.68	27-May-19 12:00:00		35.30	18.92	83.84	88.78
27-May-19 13:00:00	27-May-19 14:00:00		46.59	0.00	0.00	6.32	2.1	329.7		15.36	0.00	0.00	2.08		10.35	18.92	83.84	86.68	27-May-19 13:00:00		25.71	18.92	83.84	88.76
27-May-19 14:00:00	27-May-19 15:00:00		16.55	0.00	0.00	6.29	2.1	329.7		5.46	0.00	0.00	2.07		10.35	18.92	83.84	86.68	27-May-19 14:00:00		15.81	18.92	83.84	88.75
27-May-19 15:00:00	27-May-19 16:00:00		37.22	0.00	0.00	6.26	2.1	329.7		12.27	0.00	0.00	2.06		10.35	18.92	83.84	86.68	27-May-19 15:00:00		22.62	18.92	83.84	88.74
27-May-19 16:00:00	27-May-19 17:00:00		71.32	0.00	0.00	6.27	2.1	329.7		23.51	0.00	0.00	2.07		10.35	18.92	83.84	86.68	27-May-19 16:00:00		33.86	18.92	83.84	88.75
27-May-19 17:00:00	27-May-19 18:00:00		69.26	0.00	0.00	6.34	2.1	329.7		22.83	0.00	0.00	2.09		10.35	18.92	83.84	86.68	27-May-19 17:00:00		33.18	18.92	83.84	88.77
27-May-19 18:00:00	27-May-19 19:00:00		67.62	0.00	0.00	6.41	2.1	329.7		22.29	0.00	0.00	2.11		10.35	18.92	83.84	86.68	27-May-19 18:00:00		32.64	18.92	83.84	88.79
27-May-19 19:00:00	27-May-19 20:00:00		67.74	0.00	0.00	6.48	2.1	329.7		22.34	0.00	0.00	2.13		10.35	18.92	83.84	86.68	27-May-19 19:00:00		32.69	18.92	83.84	88.81
27-May-19 20:00:00	27-May-19 21:00:00		51.91	0.00	0.00	6.53	2.1	329.7		17.11	0.00	0.00	2.15		10.35	18.92	83.84	86.68	27-May-19 20:00:00		27.46	18.92	83.84	88.83
27-May-19 21:00:00	27-May-19 22:00:00		32.40	0.00	0.00	6.67	2.1	329.7		10.68	0.00	0.00	2.20		10.35	18.92	83.84	86.68	27-May-19 21:00:00		21.03	18.92	83.84	88.88
27-May-19 22:00:00	27-May-19 23:00:00		40.11	0.00	0.00	6.83	2.1	329.7		13.22	0.00	0.00	2.25		10.35	18.92	83.84	86.68	27-May-19 22:00:00		23.57	18.92	83.84	88.93
27-May-19 23:00:00	28-May-19 00:00:00		73.84	0.00	0.00	6.99	2.1	329.7		24.35	0.00	0.00	2.30		10.35	18.92	83.84	86.68	27-May-19 23:00:00		34.70	18.92	83.84	88.98
28-May-19 00:00:00	28-May-19 01:00:00		62.09	0.00	0.00	7.00	2.1	329.7		20.47	0.00	0.00	2.31		10.35	18.92	83.84	86.68	28-May-19 00:00:00		30.82	18.92	83.84	88.99
28-May-19 01:00:00	28-May-19 02:00:00		65.50	0.00	0.00	7.09	2.1	329.7		21.60	0.00	0.00	2.34		10.35	18.92	83.84	86.68	28-May-19 01:00:00		31.95	18.92	83

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
30-May-19 00:00:00	30-May-19 01:00:00		4.90	0.00	0.00	7.01	2.1	329.7		1.61	0.00	0.00	2.31		10.35	18.92	83.84	86.68	30-May-19 00:00:00		11.96	18.92	83.84	88.99
30-May-19 01:00:00	30-May-19 02:00:00		4.40	0.00	0.00	7.13	2.1	329.7		1.45	0.00	0.00	2.35		10.35	18.92	83.84	86.68	30-May-19 01:00:00		11.80	18.92	83.84	89.03
30-May-19 02:00:00	30-May-19 03:00:00		5.06	0.00	0.00	7.28	2.1	329.7		1.67	0.00	0.00	2.40		10.35	18.92	83.84	86.68	30-May-19 02:00:00		12.02	18.92	83.84	89.08
30-May-19 03:00:00	30-May-19 04:00:00		1.64	0.00	0.00	7.42	2.1	329.7		0.54	0.00	0.00	2.45		10.35	18.92	83.84	86.68	30-May-19 03:00:00		10.89	18.92	83.84	89.13
30-May-19 04:00:00	30-May-19 05:00:00		1.03	0.00	0.00	7.55	2.1	329.7		0.34	0.00	0.00	2.49		10.35	18.92	83.84	86.68	30-May-19 04:00:00		10.69	18.92	83.84	89.17
30-May-19 05:00:00	30-May-19 06:00:00		3.24	0.00	0.00	7.56	2.1	329.7		1.07	0.00	0.00	2.49		10.35	18.92	83.84	86.68	30-May-19 05:00:00		11.42	18.92	83.84	89.17
30-May-19 06:00:00	30-May-19 07:00:00		4.15	0.00	0.00	7.56	2.1	329.7		1.37	0.00	0.00	2.49		10.35	18.92	83.84	86.68	30-May-19 06:00:00		11.72	18.92	83.84	89.17
30-May-19 07:00:00	30-May-19 08:00:00		1.37	0.00	0.00	7.55	2.1	329.7		0.45	0.00	0.00	2.49		10.35	18.92	83.84	86.68	30-May-19 07:00:00		10.80	18.92	83.84	89.17
30-May-19 08:00:00	30-May-19 09:00:00		0.96	0.00	0.00	7.47	2.1	329.7		0.32	0.00	0.00	2.46		10.35	18.92	83.84	86.68	30-May-19 08:00:00		10.67	18.92	83.84	89.14
30-May-19 09:00:00	30-May-19 10:00:00		0.56	0.00	0.00	7.23	2.1	329.7		0.18	0.00	0.00	2.38		10.35	18.92	83.84	86.68	30-May-19 09:00:00		10.53	18.92	83.84	89.06
30-May-19 10:00:00	30-May-19 11:00:00		0.20	0.00	0.00	6.98	2.1	329.7		0.06	0.00	0.00	2.30		10.35	18.92	83.84	86.68	30-May-19 10:00:00		10.41	18.92	83.84	88.98
30-May-19 11:00:00	30-May-19 12:00:00		2.78	0.00	0.00	6.74	2.1	329.7		0.92	0.00	0.00	2.22		10.35	18.92	83.84	86.68	30-May-19 11:00:00		11.27	18.92	83.84	88.90
30-May-19 12:00:00	30-May-19 13:00:00		2.07	0.00	0.00	6.43	2.1	329.7		0.68	0.00	0.00	2.12		10.35	18.92	83.84	86.68	30-May-19 12:00:00		11.03	18.92	83.84	88.80
30-May-19 13:00:00	30-May-19 14:00:00		7.83	0.00	0.00	6.35	2.1	329.7		2.58	0.00	0.00	2.09		10.35	18.92	83.84	86.68	30-May-19 13:00:00		12.93	18.92	83.84	88.77
30-May-19 14:00:00	30-May-19 15:00:00		2.35	0.00	0.00	6.38	2.1	329.7		0.78	0.00	0.00	2.10		10.35	18.92	83.84	86.68	30-May-19 14:00:00		11.13	18.92	83.84	88.78
30-May-19 15:00:00	30-May-19 16:00:00		5.56	0.00	0.00	6.40	2.1	329.7		1.83	0.00	0.00	2.11		10.35	18.92	83.84	86.68	30-May-19 15:00:00		12.18	18.92	83.84	88.79
30-May-19 16:00:00	30-May-19 17:00:00		6.65	0.00	0.00	6.37	2.1	329.7		2.19	0.00	0.00	2.10		10.35	18.92	83.84	86.68	30-May-19 16:00:00		12.54	18.92	83.84	88.78
30-May-19 17:00:00	30-May-19 18:00:00		11.06	0.00	0.00	6.34	2.1	329.7		3.65	0.00	0.00	2.09		10.35	18.92	83.84	86.68	30-May-19 17:00:00		14.00	18.92	83.84	88.77
30-May-19 18:00:00	30-May-19 19:00:00		12.68	0.00	0.00	6.33	2.1	329.7		4.18	0.00	0.00	2.09		10.35	18.92	83.84	86.68	30-May-19 18:00:00		14.53	18.92	83.84	88.77
30-May-19 19:00:00	30-May-19 20:00:00		17.11	0.00	0.00	6.31	2.1	329.7		5.64	0.00	0.00	2.08		10.35	18.92	83.84	86.68	30-May-19 19:00:00		15.99	18.92	83.84	88.76
30-May-19 20:00:00	30-May-19 21:00:00		21.39	0.00	0.00	6.35	2.1	329.7		7.05	0.00	0.00	2.09		10.35	18.92	83.84	86.68	30-May-19 20:00:00		17.40	18.92	83.84	88.77
30-May-19 21:00:00	30-May-19 22:00:00		22.28	0.00	0.00	6.51	2.1	329.7		7.35	0.00	0.00	2.15		10.35	18.92	83.84	86.68	30-May-19 21:00:00		17.70	18.92	83.84	88.83
30-May-19 22:00:00	30-May-19 23:00:00		18.05	0.00	0.00	6.68	2.1	329.7		5.95	0.00	0.00	2.20		10.35	18.92	83.84	86.68	30-May-19 22:00:00		16.30	18.92	83.84	88.88
30-May-19 23:00:00	31-May-19 00:00:00		23.85	0.00	0.00	6.85	2.1	329.7		7.70	0.00	0.00	2.26		10.35	18.92	83.84	86.68	30-May-19 23:00:00		18.05	18.92	83.84	88.94
31-May-19 00:00:00	31-May-19 01:00:00		10.70	0.00	0.00	7.03	2.1	329.7		3.53	0.00	0.00	2.32		10.35	18.92	83.84	86.68	31-May-19 00:00:00		13.88	18.92	83.84	89.00
31-May-19 01:00:00	31-May-19 02:00:00		5.64	0.00	0.00	7.16	2.1	329.7		1.86	0.00	0.00	2.36		10.35	18.92	83.84	86.68	31-May-19 01:00:00		12.21	18.92	83.84	89.04
31-May-19 02:00:00	31-May-19 03:00:00		8.29	0.00	0.00	7.28	2.1	329.7		2.73	0.00	0.00	2.40		10.35	18.92	83.84	86.68	31-May-19 02:00:00		13.08	18.92	83.84	89.08
31-May-19 03:00:00	31-May-19 04:00:00		6.50	0.00	0.00	7.39	2.1	329.7		2.14	0.00	0.00	2.44		10.35	18.92	83.84	86.68	31-May-19 03:00:00		12.49	18.92	83.84	89.12
31-May-19 04:00:00	31-May-19 05:00:00		13.49	0.00	0.00	7.51	2.1	329.7		4.45	0.00	0.00	2.48		10.35	18.92	83.84	86.68	31-May-19 04:00:00		14.80	18.92	83.84	89.16
31-May-19 05:00:00	31-May-19 06:00:00		14.48	0.00	0.00	7.48	2.1	329.7		4.77	0.00	0.00	2.47		10.35	18.92	83.84	86.68	31-May-19 05:00:00		15.12	18.92	83.84	89.15
31-May-19 06:00:00	31-May-19 07:00:00		3.47	0.00	0.00	7.41	2.1	329.7		1.14	0.00	0.00	2.44		10.35	18.92	83.84	86.68	31-May-19 06:00:00		11.49	18.92	83.84	89.12
31-May-19 07:00:00	31-May-19 08:00:00		2.41	0.00	0.00	7.33	2.1	329.7		0.79	0.00	0.00	2.42		10.35	18.92	83.84	86.68	31-May-19 07:00:00		11.14	18.92	83.84	89.10
31-May-19 08:00:00	31-May-19 09:00:00		2.11	0.00	0.00	7.21	2.1	329.7		0.70	0.00	0.00	2.38		10.35	18.92	83.84	86.68	31-May-19 08:00:00		11.05	18.92	83.84	89.06
31-May-19 09:00:00	31-May-19 10:00:00		1.38	0.00	0.00	7.01	2.1	329.7		0.45	0.00	0.00	2.31		10.35	18.92	83.84	86.68	31-May-19 09:00:00		10.80	18.92	83.84	88.99
31-May-19 10:00:00	31-May-19 11:00:00		0.61	0.00	0.00	6.83	2.1	329.7		0.20	0.00	0.00	2.25		10.35	18.92	83.84	86.68	31-May-19 10:00:00		10.55	18.92	83.84	88.93
31-May-19 11:00:00	31-May-19 12:00:00		1.27	0.00	0.00	6.64	2.1	329.7		0.42	0.00	0.00	2.19		10.35	18.92	83.84	86.68	31-May-19 11:00:00		10.77	18.92	83.84	88.87
31-May-19 12:00:00	31-May-19 13:00:00		1.98	0.00	0.00	6.46	2.1	329.7		0.65	0.00	0.00	2.13		10.35	18.92	83.84	86.68	31-May-19 12:00:00		11.00	18.92	83.84	88.81
31-May-19 13:00:00	31-May-19 14:00:00		6.33	0.00	0.00	6.43	2.1	329.7		2.09	0.00	0.00	2.12		10.35	18.92	83.84	86.68	31-May-19 13:00:00		12.44	18.92	83.84	88.80
31-May-19 14:00:00	31-May-19 15:00:00		6.08	0.00	0.00	6.47	2.1	329.7		2.01	0.00	0.00	2.13		10.35	18.92	83.84	86.68	31-May-19 14:00:00		12.36	18.92	83.84	88.81
31-May-19 15:00:00	31-May-19 16:00:00		4.12	0.00	0.00	6.50	2.1	329.7		1.36	0.00	0.00	2.14		10.35	18.92	83.84	86.68	31-May-19 15:00:00		11.71	18.92	83.84	88.82
31-May-19 16:00:00	31-May-19 17:00:00		2.62	0.00	0.00	6.49	2.1	329.7		0.86	0.00	0.00	2.14		10.35	18.92	83.84	86.68	31-May-19 16:00:00		11.21	18.92	83.84	88.82
31-May-19 17:00:00	31-May-19 18:00:00		1.83	0.00	0.00	6.46	2.1	329.7		0.60	0.00	0.00	2.13		10.35	18.92	83.84	86.68	31-May-19 17:00:00		10.95	18.92	83.84	88.81
31-May-19 18:00:00	31-May-19 19:00:00		1.12	0.00	0.00	6.48	2.1	329.7		0.37	0.00	0.00	2.14		10.35	18.92	83.84	86.68	31-May-19 18:00:00		10.72	18.92	83.84	88.82
31-May-19 19:00:00	31-May-19 20:00:00		0.41	0.00	0.00	6.50	2.1	329.7		0.14	0.00	0.00	2.14		10.35	18.92	83.84	86.68	31-May-19 19:00:00		10.49	18.92	83.84	88.82
31-May-19 20:00:00	31-May-19 21:00:00		0.00	0.00	0.00	6.52	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	31-May-19 20:00:00		10.35	18.92	83.84	88.83
31-May-19 21:00:00	31-May-19 22:00:00		0.00	0.00	0.00	6.62	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	31-May-19 21:00:00		10.35	18.92	83.84	88.86
31-May-19 22:00:00	31-May-19 23:00:00		4.31	0.00	0.00	6.75	2.1	329.7		1.42	0.00	0.00	2.23		10.35	18.92	83.84	86.68	31-May-19 22:00:00		11.77	18.92	83.84	88.91
31-May-19 23:00:00	01-Jun-19 00:00:00		15.22	184.25	0.00	6.89	2.1	329.7		5.02	60.75	0.00	2.27		10.35	18.92	83.84	86.68	31-May-19 23:00:00		15.37	79.67	83.84	88.95
01-Jun-19 00:00:00	01-Jun-19 01:00:00		21.12	1,487.83	0.00	6.95	2.1	329.7		6.96	490.54	0.00	2.29		10.35	18.92	83.84	86.68	01-Jun-19 00:00:00		17.31	509.46	83.84	88.97
01-Jun-19 01:00:00	01-Jun-19 02:00:00		4.53	1,664.58	0.00	7.03	2.1	329.7		1.49	548.81	0.00	2.32		10.35	18.92	83.84	86.68	01-Jun-19 01:00:00		11.84	567.73	83.84	89.00
01-Jun-19 02:00:00	01-Jun-19 03:00:00		7.53	1,672.74	0.00	7.18	2.1	329.7		2.48	551.50	0.00	2.37		10.35	18.92	83.84	86.68	01-Jun-19 02:00:00		12.83	570.42	83.84	89.05
01-Jun-19 03:00:00	01-Jun-19 04:00:00		5.98	1,662.41	0.00	7.33	2.1	329.7		1.97	548.10	0.00	2.42		10.35	18.92	83.84	86.68	01-Jun-19 03:00:00		12.32	567.02	83.84	89.10
01-Jun-19 04:00:00	01-Jun-19 05:00:00		6.76	1,649.78	0.00	7.47	2.1	329.7		2.23	543.93	0.00	2.46		10.35	18.92	83.84	86.68	01-Jun-19 04:00:00		12.58	562.85	83.84	89.14
01-Jun-19 05:00:00	01-Jun-19 06:00:00		6.04	1,643.32	0.00	7.51	2.1	329.7		1.99	541.80	0.00	2.48		10.35	18.92	83.84	86.68	01-Jun-19 05:00:00		12.34	560.72	83.84	89.16
01-Jun-19 06:00:00	01-Jun-19 07:00:00		6.20	1,629.93	0.00	7.53	2.1	329.7		2.04	537.39	0.00	2.48		10.35	18.92	83.84	86.68	01-Jun-19 06:00:00		12.39	556.31	83.84	89.16
01-Jun-19 07:00:00	01-Jun-19 08:00:00		7.88	1,632.84	0.00	7.55	2.1	329.7		2.60	538.35	0.00	2.49		10.35	18.92	83.84	86.68	01-Jun-19 07:00:00		12.95	557.27	83.84	89.17
01-Jun-19 08:00:00	01-Jun-19 09:00:00		7.48	1,634.10	0.00	7.58	2.1	329.7		2.47	538.76	0.00	2.50		10.35	18.92	83.84	86.68	01-Jun-19 08:00:00		12.82	557.68	83.84	89.18
01-Jun-19 09:00:00	01-Jun-19 10:00:00		6.61	1,363.53	0.00	7.35	2.1	329.7		2.18	449.56	0.00	2.42		10.35	18.92	83.84	86.68	01-Jun-19 09:00:00		12.53	468.48	83.84	89.10
01-Jun-19 10:00:00	01-Jun-19 11:00:00		0.61	0.00	0.00	7.03	2.1	329.7		0.20	0.00	0.00	2.32		10.35	18.92	83.84	86.68	01-Jun-19 10:00:00		10.55	18.92	83.84	89.00
01-Jun-19 11:00:00	01-Jun-19 12:00:00		0.43	0.00	0.00	6.71	2.1	329.7		0.14	0.00	0.00	2.21		10.35	18.92	83.84	86.68	01-Jun-19 11:00:00		10.49	18.92	83.84	88.89
01-Jun-19 12:00:00	01-Jun-19 13:00:00		0.26	0.00	0.00	6.44	2.1	329.7		0.08	0.00	0.00	2.12		10.35	18.92	83.84	86.68	01-Jun-19 12:00:00		10.43	18.92	83.84	88.80
01-Jun-19 13:00:00	01-Jun-19 14:00:00		0.08	0.00	0.00	6.34	2.1	329.7		0.03	0.00	0.00	2.09		10.35	18.92	83.84	86.68	01-Jun-19 13:00:00		10.38	18.92	83.84	88.77
01-Jun-19 14:00:00	01-Jun-19 15:00:00		0.51	0.00	0.00	6.25	2.1	329.7		0.17	0.00	0.00	2.06		10.35	18.92	83.84	86.68	01-Jun-19 14:00:00		10.52	18.92	83.84	88.74
01-Jun-19 15:00:00	01-Jun-19 16:00:00		0.80	0.00	0.00	6.16	2.1	329.7		0.26	0.00	0.00	2.03		10.35	18.92	83.84	86.68	01-Jun-19 15:00:00		10.61	18.92	83.84	88.71
01-Jun-19 16:00:00	01-Jun-19 17:00:00		5.28	0.00	0.00	6.11	2.1	329.7		1.74	0.00	0.00	2.01		10.35	18.92	83.84	86.68	01-Jun-19 16:00:00		12.09	18.92	83.84	88.69
01-Jun-19 17:00:00	01-Jun-19 18:00:00		5.67	0.00	0.00	6.15	2.1	329.7		1.87	0.00	0.00	2.03		10.35	18.92	83.84	86.68	01-Jun-19 17:00:00		12.22	18.92	83.84	88.71
01-Jun-19 18:00:00	01-Jun-19 19:00:00		2.07	0.00	0.00	6.17	2.1	329.7		0.68	0.00	0.00	2.04		10.35	18.92	83.84	86.68	01-Jun-19 18:00:00		11.03	18.92	83.84	88.72
01-Jun-19 19:00:00	01-Jun-19 20:00:00		1.38	0.00	0.00	6.20	2.1	329.7		0.45	0.00	0.00	2.04		10.35	18.92	83.84	86.68	01-Jun-19 19:00:00		10.80	18.92	83.84	88.72
01-Jun-19 20:00:00	01-Jun-19 21:00:00		0.69	0.00	0.00	6.23	2.1	329.7		0.23	0.00	0.00	2.05		10.35	18.92	83.84	86.68	01-Jun-19 20:00:00		10.58	18.92	83.84	88.73
01-Jun-19 21:00:00	01-Jun-19 22:00:00		0.09	0.00	0.00	6.45	2.1	329.7		0.03	0.00	0.00	2.13		10.35	18.92	83.84	86.68	01-Jun-19 21:00:00		10.38	18.92	83.84	88.81
01-Jun-19 22:00:00	01-Jun-19 23:00:00		0.00	0.00	0.00	6.72	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	01-Jun-19 22:00:00		10.35	18.92	83.84	88.90
01-Jun-19 23:00:00	02-Jun-19 00:00:00		0.16	0.00	0.00	7.00	2.1	329.7		0.05	0.00	0.00	2.31		10.35	18.92	83.84	86.68	01-Jun-19 23:00:00		10.40	18.92	83.84	88.99
02-Jun-19 00:00:00	02-Jun-19 01:00:00		2.92	0.00	0.00	7.28	2.1	329.7		0.96	0.00	0.00	2.40		10.35	18.92	83.84	86.68	02-Jun-19 00:00:00		11.31	18.92	83.84	89.08
02-Jun-19 01:00:00	02-Jun-19 02:00:00		0.36	0.00	0.00	7.37	2.1	329.7		0.12	0.00	0.00	2.43		10.35	18.92	83.84	86.68	02-Jun-19 01:00:00		10.47	18.92	83.84	89.11
02-Jun-19 02:00:00	02-Jun-19 03:00:00		1.08	0.00	0.00	7.39	2.1	329.7		0.35	0.00	0.00	2.43		10.35	18.92	83.84	86.68	02-Jun-19 02:00:00		10.70	18.92	83.84	89.11
02-Jun-19 03:00:00	02-Jun-19 04:00:00		3.25	0.00	0.00	7.40	2.1	329.7		1.07	0.00	0.00	2.44		10.35	18.92	83.84	86.68	02-Jun-19 03:00:00		11.42	18.92	83.84	89.12
02-Jun-19 04:00:00	02-Jun-19 05:00:00		1.10	0.00	0.00	7.36	2.1	329.7		0.36	0.00	0.00	2.43		10.35	18.92	83.84	86.68	02-Jun-19 04:00:00		10.71	18.92	83.84	89.11
02-Jun-19 05:00:00	02-Jun-19 06:00:00		4.44	0.00	0.00	7.23	2.1	329.7		1.46	0.00	0.00	2.38		10.35	18.92	83.84	86.68	02-Jun-19 05:00:00		11.81	18.92	83.84	89.06
02-Jun-19 06:00:00	02-Jun-19 07:00:00		2.07	0.00	0.00	7.15	2.1	329.7		0.68	0.00	0.00	2.36		10.35	18.92	83.84	86.68	02-Jun-19 06:00:00		11.03	18.92	83.84	89.04
02-Jun-19 07:00:00	02-Jun-19 08:00:00		0.30	0.00	0.00	7.06	2.1	329.7		0.10	0.00	0.00	2.33		10.35	18.92	83.84	86.68	02-Jun-19 07:00:00		10.45	18.92	83.84	89.01
02-Jun-19 08:00:00	02-Jun-19 09:00:00		0.00	0.00	0.00	6.98	2.1	329.7		0.00	0.00	0.00	2.30		10.35	18.92	83.84	86.68	02-Jun-19 08:00:00		10.35	18.92	83.84	88.98
02-Jun-19 09:00:00	02-Jun-19 10:00:00		0.00	0.00	0.00	6.77	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	02-Jun-19 09:00:00		10.35	18.92	83.84	88.91
02-Jun-19 10:00:00	02-Jun-19 11:00:00		0.00	0.00	0.00	6.49	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	02-Jun-19 10:00:00		10.35	18.92	83.84	88.82
02-Jun-19 11:00:00	02-Jun-19 12:00:00		0.18	0.00	0.00	6.21	2.1	329.7		0.06	0.00	0.00	2.05		10.35	18.92	83.84	86.68	02-Jun-19 11:00:00		10.41	18.92	83.84	88.73
02-Jun-19 12:00:00	02-Jun-19 13:00:00		0.31	0.00	0.00	5.96	2.1	329.7		0.10	0.00	0.00	1.96		10.35	18.92	83.84	86.68	02-Jun-19 12:00:00		10.45	18.92	83.84	88.64
02-Jun-19 13:00:00	02-Jun-19 14:00:00		2.00	0.00	0.00	5.96	2.1	329.7		0.66	0.00	0.00	1.97		10.35	18.92	83.84	86.68	02-Jun-19 13:00:00		11.01	18.92	83.84	88.65
02-Jun-19 14:00:00	02-Jun-19 15:00:00		3.41	0.00	0.00	6.04	2.1	329.7		1.12	0.00	0.00	1.99		10.35	18.92	83.84	86.68	02-Jun-19 14:00:00		11.47	18.92	83.84	88.67
02-Jun-19 15:00:00	02-Jun-19 16:00:00		2.69	0.00	0.00	6.11	2.1	329.7		0.89	0.00	0.00	2.01		10.35	18.92	83.84	86.68	02-Jun-19 15:00:00		11.24	18.92	83.84	88.69
02-Jun-19 16:00:00	02-Jun-19 17:00:00		2.59	0.00	0.00	6.06	2.1	329.7		0.86	0.00	0.00	2.00		10.35	18.92	83.84	86.68	02-Jun-19 16:00:00		11.21	18.92	83.84	88.68
02-Jun-19 17:00:00	02-Jun-19 18:00:00		0.75	0.00	0.00	5.96	2.1	329.7		0.25	0.00	0.00	1.96		10.35	18.92	83.84	86.68	02-Jun-19 17:00:00		10.60	18.92	83.84	88.64
02-Jun-19 18:00:00	02-Jun-19 19:00:00		2.15	0.00	0.00	6.06	2.1	329.7		0.71	0.00	0.00	2.00		10.35	18.92	83.84	86.68	02-Jun-19 18:00:00		11.06	18.92	83.84	88.68
02-Jun-19 19:00:00	02-Jun-19 20:00:00		2.26	0.00	0.00	6.17	2.1	329.7		0.75	0.00	0.00	2.03		10.35	18.92	83.84	86.68	02-Jun-19 19:00:00		11.10	18.92	83.84	88.71
02-Jun-19 20:00:00	02-Jun-19 21:00:00		3.01	0.00	0.00	6.24	2.1	329.7		0.99	0.00	0.00	2.06		10.35	18.92	83.84	86.68	02-Jun-19 20:00:00		11.34	18.92	83.84	88.74
02-Jun-19 21:00:00	02-Jun-19 22:00:00		3.30	0.00	0.00	6.38	2.1	329.7		1.09	0.00	0.00	2.10		10.35	18.92	83.84	86.68	02-Jun-19 21:00:00		11.44	18.92	83.84	88.78
02-Jun-19 22:00:00	02-Jun-19 23:00:00		0.36	35.68	0.00	6.62	2.1	329.7		0.12	11.77	0.00	2.18		10.35	18.92	83.84	86.68	02-Jun-19 22:00:00		10.47	30.69	83.84	88.86

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
04-Jun-19 23:00:00	05-Jun-19 00:00:00		1.36	0.00	0.00	6.80	2.1	329.7		0.45	0.00	0.00	2.24		10.35	18.92	83.84	86.68	04-Jun-19 23:00:00		10.80	18.92	83.84	88.92
05-Jun-19 00:00:00	05-Jun-19 01:00:00		1.74	0.00	0.00	6.89	2.1	329.7		0.57	0.00	0.00	2.27		10.35	18.92	83.84	86.68	05-Jun-19 00:00:00		10.92	18.92	83.84	88.95
05-Jun-19 01:00:00	05-Jun-19 02:00:00		1.99	0.00	0.00	6.95	2.1	329.7		0.66	0.00	0.00	2.29		10.35	18.92	83.84	86.68	05-Jun-19 01:00:00		11.01	18.92	83.84	88.97
05-Jun-19 02:00:00	05-Jun-19 03:00:00		2.86	0.00	0.00	7.01	2.1	329.7		0.94	0.00	0.00	2.31		10.35	18.92	83.84	86.68	05-Jun-19 02:00:00		11.29	18.92	83.84	88.99
05-Jun-19 03:00:00	05-Jun-19 04:00:00		4.98	0.00	0.00	7.07	2.1	329.7		1.64	0.00	0.00	2.33		10.35	18.92	83.84	86.68	05-Jun-19 03:00:00		11.99	18.92	83.84	89.01
05-Jun-19 04:00:00	05-Jun-19 05:00:00		3.48	0.00	0.00	7.07	2.1	329.7		1.15	0.00	0.00	2.33		10.35	18.92	83.84	86.68	05-Jun-19 04:00:00		11.50	18.92	83.84	89.01
05-Jun-19 05:00:00	05-Jun-19 06:00:00		4.07	0.00	0.00	6.92	2.1	329.7		1.34	0.00	0.00	2.28		10.35	18.92	83.84	86.68	05-Jun-19 05:00:00		11.69	18.92	83.84	88.96
05-Jun-19 06:00:00	05-Jun-19 07:00:00		2.83	0.00	0.00	6.91	2.1	329.7		0.93	0.00	0.00	2.28		10.35	18.92	83.84	86.68	05-Jun-19 06:00:00		11.28	18.92	83.84	88.96
05-Jun-19 07:00:00	05-Jun-19 08:00:00		1.69	0.00	0.00	6.91	2.1	329.7		0.56	0.00	0.00	2.28		10.35	18.92	83.84	86.68	05-Jun-19 07:00:00		10.91	18.92	83.84	88.96
05-Jun-19 08:00:00	05-Jun-19 09:00:00		1.28	0.00	0.00	6.92	2.1	329.7		0.42	0.00	0.00	2.28		10.35	18.92	83.84	86.68	05-Jun-19 08:00:00		10.77	18.92	83.84	88.96
05-Jun-19 09:00:00	05-Jun-19 10:00:00		0.96	0.00	0.00	6.87	2.1	329.7		0.32	0.00	0.00	2.27		10.35	18.92	83.84	86.68	05-Jun-19 09:00:00		10.67	18.92	83.84	88.95
05-Jun-19 10:00:00	05-Jun-19 11:00:00		0.64	0.00	0.00	6.71	2.1	329.7		0.21	0.00	0.00	2.21		10.35	18.92	83.84	86.68	05-Jun-19 10:00:00		10.56	18.92	83.84	88.89
05-Jun-19 11:00:00	05-Jun-19 12:00:00		0.40	0.00	0.00	6.56	2.1	329.7		0.13	0.00	0.00	2.16		10.35	18.92	83.84	86.68	05-Jun-19 11:00:00		10.48	18.92	83.84	88.84
05-Jun-19 12:00:00	05-Jun-19 13:00:00		0.29	0.00	0.00	6.42	2.1	329.7		0.10	0.00	0.00	2.12		10.35	18.92	83.84	86.68	05-Jun-19 12:00:00		10.45	18.92	83.84	88.80
05-Jun-19 13:00:00	05-Jun-19 14:00:00		0.19	0.00	0.00	6.37	2.1	329.7		0.06	0.00	0.00	2.10		10.35	18.92	83.84	86.68	05-Jun-19 13:00:00		10.41	18.92	83.84	88.78
05-Jun-19 14:00:00	05-Jun-19 15:00:00		0.08	0.00	0.00	6.26	2.1	329.7		0.03	0.00	0.00	2.06		10.35	18.92	83.84	86.68	05-Jun-19 14:00:00		10.38	18.92	83.84	88.74
05-Jun-19 15:00:00	05-Jun-19 16:00:00		0.32	0.00	0.00	6.15	2.1	329.7		0.11	0.00	0.00	2.03		10.35	18.92	83.84	86.68	05-Jun-19 15:00:00		10.46	18.92	83.84	88.71
05-Jun-19 16:00:00	05-Jun-19 17:00:00		0.20	0.00	0.00	6.04	2.1	329.7		0.07	0.00	0.00	1.99		10.35	18.92	83.84	86.68	05-Jun-19 16:00:00		10.42	18.92	83.84	88.67
05-Jun-19 17:00:00	05-Jun-19 18:00:00		0.00	0.00	0.00	6.04	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	05-Jun-19 17:00:00		10.35	18.92	83.84	88.67
05-Jun-19 18:00:00	05-Jun-19 19:00:00		0.00	0.00	0.00	6.13	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	05-Jun-19 18:00:00		10.35	18.92	83.84	88.70
05-Jun-19 19:00:00	05-Jun-19 20:00:00		0.00	0.00	0.00	6.21	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	05-Jun-19 19:00:00		10.35	18.92	83.84	88.73
05-Jun-19 20:00:00	05-Jun-19 21:00:00		0.00	0.00	0.00	6.31	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	05-Jun-19 20:00:00		10.35	18.92	83.84	88.76
05-Jun-19 21:00:00	05-Jun-19 22:00:00		0.00	0.00	0.00	6.45	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	05-Jun-19 21:00:00		10.35	18.92	83.84	88.81
05-Jun-19 22:00:00	05-Jun-19 23:00:00		0.00	0.00	0.00	6.56	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	05-Jun-19 22:00:00		10.35	18.92	83.84	88.84
05-Jun-19 23:00:00	06-Jun-19 00:00:00		0.00	0.00	0.00	6.67	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	05-Jun-19 23:00:00		10.35	18.92	83.84	88.88
06-Jun-19 00:00:00	06-Jun-19 01:00:00		0.00	0.00	0.00	6.77	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	06-Jun-19 00:00:00		10.35	18.92	83.84	88.91
06-Jun-19 01:00:00	06-Jun-19 02:00:00		0.00	0.00	0.00	6.80	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	06-Jun-19 01:00:00		10.35	18.92	83.84	88.92
06-Jun-19 02:00:00	06-Jun-19 03:00:00		0.00	0.00	0.00	6.84	2.1	329.7		0.00	0.00	0.00	2.25		10.35	18.92	83.84	86.68	06-Jun-19 02:00:00		10.35	18.92	83.84	88.93
06-Jun-19 03:00:00	06-Jun-19 04:00:00		0.00	0.00	0.00	6.88	2.1	329.7		0.00	0.00	0.00	2.27		10.35	18.92	83.84	86.68	06-Jun-19 03:00:00		10.35	18.92	83.84	88.95
06-Jun-19 04:00:00	06-Jun-19 05:00:00		0.00	0.00	0.00	6.91	2.1	329.7		0.00	0.00	0.00	2.28		10.35	18.92	83.84	86.68	06-Jun-19 04:00:00		10.35	18.92	83.84	88.96
06-Jun-19 05:00:00	06-Jun-19 06:00:00		0.00	0.00	0.00	6.93	2.1	329.7		0.00	0.00	0.00	2.28		10.35	18.92	83.84	86.68	06-Jun-19 05:00:00		10.35	18.92	83.84	88.96
06-Jun-19 06:00:00	06-Jun-19 07:00:00		0.00	0.00	0.00	6.96	2.1	329.7		0.00	0.00	0.00	2.29		10.35	18.92	83.84	86.68	06-Jun-19 06:00:00		10.35	18.92	83.84	88.97
06-Jun-19 07:00:00	06-Jun-19 08:00:00		0.00	0.00	0.00	6.99	2.1	329.7		0.00	0.00	0.00	2.30		10.35	18.92	83.84	86.68	06-Jun-19 07:00:00		10.35	18.92	83.84	88.98
06-Jun-19 08:00:00	06-Jun-19 09:00:00		0.00	0.00	0.00	6.97	2.1	329.7		0.00	0.00	0.00	2.30		10.35	18.92	83.84	86.68	06-Jun-19 08:00:00		10.35	18.92	83.84	88.98
06-Jun-19 09:00:00	06-Jun-19 10:00:00		0.00	0.00	0.00	6.66	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	06-Jun-19 09:00:00		10.35	18.92	83.84	88.88
06-Jun-19 10:00:00	06-Jun-19 11:00:00		0.00	0.00	0.00	6.57	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	06-Jun-19 10:00:00		10.35	18.92	83.84	88.85
06-Jun-19 11:00:00	06-Jun-19 12:00:00		0.00	0.00	0.00	6.47	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	06-Jun-19 11:00:00		10.35	18.92	83.84	88.81
06-Jun-19 12:00:00	06-Jun-19 13:00:00		0.00	0.00	0.00	6.42	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	06-Jun-19 12:00:00		10.35	18.92	83.84	88.80
06-Jun-19 13:00:00	06-Jun-19 14:00:00		0.00	0.00	0.00	6.58	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	06-Jun-19 13:00:00		10.35	18.92	83.84	88.85
06-Jun-19 14:00:00	06-Jun-19 15:00:00		0.00	0.00	0.00	6.52	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	06-Jun-19 14:00:00		10.35	18.92	83.84	88.83
06-Jun-19 15:00:00	06-Jun-19 16:00:00		0.00	0.00	0.00	6.47	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	06-Jun-19 15:00:00		10.35	18.92	83.84	88.81
06-Jun-19 16:00:00	06-Jun-19 17:00:00		0.00	0.00	0.00	6.39	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	06-Jun-19 16:00:00		10.35	18.92	83.84	88.79
06-Jun-19 17:00:00	06-Jun-19 18:00:00		0.00	0.00	0.00	6.25	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	06-Jun-19 17:00:00		10.35	18.92	83.84	88.74
06-Jun-19 18:00:00	06-Jun-19 19:00:00		0.00	0.00	0.00	6.26	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	06-Jun-19 18:00:00		10.35	18.92	83.84	88.74
06-Jun-19 19:00:00	06-Jun-19 20:00:00		0.00	0.00	0.00	6.26	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	06-Jun-19 19:00:00		10.35	18.92	83.84	88.74
06-Jun-19 20:00:00	06-Jun-19 21:00:00		0.00	0.00	0.00	6.27	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	06-Jun-19 20:00:00		10.35	18.92	83.84	88.75
06-Jun-19 21:00:00	06-Jun-19 22:00:00		0.00	0.00	0.00	6.32	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	06-Jun-19 21:00:00		10.35	18.92	83.84	88.76
06-Jun-19 22:00:00	06-Jun-19 23:00:00		0.00	0.00	0.00	6.33	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	06-Jun-19 22:00:00		10.35	18.92	83.84	88.77
06-Jun-19 23:00:00	07-Jun-19 00:00:00		0.00	0.00	0.00	6.34	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	06-Jun-19 23:00:00		10.35	18.92	83.84	88.77
07-Jun-19 00:00:00	07-Jun-19 01:00:00		0.00	0.00	0.00	6.36	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	07-Jun-19 00:00:00		10.35	18.92	83.84	88.78
07-Jun-19 01:00:00	07-Jun-19 02:00:00		0.00	0.00	0.00	6.47	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	07-Jun-19 01:00:00		10.35	18.92	83.84	88.81
07-Jun-19 02:00:00	07-Jun-19 03:00:00		0.00	0.00	0.00	6.57	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	07-Jun-19 02:00:00		10.35	18.92	83.84	88.85
07-Jun-19 03:00:00	07-Jun-19 04:00:00		0.00	0.00	0.00	6.67	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	07-Jun-19 03:00:00		10.35	18.92	83.84	88.88
07-Jun-19 04:00:00	07-Jun-19 05:00:00		0.00	0.00	0.00	6.77	2.1	329.7		0.00	0.00	0.00	2.23		10.35	18.92	83.84	86.68	07-Jun-19 04:00:00		10.35	18.92	83.84	88.91
07-Jun-19 05:00:00	07-Jun-19 06:00:00		0.00	0.00	0.00	6.80	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	07-Jun-19 05:00:00		10.35	18.92	83.84	88.92
07-Jun-19 06:00:00	07-Jun-19 07:00:00		0.00	0.00	0.00	6.80	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	07-Jun-19 06:00:00		10.35	18.92	83.84	88.92
07-Jun-19 07:00:00	07-Jun-19 08:00:00		0.00	0.00	0.00	6.80	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	07-Jun-19 07:00:00		10.35	18.92	83.84	88.92
07-Jun-19 08:00:00	07-Jun-19 09:00:00		0.00	0.00	0.00	6.82	2.1	329.7		0.00	0.00	0.00	2.25		10.35	18.92	83.84	86.68	07-Jun-19 08:00:00		10.35	18.92	83.84	88.93
07-Jun-19 09:00:00	07-Jun-19 10:00:00		0.00	0.00	0.00	6.98	2.1	329.7		0.00	0.00	0.00	2.30		10.35	18.92	83.84	86.68	07-Jun-19 09:00:00		10.35	18.92	83.84	88.98
07-Jun-19 10:00:00	07-Jun-19 11:00:00		0.00	2,755.00	0.00	7.06	2.1	329.7		0.00	908.32	0.00	2.33		10.35	18.92	83.84	86.68	07-Jun-19 10:00:00		10.35	927.24	83.84	89.01
07-Jun-19 11:00:00	07-Jun-19 12:00:00		0.00	0.00	0.00	7.14	2.1	329.7		0.00	0.00	0.00	2.35		10.35	18.92	83.84	86.68	07-Jun-19 11:00:00		10.35	18.92	83.84	89.03
07-Jun-19 12:00:00	07-Jun-19 13:00:00		0.00	0.00	0.00	7.22	2.1	329.7		0.00	0.00	0.00	2.38		10.35	18.92	83.84	86.68	07-Jun-19 12:00:00		10.35	18.92	83.84	89.06
07-Jun-19 13:00:00	07-Jun-19 14:00:00		0.00	0.00	0.00	7.23	2.1	329.7		0.00	0.00	0.00	2.38		10.35	18.92	83.84	86.68	07-Jun-19 13:00:00		10.35	18.92	83.84	89.06
07-Jun-19 14:00:00	07-Jun-19 15:00:00		0.00	0.00	0.00	7.17	2.1	329.7		0.00	0.00	0.00	2.36		10.35	18.92	83.84	86.68	07-Jun-19 14:00:00		10.35	18.92	83.84	89.04
07-Jun-19 15:00:00	07-Jun-19 16:00:00		0.00	0.00	0.00	7.10	2.1	329.7		0.00	0.00	0.00	2.34		10.35	18.92	83.84	86.68	07-Jun-19 15:00:00		10.35	18.92	83.84	89.02
07-Jun-19 16:00:00	07-Jun-19 17:00:00		0.00	0.00	0.00	7.04	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	07-Jun-19 16:00:00		10.35	18.92	83.84	89.00
07-Jun-19 17:00:00	07-Jun-19 18:00:00		0.00	0.00	0.00	7.07	2.1	329.7		0.00	0.00	0.00	2.33		10.35	18.92	83.84	86.68	07-Jun-19 17:00:00		10.35	18.92	83.84	89.01
07-Jun-19 18:00:00	07-Jun-19 19:00:00		0.00	0.00	0.00	7.09	2.1	329.7		0.00	0.00	0.00	2.34		10.35	18.92	83.84	86.68	07-Jun-19 18:00:00		10.35	18.92	83.84	89.02
07-Jun-19 19:00:00	07-Jun-19 20:00:00		0.00	0.00	0.00	7.11	2.1	329.7		0.00	0.00	0.00	2.34		10.35	18.92	83.84	86.68	07-Jun-19 19:00:00		10.35	18.92	83.84	89.02
07-Jun-19 20:00:00	07-Jun-19 21:00:00		0.00	0.00	0.00	7.13	2.1	329.7		0.00	0.00	0.00	2.35		10.35	18.92	83.84	86.68	07-Jun-19 20:00:00		10.35	18.92	83.84	89.03
07-Jun-19 21:00:00	07-Jun-19 22:00:00		0.00	0.00	0.00	7.12	2.1	329.7		0.00	0.00	0.00	2.35		10.35	18.92	83.84	86.68	07-Jun-19 21:00:00		10.35	18.92	83.84	89.03
07-Jun-19 22:00:00	07-Jun-19 23:00:00		0.00	0.00	0.00	7.09	2.1	329.7		0.00	0.00	0.00	2.34		10.35	18.92	83.84	86.68	07-Jun-19 22:00:00		10.35	18.92	83.84	89.02
07-Jun-19 23:00:00	08-Jun-19 00:00:00		0.00	0.00	0.00	7.05	2.1	329.7		0.00	0.00	0.00	2.33		10.35	18.92	83.84	86.68	07-Jun-19 23:00:00		10.35	18.92	83.84	89.01
08-Jun-19 00:00:00	08-Jun-19 01:00:00		0.00	0.00	0.00	7.02	2.1	329.7		0.00	0.00	0.00	2.31		10.35	18.92	83.84	86.68	08-Jun-19 00:00:00		10.35	18.92	83.84	88.99
08-Jun-19 01:00:00	08-Jun-19 02:00:00		0.00	0.00	0.00	6.95	2.1	329.7		0.00	0.00	0.00	2.29		10.35	18.92	83.84	86.68	08-Jun-19 01:00:00		10.35	18.92	83.84	88.97
08-Jun-19 02:00:00	08-Jun-19 03:00:00		0.00	0.00	0.00	6.92	2.1	329.7		0.00	0.00	0.00	2.28		10.35	18.92	83.84	86.68	08-Jun-19 02:00:00		10.35	18.92	83.84	88.96
08-Jun-19 03:00:00	08-Jun-19 04:00:00		0.00	0.00	0.00	6.89	2.1	329.7		0.00	0.00	0.00	2.27		10.35	18.92	83.84	86.68	08-Jun-19 03:00:00		10.35	18.92	83.84	88.95
08-Jun-19 04:00:00	08-Jun-19 05:00:00		0.33	0.00	0.00	6.87	2.1	329.7		0.11	0.00	0.00	2.26		10.35	18.92	83.84	86.68	08-Jun-19 04:00:00		10.46	18.92	83.84	88.94
08-Jun-19 05:00:00	08-Jun-19 06:00:00		1.39	0.00	0.00	7.02	2.1	329.7		0.46	0.00	0.00	2.31		10.35	18.92	83.84	86.68	08-Jun-19 05:00:00		10.81	18.92	83.84	88.99
08-Jun-19 06:00:00	08-Jun-19 07:00:00		2.29	0.00	0.00	7.07	2.1	329.7		0.75	0.00	0.00	2.33		10.35	18.92	83.84	86.68	08-Jun-19 06:00:00		11.10	18.92	83.84	89.01
08-Jun-19 07:00:00	08-Jun-19 08:00:00		0.00	0.00	0.00	7.12	2.1	329.7		0.00	0.00	0.00	2.35		10.35	18.92	83.84	86.68	08-Jun-19 07:00:00		10.35	18.92	83.84	89.03
08-Jun-19 08:00:00	08-Jun-19 09:00:00		0.00	0.00	0.00	7.16	2.1	329.7		0.00	0.00	0.00	2.36		10.35	18.92	83.84	86.68	08-Jun-19 08:00:00		10.35	18.92	83.84	89.04
08-Jun-19 09:00:00	08-Jun-19 10:00:00		0.00	0.00	0.00	6.82	2.1	329.7		0.00	0.00	0.00	2.25		10.35	18.92	83.84	86.68	08-Jun-19 09:00:00		10.35	18.92	83.84	88.93
08-Jun-19 10:00:00	08-Jun-19 11:00:00		0.00	0.00	0.00	6.55	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	08-Jun-19 10:00:00		10.35	18.92	83.84	88.84
08-Jun-19 11:00:00	08-Jun-19 12:00:00		0.15	0.00	0.00	6.28	2.1	329.7		0.05	0.00	0.00	2.07		10.35	18.92	83.84	86.68	08-Jun-19 11:00:00		10.40	18.92	83.84	88.75
08-Jun-19 12:00:00	08-Jun-19 13:00:00		0.43	0.00	0.00	6.02	2.1	329.7		0.14	0.00	0.00	1.98		10.35	18.92	83.84	86.68	08-Jun-19 12:00:00		10.49	18.92	83.84	88.66
08-Jun-19 13:00:00	08-Jun-19 14:00:00		0.72	0.00	0.00	5.91	2.1	329.7		0.24	0.00	0.00	1.95		10.35	18.92	83.84	86.68	08-Jun-19 13:00:00		10.59	18.92	83.84	88.63
08-Jun-19 14:00:00	08-Jun-19 15:00:00		2.53	0.00	0.00	5.89	2.1	329.7		0.84	0.00	0.00	1.94		10.35	18.92	83.84	86.68	08-Jun-19 14:00:00		11.19	18.92	83.84	88.62
08-Jun-19 15:00:00	08-Jun-19 16:00:00		12.24	0.00	0.00	5.88	2.1	329.7		4.04	0.00	0.00	1.94		10.35	18.92	83.84	86.68	08-Jun-19 15:00:00		14.39	18.92	83.84	88.62
08-Jun-19 16:00:00	08-Jun-19 17:00:00		15.03	0.00	0.00	5.86	2.1	329.7		4.95	0.00	0.00	1.93		10.35	18.92	83.84	86.68	08-Jun-19 16:00:00		15.30	18.92	83.84	88.61
08-Jun-19 17:00:00	08-Jun-19 18:00:00		3.38	0.00	0.00	6.05	2.1	329.7		1.11	0.00	0.00	1.99		10.35	18.92	83.84	86.68	08-Jun-19 17:00:00		11.46	18.92	83.84	88.67
08-Jun-19 18:00:00	08-Jun-19 19:00:00		2.53	0.00	0.00	6.39	2.1	329.7		0.83	0.00	0.00	2.11		10.35	18.92	83.84	86.68	08-Jun-19 18:00:00		11.18	18.92	83.84	88.79
08-Jun-19 19:00:00	08-Jun-19 20:00:00		1.75	0.00	0.00	6.73	2.1	329.7		0.58	0.00	0.00	2.22		10.35	18.92	83.84	86.68	08-Jun-19 19:00:00		10.93	18.92	83.84	88.90
08-Jun-19 20:00:00	08-Jun-19 21:00:00		2.14	0.00	0.00	7.07

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
10-Jun-19 22:00:00	10-Jun-19 23:00:00		12.56	0.00	0.00	6.02	2.1	329.7		4.14	0.00	0.00	1.99		10.35	18.92	83.84	86.68	10-Jun-19 22:00:00		**14.49**	**18.92**	**83.84**	**88.67**
10-Jun-19 23:00:00	11-Jun-19 00:00:00		24.77	0.00	0.00	48.43	2.1	329.7		8.17	0.00	0.00	15.97		10.35	18.92	83.84	86.68	10-Jun-19 23:00:00		**18.52**	**18.92**	**83.84**	**102.65**
11-Jun-19 00:00:00	11-Jun-19 01:00:00		24.70	0.00	0.00	6.22	2.1	329.7		8.14	0.00	0.00	2.05		10.35	18.92	83.84	86.68	11-Jun-19 00:00:00		**18.49**	**18.92**	**83.84**	**88.73**
11-Jun-19 01:00:00	11-Jun-19 02:00:00		24.63	0.00	0.00	6.28	2.1	329.7		8.12	0.00	0.00	2.07		10.35	18.92	83.84	86.68	11-Jun-19 01:00:00		**18.47**	**18.92**	**83.84**	**88.75**
11-Jun-19 02:00:00	11-Jun-19 03:00:00		24.38	0.00	0.00	6.35	2.1	329.7		8.04	0.00	0.00	2.09		10.35	18.92	83.84	86.68	11-Jun-19 02:00:00		**18.39**	**18.92**	**83.84**	**88.77**
11-Jun-19 03:00:00	11-Jun-19 04:00:00		24.46	0.00	0.00	6.39	2.1	329.7		8.07	0.00	0.00	2.11		10.35	18.92	83.84	86.68	11-Jun-19 03:00:00		**18.42**	**18.92**	**83.84**	**88.79**
11-Jun-19 04:00:00	11-Jun-19 05:00:00		24.85	0.00	0.00	6.47	2.1	329.7		8.19	0.00	0.00	2.13		10.35	18.92	83.84	86.68	11-Jun-19 04:00:00		**18.54**	**18.92**	**83.84**	**88.81**
11-Jun-19 05:00:00	11-Jun-19 06:00:00		25.23	0.00	0.00	6.55	2.1	329.7		8.32	0.00	0.00	2.16		10.35	18.92	83.84	86.68	11-Jun-19 05:00:00		**18.67**	**18.92**	**83.84**	**88.84**
11-Jun-19 06:00:00	11-Jun-19 07:00:00		22.56	0.00	0.00	6.64	2.1	329.7		7.44	0.00	0.00	2.19		10.35	18.92	83.84	86.68	11-Jun-19 06:00:00		**17.79**	**18.92**	**83.84**	**88.87**
11-Jun-19 07:00:00	11-Jun-19 08:00:00		17.79	0.00	0.00	6.65	2.1	329.7		5.87	0.00	0.00	2.19		10.35	18.92	83.84	86.68	11-Jun-19 07:00:00		**16.22**	**18.92**	**83.84**	**88.87**
11-Jun-19 08:00:00	11-Jun-19 09:00:00		7.33	0.00	0.00	6.52	2.1	329.7		2.42	0.00	0.00	2.15		10.35	18.92	83.84	86.68	11-Jun-19 08:00:00		**12.77**	**18.92**	**83.84**	**88.83**
11-Jun-19 09:00:00	11-Jun-19 10:00:00		7.17	0.00	0.00	6.40	2.1	329.7		2.36	0.00	0.00	2.11		10.35	18.92	83.84	86.68	11-Jun-19 09:00:00		**12.71**	**18.92**	**83.84**	**88.79**
11-Jun-19 10:00:00	11-Jun-19 11:00:00		7.00	0.00	0.00	6.28	2.1	329.7		2.31	0.00	0.00	2.07		10.35	18.92	83.84	86.68	11-Jun-19 10:00:00		**12.66**	**18.92**	**83.84**	**88.75**
11-Jun-19 11:00:00	11-Jun-19 12:00:00		6.84	0.00	0.00	5.98	2.1	329.7		2.25	0.00	0.00	1.97		10.35	18.92	83.84	86.68	11-Jun-19 11:00:00		**12.60**	**18.92**	**83.84**	**88.65**
11-Jun-19 12:00:00	11-Jun-19 13:00:00		5.61	0.00	0.00	5.85	2.1	329.7		1.85	0.00	0.00	1.93		10.35	18.92	83.84	86.68	11-Jun-19 12:00:00		**12.20**	**18.92**	**83.84**	**88.61**
11-Jun-19 13:00:00	11-Jun-19 14:00:00		4.39	0.00	0.00	5.76	2.1	329.7		1.45	0.00	0.00	1.90		10.35	18.92	83.84	86.68	11-Jun-19 13:00:00		**11.80**	**18.92**	**83.84**	**88.58**
11-Jun-19 14:00:00	11-Jun-19 15:00:00		12.74	0.00	0.00	5.68	2.1	329.7		4.20	0.00	0.00	1.87		10.35	18.92	83.84	86.68	11-Jun-19 14:00:00		**14.55**	**18.92**	**83.84**	**88.55**
11-Jun-19 15:00:00	11-Jun-19 16:00:00		39.32	0.00	0.00	5.50	2.1	329.7		12.96	0.00	0.00	1.81		10.35	18.92	83.84	86.68	11-Jun-19 15:00:00		**23.31**	**18.92**	**83.84**	**88.49**
11-Jun-19 16:00:00	11-Jun-19 17:00:00		42.84	0.00	0.00	5.55	2.1	329.7		14.12	0.00	0.00	1.83		10.35	18.92	83.84	86.68	11-Jun-19 16:00:00		**24.47**	**18.92**	**83.84**	**88.51**
11-Jun-19 17:00:00	11-Jun-19 18:00:00		49.33	0.00	0.00	5.64	2.1	329.7		16.26	0.00	0.00	1.86		10.35	18.92	83.84	86.68	11-Jun-19 17:00:00		**26.61**	**18.92**	**83.84**	**88.54**
11-Jun-19 18:00:00	11-Jun-19 19:00:00		47.15	0.00	0.00	5.74	2.1	329.7		15.54	0.00	0.00	1.89		10.35	18.92	83.84	86.68	11-Jun-19 18:00:00		**25.89**	**18.92**	**83.84**	**88.57**
11-Jun-19 19:00:00	11-Jun-19 20:00:00		50.65	0.00	0.00	5.87	2.1	329.7		16.70	0.00	0.00	1.94		10.35	18.92	83.84	86.68	11-Jun-19 19:00:00		**27.05**	**18.92**	**83.84**	**88.62**
11-Jun-19 20:00:00	11-Jun-19 21:00:00		51.49	0.00	0.00	6.04	2.1	329.7		16.97	0.00	0.00	1.99		10.35	18.92	83.84	86.68	11-Jun-19 20:00:00		**27.32**	**18.92**	**83.84**	**88.67**
11-Jun-19 21:00:00	11-Jun-19 22:00:00		43.99	0.00	0.00	6.19	2.1	329.7		14.50	0.00	0.00	2.04		10.35	18.92	83.84	86.68	11-Jun-19 21:00:00		**24.85**	**18.92**	**83.84**	**88.72**
11-Jun-19 22:00:00	11-Jun-19 23:00:00		13.15	0.00	0.00	6.35	2.1	329.7		4.34	0.00	0.00	2.09		10.35	18.92	83.84	86.68	11-Jun-19 22:00:00		**14.69**	**18.92**	**83.84**	**88.77**
11-Jun-19 23:00:00	12-Jun-19 00:00:00		27.17	0.00	0.00	6.50	2.1	329.7		8.96	0.00	0.00	2.14		10.35	18.92	83.84	86.68	11-Jun-19 23:00:00		**19.31**	**18.92**	**83.84**	**88.82**
12-Jun-19 00:00:00	12-Jun-19 01:00:00		27.58	0.00	0.00	6.63	2.1	329.7		9.09	0.00	0.00	2.19		10.35	18.92	83.84	86.68	12-Jun-19 00:00:00		**19.44**	**18.92**	**83.84**	**88.87**
12-Jun-19 01:00:00	12-Jun-19 02:00:00		42.95	0.00	0.00	6.75	2.1	329.7		14.16	0.00	0.00	2.23		10.35	18.92	83.84	86.68	12-Jun-19 01:00:00		**24.51**	**18.92**	**83.84**	**88.91**
12-Jun-19 02:00:00	12-Jun-19 03:00:00		39.93	0.00	0.00	6.87	2.1	329.7		13.16	0.00	0.00	2.27		10.35	18.92	83.84	86.68	12-Jun-19 02:00:00		**23.51**	**18.92**	**83.84**	**88.95**
12-Jun-19 03:00:00	12-Jun-19 04:00:00		30.67	0.00	0.00	6.97	2.1	329.7		10.11	0.00	0.00	2.30		10.35	18.92	83.84	86.68	12-Jun-19 03:00:00		**20.46**	**18.92**	**83.84**	**88.98**
12-Jun-19 04:00:00	12-Jun-19 05:00:00		379.69	0.00	0.00	7.01	2.1	329.7		125.18	0.00	0.00	2.31		10.35	18.92	83.84	86.68	12-Jun-19 04:00:00		**135.53**	**18.92**	**83.84**	**88.99**
12-Jun-19 05:00:00	12-Jun-19 06:00:00		603.32	0.00	0.00	7.04	2.1	329.7		198.91	0.00	0.00	2.32		10.35	18.92	83.84	86.68	12-Jun-19 05:00:00		**209.26**	**18.92**	**83.84**	**89.00**
12-Jun-19 06:00:00	12-Jun-19 07:00:00		1,185.76	0.00	0.00	7.07	2.1	329.7		390.95	0.00	0.00	2.33		10.35	18.92	83.84	86.68	12-Jun-19 06:00:00		**401.30**	**18.92**	**83.84**	**89.01**
12-Jun-19 07:00:00	12-Jun-19 08:00:00		1,417.37	0.00	0.00	7.14	2.1	329.7		467.31	0.00	0.00	2.35		10.35	18.92	83.84	86.68	12-Jun-19 07:00:00		**477.66**	**18.92**	**83.84**	**89.03**
12-Jun-19 08:00:00	12-Jun-19 09:00:00		1,268.61	0.00	0.00	7.12	2.1	329.7		418.26	0.00	0.00	2.35		10.35	18.92	83.84	86.68	12-Jun-19 08:00:00		**428.61**	**18.92**	**83.84**	**89.03**
12-Jun-19 09:00:00	12-Jun-19 10:00:00		1,392.71	0.00	0.00	7.08	2.1	329.7		459.18	0.00	0.00	2.33		10.35	18.92	83.84	86.68	12-Jun-19 09:00:00		**469.53**	**18.92**	**83.84**	**89.01**
12-Jun-19 10:00:00	12-Jun-19 11:00:00		1,361.04	0.00	0.00	7.04	2.1	329.7		448.74	0.00	0.00	2.32		10.35	18.92	83.84	86.68	12-Jun-19 10:00:00		**459.09**	**18.92**	**83.84**	**89.00**
12-Jun-19 11:00:00	12-Jun-19 12:00:00		1,354.66	0.00	0.00	6.99	2.1	329.7		446.63	0.00	0.00	2.30		10.35	18.92	83.84	86.68	12-Jun-19 11:00:00		**456.98**	**18.92**	**83.84**	**88.98**
12-Jun-19 12:00:00	12-Jun-19 13:00:00		1,070.26	0.00	0.00	6.96	2.1	329.7		352.87	0.00	0.00	2.30		10.35	18.92	83.84	86.68	12-Jun-19 12:00:00		**363.22**	**18.92**	**83.84**	**88.98**
12-Jun-19 13:00:00	12-Jun-19 14:00:00		863.27	0.00	0.00	6.94	2.1	329.7		284.62	0.00	0.00	2.29		10.35	18.92	83.84	86.68	12-Jun-19 13:00:00		**294.97**	**18.92**	**83.84**	**88.97**
12-Jun-19 14:00:00	12-Jun-19 15:00:00		865.27	0.00	0.00	6.92	2.1	329.7		285.28	0.00	0.00	2.28		10.35	18.92	83.84	86.68	12-Jun-19 14:00:00		**295.63**	**18.92**	**83.84**	**88.96**
12-Jun-19 15:00:00	12-Jun-19 16:00:00		847.25	43.96	0.00	6.89	2.1	329.7		279.34	14.49	0.00	2.27		10.35	18.92	83.84	86.68	12-Jun-19 15:00:00		**289.69**	**33.41**	**83.84**	**88.95**
12-Jun-19 16:00:00	12-Jun-19 17:00:00		1,251.02	0.00	0.00	6.87	2.1	329.7		412.46	0.00	0.00	2.27		10.35	18.92	83.84	86.68	12-Jun-19 16:00:00		**422.81**	**18.92**	**83.84**	**88.95**
12-Jun-19 17:00:00	12-Jun-19 18:00:00		1,258.20	0.00	0.00	6.85	2.1	329.7		414.83	0.00	0.00	2.26		10.35	18.92	83.84	86.68	12-Jun-19 17:00:00		**425.18**	**18.92**	**83.84**	**88.94**
12-Jun-19 18:00:00	12-Jun-19 19:00:00		1,313.34	0.00	0.00	6.83	2.1	329.7		433.01	0.00	0.00	2.25		10.35	18.92	83.84	86.68	12-Jun-19 18:00:00		**443.36**	**18.92**	**83.84**	**88.93**
12-Jun-19 19:00:00	12-Jun-19 20:00:00		1,444.31	0.00	0.00	6.87	2.1	329.7		476.19	0.00	0.00	2.26		10.35	18.92	83.84	86.68	12-Jun-19 19:00:00		**486.54**	**18.92**	**83.84**	**88.94**
12-Jun-19 20:00:00	12-Jun-19 21:00:00		1,528.49	0.00	0.00	6.92	2.1	329.7		503.94	0.00	0.00	2.28		10.35	18.92	83.84	86.68	12-Jun-19 20:00:00		**514.29**	**18.92**	**83.84**	**88.96**
12-Jun-19 21:00:00	12-Jun-19 22:00:00		1,511.78	0.00	0.00	6.95	2.1	329.7		498.43	0.00	0.00	2.29		10.35	18.92	83.84	86.68	12-Jun-19 21:00:00		**508.78**	**18.92**	**83.84**	**88.97**
12-Jun-19 22:00:00	12-Jun-19 23:00:00		1,526.95	0.00	0.00	6.99	2.1	329.7		503.44	0.00	0.00	2.31		10.35	18.92	83.84	86.68	12-Jun-19 22:00:00		**513.79**	**18.92**	**83.84**	**88.99**
12-Jun-19 23:00:00	13-Jun-19 00:00:00		1,546.07	0.00	0.00	6.99	2.1	329.7		509.74	0.00	0.00	2.31		10.35	18.92	83.84	86.68	12-Jun-19 23:00:00		**520.09**	**18.92**	**83.84**	**88.99**
13-Jun-19 00:00:00	13-Jun-19 01:00:00		1,543.73	0.00	0.00	6.84	2.1	329.7		508.97	0.00	0.00	2.26		10.35	18.92	83.84	86.68	13-Jun-19 00:00:00		**519.32**	**18.92**	**83.84**	**88.94**
13-Jun-19 01:00:00	13-Jun-19 02:00:00		1,340.05	0.00	0.00	6.67	2.1	329.7		441.82	0.00	0.00	2.20		10.35	18.92	83.84	86.68	13-Jun-19 01:00:00		**452.17**	**18.92**	**83.84**	**88.88**
13-Jun-19 02:00:00	13-Jun-19 03:00:00		1,277.61	0.00	0.00	6.50	2.1	329.7		421.23	0.00	0.00	2.14		10.35	18.92	83.84	86.68	13-Jun-19 02:00:00		**431.58**	**18.92**	**83.84**	**88.82**
13-Jun-19 03:00:00	13-Jun-19 04:00:00		812.25	0.00	0.00	6.42	2.1	329.7		267.80	0.00	0.00	2.12		10.35	18.92	83.84	86.68	13-Jun-19 03:00:00		**278.15**	**18.92**	**83.84**	**88.80**
13-Jun-19 04:00:00	13-Jun-19 05:00:00		763.61	0.00	0.00	6.55	2.1	329.7		251.76	0.00	0.00	2.16		10.35	18.92	83.84	86.68	13-Jun-19 04:00:00		**262.11**	**18.92**	**83.84**	**88.84**
13-Jun-19 05:00:00	13-Jun-19 06:00:00		3.15	0.00	0.00	6.68	2.1	329.7		1.04	0.00	0.00	2.20		10.35	18.92	83.84	86.68	13-Jun-19 05:00:00		**11.39**	**18.92**	**83.84**	**88.88**
13-Jun-19 06:00:00	13-Jun-19 07:00:00		8.23	0.00	0.00	6.82	2.1	329.7		2.71	0.00	0.00	2.25		10.35	18.92	83.84	86.68	13-Jun-19 06:00:00		**13.06**	**18.92**	**83.84**	**88.93**
13-Jun-19 07:00:00	13-Jun-19 08:00:00		2.14	0.00	0.00	6.93	2.1	329.7		0.70	0.00	0.00	2.28		10.35	18.92	83.84	86.68	13-Jun-19 07:00:00		**11.05**	**18.92**	**83.84**	**88.96**
13-Jun-19 08:00:00	13-Jun-19 09:00:00		1.87	0.00	0.00	6.94	2.1	329.7		0.62	0.00	0.00	2.29		10.35	18.92	83.84	86.68	13-Jun-19 08:00:00		**10.97**	**18.92**	**83.84**	**88.97**
13-Jun-19 09:00:00	13-Jun-19 10:00:00		2.25	0.00	0.00	6.94	2.1	329.7		0.74	0.00	0.00	2.29		10.35	18.92	83.84	86.68	13-Jun-19 09:00:00		**11.09**	**18.92**	**83.84**	**88.97**
13-Jun-19 10:00:00	13-Jun-19 11:00:00		2.60	0.00	0.00	6.95	2.1	329.7		0.86	0.00	0.00	2.29		10.35	18.92	83.84	86.68	13-Jun-19 10:00:00		**11.21**	**18.92**	**83.84**	**88.97**
13-Jun-19 11:00:00	13-Jun-19 12:00:00		3.53	0.00	0.00	6.88	2.1	329.7		1.16	0.00	0.00	2.27		10.35	18.92	83.84	86.68	13-Jun-19 11:00:00		**11.51**	**18.92**	**83.84**	**88.95**
13-Jun-19 12:00:00	13-Jun-19 13:00:00		15.10	0.00	0.00	6.62	2.1	329.7		4.98	0.00	0.00	2.18		10.35	18.92	83.84	86.68	13-Jun-19 12:00:00		**15.33**	**18.92**	**83.84**	**88.86**
13-Jun-19 13:00:00	13-Jun-19 14:00:00		20.27	0.00	0.00	6.36	2.1	329.7		6.68	0.00	0.00	2.10		10.35	18.92	83.84	86.68	13-Jun-19 13:00:00		**17.03**	**18.92**	**83.84**	**88.78**
13-Jun-19 14:00:00	13-Jun-19 15:00:00		14.08	0.00	0.00	6.09	2.1	329.7		4.64	0.00	0.00	2.01		10.35	18.92	83.84	86.68	13-Jun-19 14:00:00		**14.99**	**18.92**	**83.84**	**88.69**
13-Jun-19 15:00:00	13-Jun-19 16:00:00		18.87	0.00	0.00	5.94	2.1	329.7		6.22	0.00	0.00	1.96		10.35	18.92	83.84	86.68	13-Jun-19 15:00:00		**16.57**	**18.92**	**83.84**	**88.64**
13-Jun-19 16:00:00	13-Jun-19 17:00:00		18.82	0.00	0.00	5.92	2.1	329.7		6.20	0.00	0.00	1.95		10.35	18.92	83.84	86.68	13-Jun-19 16:00:00		**16.55**	**18.92**	**83.84**	**88.63**
13-Jun-19 17:00:00	13-Jun-19 18:00:00		27.38	0.00	0.00	5.88	2.1	329.7		9.03	0.00	0.00	1.94		10.35	18.92	83.84	86.68	13-Jun-19 17:00:00		**19.38**	**18.92**	**83.84**	**88.62**
13-Jun-19 18:00:00	13-Jun-19 19:00:00		12.88	0.00	0.00	5.84	2.1	329.7		4.25	0.00	0.00	1.93		10.35	18.92	83.84	86.68	13-Jun-19 18:00:00		**14.60**	**18.92**	**83.84**	**88.61**
13-Jun-19 19:00:00	13-Jun-19 20:00:00		9.48	0.00	0.00	5.87	2.1	329.7		3.13	0.00	0.00	1.94		10.35	18.92	83.84	86.68	13-Jun-19 19:00:00		**13.48**	**18.92**	**83.84**	**88.62**
13-Jun-19 20:00:00	13-Jun-19 21:00:00		11.19	0.00	0.00	5.99	2.1	329.7		3.69	0.00	0.00	1.98		10.35	18.92	83.84	86.68	13-Jun-19 20:00:00		**14.04**	**18.92**	**83.84**	**88.66**
13-Jun-19 21:00:00	13-Jun-19 22:00:00		25.90	0.00	0.00	6.10	2.1	329.7		8.54	0.00	0.00	2.01		10.35	18.92	83.84	86.68	13-Jun-19 21:00:00		**18.89**	**18.92**	**83.84**	**88.69**
13-Jun-19 22:00:00	13-Jun-19 23:00:00		23.57	123.20	0.00	6.21	2.1	329.7		7.77	40.62	0.00	2.05		10.35	18.92	83.84	86.68	13-Jun-19 22:00:00		**18.12**	**59.54**	**83.84**	**88.73**
13-Jun-19 23:00:00	14-Jun-19 00:00:00		18.32	254.31	0.00	6.34	2.1	329.7		6.04	83.85	0.00	2.09		10.35	18.92	83.84	86.68	13-Jun-19 23:00:00		**16.39**	**102.77**	**83.84**	**88.77**
14-Jun-19 00:00:00	14-Jun-19 01:00:00		17.43	256.44	0.00	6.45	2.1	329.7		5.75	84.55	0.00	2.13		10.35	18.92	83.84	86.68	14-Jun-19 00:00:00		**16.10**	**103.47**	**83.84**	**88.81**
14-Jun-19 01:00:00	14-Jun-19 02:00:00		19.72	253.90	0.00	6.55	2.1	329.7		6.50	83.71	0.00	2.16		10.35	18.92	83.84	86.68	14-Jun-19 01:00:00		**16.85**	**102.63**	**83.84**	**88.84**
14-Jun-19 02:00:00	14-Jun-19 03:00:00		16.96	253.20	0.00	6.65	2.1	329.7		5.59	83.48	0.00	2.19		10.35	18.92	83.84	86.68	14-Jun-19 02:00:00		**15.94**	**102.40**	**83.84**	**88.87**
14-Jun-19 03:00:00	14-Jun-19 04:00:00		20.66	253.16	0.00	6.85	2.1	329.7		6.81	83.47	0.00	2.26		10.35	18.92	83.84	86.68	14-Jun-19 03:00:00		**17.16**	**102.39**	**83.84**	**88.94**
14-Jun-19 04:00:00	14-Jun-19 05:00:00		22.49	256.03	0.00	6.96	2.1	329.7		7.42	84.41	0.00	2.30		10.35	18.92	83.84	86.68	14-Jun-19 04:00:00		**17.77**	**103.33**	**83.84**	**88.98**
14-Jun-19 05:00:00	14-Jun-19 06:00:00		15.15	253.78	0.00	7.01	2.1	329.7		5.00	83.67	0.00	2.31		10.35	18.92	83.84	86.68	14-Jun-19 05:00:00		**15.35**	**102.59**	**83.84**	**88.99**
14-Jun-19 06:00:00	14-Jun-19 07:00:00		11.57	252.18	0.00	7.05	2.1	329.7		3.81	83.14	0.00	2.32		10.35	18.92	83.84	86.68	14-Jun-19 06:00:00		**14.16**	**102.06**	**83.84**	**89.00**
14-Jun-19 07:00:00	14-Jun-19 08:00:00		2.00	252.54	0.00	6.93	2.1	329.7		0.66	83.26	0.00	2.28		10.35	18.92	83.84	86.68	14-Jun-19 07:00:00		**11.01**	**102.18**	**83.84**	**88.96**
14-Jun-19 08:00:00	14-Jun-19 09:00:00		0.99	255.46	0.00	6.62	2.1	329.7		0.32	84.22	0.00	2.18		10.35	18.92	83.84	86.68	14-Jun-19 08:00:00		**10.67**	**103.14**	**83.84**	**88.86**
14-Jun-19 09:00:00	14-Jun-19 10:00:00		4.59	259.73	0.00	6.35	2.1	329.7		1.51	85.63	0.00	2.09		10.35	18.92	83.84	86.68	14-Jun-19 09:00:00		**11.86**	**104.55**	**83.84**	**88.77**
14-Jun-19 10:00:00	14-Jun-19 11:00:00		15.50	260.25	0.00	6.08	2.1	329.7		5.11	85.80	0.00	2.01		10.35	18.92	83.84	86.68	14-Jun-19 10:00:00		**15.46**	**104.72**	**83.84**	**88.69**
14-Jun-19 11:00:00	14-Jun-19 12:00:00		1.11	260.77	0.00	5.86	2.1	329.7		0.37	85.97	0.00	1.93		10.35	18.92	83.84	86.68	14-Jun-19 11:00:00		**10.72**	**104.89**	**83.84**	**88.61**
14-Jun-19 12:00:00	14-Jun-19 13:00:00		1.89	261.29	0.00	5.93	2.1	329.7		0.62	86.15	0.00	1.96		10.35	18.92	83.84	86.68	14-Jun-19 12:00:00		**10.97**	**105.07**	**83.84**	**88.64**
14-Jun-19 13:00:00	14-Jun-19 14:00:00		0.03	261.81	0.00	6.05	2.1	329.7		0.01	86.32	0.00	1.99		10.35	18.92	83.84	86.68	14-Jun-19 13:00:00		**10.36**	**105.24**	**83.84**	**88.67**
14-Jun-19 14:00:00	14-Jun-19 15:00:00		0.00	263.06	0.00	6.16	2.1	329.7		0.00	86.73	0.00	2.03		10.35	18.92	83.84	86.68	14-Jun-19 14:00:00		**10.35**	**105.65**	**83.84**	**88.71**
14-Jun-19 15:00:00	14-Jun-19 16:00:00		0.00	264.45	0.00	6.05	2.1	329.7		0.00	87.19	0.00	1.99		10.35	18.92	83.84	86.68	14-Jun-19 15:00:00		**10.35**	**106.11**	**83.84**	**88.67**
14-Jun-19 16:00:00	14-Jun-19 17:00:00		0.00	263.68	0.00	5.79	2.1	329.7		0.00	86.94	0.00	1.91		10.35	18.92	83.84	86.68	14-Jun-19 16:00:00		**10.35**	**105.86**	**83.84**	**88.59**
14-Jun-19 17:00:00	14-Jun-19 18:00:00		9.32	262.91	0.00	5.65	2.1	329.7		3.07	86.68	0.00	1.86		10.35	18.92	83.84	86.68	14-Jun-19 17:00:00		**13.42**	**105.60**	**83.84**	**88.54**
14-Jun-19 18:00:00	14-Jun-19 19:00:00		19.52	259.34	0.00	5.51	2.1	329.7		6.44	85.51	0.00	1.82		10.35	18.92	83.84	86.68	14-Jun-19 18:00:00		**16.79**	**104.43**	**83.84**	**88.50**
14-Jun-19 19:00:00	14-J

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
16-Jun-19 21:00:00	16-Jun-19 22:00:00		28.29	33.49	365.87	5.28	2.1	329.7		9.33	11.04	120.63	1.74		10.35	18.92	83.84	86.68	16-Jun-19 21:00:00		19.68	29.96	204.47	88.42
16-Jun-19 22:00:00	16-Jun-19 23:00:00		26.49	0.00	365.94	5.53	2.1	329.7		8.73	0.00	120.65	1.82		10.35	18.92	83.84	86.68	16-Jun-19 22:00:00		19.08	18.92	204.49	88.50
16-Jun-19 23:00:00	17-Jun-19 00:00:00		19.49	0.00	366.32	51.67	2.1	329.7		6.43	0.00	120.78	17.04		10.35	18.92	83.84	86.68	16-Jun-19 23:00:00		16.78	18.92	204.62	103.72
17-Jun-19 00:00:00	17-Jun-19 01:00:00		30.68	0.00	367.09	5.88	2.1	329.7		10.11	0.00	121.03	1.94		10.35	18.92	83.84	86.68	17-Jun-19 00:00:00		20.46	18.92	204.87	88.62
17-Jun-19 01:00:00	17-Jun-19 02:00:00		31.46	0.00	367.60	5.97	2.1	329.7		10.37	0.00	121.20	1.97		10.35	18.92	83.84	86.68	17-Jun-19 01:00:00		20.72	18.92	205.04	88.65
17-Jun-19 02:00:00	17-Jun-19 03:00:00		25.65	0.00	368.11	28.23	2.1	329.7		8.46	0.00	121.37	9.31		10.35	18.92	83.84	86.68	17-Jun-19 02:00:00		18.81	18.92	205.21	95.99
17-Jun-19 03:00:00	17-Jun-19 04:00:00		33.13	0.00	368.62	6.09	2.1	329.7		10.92	0.00	121.53	2.01		10.35	18.92	83.84	86.68	17-Jun-19 03:00:00		21.27	18.92	205.37	88.69
17-Jun-19 04:00:00	17-Jun-19 05:00:00		33.81	0.00	371.66	101.36	2.1	329.7		11.15	0.00	122.54	33.42		10.35	18.92	83.84	86.68	17-Jun-19 04:00:00		21.50	18.92	206.38	120.10
17-Jun-19 05:00:00	17-Jun-19 06:00:00		35.34	0.00	374.71	51.90	2.1	329.7		11.65	0.00	123.54	17.11		10.35	18.92	83.84	86.68	17-Jun-19 05:00:00		22.00	18.92	207.38	103.79
17-Jun-19 06:00:00	17-Jun-19 07:00:00		33.47	0.00	376.12	6.26	2.1	329.7		11.03	0.00	124.01	2.07		10.35	18.92	83.84	86.68	17-Jun-19 06:00:00		21.38	18.92	207.85	88.75
17-Jun-19 07:00:00	17-Jun-19 08:00:00		25.20	28.23	374.14	6.18	2.1	329.7		8.31	9.31	123.35	2.04		10.35	18.92	83.84	86.68	17-Jun-19 07:00:00		18.66	28.23	207.19	88.72
17-Jun-19 08:00:00	17-Jun-19 09:00:00		15.30	73.44	358.80	10.05	2.1	329.7		5.05	24.21	118.30	3.31		10.35	18.92	83.84	86.68	17-Jun-19 08:00:00		15.40	43.13	202.14	89.99
17-Jun-19 09:00:00	17-Jun-19 10:00:00		4.78	0.00	311.86	19.96	2.1	329.7		1.58	0.00	102.82	6.58		10.35	18.92	83.84	86.68	17-Jun-19 09:00:00		11.93	18.92	186.66	93.26
17-Jun-19 10:00:00	17-Jun-19 11:00:00		18.83	0.00	341.19	5.67	2.1	329.7		6.21	0.00	112.49	1.87		10.35	18.92	83.84	86.68	17-Jun-19 10:00:00		16.56	18.92	196.33	88.55
17-Jun-19 11:00:00	17-Jun-19 12:00:00		40.09	0.00	343.39	5.53	2.1	329.7		13.22	0.00	113.22	1.82		10.35	18.92	83.84	86.68	17-Jun-19 11:00:00		23.57	18.92	197.06	88.50
17-Jun-19 12:00:00	17-Jun-19 13:00:00		32.49	0.00	340.23	15.44	2.1	329.7		10.71	0.00	112.17	5.09		10.35	18.92	83.84	86.68	17-Jun-19 12:00:00		21.06	18.92	196.01	91.77
17-Jun-19 13:00:00	17-Jun-19 14:00:00		40.73	0.00	347.44	5.12	2.1	329.7		13.43	0.00	114.55	1.69		10.35	18.92	83.84	86.68	17-Jun-19 13:00:00		23.78	18.92	198.39	88.37
17-Jun-19 14:00:00	17-Jun-19 15:00:00		44.55	0.00	363.95	68.55	2.1	329.7		14.69	0.00	119.99	22.60		10.35	18.92	83.84	86.68	17-Jun-19 14:00:00		25.04	18.92	203.83	109.28
17-Jun-19 15:00:00	17-Jun-19 16:00:00		46.61	0.00	372.13	87.65	2.1	329.7		15.37	0.00	122.69	28.90		10.35	18.92	83.84	86.68	17-Jun-19 15:00:00		25.72	18.92	206.53	115.58
17-Jun-19 16:00:00	17-Jun-19 17:00:00		46.74	0.00	373.45	5.48	2.1	329.7		15.41	0.00	123.13	1.81		10.35	18.92	83.84	86.68	17-Jun-19 16:00:00		25.76	18.92	206.97	88.49
17-Jun-19 17:00:00	17-Jun-19 18:00:00		38.17	0.00	147.26	5.56	2.1	329.7		12.58	0.00	48.55	1.83		10.35	18.92	83.84	86.68	17-Jun-19 17:00:00		22.93	18.92	132.39	88.51
17-Jun-19 18:00:00	17-Jun-19 19:00:00		35.48	0.00	0.00	6.56	2.1	329.7		11.70	0.00	0.00	2.16		10.35	18.92	83.84	86.68	17-Jun-19 18:00:00		22.05	18.92	83.84	88.84
17-Jun-19 19:00:00	17-Jun-19 20:00:00		32.84	0.00	0.43	5.61	2.1	329.7		10.83	0.00	0.14	1.85		10.35	18.92	83.84	86.68	17-Jun-19 19:00:00		21.18	18.92	83.98	88.53
17-Jun-19 20:00:00	17-Jun-19 21:00:00		27.86	0.00	0.00	5.65	2.1	329.7		9.19	0.00	0.00	1.86		10.35	18.92	83.84	86.68	17-Jun-19 20:00:00		19.54	18.92	83.84	88.54
17-Jun-19 21:00:00	17-Jun-19 22:00:00		28.25	0.00	0.00	5.69	2.1	329.7		9.31	0.00	0.00	1.88		10.35	18.92	83.84	86.68	17-Jun-19 21:00:00		19.66	18.92	83.84	88.56
17-Jun-19 22:00:00	17-Jun-19 23:00:00		27.85	0.00	0.00	6.57	2.1	329.7		9.18	0.00	0.00	2.16		10.35	18.92	83.84	86.68	17-Jun-19 22:00:00		19.53	18.92	83.84	88.84
17-Jun-19 23:00:00	18-Jun-19 00:00:00		31.74	975.16	206.98	5.87	2.1	329.7		10.46	321.51	68.24	1.93		10.35	18.92	83.84	86.68	17-Jun-19 23:00:00		20.81	340.43	152.08	88.61
18-Jun-19 00:00:00	18-Jun-19 01:00:00		46.66	1,396.29	0.00	8.22	2.1	329.7		15.38	460.36	0.00	2.71		10.35	18.92	83.84	86.68	18-Jun-19 00:00:00		25.73	479.28	83.84	89.39
18-Jun-19 01:00:00	18-Jun-19 02:00:00		34.01	1,156.85	0.00	34.50	2.1	329.7		11.21	381.41	0.00	21.38		10.35	18.92	83.84	86.68	18-Jun-19 01:00:00		21.56	400.33	83.84	98.06
18-Jun-19 02:00:00	18-Jun-19 03:00:00		70.12	1,128.13	0.00	5.70	2.1	329.7		23.12	371.95	0.00	1.88		10.35	18.92	83.84	86.68	18-Jun-19 02:00:00		33.47	390.87	83.84	88.56
18-Jun-19 03:00:00	18-Jun-19 04:00:00		62.10	1,108.66	0.00	5.78	2.1	329.7		20.47	365.53	0.00	1.91		10.35	18.92	83.84	86.68	18-Jun-19 03:00:00		30.82	384.45	83.84	88.59
18-Jun-19 04:00:00	18-Jun-19 05:00:00		39.63	1,103.19	0.00	27.48	2.1	329.7		13.07	363.72	0.00	9.06		10.35	18.92	83.84	86.68	18-Jun-19 04:00:00		23.42	382.64	83.84	95.74
18-Jun-19 05:00:00	18-Jun-19 06:00:00		53.69	1,107.18	0.00	5.99	2.1	329.7		17.70	365.04	0.00	1.97		10.35	18.92	83.84	86.68	18-Jun-19 05:00:00		28.05	383.96	83.84	88.65
18-Jun-19 06:00:00	18-Jun-19 07:00:00		44.14	1,106.95	0.00	6.11	2.1	329.7		14.55	364.96	0.00	2.01		10.35	18.92	83.84	86.68	18-Jun-19 06:00:00		24.90	383.88	83.84	88.69
18-Jun-19 07:00:00	18-Jun-19 08:00:00		59.13	1,105.75	0.00	12.63	2.1	329.7		19.50	364.57	0.00	4.16		10.35	18.92	83.84	86.68	18-Jun-19 07:00:00		29.85	383.49	83.84	90.84
18-Jun-19 08:00:00	18-Jun-19 09:00:00		61.14	1,107.71	0.00	6.28	2.1	329.7		20.16	365.21	0.00	2.07		10.35	18.92	83.84	86.68	18-Jun-19 08:00:00		30.51	384.13	83.84	88.75
18-Jun-19 09:00:00	18-Jun-19 10:00:00		69.87	1,054.28	0.00	6.00	2.1	329.7		23.03	347.60	0.00	1.98		10.35	18.92	83.84	86.68	18-Jun-19 09:00:00		33.38	366.52	83.84	88.66
18-Jun-19 10:00:00	18-Jun-19 11:00:00		40.89	1,007.48	0.00	5.71	2.1	329.7		13.48	332.17	0.00	1.88		10.35	18.92	83.84	86.68	18-Jun-19 10:00:00		23.83	351.09	83.84	88.56
18-Jun-19 11:00:00	18-Jun-19 12:00:00		21.38	1,006.58	0.00	13.45	2.1	329.7		7.05	331.87	0.00	4.43		10.35	18.92	83.84	86.68	18-Jun-19 11:00:00		17.40	350.79	83.84	91.11
18-Jun-19 12:00:00	18-Jun-19 13:00:00		42.30	1,007.18	0.00	5.45	2.1	329.7		13.95	332.07	0.00	1.80		10.35	18.92	83.84	86.68	18-Jun-19 12:00:00		24.30	350.99	83.84	88.48
18-Jun-19 13:00:00	18-Jun-19 14:00:00		31.93	1,007.83	0.00	5.32	2.1	329.7		10.53	332.28	0.00	1.75		10.35	18.92	83.84	86.68	18-Jun-19 13:00:00		20.88	351.20	83.84	88.43
18-Jun-19 14:00:00	18-Jun-19 15:00:00		16.98	1,007.37	0.00	11.74	2.1	329.7		5.60	332.13	0.00	3.87		10.35	18.92	83.84	86.68	18-Jun-19 14:00:00		15.95	351.05	83.84	90.55
18-Jun-19 15:00:00	18-Jun-19 16:00:00		12.44	1,007.86	0.00	5.45	2.1	329.7		4.10	332.29	0.00	1.80		10.35	18.92	83.84	86.68	18-Jun-19 15:00:00		14.45	351.21	83.84	88.48
18-Jun-19 16:00:00	18-Jun-19 17:00:00		1.95	1,009.51	0.00	5.33	2.1	329.7		0.64	332.83	0.00	1.76		10.35	18.92	83.84	86.68	18-Jun-19 16:00:00		10.99	351.75	83.84	88.44
18-Jun-19 17:00:00	18-Jun-19 18:00:00		2.16	980.87	0.00	26.82	2.1	329.7		0.71	323.39	0.00	8.84		10.35	18.92	83.84	86.68	18-Jun-19 17:00:00		11.06	342.31	83.84	95.52
18-Jun-19 18:00:00	18-Jun-19 19:00:00		2.57	400.35	0.00	5.38	2.1	329.7		0.85	131.99	0.00	1.77		10.35	18.92	83.84	86.68	18-Jun-19 18:00:00		11.20	150.91	83.84	88.45
18-Jun-19 19:00:00	18-Jun-19 20:00:00		3.32	0.00	0.00	5.31	2.1	329.7		1.09	0.00	0.00	1.75		10.35	18.92	83.84	86.68	18-Jun-19 19:00:00		11.44	18.92	83.84	88.43
18-Jun-19 20:00:00	18-Jun-19 21:00:00		4.07	0.00	0.00	24.42	2.1	329.7		1.34	0.00	0.00	8.05		10.35	18.92	83.84	86.68	18-Jun-19 20:00:00		11.69	18.92	83.84	94.73
18-Jun-19 21:00:00	18-Jun-19 22:00:00		5.23	0.00	0.00	5.54	2.1	329.7		1.72	0.00	0.00	1.83		10.35	18.92	83.84	86.68	18-Jun-19 21:00:00		12.07	18.92	83.84	88.51
18-Jun-19 22:00:00	18-Jun-19 23:00:00		13.02	0.00	0.00	5.68	2.1	329.7		4.29	0.00	0.00	1.87		10.35	18.92	83.84	86.68	18-Jun-19 22:00:00		14.64	18.92	83.84	88.55
18-Jun-19 23:00:00	19-Jun-19 00:00:00		4.33	0.00	0.00	69.19	2.1	329.7		1.43	0.00	0.00	22.81		10.35	18.92	83.84	86.68	18-Jun-19 23:00:00		11.78	18.92	83.84	109.49
19-Jun-19 00:00:00	19-Jun-19 01:00:00		5.73	0.00	0.00	6.05	2.1	329.7		1.89	0.00	0.00	1.99		10.35	18.92	83.84	86.68	19-Jun-19 00:00:00		12.24	18.92	83.84	88.67
19-Jun-19 01:00:00	19-Jun-19 02:00:00		32.73	0.00	0.00	6.19	2.1	329.7		10.79	0.00	0.00	2.04		10.35	18.92	83.84	86.68	19-Jun-19 01:00:00		21.14	18.92	83.84	88.72
19-Jun-19 02:00:00	19-Jun-19 03:00:00		47.00	0.00	0.00	7.79	2.1	329.7		15.50	0.00	0.00	2.57		10.35	18.92	83.84	86.68	19-Jun-19 02:00:00		25.85	18.92	83.84	89.25
19-Jun-19 03:00:00	19-Jun-19 04:00:00		98.64	0.00	0.00	6.47	2.1	329.7		32.52	0.00	0.00	2.13		10.35	18.92	83.84	86.68	19-Jun-19 03:00:00		42.87	18.92	83.84	88.81
19-Jun-19 04:00:00	19-Jun-19 05:00:00		88.45	0.00	0.00	6.42	2.1	329.7		29.16	0.00	0.00	2.12		10.35	18.92	83.84	86.68	19-Jun-19 04:00:00		39.51	18.92	83.84	88.80
19-Jun-19 05:00:00	19-Jun-19 06:00:00		86.97	0.00	0.00	72.99	2.1	329.7		28.67	0.00	0.00	24.06		10.35	18.92	83.84	86.68	19-Jun-19 05:00:00		39.02	18.92	83.84	110.74
19-Jun-19 06:00:00	19-Jun-19 07:00:00		42.90	0.00	0.00	6.21	2.1	329.7		14.15	0.00	0.00	2.05		10.35	18.92	83.84	86.68	19-Jun-19 06:00:00		24.50	18.92	83.84	88.73
19-Jun-19 07:00:00	19-Jun-19 08:00:00		69.16	0.00	0.00	6.19	2.1	329.7		22.80	0.00	0.00	2.04		10.35	18.92	83.84	86.68	19-Jun-19 07:00:00		33.15	18.92	83.84	88.72
19-Jun-19 08:00:00	19-Jun-19 09:00:00		29.69	0.00	0.00	28.22	2.1	329.7		9.79	0.00	0.00	9.30		10.35	18.92	83.84	86.68	19-Jun-19 08:00:00		20.14	18.92	83.84	95.98
19-Jun-19 09:00:00	19-Jun-19 10:00:00		26.06	34.74	0.00	6.30	2.1	329.7		8.59	11.45	0.00	2.08		10.35	18.92	83.84	86.68	19-Jun-19 09:00:00		18.94	30.37	83.84	88.76
19-Jun-19 10:00:00	19-Jun-19 11:00:00		25.94	0.00	0.00	6.73	2.1	329.7		8.55	0.00	0.00	2.22		10.35	18.92	83.84	86.68	19-Jun-19 10:00:00		18.90	18.92	83.84	88.90
19-Jun-19 11:00:00	19-Jun-19 12:00:00		25.81	0.00	0.00	7.68	2.1	329.7		8.51	0.00	0.00	2.53		10.35	18.92	83.84	86.68	19-Jun-19 11:00:00		18.86	18.92	83.84	89.21
19-Jun-19 12:00:00	19-Jun-19 13:00:00		25.19	0.00	0.00	6.12	2.1	329.7		8.31	0.00	0.00	2.02		10.35	18.92	83.84	86.68	19-Jun-19 12:00:00		18.66	18.92	83.84	88.70
19-Jun-19 13:00:00	19-Jun-19 14:00:00		24.71	0.00	0.00	121.81	2.1	329.7		8.15	0.00	0.00	40.16		10.35	18.92	83.84	86.68	19-Jun-19 13:00:00		18.50	18.92	83.84	126.84
19-Jun-19 14:00:00	19-Jun-19 15:00:00		39.36	0.00	0.00	9.95	2.1	329.7		12.98	0.00	0.00	3.28		10.35	18.92	83.84	86.68	19-Jun-19 14:00:00		23.33	18.92	83.84	89.96
19-Jun-19 15:00:00	19-Jun-19 16:00:00		33.62	0.00	0.00	5.66	2.1	329.7		11.09	0.00	0.00	1.87		10.35	18.92	83.84	86.68	19-Jun-19 15:00:00		21.44	18.92	83.84	88.55
19-Jun-19 16:00:00	19-Jun-19 17:00:00		22.52	0.00	0.00	76.95	2.1	329.7		7.42	0.00	0.00	25.37		10.35	18.92	83.84	86.68	19-Jun-19 16:00:00		17.77	18.92	83.84	112.05
19-Jun-19 17:00:00	19-Jun-19 18:00:00		16.75	0.00	0.00	5.64	2.1	329.7		5.52	0.00	0.00	1.86		10.35	18.92	83.84	86.68	19-Jun-19 17:00:00		15.87	18.92	83.84	88.54
19-Jun-19 18:00:00	19-Jun-19 19:00:00		13.67	0.00	0.00	5.50	2.1	329.7		4.51	0.00	0.00	1.81		10.35	18.92	83.84	86.68	19-Jun-19 18:00:00		14.86	18.92	83.84	88.49
19-Jun-19 19:00:00	19-Jun-19 20:00:00		3.91	0.00	0.00	21.50	2.1	329.7		1.29	0.00	0.00	7.09		10.35	18.92	83.84	86.68	19-Jun-19 19:00:00		11.64	18.92	83.84	93.77
19-Jun-19 20:00:00	19-Jun-19 21:00:00		3.91	0.00	0.00	5.35	2.1	329.7		1.29	0.00	0.00	1.76		10.35	18.92	83.84	86.68	19-Jun-19 20:00:00		11.64	18.92	83.84	88.44
19-Jun-19 21:00:00	19-Jun-19 22:00:00		3.92	0.00	0.00	5.48	2.1	329.7		1.29	0.00	0.00	1.81		10.35	18.92	83.84	86.68	19-Jun-19 21:00:00		11.64	18.92	83.84	88.49
19-Jun-19 22:00:00	19-Jun-19 23:00:00		3.19	0.00	0.00	11.59	2.1	329.7		1.05	0.00	0.00	3.82		10.35	18.92	83.84	86.68	19-Jun-19 22:00:00		11.40	18.92	83.84	90.50
19-Jun-19 23:00:00	20-Jun-19 00:00:00		0.15	0.00	0.00	5.94	2.1	329.7		0.05	0.00	0.00	1.96		10.35	18.92	83.84	86.68	19-Jun-19 23:00:00		10.40	18.92	83.84	88.64
20-Jun-19 00:00:00	20-Jun-19 01:00:00		2.11	0.00	0.00	6.26	2.1	329.7		0.69	0.00	0.00	2.06		10.35	18.92	83.84	86.68	20-Jun-19 00:00:00		11.04	18.92	83.84	88.74
20-Jun-19 01:00:00	20-Jun-19 02:00:00		8.78	0.00	0.00	6.57	2.1	329.7		2.90	0.00	0.00	2.17		10.35	18.92	83.84	86.68	20-Jun-19 01:00:00		13.25	18.92	83.84	88.85
20-Jun-19 02:00:00	20-Jun-19 03:00:00		38.59	0.00	0.00	24.91	2.1	329.7		12.72	0.00	0.00	8.21		10.35	18.92	83.84	86.68	20-Jun-19 02:00:00		23.07	18.92	83.84	94.89
20-Jun-19 03:00:00	20-Jun-19 04:00:00		44.27	0.00	0.00	6.74	2.1	329.7		14.60	0.00	0.00	2.22		10.35	18.92	83.84	86.68	20-Jun-19 03:00:00		24.95	18.92	83.84	88.90
20-Jun-19 04:00:00	20-Jun-19 05:00:00		69.01	0.00	0.00	6.51	2.1	329.7		22.75	0.00	0.00	2.15		10.35	18.92	83.84	86.68	20-Jun-19 04:00:00		33.10	18.92	83.84	88.83
20-Jun-19 05:00:00	20-Jun-19 06:00:00		67.85	0.00	0.00	28.56	2.1	329.7		22.37	0.00	0.00	9.42		10.35	18.92	83.84	86.68	20-Jun-19 05:00:00		32.72	18.92	83.84	96.10
20-Jun-19 06:00:00	20-Jun-19 07:00:00		66.49	0.00	0.00	6.18	2.1	329.7		21.92	0.00	0.00	2.04		10.35	18.92	83.84	86.68	20-Jun-19 06:00:00		32.27	18.92	83.84	88.72
20-Jun-19 07:00:00	20-Jun-19 08:00:00		65.18	0.00	0.00	6.20	2.1	329.7		21.49	0.00	0.00	2.04		10.35	18.92	83.84	86.68	20-Jun-19 07:00:00		31.84	18.92	83.84	88.72
20-Jun-19 08:00:00	20-Jun-19 09:00:00		63.70	0.00	0.00	10.01	2.1	329.7		21.00	0.00	0.00	3.30		10.35	18.92	83.84	86.68	20-Jun-19 08:00:00		31.35	18.92	83.84	89.98
20-Jun-19 09:00:00	20-Jun-19 10:00:00		59.25	0.00	0.00	6.14	2.1	329.7		19.53	0.00	0.00	2.02		10.35	18.92	83.84	86.68	20-Jun-19 09:00:00		29.88	18.92	83.84	88.70
20-Jun-19 10:00:00	20-Jun-19 11:00:00		53.14	0.00	0.00	6.03	2.1	329.7		17.52	0.00	0.00	1.99		10.35	18.92	83.84	86.68	20-Jun-19 10:00:00		27.87	18.92	83.84	88.67
20-Jun-19 11:00:00	20-Jun-19 12:00:00		1,126.82	0.00	0.00	5.92	2.1	329.7		371.51	0.00	0.00	1.95		10.35	18.92	83.84	86.68	20-Jun-19 11:00:00		381.86	18.92	83.84	88.63
20-Jun-19 12:00:00	20-Jun-19 13:00:00		1,379.66	0.00	0.00	5.81	2.1	329.7		454.87	0.00	0.00	1.91		10.35	18.92	83.84	86.68	20-Jun-19 12:00:00		465.22	18.92	83.84	88.59
20-Jun-19 13:00:00	20-Jun-19 14:00:00		1,382.26	0.00	0.00	5.72	2.1	329.7		455.73	0.00	0.00	1.88		10.35	18.92	83.84	86.68	20-Jun-19 13:00:00		466.08	18.92	83.84	88.56
20-Jun-19 14:00:00	20-Jun-19 15:00:00		1,377.17	0.00	0.00	5.69	2.1	329.7		454.05	0.00	0.00	1.88		10.35	18.92	83.84	86.68	20-Jun-19 14:00:00		464.40	18.92	83.84	88.56
20-Jun-19 15:00:00	20-Jun-19 16:00:00		1,375.85	0.00	0.00	5.67	2.1	329.7		453.62	0.00	0.00	1.87		10.35	18.92	83.84	86.68	20-Jun-19 15:00:00		463.97	18.92	83.84	88.55
20-Jun-19 16:00:00	20-Jun-19 17:00:00		1,384.35	0.00	0.00	5.64	2.1	329.7		456.42	0.00	0.00	1.86		10.35	18.92	83.84	86.68	20-Jun-19 16:00:00		466.77	18.92	83.84	88.54
20-Jun-19 17:00:00	20-Jun-19 18:00:00		1,262.28	0.00	0.00	5.60	2.1	329.7		416.17	0.00	0.00	1.85		10.35	18.92	83.84	86.68	20-Jun-19 17:00:00		426.52	18.92	83.84	88.53
20-Jun

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
22-Jun-19 20:00:00	22-Jun-19 21:00:00		1,483.60	0.00	0.00	6.63	2.1	329.7		489.14	0.00	0.00	2.19		10.35	18.92	83.84	86.68	22-Jun-19 20:00:00		499.49	18.92	83.84	88.87
22-Jun-19 21:00:00	22-Jun-19 22:00:00		1,485.47	0.00	0.00	6.50	2.1	329.7		489.76	0.00	0.00	2.14		10.35	18.92	83.84	86.68	22-Jun-19 21:00:00		500.11	18.92	83.84	88.82
22-Jun-19 22:00:00	22-Jun-19 23:00:00		1,505.06	0.00	0.00	6.37	2.1	329.7		496.22	0.00	0.00	2.10		10.35	18.92	83.84	86.68	22-Jun-19 22:00:00		506.57	18.92	83.84	88.78
22-Jun-19 23:00:00	23-Jun-19 00:00:00		1,463.49	0.00	0.00	6.33	2.1	329.7		482.51	0.00	0.00	2.09		10.35	18.92	83.84	86.68	22-Jun-19 23:00:00		492.86	18.92	83.84	88.77
23-Jun-19 00:00:00	23-Jun-19 01:00:00		1,474.21	0.00	0.00	6.30	2.1	329.7		486.05	0.00	0.00	2.08		10.35	18.92	83.84	86.68	23-Jun-19 00:00:00		496.40	18.92	83.84	88.76
23-Jun-19 01:00:00	23-Jun-19 02:00:00		1,475.36	0.00	0.00	6.28	2.1	329.7		486.43	0.00	0.00	2.07		10.35	18.92	83.84	86.68	23-Jun-19 01:00:00		496.78	18.92	83.84	88.75
23-Jun-19 02:00:00	23-Jun-19 03:00:00		1,481.17	0.00	0.00	6.20	2.1	329.7		488.34	0.00	0.00	2.05		10.35	18.92	83.84	86.68	23-Jun-19 02:00:00		498.69	18.92	83.84	88.73
23-Jun-19 03:00:00	23-Jun-19 04:00:00		1,483.96	0.00	0.00	6.18	2.1	329.7		489.26	0.00	0.00	2.04		10.35	18.92	83.84	86.68	23-Jun-19 03:00:00		499.61	18.92	83.84	88.72
23-Jun-19 04:00:00	23-Jun-19 05:00:00		1,484.78	0.00	0.00	6.25	2.1	329.7		489.53	0.00	0.00	2.06		10.35	18.92	83.84	86.68	23-Jun-19 04:00:00		499.88	18.92	83.84	88.74
23-Jun-19 05:00:00	23-Jun-19 06:00:00		1,480.32	0.00	0.00	6.31	2.1	329.7		488.06	0.00	0.00	2.08		10.35	18.92	83.84	86.68	23-Jun-19 05:00:00		498.41	18.92	83.84	88.76
23-Jun-19 06:00:00	23-Jun-19 07:00:00		1,474.48	0.00	0.00	6.36	2.1	329.7		486.14	0.00	0.00	2.10		10.35	18.92	83.84	86.68	23-Jun-19 06:00:00		496.49	18.92	83.84	88.78
23-Jun-19 07:00:00	23-Jun-19 08:00:00		1,474.89	0.00	0.00	6.35	2.1	329.7		486.27	0.00	0.00	2.09		10.35	18.92	83.84	86.68	23-Jun-19 07:00:00		496.62	18.92	83.84	88.77
23-Jun-19 08:00:00	23-Jun-19 09:00:00		1,483.89	0.00	0.00	6.36	2.1	329.7		489.24	0.00	0.00	2.10		10.35	18.92	83.84	86.68	23-Jun-19 08:00:00		499.59	18.92	83.84	88.78
23-Jun-19 09:00:00	23-Jun-19 10:00:00		1,492.74	0.00	0.00	6.37	2.1	329.7		492.16	0.00	0.00	2.10		10.35	18.92	83.84	86.68	23-Jun-19 09:00:00		502.51	18.92	83.84	88.78
23-Jun-19 10:00:00	23-Jun-19 11:00:00		1,497.97	0.00	0.00	6.38	2.1	329.7		493.88	0.00	0.00	2.10		10.35	18.92	83.84	86.68	23-Jun-19 10:00:00		504.23	18.92	83.84	88.78
23-Jun-19 11:00:00	23-Jun-19 12:00:00		1,514.77	0.00	0.00	6.32	2.1	329.7		499.42	0.00	0.00	2.08		10.35	18.92	83.84	86.68	23-Jun-19 11:00:00		509.77	18.92	83.84	88.76
23-Jun-19 12:00:00	23-Jun-19 13:00:00		1,504.98	0.00	0.00	6.22	2.1	329.7		496.19	0.00	0.00	2.05		10.35	18.92	83.84	86.68	23-Jun-19 12:00:00		506.54	18.92	83.84	88.73
23-Jun-19 13:00:00	23-Jun-19 14:00:00		1,437.34	0.00	0.00	6.13	2.1	329.7		473.89	0.00	0.00	2.02		10.35	18.92	83.84	86.68	23-Jun-19 13:00:00		484.24	18.92	83.84	88.70
23-Jun-19 14:00:00	23-Jun-19 15:00:00		1,187.91	0.00	0.00	6.03	2.1	329.7		391.65	0.00	0.00	1.99		10.35	18.92	83.84	86.68	23-Jun-19 14:00:00		402.00	18.92	83.84	88.67
23-Jun-19 15:00:00	23-Jun-19 16:00:00		374.21	0.00	0.00	5.87	2.1	329.7		123.38	0.00	0.00	1.93		10.35	18.92	83.84	86.68	23-Jun-19 15:00:00		133.73	18.92	83.84	88.61
23-Jun-19 16:00:00	23-Jun-19 17:00:00		24.64	0.00	0.00	5.69	2.1	329.7		8.12	0.00	0.00	1.88		10.35	18.92	83.84	86.68	23-Jun-19 16:00:00		18.47	18.92	83.84	88.56
23-Jun-19 17:00:00	23-Jun-19 18:00:00		12.21	0.00	0.00	5.52	2.1	329.7		4.03	0.00	0.00	1.82		10.35	18.92	83.84	86.68	23-Jun-19 17:00:00		14.38	18.92	83.84	88.50
23-Jun-19 18:00:00	23-Jun-19 19:00:00		12.02	0.00	0.00	100.95	2.1	329.7		3.96	0.00	0.00	33.28		10.35	18.92	83.84	86.68	23-Jun-19 18:00:00		14.31	18.92	83.84	119.96
23-Jun-19 19:00:00	23-Jun-19 20:00:00		12.65	0.00	0.00	5.21	2.1	329.7		4.17	0.00	0.00	1.72		10.35	18.92	83.84	86.68	23-Jun-19 19:00:00		14.52	18.92	83.84	88.40
23-Jun-19 20:00:00	23-Jun-19 21:00:00		13.27	0.00	0.00	6.59	2.1	329.7		4.37	0.00	0.00	2.17		10.35	18.92	83.84	86.68	23-Jun-19 20:00:00		14.72	18.92	83.84	88.85
23-Jun-19 21:00:00	23-Jun-19 22:00:00		13.65	0.00	0.00	5.59	2.1	329.7		4.50	0.00	0.00	1.84		10.35	18.92	83.84	86.68	23-Jun-19 21:00:00		14.85	18.92	83.84	88.52
23-Jun-19 22:00:00	23-Jun-19 23:00:00		12.99	0.00	0.00	5.77	2.1	329.7		4.28	0.00	0.00	1.90		10.35	18.92	83.84	86.68	23-Jun-19 22:00:00		14.63	18.92	83.84	88.58
23-Jun-19 23:00:00	24-Jun-19 00:00:00		12.20	0.00	0.00	8.76	2.1	329.7		4.02	0.00	0.00	2.89		10.35	18.92	83.84	86.68	23-Jun-19 23:00:00		14.37	18.92	83.84	89.57
24-Jun-19 00:00:00	24-Jun-19 01:00:00		11.43	0.00	0.00	6.43	2.1	329.7		3.77	0.00	0.00	2.12		10.35	18.92	83.84	86.68	24-Jun-19 00:00:00		14.12	18.92	83.84	88.80
24-Jun-19 01:00:00	24-Jun-19 02:00:00		11.34	0.00	0.00	6.11	2.1	329.7		3.74	0.00	0.00	2.02		10.35	18.92	83.84	86.68	24-Jun-19 01:00:00		14.09	18.92	83.84	88.70
24-Jun-19 02:00:00	24-Jun-19 03:00:00		16.13	0.00	0.00	19.54	2.1	329.7		5.32	0.00	0.00	6.44		10.35	18.92	83.84	86.68	24-Jun-19 02:00:00		15.67	18.92	83.84	93.12
24-Jun-19 03:00:00	24-Jun-19 04:00:00		24.21	0.00	0.00	6.14	2.1	329.7		7.98	0.00	0.00	2.02		10.35	18.92	83.84	86.68	24-Jun-19 03:00:00		18.33	18.92	83.84	88.70
24-Jun-19 04:00:00	24-Jun-19 05:00:00		14.55	0.00	0.00	6.24	2.1	329.7		4.80	0.00	0.00	2.06		10.35	18.92	83.84	86.68	24-Jun-19 04:00:00		15.15	18.92	83.84	88.74
24-Jun-19 05:00:00	24-Jun-19 06:00:00		18.55	0.00	0.00	37.18	2.1	329.7		6.12	0.00	0.00	12.26		10.35	18.92	83.84	86.68	24-Jun-19 05:00:00		16.47	18.92	83.84	98.94
24-Jun-19 06:00:00	24-Jun-19 07:00:00		20.10	0.00	0.00	6.30	2.1	329.7		6.63	0.00	0.00	2.08		10.35	18.92	83.84	86.68	24-Jun-19 06:00:00		16.98	18.92	83.84	88.76
24-Jun-19 07:00:00	24-Jun-19 08:00:00		20.21	0.00	0.00	6.26	2.1	329.7		6.66	0.00	0.00	2.06		10.35	18.92	83.84	86.68	24-Jun-19 07:00:00		17.01	18.92	83.84	88.74
24-Jun-19 08:00:00	24-Jun-19 09:00:00		19.48	0.00	0.00	14.05	2.1	329.7		6.42	0.00	0.00	4.63		10.35	18.92	83.84	86.68	24-Jun-19 08:00:00		16.77	18.92	83.84	91.31
24-Jun-19 09:00:00	24-Jun-19 10:00:00		17.70	0.00	0.00	7.06	2.1	329.7		5.84	0.00	0.00	2.33		10.35	18.92	83.84	86.68	24-Jun-19 09:00:00		16.19	18.92	83.84	89.01
24-Jun-19 10:00:00	24-Jun-19 11:00:00		13.67	0.00	0.00	84.87	2.1	329.7		4.51	0.00	0.00	27.98		10.35	18.92	83.84	86.68	24-Jun-19 10:00:00		14.86	18.92	83.84	114.66
24-Jun-19 11:00:00	24-Jun-19 12:00:00		35.04	0.00	0.00	43.63	2.1	329.7		11.55	0.00	0.00	14.38		10.35	18.92	83.84	86.68	24-Jun-19 11:00:00		21.90	18.92	83.84	101.06
24-Jun-19 12:00:00	24-Jun-19 13:00:00		27.30	0.00	0.00	5.57	2.1	329.7		9.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	24-Jun-19 12:00:00		19.35	18.92	83.84	88.52
24-Jun-19 13:00:00	24-Jun-19 14:00:00		26.09	0.00	0.00	10.97	2.1	329.7		8.60	0.00	0.00	3.62		10.35	18.92	83.84	86.68	24-Jun-19 13:00:00		18.95	18.92	83.84	90.30
24-Jun-19 14:00:00	24-Jun-19 15:00:00		29.62	0.00	0.00	7.16	2.1	329.7		9.76	0.00	0.00	2.36		10.35	18.92	83.84	86.68	24-Jun-19 14:00:00		20.11	18.92	83.84	89.04
24-Jun-19 15:00:00	24-Jun-19 16:00:00		21.82	0.00	0.00	5.05	2.1	329.7		7.19	0.00	0.00	1.66		10.35	18.92	83.84	86.68	24-Jun-19 15:00:00		17.54	18.92	83.84	88.34
24-Jun-19 16:00:00	24-Jun-19 17:00:00		4.37	0.00	0.00	4.98	2.1	329.7		1.44	0.00	0.00	1.64		10.35	18.92	83.84	86.68	24-Jun-19 16:00:00		11.79	18.92	83.84	88.32
24-Jun-19 17:00:00	24-Jun-19 18:00:00		6.82	0.00	0.00	18.65	2.1	329.7		2.25	0.00	0.00	6.15		10.35	18.92	83.84	86.68	24-Jun-19 17:00:00		12.60	18.92	83.84	92.83
24-Jun-19 18:00:00	24-Jun-19 19:00:00		9.40	0.00	0.00	4.94	2.1	329.7		3.10	0.00	0.00	1.63		10.35	18.92	83.84	86.68	24-Jun-19 18:00:00		13.45	18.92	83.84	88.31
24-Jun-19 19:00:00	24-Jun-19 20:00:00		18.29	0.00	0.00	5.09	2.1	329.7		6.03	0.00	0.00	1.68		10.35	18.92	83.84	86.68	24-Jun-19 19:00:00		16.38	18.92	83.84	88.36
24-Jun-19 20:00:00	24-Jun-19 21:00:00		29.56	0.00	0.00	5.24	2.1	329.7		9.74	0.00	0.00	1.73		10.35	18.92	83.84	86.68	24-Jun-19 20:00:00		20.09	18.92	83.84	88.41
24-Jun-19 21:00:00	24-Jun-19 22:00:00		25.99	0.00	0.00	43.34	2.1	329.7		8.57	0.00	0.00	14.29		10.35	18.92	83.84	86.68	24-Jun-19 21:00:00		18.92	18.92	83.84	100.97
24-Jun-19 22:00:00	24-Jun-19 23:00:00		23.79	0.00	0.00	5.89	2.1	329.7		7.84	0.00	0.00	1.94		10.35	18.92	83.84	86.68	24-Jun-19 22:00:00		18.19	18.92	83.84	88.62
24-Jun-19 23:00:00	25-Jun-19 00:00:00		32.38	0.00	0.00	6.36	2.1	329.7		10.67	0.00	0.00	2.10		10.35	18.92	83.84	86.68	24-Jun-19 23:00:00		21.02	18.92	83.84	88.78
25-Jun-19 00:00:00	25-Jun-19 01:00:00		23.52	0.00	0.00	37.78	2.1	329.7		7.75	0.00	0.00	12.45		10.35	18.92	83.84	86.68	25-Jun-19 00:00:00		18.10	18.92	83.84	99.13
25-Jun-19 01:00:00	25-Jun-19 02:00:00		9.93	0.00	0.00	6.52	2.1	329.7		3.27	0.00	0.00	2.15		10.35	18.92	83.84	86.68	25-Jun-19 01:00:00		13.62	18.92	83.84	88.83
25-Jun-19 02:00:00	25-Jun-19 03:00:00		10.81	0.00	0.00	6.44	2.1	329.7		3.56	0.00	0.00	2.12		10.35	18.92	83.84	86.68	25-Jun-19 02:00:00		13.91	18.92	83.84	88.80
25-Jun-19 03:00:00	25-Jun-19 04:00:00		21.16	0.00	0.00	37.76	2.1	329.7		6.98	0.00	0.00	12.45		10.35	18.92	83.84	86.68	25-Jun-19 03:00:00		17.33	18.92	83.84	99.13
25-Jun-19 04:00:00	25-Jun-19 05:00:00		33.93	0.00	0.00	6.47	2.1	329.7		11.19	0.00	0.00	2.13		10.35	18.92	83.84	86.68	25-Jun-19 04:00:00		21.54	18.92	83.84	88.81
25-Jun-19 05:00:00	25-Jun-19 06:00:00		26.94	0.00	0.00	6.43	2.1	329.7		8.88	0.00	0.00	2.12		10.35	18.92	83.84	86.68	25-Jun-19 05:00:00		19.23	18.92	83.84	88.80
25-Jun-19 06:00:00	25-Jun-19 07:00:00		21.57	0.00	0.00	41.05	2.1	329.7		7.11	0.00	0.00	13.53		10.35	18.92	83.84	86.68	25-Jun-19 06:00:00		17.46	18.92	83.84	100.21
25-Jun-19 07:00:00	25-Jun-19 08:00:00		21.54	0.00	0.00	6.55	2.1	329.7		7.10	0.00	0.00	2.16		10.35	18.92	83.84	86.68	25-Jun-19 07:00:00		17.45	18.92	83.84	88.84
25-Jun-19 08:00:00	25-Jun-19 09:00:00		20.54	0.00	0.00	6.42	2.1	329.7		6.77	0.00	0.00	2.12		10.35	18.92	83.84	86.68	25-Jun-19 08:00:00		17.12	18.92	83.84	88.80
25-Jun-19 09:00:00	25-Jun-19 10:00:00		20.78	0.00	0.00	22.70	2.1	329.7		6.85	0.00	0.00	7.48		10.35	18.92	83.84	86.68	25-Jun-19 09:00:00		17.20	18.92	83.84	94.16
25-Jun-19 10:00:00	25-Jun-19 11:00:00		20.75	0.00	0.00	5.84	2.1	329.7		6.84	0.00	0.00	1.92		10.35	18.92	83.84	86.68	25-Jun-19 10:00:00		17.19	18.92	83.84	88.60
25-Jun-19 11:00:00	25-Jun-19 12:00:00		20.39	0.00	0.00	5.46	2.1	329.7		6.72	0.00	0.00	1.80		10.35	18.92	83.84	86.68	25-Jun-19 11:00:00		17.07	18.92	83.84	88.48
25-Jun-19 12:00:00	25-Jun-19 13:00:00		22.07	0.00	0.00	76.18	2.1	329.7		7.28	0.00	0.00	25.12		10.35	18.92	83.84	86.68	25-Jun-19 12:00:00		17.63	18.92	83.84	111.80
25-Jun-19 13:00:00	25-Jun-19 14:00:00		28.21	0.00	0.00	5.24	2.1	329.7		9.30	0.00	0.00	1.73		10.35	18.92	83.84	86.68	25-Jun-19 13:00:00		19.65	18.92	83.84	88.41
25-Jun-19 14:00:00	25-Jun-19 15:00:00		7.55	0.00	0.00	5.29	2.1	329.7		2.49	0.00	0.00	1.74		10.35	18.92	83.84	86.68	25-Jun-19 14:00:00		12.84	18.92	83.84	88.42
25-Jun-19 15:00:00	25-Jun-19 16:00:00		12.83	0.00	0.00	10.63	2.1	329.7		4.23	0.00	0.00	3.51		10.35	18.92	83.84	86.68	25-Jun-19 15:00:00		14.58	18.92	83.84	90.19
25-Jun-19 16:00:00	25-Jun-19 17:00:00		1.34	0.00	0.00	5.25	2.1	329.7		0.44	0.00	0.00	1.73		10.35	18.92	83.84	86.68	25-Jun-19 16:00:00		10.79	18.92	83.84	88.41
25-Jun-19 17:00:00	25-Jun-19 18:00:00		1.28	0.00	0.00	5.23	2.1	329.7		0.42	0.00	0.00	1.72		10.35	18.92	83.84	86.68	25-Jun-19 17:00:00		10.77	18.92	83.84	88.40
25-Jun-19 18:00:00	25-Jun-19 19:00:00		2.09	0.00	0.00	60.86	2.1	329.7		0.69	0.00	0.00	20.07		10.35	18.92	83.84	86.68	25-Jun-19 18:00:00		11.04	18.92	83.84	106.75
25-Jun-19 19:00:00	25-Jun-19 20:00:00		8.69	0.00	0.00	5.39	2.1	329.7		2.87	0.00	0.00	1.78		10.35	18.92	83.84	86.68	25-Jun-19 19:00:00		13.22	18.92	83.84	88.46
25-Jun-19 20:00:00	25-Jun-19 21:00:00		35.97	0.00	0.00	5.40	2.1	329.7		11.86	0.00	0.00	1.78		10.35	18.92	83.84	86.68	25-Jun-19 20:00:00		22.21	18.92	83.84	88.46
25-Jun-19 21:00:00	25-Jun-19 22:00:00		38.35	0.00	0.00	59.69	2.1	329.7		12.64	0.00	0.00	19.68		10.35	18.92	83.84	86.68	25-Jun-19 21:00:00		22.99	18.92	83.84	106.36
25-Jun-19 22:00:00	25-Jun-19 23:00:00		29.11	0.00	0.00	5.72	2.1	329.7		9.60	0.00	0.00	1.89		10.35	18.92	83.84	86.68	25-Jun-19 22:00:00		19.95	18.92	83.84	88.57
25-Jun-19 23:00:00	26-Jun-19 00:00:00		29.29	0.00	0.00	5.87	2.1	329.7		9.66	0.00	0.00	1.94		10.35	18.92	83.84	86.68	25-Jun-19 23:00:00		20.01	18.92	83.84	88.62
26-Jun-19 00:00:00	26-Jun-19 01:00:00		37.99	0.00	0.00	6.03	2.1	329.7		12.52	0.00	0.00	1.99		10.35	18.92	83.84	86.68	26-Jun-19 00:00:00		22.87	18.92	83.84	88.67
26-Jun-19 01:00:00	26-Jun-19 02:00:00		33.38	0.00	0.00	16.96	2.1	329.7		11.00	0.00	0.00	5.59		10.35	18.92	83.84	86.68	26-Jun-19 01:00:00		21.35	18.92	83.84	92.27
26-Jun-19 02:00:00	26-Jun-19 03:00:00		14.99	0.00	0.00	6.13	2.1	329.7		4.94	0.00	0.00	2.02		10.35	18.92	83.84	86.68	26-Jun-19 02:00:00		15.29	18.92	83.84	88.70
26-Jun-19 03:00:00	26-Jun-19 04:00:00		13.71	0.00	0.00	5.98	2.1	329.7		4.52	0.00	0.00	1.97		10.35	18.92	83.84	86.68	26-Jun-19 03:00:00		14.87	18.92	83.84	88.65
26-Jun-19 04:00:00	26-Jun-19 05:00:00		12.48	0.00	0.00	41.42	2.1	329.7		4.12	0.00	0.00	13.65		10.35	18.92	83.84	86.68	26-Jun-19 04:00:00		14.47	18.92	83.84	100.33
26-Jun-19 05:00:00	26-Jun-19 06:00:00		12.32	0.00	0.00	5.95	2.1	329.7		4.06	0.00	0.00	1.96		10.35	18.92	83.84	86.68	26-Jun-19 05:00:00		14.41	18.92	83.84	88.64
26-Jun-19 06:00:00	26-Jun-19 07:00:00		12.15	0.00	0.00	6.04	2.1	329.7		4.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	26-Jun-19 06:00:00		14.35	18.92	83.84	88.67
26-Jun-19 07:00:00	26-Jun-19 08:00:00		11.92	0.00	0.00	77.47	2.1	329.7		3.93	0.00	0.00	25.54		10.35	18.92	83.84	86.68	26-Jun-19 07:00:00		14.28	18.92	83.84	112.22
26-Jun-19 08:00:00	26-Jun-19 09:00:00		11.44	0.00	0.00	6.08	2.1	329.7		3.77	0.00	0.00	2.00		10.35	18.92	83.84	86.68	26-Jun-19 08:00:00		14.12	18.92	83.84	88.68
26-Jun-19 09:00:00	26-Jun-19 10:00:00		12.33	0.00	0.00	5.89	2.1	329.7		4.07	0.00	0.00	1.94		10.35	18.92	83.84	86.68	26-Jun-19 09:00:00		14.42	18.92	83.84	88.62
26-Jun-19 10:00:00	26-Jun-19 11:00:00		13.56	0.00	0.00	75.08	2.1	329.7		4.47	0.00	0.00	24.75		10.35	18.92	83.84	86.68	26-Jun-19 10:00:00		14.82	18.92	83.84	111.43
26-Jun-19 11:00:00	26-Jun-19 12:00:00		21.90	0.00	0.00	5.50	2.1	329.7		7.22	0.00	0.00	1.81		10.35	18.92	83.84	86.68	26-Jun-19 11:00:00		17.57	18.92	83.84	88.49
26-Jun-19 12:00:00	26-Jun-19 13:00:00		73.33	0.00	0.00	5.38	2.1	329.7		24.18	0.00	0.00	1.77		10.35	18.92	83.84	86.68	26-Jun-19 12:00:00		34.53	18.92	83.84	88.45
26-Jun-19 13:00:00	26-Jun-19 14:00:00		1,259.47	0.00	0.00	5.26	2.1	329.7		415.25	0.00	0.00	1.73		10.35	18.92	83.84	86.68	26-Jun-19 13:00:00		425.60	18.92	83.84	88.41
26-Jun-19 14:00:00	26-Jun-19 15:00:00		1,691.11	528.08	0.00	5.15	2.1	329.7		557.56	52.45	0.00	1.70		10.35	18.92	83.84	86.68	26-Jun-19 14:00:00		567.91	71.37	83.84	88.38
26-Jun-19 15:00:00	26-Jun-19 16:00:00		1,726.97	353.57	0.00	5.20	2.1	329.7		569.38	116.57	0.00	1.71		10.35	18.92	83.84	86.68	26-Jun-19 15:00:00		579.73	135.49	83.84	88.39
26-Jun-19 16:00:00	26-Jun-19 17:00:00		1,737.05	348.39	0.00	5.30	2.1	329.7		572.70	114.87	0.00	1.75		10.35	18.92	83.84	86.68	26-Jun-19 16:00:00		583.05	133.79	83.84	88.43
26-Jun-19 17:

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
28-Jun-19 19:00:00	28-Jun-19 20:00:00		779.44	0.00	0.00	46.33	2.1	329.7		256.98	0.00	0.00	15.28		10.35	18.92	83.84	86.68	28-Jun-19 19:00:00		267.33	18.92	83.84	101.96
28-Jun-19 20:00:00	28-Jun-19 21:00:00		776.87	0.00	0.00	5.35	2.1	329.7		256.13	0.00	0.00	1.76		10.35	18.92	83.84	86.68	28-Jun-19 20:00:00		266.48	18.92	83.84	88.44
28-Jun-19 21:00:00	28-Jun-19 22:00:00		781.12	0.00	0.00	5.53	2.1	329.7		257.54	0.00	0.00	1.82		10.35	18.92	83.84	86.68	28-Jun-19 21:00:00		267.89	18.92	83.84	88.50
28-Jun-19 22:00:00	28-Jun-19 23:00:00		784.77	0.00	0.00	41.23	2.1	329.7		258.74	0.00	0.00	13.59		10.35	18.92	83.84	86.68	28-Jun-19 22:00:00		269.09	18.92	83.84	100.27
28-Jun-19 23:00:00	29-Jun-19 00:00:00		780.78	0.00	0.00	5.95	2.1	329.7		257.42	0.00	0.00	1.96		10.35	18.92	83.84	86.68	28-Jun-19 23:00:00		267.77	18.92	83.84	88.64
29-Jun-19 00:00:00	29-Jun-19 01:00:00		782.96	0.00	0.00	5.92	2.1	329.7		258.14	0.00	0.00	1.95		10.35	18.92	83.84	86.68	29-Jun-19 00:00:00		268.49	18.92	83.84	88.63
29-Jun-19 01:00:00	29-Jun-19 02:00:00		803.49	0.00	0.00	12.54	2.1	329.7		264.91	0.00	0.00	4.13		10.35	18.92	83.84	86.68	29-Jun-19 01:00:00		275.26	18.92	83.84	90.81
29-Jun-19 02:00:00	29-Jun-19 03:00:00		785.62	0.00	0.00	6.14	2.1	329.7		259.02	0.00	0.00	2.03		10.35	18.92	83.84	86.68	29-Jun-19 02:00:00		269.37	18.92	83.84	88.71
29-Jun-19 03:00:00	29-Jun-19 04:00:00		774.22	0.00	0.00	6.27	2.1	329.7		255.26	0.00	0.00	2.07		10.35	18.92	83.84	86.68	29-Jun-19 03:00:00		265.61	18.92	83.84	88.75
29-Jun-19 04:00:00	29-Jun-19 05:00:00		772.77	0.00	0.00	21.89	2.1	329.7		254.78	0.00	0.00	7.22		10.35	18.92	83.84	86.68	29-Jun-19 04:00:00		265.13	18.92	83.84	93.90
29-Jun-19 05:00:00	29-Jun-19 06:00:00		766.84	0.00	0.00	6.35	2.1	329.7		252.83	0.00	0.00	2.09		10.35	18.92	83.84	86.68	29-Jun-19 05:00:00		263.18	18.92	83.84	88.77
29-Jun-19 06:00:00	29-Jun-19 07:00:00		760.05	0.00	0.00	6.35	2.1	329.7		250.59	0.00	0.00	2.09		10.35	18.92	83.84	86.68	29-Jun-19 06:00:00		260.94	18.92	83.84	88.77
29-Jun-19 07:00:00	29-Jun-19 08:00:00		761.30	0.00	0.00	9.96	2.1	329.7		251.00	0.00	0.00	3.28		10.35	18.92	83.84	86.68	29-Jun-19 07:00:00		261.35	18.92	83.84	89.96
29-Jun-19 08:00:00	29-Jun-19 09:00:00		756.61	0.00	0.00	6.30	2.1	329.7		249.45	0.00	0.00	2.08		10.35	18.92	83.84	86.68	29-Jun-19 08:00:00		259.80	18.92	83.84	88.76
29-Jun-19 09:00:00	29-Jun-19 10:00:00		750.62	0.00	0.00	6.08	2.1	329.7		247.48	0.00	0.00	2.01		10.35	18.92	83.84	86.68	29-Jun-19 09:00:00		257.83	18.92	83.84	88.69
29-Jun-19 10:00:00	29-Jun-19 11:00:00		787.80	0.00	0.00	14.36	2.1	329.7		259.74	0.00	0.00	4.73		10.35	18.92	83.84	86.68	29-Jun-19 10:00:00		270.09	18.92	83.84	91.41
29-Jun-19 11:00:00	29-Jun-19 12:00:00		754.00	0.00	0.00	5.69	2.1	329.7		248.60	0.00	0.00	1.88		10.35	18.92	83.84	86.68	29-Jun-19 11:00:00		258.95	18.92	83.84	88.56
29-Jun-19 12:00:00	29-Jun-19 13:00:00		859.11	0.00	0.00	5.52	2.1	329.7		283.25	0.00	0.00	1.82		10.35	18.92	83.84	86.68	29-Jun-19 12:00:00		293.60	18.92	83.84	88.50
29-Jun-19 13:00:00	29-Jun-19 14:00:00		919.27	0.00	0.00	5.36	2.1	329.7		303.08	0.00	0.00	1.77		10.35	18.92	83.84	86.68	29-Jun-19 13:00:00		313.43	18.92	83.84	88.45
29-Jun-19 14:00:00	29-Jun-19 15:00:00		932.15	0.00	0.00	78.50	2.1	329.7		307.33	0.00	0.00	25.88		10.35	18.92	83.84	86.68	29-Jun-19 14:00:00		317.68	18.92	83.84	112.56
29-Jun-19 15:00:00	29-Jun-19 16:00:00		929.67	0.00	0.00	4.97	2.1	329.7		306.51	0.00	0.00	1.64		10.35	18.92	83.84	86.68	29-Jun-19 15:00:00		316.86	18.92	83.84	88.32
29-Jun-19 16:00:00	29-Jun-19 17:00:00		923.19	0.00	0.00	10.93	2.1	329.7		304.38	0.00	0.00	3.60		10.35	18.92	83.84	86.68	29-Jun-19 16:00:00		314.73	18.92	83.84	90.28
29-Jun-19 17:00:00	29-Jun-19 18:00:00		903.30	0.00	0.00	9.10	2.1	329.7		297.82	0.00	0.00	3.00		10.35	18.92	83.84	86.68	29-Jun-19 17:00:00		308.17	18.92	83.84	89.68
29-Jun-19 18:00:00	29-Jun-19 19:00:00		895.36	0.00	0.00	5.06	2.1	329.7		295.20	0.00	0.00	1.67		10.35	18.92	83.84	86.68	29-Jun-19 18:00:00		305.55	18.92	83.84	88.35
29-Jun-19 19:00:00	29-Jun-19 20:00:00		895.86	0.00	0.00	7.83	2.1	329.7		295.37	0.00	0.00	2.58		10.35	18.92	83.84	86.68	29-Jun-19 19:00:00		305.72	18.92	83.84	89.26
29-Jun-19 20:00:00	29-Jun-19 21:00:00		896.78	0.00	0.00	10.10	2.1	329.7		295.67	0.00	0.00	3.33		10.35	18.92	83.84	86.68	29-Jun-19 20:00:00		306.02	18.92	83.84	90.01
29-Jun-19 21:00:00	29-Jun-19 22:00:00		906.50	0.00	0.00	5.52	2.1	329.7		298.87	0.00	0.00	1.82		10.35	18.92	83.84	86.68	29-Jun-19 21:00:00		309.22	18.92	83.84	88.50
29-Jun-19 22:00:00	29-Jun-19 23:00:00		903.74	0.00	0.00	7.23	2.1	329.7		297.96	0.00	0.00	2.38		10.35	18.92	83.84	86.68	29-Jun-19 22:00:00		308.31	18.92	83.84	89.06
29-Jun-19 23:00:00	30-Jun-19 00:00:00		935.80	0.00	0.00	5.82	2.1	329.7		308.53	0.00	0.00	1.92		10.35	18.92	83.84	86.68	29-Jun-19 23:00:00		318.88	18.92	83.84	88.60
30-Jun-19 00:00:00	30-Jun-19 01:00:00		933.06	0.00	0.00	67.14	2.1	329.7		307.63	0.00	0.00	22.13		10.35	18.92	83.84	86.68	30-Jun-19 00:00:00		317.98	18.92	83.84	108.81
30-Jun-19 01:00:00	30-Jun-19 02:00:00		937.16	0.00	0.00	19.85	2.1	329.7		308.98	0.00	0.00	6.54		10.35	18.92	83.84	86.68	30-Jun-19 01:00:00		319.33	18.92	83.84	93.22
30-Jun-19 02:00:00	30-Jun-19 03:00:00		936.74	0.00	0.00	6.31	2.1	329.7		308.84	0.00	0.00	2.08		10.35	18.92	83.84	86.68	30-Jun-19 02:00:00		319.19	18.92	83.84	88.76
30-Jun-19 03:00:00	30-Jun-19 04:00:00		925.95	0.00	0.00	6.38	2.1	329.7		305.29	0.00	0.00	2.10		10.35	18.92	83.84	86.68	30-Jun-19 03:00:00		315.64	18.92	83.84	88.78
30-Jun-19 04:00:00	30-Jun-19 05:00:00		912.70	0.00	0.00	23.21	2.1	329.7		300.92	0.00	0.00	7.65		10.35	18.92	83.84	86.68	30-Jun-19 04:00:00		311.27	18.92	83.84	94.33
30-Jun-19 05:00:00	30-Jun-19 06:00:00		921.94	0.00	0.00	6.87	2.1	329.7		303.96	0.00	0.00	2.27		10.35	18.92	83.84	86.68	30-Jun-19 05:00:00		314.31	18.92	83.84	88.95
30-Jun-19 06:00:00	30-Jun-19 07:00:00		944.24	0.00	0.00	6.77	2.1	329.7		311.31	0.00	0.00	2.23		10.35	18.92	83.84	86.68	30-Jun-19 06:00:00		321.66	18.92	83.84	88.91
30-Jun-19 07:00:00	30-Jun-19 08:00:00		955.01	0.00	0.00	122.31	2.1	329.7		314.87	0.00	0.00	40.33		10.35	18.92	83.84	86.68	30-Jun-19 07:00:00		325.22	18.92	83.84	127.01
30-Jun-19 08:00:00	30-Jun-19 09:00:00		932.01	0.00	0.00	6.53	2.1	329.7		307.28	0.00	0.00	2.15		10.35	18.92	83.84	86.68	30-Jun-19 08:00:00		317.63	18.92	83.84	88.83
30-Jun-19 09:00:00	30-Jun-19 10:00:00		919.19	0.00	0.00	6.26	2.1	329.7		303.06	0.00	0.00	2.06		10.35	18.92	83.84	86.68	30-Jun-19 09:00:00		313.41	18.92	83.84	88.74
30-Jun-19 10:00:00	30-Jun-19 11:00:00		924.25	0.00	0.00	15.35	2.1	329.7		304.72	0.00	0.00	5.06		10.35	18.92	83.84	86.68	30-Jun-19 10:00:00		315.07	18.92	83.84	91.74
30-Jun-19 11:00:00	30-Jun-19 12:00:00		916.29	0.00	0.00	5.63	2.1	329.7		302.10	0.00	0.00	1.86		10.35	18.92	83.84	86.68	30-Jun-19 11:00:00		312.45	18.92	83.84	88.54
30-Jun-19 12:00:00	30-Jun-19 13:00:00		904.44	0.00	0.00	5.35	2.1	329.7		298.19	0.00	0.00	1.76		10.35	18.92	83.84	86.68	30-Jun-19 12:00:00		308.54	18.92	83.84	88.44
30-Jun-19 13:00:00	30-Jun-19 14:00:00		881.70	0.00	0.00	49.31	2.1	329.7		290.70	0.00	0.00	16.26		10.35	18.92	83.84	86.68	30-Jun-19 13:00:00		301.05	18.92	83.84	102.94
30-Jun-19 14:00:00	30-Jun-19 15:00:00		888.94	0.00	0.00	4.97	2.1	329.7		293.08	0.00	0.00	1.64		10.35	18.92	83.84	86.68	30-Jun-19 14:00:00		303.43	18.92	83.84	88.32
30-Jun-19 15:00:00	30-Jun-19 16:00:00		902.17	0.00	0.00	4.86	2.1	329.7		297.45	0.00	0.00	1.60		10.35	18.92	83.84	86.68	30-Jun-19 15:00:00		307.80	18.92	83.84	88.28
30-Jun-19 16:00:00	30-Jun-19 17:00:00		892.36	0.00	0.00	116.69	2.1	329.7		294.21	0.00	0.00	38.47		10.35	18.92	83.84	86.68	30-Jun-19 16:00:00		304.56	18.92	83.84	125.15
30-Jun-19 17:00:00	30-Jun-19 18:00:00		888.64	0.00	0.00	4.73	2.1	329.7		292.98	0.00	0.00	1.56		10.35	18.92	83.84	86.68	30-Jun-19 17:00:00		303.33	18.92	83.84	88.24
30-Jun-19 18:00:00	30-Jun-19 19:00:00		883.39	0.00	0.00	4.82	2.1	329.7		291.25	0.00	0.00	1.59		10.35	18.92	83.84	86.68	30-Jun-19 18:00:00		301.60	18.92	83.84	88.27
30-Jun-19 19:00:00	30-Jun-19 20:00:00		885.55	0.00	0.00	8.77	2.1	329.7		291.96	0.00	0.00	2.89		10.35	18.92	83.84	86.68	30-Jun-19 19:00:00		302.31	18.92	83.84	89.57
30-Jun-19 20:00:00	30-Jun-19 21:00:00		900.36	0.00	0.00	7.43	2.1	329.7		296.85	0.00	0.00	2.45		10.35	18.92	83.84	86.68	30-Jun-19 20:00:00		307.20	18.92	83.84	89.13
30-Jun-19 21:00:00	30-Jun-19 22:00:00		904.77	0.00	0.00	6.49	2.1	329.7		298.30	0.00	0.00	2.14		10.35	18.92	83.84	86.68	30-Jun-19 21:00:00		308.65	18.92	83.84	88.82
30-Jun-19 22:00:00	30-Jun-19 23:00:00		920.35	0.00	0.00	5.91	2.1	329.7		303.44	0.00	0.00	1.95		10.35	18.92	83.84	86.68	30-Jun-19 22:00:00		313.79	18.92	83.84	88.63
30-Jun-19 23:00:00	01-Jul-19 00:00:00		916.17	0.00	0.00	5.35	2.1	329.7		302.06	0.00	0.00	1.76		10.35	18.92	83.84	86.68	30-Jun-19 23:00:00		312.41	18.92	83.84	88.44
01-Jul-19 00:00:00	01-Jul-19 01:00:00		933.10	0.00	0.00	5.54	2.1	329.7		307.64	0.00	0.00	1.83		10.35	18.92	83.84	86.68	01-Jul-19 00:00:00		317.99	18.92	83.84	88.51
01-Jul-19 01:00:00	01-Jul-19 02:00:00		944.85	0.00	0.00	7.74	2.1	329.7		311.52	0.00	0.00	2.55		10.35	18.92	83.84	86.68	01-Jul-19 01:00:00		321.87	18.92	83.84	89.23
01-Jul-19 02:00:00	01-Jul-19 03:00:00		963.43	0.00	0.00	6.00	2.1	329.7		317.64	0.00	0.00	1.98		10.35	18.92	83.84	86.68	01-Jul-19 02:00:00		327.99	18.92	83.84	88.66
01-Jul-19 03:00:00	01-Jul-19 04:00:00		998.26	0.00	0.00	6.16	2.1	329.7		329.13	0.00	0.00	2.03		10.35	18.92	83.84	86.68	01-Jul-19 03:00:00		339.48	18.92	83.84	88.71
01-Jul-19 04:00:00	01-Jul-19 05:00:00		1,015.51	0.00	0.00	8.23	2.1	329.7		334.81	0.00	0.00	2.71		10.35	18.92	83.84	86.68	01-Jul-19 04:00:00		345.16	18.92	83.84	89.39
01-Jul-19 05:00:00	01-Jul-19 06:00:00		1,024.07	0.00	0.00	116.30	2.1	329.7		337.63	0.00	0.00	38.34		10.35	18.92	83.84	86.68	01-Jul-19 05:00:00		347.98	18.92	83.84	125.02
01-Jul-19 06:00:00	01-Jul-19 07:00:00		995.03	0.00	0.00	6.60	2.1	329.7		328.06	0.00	0.00	2.18		10.35	18.92	83.84	86.68	01-Jul-19 06:00:00		338.41	18.92	83.84	88.86
01-Jul-19 07:00:00	01-Jul-19 08:00:00		966.89	0.00	0.00	48.51	2.1	329.7		318.78	0.00	0.00	15.99		10.35	18.92	83.84	86.68	01-Jul-19 07:00:00		329.13	18.92	83.84	102.67
01-Jul-19 08:00:00	01-Jul-19 09:00:00		448.41	0.00	0.00	6.66	2.1	329.7		147.84	0.00	0.00	2.19		10.35	18.92	83.84	86.68	01-Jul-19 08:00:00		158.19	18.92	83.84	88.87
01-Jul-19 09:00:00	01-Jul-19 10:00:00		332.57	0.00	0.00	6.29	2.1	329.7		109.65	0.00	0.00	2.07		10.35	18.92	83.84	86.68	01-Jul-19 09:00:00		120.00	18.92	83.84	88.75
01-Jul-19 10:00:00	01-Jul-19 11:00:00		305.80	0.00	0.00	5.92	2.1	329.7		100.82	0.00	0.00	1.95		10.35	18.92	83.84	86.68	01-Jul-19 10:00:00		111.17	18.92	83.84	88.63
01-Jul-19 11:00:00	01-Jul-19 12:00:00		28.26	170.84	0.00	7.16	2.1	329.7		9.32	56.33	0.00	2.36		10.35	18.92	83.84	86.68	01-Jul-19 11:00:00		19.67	75.25	83.84	89.04
01-Jul-19 12:00:00	01-Jul-19 13:00:00		8.69	17.51	0.00	5.42	2.1	329.7		2.86	5.77	0.00	1.79		10.35	18.92	83.84	86.68	01-Jul-19 12:00:00		13.21	24.69	83.84	88.47
01-Jul-19 13:00:00	01-Jul-19 14:00:00		12.63	0.00	0.00	5.17	2.1	329.7		4.16	0.00	0.00	1.71		10.35	18.92	83.84	86.68	01-Jul-19 13:00:00		14.51	18.92	83.84	88.39
01-Jul-19 14:00:00	01-Jul-19 15:00:00		14.31	0.00	0.00	8.80	2.1	329.7		4.72	0.00	0.00	2.90		10.35	18.92	83.84	86.68	01-Jul-19 14:00:00		15.07	18.92	83.84	89.58
01-Jul-19 15:00:00	01-Jul-19 16:00:00		4.99	0.00	0.00	5.14	2.1	329.7		1.65	0.00	0.00	1.69		10.35	18.92	83.84	86.68	01-Jul-19 15:00:00		12.00	18.92	83.84	88.37
01-Jul-19 16:00:00	01-Jul-19 17:00:00		2.42	0.00	0.00	5.08	2.1	329.7		0.80	0.00	0.00	1.67		10.35	18.92	83.84	86.68	01-Jul-19 16:00:00		11.15	18.92	83.84	88.35
01-Jul-19 17:00:00	01-Jul-19 18:00:00		1.06	0.00	0.00	32.42	2.1	329.7		0.35	0.00	0.00	10.69		10.35	18.92	83.84	86.68	01-Jul-19 17:00:00		10.70	18.92	83.84	97.37
01-Jul-19 18:00:00	01-Jul-19 19:00:00		0.00	0.00	0.00	5.01	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	01-Jul-19 18:00:00		10.35	18.92	83.84	88.33
01-Jul-19 19:00:00	01-Jul-19 20:00:00		0.00	0.00	0.00	5.13	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	01-Jul-19 19:00:00		10.35	18.92	83.84	88.37
01-Jul-19 20:00:00	01-Jul-19 21:00:00		6.36	0.00	0.00	16.72	2.1	329.7		2.10	0.00	0.00	5.51		10.35	18.92	83.84	86.68	01-Jul-19 20:00:00		12.45	18.92	83.84	92.19
01-Jul-19 21:00:00	01-Jul-19 22:00:00		12.12	0.00	0.00	5.41	2.1	329.7		4.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	01-Jul-19 21:00:00		14.35	18.92	83.84	88.46
01-Jul-19 22:00:00	01-Jul-19 23:00:00		25.87	0.00	0.00	5.77	2.1	329.7		8.53	0.00	0.00	1.90		10.35	18.92	83.84	86.68	01-Jul-19 22:00:00		18.88	18.92	83.84	88.58
01-Jul-19 23:00:00	02-Jul-19 00:00:00		25.01	0.00	0.00	116.27	2.1	329.7		8.25	0.00	0.00	38.34		10.35	18.92	83.84	86.68	01-Jul-19 23:00:00		18.60	18.92	83.84	125.02
02-Jul-19 00:00:00	02-Jul-19 01:00:00		20.45	0.00	0.00	6.36	2.1	329.7		6.74	0.00	0.00	2.10		10.35	18.92	83.84	86.68	02-Jul-19 00:00:00		17.09	18.92	83.84	88.78
02-Jul-19 01:00:00	02-Jul-19 02:00:00		31.92	0.00	0.00	11.33	2.1	329.7		10.52	0.00	0.00	3.74		10.35	18.92	83.84	86.68	02-Jul-19 01:00:00		20.87	18.92	83.84	90.42
02-Jul-19 02:00:00	02-Jul-19 03:00:00		36.76	0.00	0.00	6.35	2.1	329.7		12.12	0.00	0.00	2.09		10.35	18.92	83.84	86.68	02-Jul-19 02:00:00		22.47	18.92	83.84	88.77
02-Jul-19 03:00:00	02-Jul-19 04:00:00		25.47	0.00	0.00	94.91	2.1	329.7		8.40	0.00	0.00	31.29		10.35	18.92	83.84	86.68	02-Jul-19 03:00:00		18.75	18.92	83.84	117.97
02-Jul-19 04:00:00	02-Jul-19 05:00:00		22.78	0.00	0.00	6.52	2.1	329.7		7.51	0.00	0.00	2.15		10.35	18.92	83.84	86.68	02-Jul-19 04:00:00		17.86	18.92	83.84	88.83
02-Jul-19 05:00:00	02-Jul-19 06:00:00		21.74	0.00	0.00	6.65	2.1	329.7		7.17	0.00	0.00	2.19		10.35	18.92	83.84	86.68	02-Jul-19 05:00:00		17.52	18.92	83.84	88.87
02-Jul-19 06:00:00	02-Jul-19 07:00:00		30.05	0.00	0.00	44.13	2.1	329.7		9.91	0.00	0.00	14.55		10.35	18.92	83.84	86.68	02-Jul-19 06:00:00		20.26	18.92	83.84	101.23
02-Jul-19 07:00:00	02-Jul-19 08:00:00		20.37	0.00	0.00	6.34	2.1	329.7		6.72	0.00	0.00	2.09		10.35	18.92	83.84	86.68	02-Jul-19 07:00:00		17.07	18.92	83.84	88.77
02-Jul-19 08:00:00	02-Jul-19 09:00:00		191.37	0.00	0.00	6.06	2.1	329.7		63.10	0.00	0.00	2.00		10.35	18.92	83.84	86.68	02-Jul-19 08:00:00		73.45	18.92	83.84	88.68
02-Jul-19 09:00:00	02-Jul-19 10:00:00		260.83	0.00	0.00	7.53	2.1	329.7		86.00	0.00	0.00	2.48		10.35	18.92	83.84	86.68	02-Jul-19 09:00:00		96.35	18.92	83.84	89.16
02-Jul-19 10:00:00	02-Jul-19 11:00:00		44.56	0.00	0.00	5.75	2.1	329.7		14.69	0.00	0.00	1.90		10.35	18.92	83.84	86.68	02-Jul-19 10:00:00		25.04	18.92	83.84	88.58
02-Jul-19 11:00:00	02-Jul-19 12:00:00		19.93	0.00	0.00	5.39	2.1	329.7		6.57	0.00	0.00	1.78		10.35	18.92	83.84	86.68	02-Jul-19 11:00:00		16.92	18.92	83.84	88.46
02-Jul-19 12:00:00	02-Jul-19 13:00:00		18.44	0.00	0.00	78.68	2.1	329.7		6.08	0.00	0.00	25.94		10.35	18.92	83.84	86.68	02-Jul-19 12:00:00		16.43	18.92	83.84	112.62
02-Jul-19 13:00:00	02-Jul-19 14:00:00		3.08	0.00	0.00	5.05	2.1	329.7		1.02	0.00	0.00	1.67		10.35	18.92	83.84	86.68	02-Jul-19 13:00:00		11.37	18.92	83.84	88.35
02-Jul-19 14:00:00	02-Jul-19 15:00:00		0.00	0.00	0.00	4.97	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	02-Jul-19 14:00:00		10.35	18.92	83.84	88.32
02-Jul-19 15:00:00	02-Jul-19 16:00:00		0.00	0.00	0.00	4.89	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	02-Jul-19 15:00:00		10.35	18.92	83.84	88.29
02-Jul-19 16:00:00	02-Jul-19 17:00:00		0.33	0.00	0.00	39

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
04-Jul-19 18:00:00	04-Jul-19 19:00:00		35.95	0.00	0.00	6.56	2.1	329.7		11.85	0.00	0.00	2.16		10.35	18.92	83.84	86.68	04-Jul-19 18:00:00		**22.20**	**18.92**	**83.84**	**88.84**
04-Jul-19 19:00:00	04-Jul-19 20:00:00		36.46	0.00	0.00	6.62	2.1	329.7		12.02	0.00	0.00	2.18		10.35	18.92	83.84	86.68	04-Jul-19 19:00:00		**22.37**	**18.92**	**83.84**	**88.86**
04-Jul-19 20:00:00	04-Jul-19 21:00:00		37.04	0.00	0.00	14.84	2.1	329.7		12.21	0.00	0.00	4.89		10.35	18.92	83.84	86.68	04-Jul-19 20:00:00		**22.56**	**18.92**	**83.84**	**91.57**
04-Jul-19 21:00:00	04-Jul-19 22:00:00		36.75	0.00	0.00	6.71	2.1	329.7		12.11	0.00	0.00	2.21		10.35	18.92	83.84	86.68	04-Jul-19 21:00:00		**22.46**	**18.92**	**83.84**	**88.89**
04-Jul-19 22:00:00	04-Jul-19 23:00:00		33.15	0.00	0.00	6.58	2.1	329.7		10.93	0.00	0.00	2.17		10.35	18.92	83.84	86.68	04-Jul-19 22:00:00		**21.28**	**18.92**	**83.84**	**88.85**
04-Jul-19 23:00:00	05-Jul-19 00:00:00		18.37	0.00	0.00	6.45	2.1	329.7		6.06	0.00	0.00	2.13		10.35	18.92	83.84	86.68	04-Jul-19 23:00:00		**16.41**	**18.92**	**83.84**	**88.81**
05-Jul-19 00:00:00	05-Jul-19 01:00:00		12.56	0.00	0.00	7.01	2.1	329.7		4.14	0.00	0.00	2.31		10.35	18.92	83.84	86.68	05-Jul-19 00:00:00		**14.49**	**18.92**	**83.84**	**88.99**
05-Jul-19 01:00:00	05-Jul-19 02:00:00		29.70	0.00	0.00	6.52	2.1	329.7		9.79	0.00	0.00	2.15		10.35	18.92	83.84	86.68	05-Jul-19 01:00:00		**20.14**	**18.92**	**83.84**	**88.83**
05-Jul-19 02:00:00	05-Jul-19 03:00:00		31.94	0.00	0.00	59.02	2.1	329.7		10.53	0.00	0.00	19.46		10.35	18.92	83.84	86.68	05-Jul-19 02:00:00		**20.88**	**18.92**	**83.84**	**106.14**
05-Jul-19 03:00:00	05-Jul-19 04:00:00		32.44	0.00	0.00	9.48	2.1	329.7		10.70	0.00	0.00	3.13		10.35	18.92	83.84	86.68	05-Jul-19 03:00:00		**21.05**	**18.92**	**83.84**	**89.81**
05-Jul-19 04:00:00	05-Jul-19 05:00:00		32.83	0.00	0.00	6.79	2.1	329.7		10.82	0.00	0.00	2.24		10.35	18.92	83.84	86.68	05-Jul-19 04:00:00		**21.17**	**18.92**	**83.84**	**88.92**
05-Jul-19 05:00:00	05-Jul-19 06:00:00		32.31	0.00	0.00	6.76	2.1	329.7		10.65	0.00	0.00	2.23		10.35	18.92	83.84	86.68	05-Jul-19 05:00:00		**21.00**	**18.92**	**83.84**	**88.91**
05-Jul-19 06:00:00	05-Jul-19 07:00:00		31.79	0.00	0.00	7.07	2.1	329.7		10.48	0.00	0.00	2.33		10.35	18.92	83.84	86.68	05-Jul-19 06:00:00		**20.83**	**18.92**	**83.84**	**89.01**
05-Jul-19 07:00:00	05-Jul-19 08:00:00		25.99	0.00	0.00	6.60	2.1	329.7		8.57	0.00	0.00	2.18		10.35	18.92	83.84	86.68	05-Jul-19 07:00:00		**18.92**	**18.92**	**83.84**	**88.86**
05-Jul-19 08:00:00	05-Jul-19 09:00:00		21.38	0.00	0.00	10.31	2.1	329.7		7.05	0.00	0.00	3.40		10.35	18.92	83.84	86.68	05-Jul-19 08:00:00		**17.40**	**18.92**	**83.84**	**90.08**
05-Jul-19 09:00:00	05-Jul-19 10:00:00		20.43	0.00	0.00	18.32	2.1	329.7		6.74	0.00	0.00	6.04		10.35	18.92	83.84	86.68	05-Jul-19 09:00:00		**17.09**	**18.92**	**83.84**	**92.72**
05-Jul-19 10:00:00	05-Jul-19 11:00:00		20.49	0.00	0.00	6.20	2.1	329.7		6.76	0.00	0.00	2.04		10.35	18.92	83.84	86.68	05-Jul-19 10:00:00		**17.11**	**18.92**	**83.84**	**88.72**
05-Jul-19 11:00:00	05-Jul-19 12:00:00		20.56	0.00	0.00	116.09	2.1	329.7		6.78	0.00	0.00	38.27		10.35	18.92	83.84	86.68	05-Jul-19 11:00:00		**17.13**	**18.92**	**83.84**	**124.95**
05-Jul-19 12:00:00	05-Jul-19 13:00:00		15.63	0.00	0.00	13.58	2.1	329.7		5.15	0.00	0.00	4.48		10.35	18.92	83.84	86.68	05-Jul-19 12:00:00		**15.50**	**18.92**	**83.84**	**91.16**
05-Jul-19 13:00:00	05-Jul-19 14:00:00		23.20	0.00	0.00	5.67	2.1	329.7		7.65	0.00	0.00	1.87		10.35	18.92	83.84	86.68	05-Jul-19 13:00:00		**18.00**	**18.92**	**83.84**	**88.55**
05-Jul-19 14:00:00	05-Jul-19 15:00:00		22.09	0.00	0.00	5.55	2.1	329.7		7.28	0.00	0.00	1.83		10.35	18.92	83.84	86.68	05-Jul-19 14:00:00		**17.63**	**18.92**	**83.84**	**88.51**
05-Jul-19 15:00:00	05-Jul-19 16:00:00		15.12	0.00	0.00	102.57	2.1	329.7		4.99	0.00	0.00	33.82		10.35	18.92	83.84	86.68	05-Jul-19 15:00:00		**15.34**	**18.92**	**83.84**	**120.50**
05-Jul-19 16:00:00	05-Jul-19 17:00:00		10.78	0.00	0.00	5.36	2.1	329.7		3.55	0.00	0.00	1.77		10.35	18.92	83.84	86.68	05-Jul-19 16:00:00		**13.90**	**18.92**	**83.84**	**88.45**
05-Jul-19 17:00:00	05-Jul-19 18:00:00		27.22	0.00	0.00	5.26	2.1	329.7		8.97	0.00	0.00	1.73		10.35	18.92	83.84	86.68	05-Jul-19 17:00:00		**19.32**	**18.92**	**83.84**	**88.41**
05-Jul-19 18:00:00	05-Jul-19 19:00:00		9.93	0.00	0.00	16.86	2.1	329.7		3.27	0.00	0.00	5.56		10.35	18.92	83.84	86.68	05-Jul-19 18:00:00		**13.62**	**18.92**	**83.84**	**92.24**
05-Jul-19 19:00:00	05-Jul-19 20:00:00		0.31	0.00	0.00	118.23	2.1	329.7		0.10	0.00	0.00	38.98		10.35	18.92	83.84	86.68	05-Jul-19 19:00:00		**10.45**	**18.92**	**83.84**	**125.66**
05-Jul-19 20:00:00	05-Jul-19 21:00:00		12.46	0.00	0.00	9.04	2.1	329.7		4.11	0.00	0.00	2.98		10.35	18.92	83.84	86.68	05-Jul-19 20:00:00		**14.46**	**18.92**	**83.84**	**89.66**
05-Jul-19 21:00:00	05-Jul-19 22:00:00		26.02	0.00	0.00	14.88	2.1	329.7		8.58	0.00	0.00	4.90		10.35	18.92	83.84	86.68	05-Jul-19 21:00:00		**18.93**	**18.92**	**83.84**	**91.58**
05-Jul-19 22:00:00	05-Jul-19 23:00:00		37.77	0.00	0.00	6.18	2.1	329.7		12.45	0.00	0.00	2.04		10.35	18.92	83.84	86.68	05-Jul-19 22:00:00		**22.80**	**18.92**	**83.84**	**88.72**
05-Jul-19 23:00:00	06-Jul-19 00:00:00		39.00	0.00	0.00	6.06	2.1	329.7		12.86	0.00	0.00	2.00		10.35	18.92	83.84	86.68	05-Jul-19 23:00:00		**23.21**	**18.92**	**83.84**	**88.68**
06-Jul-19 00:00:00	06-Jul-19 01:00:00		36.33	0.00	0.00	23.22	2.1	329.7		11.98	0.00	0.00	7.65		10.35	18.92	83.84	86.68	06-Jul-19 00:00:00		**22.33**	**18.92**	**83.84**	**94.33**
06-Jul-19 01:00:00	06-Jul-19 02:00:00		21.56	0.00	0.00	6.09	2.1	329.7		7.11	0.00	0.00	2.01		10.35	18.92	83.84	86.68	06-Jul-19 01:00:00		**17.46**	**18.92**	**83.84**	**88.69**
06-Jul-19 02:00:00	06-Jul-19 03:00:00		21.55	0.00	0.00	6.21	2.1	329.7		7.10	0.00	0.00	2.05		10.35	18.92	83.84	86.68	06-Jul-19 02:00:00		**17.45**	**18.92**	**83.84**	**88.73**
06-Jul-19 03:00:00	06-Jul-19 04:00:00		10.71	0.00	0.00	7.41	2.1	329.7		3.53	0.00	0.00	2.44		10.35	18.92	83.84	86.68	06-Jul-19 03:00:00		**13.88**	**18.92**	**83.84**	**89.12**
06-Jul-19 04:00:00	06-Jul-19 05:00:00		13.51	0.00	0.00	6.39	2.1	329.7		4.45	0.00	0.00	2.11		10.35	18.92	83.84	86.68	06-Jul-19 04:00:00		**14.80**	**18.92**	**83.84**	**88.79**
06-Jul-19 05:00:00	06-Jul-19 06:00:00		13.77	0.00	0.00	6.36	2.1	329.7		4.54	0.00	0.00	2.10		10.35	18.92	83.84	86.68	06-Jul-19 05:00:00		**14.89**	**18.92**	**83.84**	**88.78**
06-Jul-19 06:00:00	06-Jul-19 07:00:00		12.38	0.00	0.00	6.99	2.1	329.7		4.08	0.00	0.00	2.30		10.35	18.92	83.84	86.68	06-Jul-19 06:00:00		**14.43**	**18.92**	**83.84**	**88.98**
06-Jul-19 07:00:00	06-Jul-19 08:00:00		5.91	0.00	0.00	6.31	2.1	329.7		1.95	0.00	0.00	2.08		10.35	18.92	83.84	86.68	06-Jul-19 07:00:00		**12.30**	**18.92**	**83.84**	**88.76**
06-Jul-19 08:00:00	06-Jul-19 09:00:00		13.63	0.00	0.00	6.26	2.1	329.7		4.49	0.00	0.00	2.07		10.35	18.92	83.84	86.68	06-Jul-19 08:00:00		**14.84**	**18.92**	**83.84**	**88.75**
06-Jul-19 09:00:00	06-Jul-19 10:00:00		11.17	0.00	0.00	10.33	2.1	329.7		3.68	0.00	0.00	3.41		10.35	18.92	83.84	86.68	06-Jul-19 09:00:00		**14.03**	**18.92**	**83.84**	**90.09**
06-Jul-19 10:00:00	06-Jul-19 11:00:00		6.33	0.00	0.00	6.10	2.1	329.7		2.09	0.00	0.00	2.01		10.35	18.92	83.84	86.68	06-Jul-19 10:00:00		**12.44**	**18.92**	**83.84**	**88.69**
06-Jul-19 11:00:00	06-Jul-19 12:00:00		6.91	0.00	0.00	5.92	2.1	329.7		2.28	0.00	0.00	1.95		10.35	18.92	83.84	86.68	06-Jul-19 11:00:00		**12.63**	**18.92**	**83.84**	**88.63**
06-Jul-19 12:00:00	06-Jul-19 13:00:00		7.64	0.00	0.00	94.88	2.1	329.7		2.52	0.00	0.00	31.28		10.35	18.92	83.84	86.68	06-Jul-19 12:00:00		**12.87**	**18.92**	**83.84**	**117.96**
06-Jul-19 13:00:00	06-Jul-19 14:00:00		16.13	0.00	0.00	9.00	2.1	329.7		5.32	0.00	0.00	2.97		10.35	18.92	83.84	86.68	06-Jul-19 13:00:00		**15.67**	**18.92**	**83.84**	**89.65**
06-Jul-19 14:00:00	06-Jul-19 15:00:00		19.93	0.00	0.00	5.46	2.1	329.7		6.57	0.00	0.00	1.80		10.35	18.92	83.84	86.68	06-Jul-19 14:00:00		**16.92**	**18.92**	**83.84**	**88.48**
06-Jul-19 15:00:00	06-Jul-19 16:00:00		10.02	0.00	0.00	5.60	2.1	329.7		3.30	0.00	0.00	1.85		10.35	18.92	83.84	86.68	06-Jul-19 15:00:00		**13.65**	**18.92**	**83.84**	**88.53**
06-Jul-19 16:00:00	06-Jul-19 17:00:00		8.19	0.00	0.00	11.48	2.1	329.7		2.70	0.00	0.00	3.78		10.35	18.92	83.84	86.68	06-Jul-19 16:00:00		**13.05**	**18.92**	**83.84**	**90.46**
06-Jul-19 17:00:00	06-Jul-19 18:00:00		20.76	0.00	0.00	5.36	2.1	329.7		6.84	0.00	0.00	1.77		10.35	18.92	83.84	86.68	06-Jul-19 17:00:00		**17.19**	**18.92**	**83.84**	**88.45**
06-Jul-19 18:00:00	06-Jul-19 19:00:00		17.36	0.00	0.00	39.43	2.1	329.7		5.72	0.00	0.00	13.00		10.35	18.92	83.84	86.68	06-Jul-19 18:00:00		**16.07**	**18.92**	**83.84**	**99.68**
06-Jul-19 19:00:00	06-Jul-19 20:00:00		17.63	0.00	0.00	8.38	2.1	329.7		5.81	0.00	0.00	2.76		10.35	18.92	83.84	86.68	06-Jul-19 19:00:00		**16.16**	**18.92**	**83.84**	**89.44**
06-Jul-19 20:00:00	06-Jul-19 21:00:00		17.89	0.00	0.00	5.32	2.1	329.7		5.90	0.00	0.00	1.76		10.35	18.92	83.84	86.68	06-Jul-19 20:00:00		**16.25**	**18.92**	**83.84**	**88.44**
06-Jul-19 21:00:00	06-Jul-19 22:00:00		18.27	0.00	0.00	190.44	2.1	329.7		6.02	0.00	0.00	62.79		10.35	18.92	83.84	86.68	06-Jul-19 21:00:00		**16.37**	**18.92**	**83.84**	**149.47**
06-Jul-19 22:00:00	06-Jul-19 23:00:00		19.13	0.00	0.00	5.69	2.1	329.7		6.31	0.00	0.00	1.88		10.35	18.92	83.84	86.68	06-Jul-19 22:00:00		**16.66**	**18.92**	**83.84**	**88.56**
06-Jul-19 23:00:00	07-Jul-19 00:00:00		20.05	0.00	0.00	5.75	2.1	329.7		6.61	0.00	0.00	1.90		10.35	18.92	83.84	86.68	06-Jul-19 23:00:00		**16.96**	**18.92**	**83.84**	**88.58**
07-Jul-19 00:00:00	07-Jul-19 01:00:00		21.33	0.00	0.00	5.82	2.1	329.7		7.03	0.00	0.00	1.92		10.35	18.92	83.84	86.68	07-Jul-19 00:00:00		**17.38**	**18.92**	**83.84**	**88.60**
07-Jul-19 01:00:00	07-Jul-19 02:00:00		24.44	0.00	0.00	48.88	2.1	329.7		8.06	0.00	0.00	16.11		10.35	18.92	83.84	86.68	07-Jul-19 01:00:00		**18.41**	**18.92**	**83.84**	**102.79**
07-Jul-19 02:00:00	07-Jul-19 03:00:00		4.63	0.00	0.00	5.93	2.1	329.7		1.53	0.00	0.00	1.96		10.35	18.92	83.84	86.68	07-Jul-19 02:00:00		**11.88**	**18.92**	**83.84**	**88.64**
07-Jul-19 03:00:00	07-Jul-19 04:00:00		4.97	0.00	0.00	6.02	2.1	329.7		1.64	0.00	0.00	1.98		10.35	18.92	83.84	86.68	07-Jul-19 03:00:00		**11.99**	**18.92**	**83.84**	**88.66**
07-Jul-19 04:00:00	07-Jul-19 05:00:00		28.04	0.00	0.00	7.62	2.1	329.7		9.24	0.00	0.00	2.51		10.35	18.92	83.84	86.68	07-Jul-19 04:00:00		**19.59**	**18.92**	**83.84**	**89.19**
07-Jul-19 05:00:00	07-Jul-19 06:00:00		11.24	0.00	0.00	6.46	2.1	329.7		3.71	0.00	0.00	2.13		10.35	18.92	83.84	86.68	07-Jul-19 05:00:00		**14.06**	**18.92**	**83.84**	**88.81**
07-Jul-19 06:00:00	07-Jul-19 07:00:00		1.17	0.00	0.00	6.44	2.1	329.7		0.39	0.00	0.00	2.12		10.35	18.92	83.84	86.68	07-Jul-19 06:00:00		**10.74**	**18.92**	**83.84**	**88.80**
07-Jul-19 07:00:00	07-Jul-19 08:00:00		2.62	0.00	0.00	36.45	2.1	329.7		0.86	0.00	0.00	12.02		10.35	18.92	83.84	86.68	07-Jul-19 07:00:00		**11.21**	**18.92**	**83.84**	**98.70**
07-Jul-19 08:00:00	07-Jul-19 09:00:00		3.23	0.00	0.00	6.17	2.1	329.7		1.07	0.00	0.00	2.03		10.35	18.92	83.84	86.68	07-Jul-19 08:00:00		**11.42**	**18.92**	**83.84**	**88.71**
07-Jul-19 09:00:00	07-Jul-19 10:00:00		2.65	0.00	0.00	6.02	2.1	329.7		0.87	0.00	0.00	1.98		10.35	18.92	83.84	86.68	07-Jul-19 09:00:00		**11.22**	**18.92**	**83.84**	**88.66**
07-Jul-19 10:00:00	07-Jul-19 11:00:00		1.88	0.00	0.00	14.55	2.1	329.7		0.62	0.00	0.00	4.80		10.35	18.92	83.84	86.68	07-Jul-19 10:00:00		**10.97**	**18.92**	**83.84**	**91.48**
07-Jul-19 11:00:00	07-Jul-19 12:00:00		10.27	0.00	0.00	5.65	2.1	329.7		3.39	0.00	0.00	1.86		10.35	18.92	83.84	86.68	07-Jul-19 11:00:00		**13.74**	**18.92**	**83.84**	**88.54**
07-Jul-19 12:00:00	07-Jul-19 13:00:00		6.71	0.00	0.00	5.43	2.1	329.7		2.21	0.00	0.00	1.79		10.35	18.92	83.84	86.68	07-Jul-19 12:00:00		**12.56**	**18.92**	**83.84**	**88.47**
07-Jul-19 13:00:00	07-Jul-19 14:00:00		18.23	0.00	0.00	16.38	2.1	329.7		6.01	0.00	0.00	5.40		10.35	18.92	83.84	86.68	07-Jul-19 13:00:00		**16.36**	**18.92**	**83.84**	**92.08**
07-Jul-19 14:00:00	07-Jul-19 15:00:00		8.20	0.00	0.00	86.32	2.1	329.7		2.70	0.00	0.00	28.46		10.35	18.92	83.84	86.68	07-Jul-19 14:00:00		**13.05**	**18.92**	**83.84**	**115.14**
07-Jul-19 15:00:00	07-Jul-19 16:00:00		0.15	0.00	0.00	5.14	2.1	329.7		0.05	0.00	0.00	1.69		10.35	18.92	83.84	86.68	07-Jul-19 15:00:00		**10.40**	**18.92**	**83.84**	**88.37**
07-Jul-19 16:00:00	07-Jul-19 17:00:00		0.00	0.00	0.00	5.28	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	07-Jul-19 16:00:00		**10.35**	**18.92**	**83.84**	**88.42**
07-Jul-19 17:00:00	07-Jul-19 18:00:00		0.00	0.00	0.00	45.47	2.1	329.7		0.00	0.00	0.00	14.99		10.35	18.92	83.84	86.68	07-Jul-19 17:00:00		**10.35**	**18.92**	**83.84**	**101.67**
07-Jul-19 18:00:00	07-Jul-19 19:00:00		0.28	0.00	0.00	5.20	2.1	329.7		0.09	0.00	0.00	1.71		10.35	18.92	83.84	86.68	07-Jul-19 18:00:00		**10.44**	**18.92**	**83.84**	**88.39**
07-Jul-19 19:00:00	07-Jul-19 20:00:00		0.87	0.00	0.00	5.20	2.1	329.7		0.29	0.00	0.00	1.71		10.35	18.92	83.84	86.68	07-Jul-19 19:00:00		**10.64**	**18.92**	**83.84**	**88.39**
07-Jul-19 20:00:00	07-Jul-19 21:00:00		2.25	0.00	0.00	61.70	2.1	329.7		0.74	0.00	0.00	20.34		10.35	18.92	83.84	86.68	07-Jul-19 20:00:00		**11.09**	**18.92**	**83.84**	**107.02**
07-Jul-19 21:00:00	07-Jul-19 22:00:00		7.91	0.00	0.00	5.49	2.1	329.7		2.61	0.00	0.00	1.81		10.35	18.92	83.84	86.68	07-Jul-19 21:00:00		**12.96**	**18.92**	**83.84**	**88.49**
07-Jul-19 22:00:00	07-Jul-19 23:00:00		8.41	0.00	0.00	5.71	2.1	329.7		2.77	0.00	0.00	1.88		10.35	18.92	83.84	86.68	07-Jul-19 22:00:00		**13.12**	**18.92**	**83.84**	**88.56**
07-Jul-19 23:00:00	08-Jul-19 00:00:00		27.33	0.00	0.00	6.29	2.1	329.7		9.01	0.00	0.00	2.07		10.35	18.92	83.84	86.68	07-Jul-19 23:00:00		**19.36**	**18.92**	**83.84**	**88.75**
08-Jul-19 00:00:00	08-Jul-19 01:00:00		14.47	0.00	0.00	5.93	2.1	329.7		4.77	0.00	0.00	1.96		10.35	18.92	83.84	86.68	08-Jul-19 00:00:00		**15.12**	**18.92**	**83.84**	**88.64**
08-Jul-19 01:00:00	08-Jul-19 02:00:00		6.17	0.00	0.00	5.98	2.1	329.7		2.04	0.00	0.00	1.97		10.35	18.92	83.84	86.68	08-Jul-19 01:00:00		**12.39**	**18.92**	**83.84**	**88.65**
08-Jul-19 02:00:00	08-Jul-19 03:00:00		2.65	0.00	0.00	32.28	2.1	329.7		0.88	0.00	0.00	10.64		10.35	18.92	83.84	86.68	08-Jul-19 02:00:00		**11.23**	**18.92**	**83.84**	**97.32**
08-Jul-19 03:00:00	08-Jul-19 04:00:00		8.79	0.00	0.00	5.93	2.1	329.7		2.90	0.00	0.00	1.96		10.35	18.92	83.84	86.68	08-Jul-19 03:00:00		**13.25**	**18.92**	**83.84**	**88.64**
08-Jul-19 04:00:00	08-Jul-19 05:00:00		44.41	0.00	0.00	6.04	2.1	329.7		14.64	0.00	0.00	1.99		10.35	18.92	83.84	86.68	08-Jul-19 04:00:00		**24.99**	**18.92**	**83.84**	**88.67**
08-Jul-19 05:00:00	08-Jul-19 06:00:00		35.72	0.00	0.00	29.70	2.1	329.7		11.78	0.00	0.00	9.79		10.35	18.92	83.84	86.68	08-Jul-19 05:00:00		**22.13**	**18.92**	**83.84**	**96.47**
08-Jul-19 06:00:00	08-Jul-19 07:00:00		30.39	0.00	0.00	6.05	2.1	329.7		10.02	0.00	0.00	2.00		10.35	18.92	83.84	86.68	08-Jul-19 06:00:00		**20.37**	**18.92**	**83.84**	**88.68**
08-Jul-19 07:00:00	08-Jul-19 08:00:00		29.83	0.00	0.00	6.08	2.1	329.7		9.84	0.00	0.00	2.00		10.35	18.92	83.84	86.68	08-Jul-19 07:00:00		**20.19**	**18.92**	**83.84**	**88.68**
08-Jul-19 08:00:00	08-Jul-19 09:00:00		39.04	0.00	0.00	63.44	2.1	329.7		12.87	0.00	0.00	20.92		10.35	18.92	83.84	86.68	08-Jul-19 08:00:00		**23.22**	**18.92**	**83.84**	**107.60**
08-Jul-19 09:00:00	08-Jul-19 10:00:00		41.71	0.00	0.00	48.64	2.1	329.7		13.75	0.00	0.00	16.04		10.35	18.92	83.84	86.68	08-Jul-19 09:00:00		**24.10**	**18.92**	**83.84**	**102.72**
08-Jul-19 10:00:00	08-Jul-19 11:00:00		37.83	0.00	0.00	5.65	2.1	329.7		12.47	0.00	0.00	1.86		10.35	18.92	83.84	86.68	08-Jul-19 10:00:00		**22.82**	**18.92**	**83.84**	**88.54**
08-Jul-19 11:00:00	08-Jul-19 12:00:00		17.98	0.00	0.00	15.03	2.1	329.7		5.93	0.00	0.00	4.95		10.35	18.92	83.84	86.68	08-Jul-19 11:00:00		**16.28**	**18.92**	**83.84**	**91.63**
08-Jul-19 12:00:00	08-Jul-19 13:00:00		16.25	0.00	0.00	5.08	2.1	329.7		5.36	0.00	0.00	1.67		10.35	18.92	83.84	86.68	08-Jul-19 12:00:00		**15.71**	**18.92**	**83.84**	**88.35**
08-Jul-19 13:00:00	08-Jul-19 14:00:00		5.06	0.00	0.00	4.92	2.1	329.7		1.67	0.00	0.00	1.62		10.35	18.92	83.84	86.68	08-Jul-19 13:00:00		**12.02**	**18.92**	**83.84**	**88.30**
08-Jul-19 14:00:00	08-Jul-19 15:00:00		1.18	0.00	0.00	4.75	2.1	329.7		0.39	0.00	0.00	1.57		10.35	18.92	83.84	86.68	08-Jul-19 14:00:00		**10.74**	**18.92**	**83.84**	**88.25**
08-Jul-19 15:00:00	08-Jul-19 16:00:00		3.01	0.00	0.00	13.17

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
10-Jul-19 17:00:00	10-Jul-19 18:00:00		3.45	0.00	0.00	5.12	2.1	329.7		1.14	0.00	0.00	1.69		10.35	18.92	83.84	86.68	10-Jul-19 17:00:00		**11.49**	**18.92**	**83.84**	**88.37**
10-Jul-19 18:00:00	10-Jul-19 19:00:00		3.04	0.00	0.00	11.50	2.1	329.7		1.00	0.00	0.00	3.79		10.35	18.92	83.84	86.68	10-Jul-19 18:00:00		**11.35**	**18.92**	**83.84**	**90.47**
10-Jul-19 19:00:00	10-Jul-19 20:00:00		5.88	0.00	0.00	5.13	2.1	329.7		1.94	0.00	0.00	1.69		10.35	18.92	83.84	86.68	10-Jul-19 19:00:00		**12.29**	**18.92**	**83.84**	**88.37**
10-Jul-19 20:00:00	10-Jul-19 21:00:00		5.06	0.00	0.00	5.21	2.1	329.7		1.67	0.00	0.00	1.72		10.35	18.92	83.84	86.68	10-Jul-19 20:00:00		**12.02**	**18.92**	**83.84**	**88.40**
10-Jul-19 21:00:00	10-Jul-19 22:00:00		4.16	0.00	0.00	25.09	2.1	329.7		1.37	0.00	0.00	8.27		10.35	18.92	83.84	86.68	10-Jul-19 21:00:00		**11.72**	**18.92**	**83.84**	**94.95**
10-Jul-19 22:00:00	10-Jul-19 23:00:00		3.31	0.00	0.00	5.51	2.1	329.7		1.09	0.00	0.00	1.82		10.35	18.92	83.84	86.68	10-Jul-19 22:00:00		**11.44**	**18.92**	**83.84**	**88.50**
10-Jul-19 23:00:00	11-Jul-19 00:00:00		3.43	0.00	0.00	8.78	2.1	329.7		1.13	0.00	0.00	2.89		10.35	18.92	83.84	86.68	10-Jul-19 23:00:00		**11.48**	**18.92**	**83.84**	**89.57**
11-Jul-19 00:00:00	11-Jul-19 01:00:00		13.67	0.00	0.00	97.87	2.1	329.7		4.51	0.00	0.00	32.27		10.35	18.92	83.84	86.68	11-Jul-19 00:00:00		**14.86**	**18.92**	**83.84**	**118.95**
11-Jul-19 01:00:00	11-Jul-19 02:00:00		1.32	0.00	0.00	5.78	2.1	329.7		0.44	0.00	0.00	1.91		10.35	18.92	83.84	86.68	11-Jul-19 01:00:00		**10.79**	**18.92**	**83.84**	**88.59**
11-Jul-19 02:00:00	11-Jul-19 03:00:00		0.00	0.00	0.00	36.91	2.1	329.7		0.00	0.00	0.00	12.17		10.35	18.92	83.84	86.68	11-Jul-19 02:00:00		**10.35**	**18.92**	**83.84**	**98.85**
11-Jul-19 03:00:00	11-Jul-19 04:00:00		9.27	0.00	0.00	42.57	2.1	329.7		3.06	0.00	0.00	14.04		10.35	18.92	83.84	86.68	11-Jul-19 03:00:00		**13.41**	**18.92**	**83.84**	**100.72**
11-Jul-19 04:00:00	11-Jul-19 05:00:00		25.27	0.00	0.00	5.92	2.1	329.7		8.33	0.00	0.00	1.95		10.35	18.92	83.84	86.68	11-Jul-19 04:00:00		**18.68**	**18.92**	**83.84**	**88.63**
11-Jul-19 05:00:00	11-Jul-19 06:00:00		26.01	0.00	0.00	5.88	2.1	329.7		8.57	0.00	0.00	1.94		10.35	18.92	83.84	86.68	11-Jul-19 05:00:00		**18.92**	**18.92**	**83.84**	**88.62**
11-Jul-19 06:00:00	11-Jul-19 07:00:00		13.93	0.00	0.00	5.83	2.1	329.7		4.59	0.00	0.00	1.92		10.35	18.92	83.84	86.68	11-Jul-19 06:00:00		**14.94**	**18.92**	**83.84**	**88.60**
11-Jul-19 07:00:00	11-Jul-19 08:00:00		9.69	0.00	0.00	12.25	2.1	329.7		3.19	0.00	0.00	4.04		10.35	18.92	83.84	86.68	11-Jul-19 07:00:00		**13.54**	**18.92**	**83.84**	**90.72**
11-Jul-19 08:00:00	11-Jul-19 09:00:00		0.00	0.00	0.00	5.72	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	11-Jul-19 08:00:00		**10.35**	**18.92**	**83.84**	**88.57**
11-Jul-19 09:00:00	11-Jul-19 10:00:00		0.00	0.00	0.00	5.67	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	11-Jul-19 09:00:00		**10.35**	**18.92**	**83.84**	**88.55**
11-Jul-19 10:00:00	11-Jul-19 11:00:00		1.20	0.00	0.00	13.18	2.1	329.7		0.39	0.00	0.00	4.35		10.35	18.92	83.84	86.68	11-Jul-19 10:00:00		**10.74**	**18.92**	**83.84**	**91.03**
11-Jul-19 11:00:00	11-Jul-19 12:00:00		12.51	0.00	0.00	6.32	2.1	329.7		4.12	0.00	0.00	2.09		10.35	18.92	83.84	86.68	11-Jul-19 11:00:00		**14.47**	**18.92**	**83.84**	**88.77**
11-Jul-19 12:00:00	11-Jul-19 13:00:00		3.75	0.00	0.00	5.67	2.1	329.7		1.24	0.00	0.00	1.87		10.35	18.92	83.84	86.68	11-Jul-19 12:00:00		**11.59**	**18.92**	**83.84**	**88.55**
11-Jul-19 13:00:00	11-Jul-19 14:00:00		10.38	0.00	0.00	11.80	2.1	329.7		3.42	0.00	0.00	3.89		10.35	18.92	83.84	86.68	11-Jul-19 13:00:00		**13.77**	**18.92**	**83.84**	**90.57**
11-Jul-19 14:00:00	11-Jul-19 15:00:00		23.52	0.00	0.00	5.05	2.1	329.7		7.75	0.00	0.00	1.66		10.35	18.92	83.84	86.68	11-Jul-19 14:00:00		**18.10**	**18.92**	**83.84**	**88.34**
11-Jul-19 15:00:00	11-Jul-19 16:00:00		4.26	0.00	0.00	4.91	2.1	329.7		1.41	0.00	0.00	1.62		10.35	18.92	83.84	86.68	11-Jul-19 15:00:00		**11.76**	**18.92**	**83.84**	**88.30**
11-Jul-19 16:00:00	11-Jul-19 17:00:00		29.49	0.00	0.00	101.26	2.1	329.7		9.72	0.00	0.00	33.38		10.35	18.92	83.84	86.68	11-Jul-19 16:00:00		**20.07**	**18.92**	**83.84**	**120.06**
11-Jul-19 17:00:00	11-Jul-19 18:00:00		31.95	0.00	0.00	4.87	2.1	329.7		10.53	0.00	0.00	1.61		10.35	18.92	83.84	86.68	11-Jul-19 17:00:00		**20.88**	**18.92**	**83.84**	**88.29**
11-Jul-19 18:00:00	11-Jul-19 19:00:00		29.47	0.00	0.00	5.12	2.1	329.7		9.72	0.00	0.00	1.69		10.35	18.92	83.84	86.68	11-Jul-19 18:00:00		**20.07**	**18.92**	**83.84**	**88.37**
11-Jul-19 19:00:00	11-Jul-19 20:00:00		36.71	0.00	0.00	5.38	2.1	329.7		12.10	0.00	0.00	1.77		10.35	18.92	83.84	86.68	11-Jul-19 19:00:00		**22.45**	**18.92**	**83.84**	**88.45**
11-Jul-19 20:00:00	11-Jul-19 21:00:00		37.01	0.00	0.00	13.79	2.1	329.7		12.20	0.00	0.00	4.55		10.35	18.92	83.84	86.68	11-Jul-19 20:00:00		**22.55**	**18.92**	**83.84**	**91.23**
11-Jul-19 21:00:00	11-Jul-19 22:00:00		25.39	0.00	0.00	5.48	2.1	329.7		8.37	0.00	0.00	2.81		10.35	18.92	83.84	86.68	11-Jul-19 21:00:00		**18.72**	**18.92**	**83.84**	**88.49**
11-Jul-19 22:00:00	11-Jul-19 23:00:00		4.07	0.00	0.00	5.63	2.1	329.7		1.34	0.00	0.00	1.86		10.35	18.92	83.84	86.68	11-Jul-19 22:00:00		**11.69**	**18.92**	**83.84**	**88.54**
11-Jul-19 23:00:00	12-Jul-19 00:00:00		2.14	0.00	0.00	6.37	2.1	329.7		0.71	0.00	0.00	2.10		10.35	18.92	83.84	86.68	11-Jul-19 23:00:00		**11.06**	**18.92**	**83.84**	**88.78**
12-Jul-19 00:00:00	12-Jul-19 01:00:00		4.81	0.00	0.00	5.97	2.1	329.7		1.59	0.00	0.00	1.97		10.35	18.92	83.84	86.68	12-Jul-19 00:00:00		**11.94**	**18.92**	**83.84**	**88.65**
12-Jul-19 01:00:00	12-Jul-19 02:00:00		4.16	0.00	0.00	6.10	2.1	329.7		1.37	0.00	0.00	2.01		10.35	18.92	83.84	86.68	12-Jul-19 01:00:00		**11.72**	**18.92**	**83.84**	**88.69**
12-Jul-19 02:00:00	12-Jul-19 03:00:00		13.10	0.00	0.00	9.19	2.1	329.7		4.32	0.00	0.00	3.03		10.35	18.92	83.84	86.68	12-Jul-19 02:00:00		**14.67**	**18.92**	**83.84**	**89.71**
12-Jul-19 03:00:00	12-Jul-19 04:00:00		19.73	0.00	0.00	6.15	2.1	329.7		6.51	0.00	0.00	2.03		10.35	18.92	83.84	86.68	12-Jul-19 03:00:00		**16.86**	**18.92**	**83.84**	**88.71**
12-Jul-19 04:00:00	12-Jul-19 05:00:00		17.54	0.00	0.00	6.04	2.1	329.7		5.78	0.00	0.00	1.99		10.35	18.92	83.84	86.68	12-Jul-19 04:00:00		**16.13**	**18.92**	**83.84**	**88.67**
12-Jul-19 05:00:00	12-Jul-19 06:00:00		11.77	0.00	0.00	5.93	2.1	329.7		3.88	0.00	0.00	1.95		10.35	18.92	83.84	86.68	12-Jul-19 05:00:00		**14.23**	**18.92**	**83.84**	**88.63**
12-Jul-19 06:00:00	12-Jul-19 07:00:00		8.23	0.00	0.00	47.49	2.1	329.7		2.71	0.00	0.00	15.66		10.35	18.92	83.84	86.68	12-Jul-19 06:00:00		**13.06**	**18.92**	**83.84**	**102.34**
12-Jul-19 07:00:00	12-Jul-19 08:00:00		8.51	0.00	0.00	5.90	2.1	329.7		2.81	0.00	0.00	1.94		10.35	18.92	83.84	86.68	12-Jul-19 07:00:00		**13.16**	**18.92**	**83.84**	**88.62**
12-Jul-19 08:00:00	12-Jul-19 09:00:00		9.57	0.00	0.00	8.29	2.1	329.7		3.16	0.00	0.00	2.73		10.35	18.92	83.84	86.68	12-Jul-19 08:00:00		**13.51**	**18.92**	**83.84**	**89.41**
12-Jul-19 09:00:00	12-Jul-19 10:00:00		9.72	0.00	0.00	17.97	2.1	329.7		3.21	0.00	0.00	5.92		10.35	18.92	83.84	86.68	12-Jul-19 09:00:00		**13.56**	**18.92**	**83.84**	**92.60**
12-Jul-19 10:00:00	12-Jul-19 11:00:00		8.59	0.00	0.00	5.92	2.1	329.7		2.83	0.00	0.00	1.95		10.35	18.92	83.84	86.68	12-Jul-19 10:00:00		**13.18**	**18.92**	**83.84**	**88.63**
12-Jul-19 11:00:00	12-Jul-19 12:00:00		5.52	0.00	0.00	5.77	2.1	329.7		1.82	0.00	0.00	1.90		10.35	18.92	83.84	86.68	12-Jul-19 11:00:00		**12.17**	**18.92**	**83.84**	**88.58**
12-Jul-19 12:00:00	12-Jul-19 13:00:00		2.18	0.00	0.00	32.56	2.1	329.7		0.72	0.00	0.00	10.73		10.35	18.92	83.84	86.68	12-Jul-19 12:00:00		**11.07**	**18.92**	**83.84**	**97.41**
12-Jul-19 13:00:00	12-Jul-19 14:00:00		13.86	0.00	0.00	5.48	2.1	329.7		4.57	0.00	0.00	1.81		10.35	18.92	83.84	86.68	12-Jul-19 13:00:00		**14.92**	**18.92**	**83.84**	**88.49**
12-Jul-19 14:00:00	12-Jul-19 15:00:00		14.68	0.00	0.00	5.38	2.1	329.7		4.84	0.00	0.00	1.77		10.35	18.92	83.84	86.68	12-Jul-19 14:00:00		**15.19**	**18.92**	**83.84**	**88.45**
12-Jul-19 15:00:00	12-Jul-19 16:00:00		6.15	0.00	0.00	11.44	2.1	329.7		2.03	0.00	0.00	3.77		10.35	18.92	83.84	86.68	12-Jul-19 15:00:00		**12.38**	**18.92**	**83.84**	**90.45**
12-Jul-19 16:00:00	12-Jul-19 17:00:00		0.00	0.00	0.00	5.26	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	12-Jul-19 16:00:00		**10.35**	**18.92**	**83.84**	**88.42**
12-Jul-19 17:00:00	12-Jul-19 18:00:00		0.00	0.00	0.00	5.31	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	12-Jul-19 17:00:00		**10.35**	**18.92**	**83.84**	**88.43**
12-Jul-19 18:00:00	12-Jul-19 19:00:00		0.00	0.00	0.00	12.00	2.1	329.7		0.00	0.00	0.00	3.96		10.35	18.92	83.84	86.68	12-Jul-19 18:00:00		**10.35**	**18.92**	**83.84**	**90.64**
12-Jul-19 19:00:00	12-Jul-19 20:00:00		0.00	0.00	0.00	5.49	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	12-Jul-19 19:00:00		**10.35**	**18.92**	**83.84**	**88.49**
12-Jul-19 20:00:00	12-Jul-19 21:00:00		0.00	0.00	0.00	5.53	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	12-Jul-19 20:00:00		**10.35**	**18.92**	**83.84**	**88.50**
12-Jul-19 21:00:00	12-Jul-19 22:00:00		0.06	0.00	0.00	5.56	2.1	329.7		0.02	0.00	0.00	1.83		10.35	18.92	83.84	86.68	12-Jul-19 21:00:00		**10.37**	**18.92**	**83.84**	**88.51**
12-Jul-19 22:00:00	12-Jul-19 23:00:00		1.48	0.00	0.00	8.43	2.1	329.7		0.49	0.00	0.00	2.78		10.35	18.92	83.84	86.68	12-Jul-19 22:00:00		**10.84**	**18.92**	**83.84**	**89.46**
12-Jul-19 23:00:00	13-Jul-19 00:00:00		6.51	0.00	0.00	5.57	2.1	329.7		2.15	0.00	0.00	1.84		10.35	18.92	83.84	86.68	12-Jul-19 23:00:00		**12.50**	**18.92**	**83.84**	**88.52**
13-Jul-19 00:00:00	13-Jul-19 01:00:00		5.36	0.00	0.00	5.50	2.1	329.7		1.77	0.00	0.00	1.81		10.35	18.92	83.84	86.68	13-Jul-19 00:00:00		**12.12**	**18.92**	**83.84**	**88.49**
13-Jul-19 01:00:00	13-Jul-19 02:00:00		29.17	0.00	0.00	104.17	2.1	329.7		9.62	0.00	0.00	34.34		10.35	18.92	83.84	86.68	13-Jul-19 01:00:00		**19.97**	**18.92**	**83.84**	**121.02**
13-Jul-19 02:00:00	13-Jul-19 03:00:00		26.99	0.00	0.00	5.72	2.1	329.7		8.90	0.00	0.00	1.89		10.35	18.92	83.84	86.68	13-Jul-19 02:00:00		**19.25**	**18.92**	**83.84**	**88.57**
13-Jul-19 03:00:00	13-Jul-19 04:00:00		23.76	0.00	0.00	5.75	2.1	329.7		7.83	0.00	0.00	1.90		10.35	18.92	83.84	86.68	13-Jul-19 03:00:00		**18.18**	**18.92**	**83.84**	**88.58**
13-Jul-19 04:00:00	13-Jul-19 05:00:00		16.16	0.00	0.00	6.03	2.1	329.7		5.33	0.00	0.00	1.99		10.35	18.92	83.84	86.68	13-Jul-19 04:00:00		**15.68**	**18.92**	**83.84**	**88.67**
13-Jul-19 05:00:00	13-Jul-19 06:00:00		7.66	0.00	0.00	5.77	2.1	329.7		2.53	0.00	0.00	1.90		10.35	18.92	83.84	86.68	13-Jul-19 05:00:00		**12.88**	**18.92**	**83.84**	**88.58**
13-Jul-19 06:00:00	13-Jul-19 07:00:00		44.38	0.00	0.00	5.79	2.1	329.7		14.63	0.00	0.00	1.91		10.35	18.92	83.84	86.68	13-Jul-19 06:00:00		**24.98**	**18.92**	**83.84**	**88.59**
13-Jul-19 07:00:00	13-Jul-19 08:00:00		23.43	0.00	0.00	6.88	2.1	329.7		7.73	0.00	0.00	2.27		10.35	18.92	83.84	86.68	13-Jul-19 07:00:00		**18.08**	**18.92**	**83.84**	**88.95**
13-Jul-19 08:00:00	13-Jul-19 09:00:00		11.53	0.00	0.00	5.82	2.1	329.7		3.80	0.00	0.00	1.92		10.35	18.92	83.84	86.68	13-Jul-19 08:00:00		**14.15**	**18.92**	**83.84**	**88.60**
13-Jul-19 09:00:00	13-Jul-19 10:00:00		9.32	0.00	0.00	5.70	2.1	329.7		3.07	0.00	0.00	1.88		10.35	18.92	83.84	86.68	13-Jul-19 09:00:00		**13.42**	**18.92**	**83.84**	**88.56**
13-Jul-19 10:00:00	13-Jul-19 11:00:00		11.04	0.00	0.00	6.40	2.1	329.7		3.64	0.00	0.00	2.11		10.35	18.92	83.84	86.68	13-Jul-19 10:00:00		**13.99**	**18.92**	**83.84**	**88.79**
13-Jul-19 11:00:00	13-Jul-19 12:00:00		13.38	0.00	0.00	5.27	2.1	329.7		4.41	0.00	0.00	1.74		10.35	18.92	83.84	86.68	13-Jul-19 11:00:00		**14.76**	**18.92**	**83.84**	**88.42**
13-Jul-19 12:00:00	13-Jul-19 13:00:00		0.81	0.00	0.00	5.00	2.1	329.7		0.27	0.00	0.00	1.65		10.35	18.92	83.84	86.68	13-Jul-19 12:00:00		**10.62**	**18.92**	**83.84**	**88.33**
13-Jul-19 13:00:00	13-Jul-19 14:00:00		12.27	0.00	0.00	33.77	2.1	329.7		4.05	0.00	0.00	11.13		10.35	18.92	83.84	86.68	13-Jul-19 13:00:00		**14.40**	**18.92**	**83.84**	**97.81**
13-Jul-19 14:00:00	13-Jul-19 15:00:00		0.91	0.00	0.00	4.96	2.1	329.7		0.30	0.00	0.00	1.63		10.35	18.92	83.84	86.68	13-Jul-19 14:00:00		**10.65**	**18.92**	**83.84**	**88.31**
13-Jul-19 15:00:00	13-Jul-19 16:00:00		0.00	0.00	0.00	5.07	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	13-Jul-19 15:00:00		**10.35**	**18.92**	**83.84**	**88.35**
13-Jul-19 16:00:00	13-Jul-19 17:00:00		0.00	0.00	0.00	5.27	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	13-Jul-19 16:00:00		**10.35**	**18.92**	**83.84**	**88.42**
13-Jul-19 17:00:00	13-Jul-19 18:00:00		0.00	0.00	0.00	50.74	2.1	329.7		0.00	0.00	0.00	16.73		10.35	18.92	83.84	86.68	13-Jul-19 17:00:00		**10.35**	**18.92**	**83.84**	**103.41**
13-Jul-19 18:00:00	13-Jul-19 19:00:00		8.02	0.00	0.00	7.57	2.1	329.7		2.65	0.00	0.00	2.50		10.35	18.92	83.84	86.68	13-Jul-19 18:00:00		**13.00**	**18.92**	**83.84**	**89.18**
13-Jul-19 19:00:00	13-Jul-19 20:00:00		15.15	0.00	0.00	5.92	2.1	329.7		4.99	0.00	0.00	1.95		10.35	18.92	83.84	86.68	13-Jul-19 19:00:00		**15.34**	**18.92**	**83.84**	**88.63**
13-Jul-19 20:00:00	13-Jul-19 21:00:00		24.52	0.00	0.00	81.37	2.1	329.7		8.08	0.00	0.00	26.83		10.35	18.92	83.84	86.68	13-Jul-19 20:00:00		**18.43**	**18.92**	**83.84**	**113.51**
13-Jul-19 21:00:00	13-Jul-19 22:00:00		26.24	0.00	0.00	6.07	2.1	329.7		8.65	0.00	0.00	2.00		10.35	18.92	83.84	86.68	13-Jul-19 21:00:00		**19.00**	**18.92**	**83.84**	**88.68**
13-Jul-19 22:00:00	13-Jul-19 23:00:00		16.58	0.00	0.00	6.10	2.1	329.7		5.47	0.00	0.00	2.01		10.35	18.92	83.84	86.68	13-Jul-19 22:00:00		**15.82**	**18.92**	**83.84**	**88.69**
13-Jul-19 23:00:00	14-Jul-19 00:00:00		14.87	0.00	0.00	71.98	2.1	329.7		4.90	0.00	0.00	23.73		10.35	18.92	83.84	86.68	13-Jul-19 23:00:00		**15.25**	**18.92**	**83.84**	**110.41**
14-Jul-19 00:00:00	14-Jul-19 01:00:00		22.06	0.00	0.00	6.62	2.1	329.7		7.27	0.00	0.00	2.18		10.35	18.92	83.84	86.68	14-Jul-19 00:00:00		**17.62**	**18.92**	**83.84**	**88.86**
14-Jul-19 01:00:00	14-Jul-19 02:00:00		33.32	0.00	0.00	6.45	2.1	329.7		10.99	0.00	0.00	2.13		10.35	18.92	83.84	86.68	14-Jul-19 01:00:00		**21.34**	**18.92**	**83.84**	**88.81**
14-Jul-19 02:00:00	14-Jul-19 03:00:00		31.69	0.00	0.00	14.50	2.1	329.7		10.45	0.00	0.00	4.78		10.35	18.92	83.84	86.68	14-Jul-19 02:00:00		**20.80**	**18.92**	**83.84**	**91.46**
14-Jul-19 03:00:00	14-Jul-19 04:00:00		30.88	0.00	0.00	6.32	2.1	329.7		10.18	0.00	0.00	2.08		10.35	18.92	83.84	86.68	14-Jul-19 03:00:00		**20.53**	**18.92**	**83.84**	**88.76**
14-Jul-19 04:00:00	14-Jul-19 05:00:00		30.81	0.00	0.00	6.33	2.1	329.7		10.16	0.00	0.00	2.09		10.35	18.92	83.84	86.68	14-Jul-19 04:00:00		**20.51**	**18.92**	**83.84**	**88.77**
14-Jul-19 05:00:00	14-Jul-19 06:00:00		21.72	0.00	0.00	13.22	2.1	329.7		7.16	0.00	0.00	4.36		10.35	18.92	83.84	86.68	14-Jul-19 05:00:00		**17.51**	**18.92**	**83.84**	**91.04**
14-Jul-19 06:00:00	14-Jul-19 07:00:00		18.06	0.00	0.00	6.20	2.1	329.7		5.96	0.00	0.00	2.04		10.35	18.92	83.84	86.68	14-Jul-19 06:00:00		**16.31**	**18.92**	**83.84**	**88.72**
14-Jul-19 07:00:00	14-Jul-19 08:00:00		19.36	0.00	0.00	6.05	2.1	329.7		6.38	0.00	0.00	2.00		10.35	18.92	83.84	86.68	14-Jul-19 07:00:00		**16.73**	**18.92**	**83.84**	**88.68**
14-Jul-19 08:00:00	14-Jul-19 09:00:00		15.54	0.00	0.00	8.85	2.1	329.7		5.12	0.00	0.00	2.92		10.35	18.92	83.84	86.68	14-Jul-19 08:00:00		**15.47**	**18.92**	**83.84**	**89.60**
14-Jul-19 09:00:00	14-Jul-19 10:00:00		15.06	0.00	0.00	5.50	2.1	329.7		4.96	0.00	0.00	1.81		10.35	18.92	83.84	86.68	14-Jul-19 09:00:00		**15.31**	**18.92**	**83.84**	**88.49**
14-Jul-19 10:00:00	14-Jul-19 11:00:00		18.61	0.00	0.00	5.21	2.1	329.7		6.13	0.00	0.00	1.72		10.35	18.92	83.84	86.68	14-Jul-19 10:00:00		**16.48**	**18.92**	**83.84**	**88.40**
14-Jul-19 11:00:00	14-Jul-19 12:00:00		11.78	0.00	0.00	38.22	2.1	329.7		3.88	0.00	0.00	12.60		10.35	18.92	83.84	86.68	14-Jul-19 11:00:00		**14.23**	**18.92**	**83.84**	**99.28**
14-Jul-19 12:00:00	14-Jul-19 13:00:00		23.56	0.00	0.00	4.86	2.1	329.7		7.77	0.00	0.00	1.60		10.35	18.92	83.84	86.68	14-Jul-19 12:00:00		**18.12**	**18.92**	**83.84**	**88.28**
14-Jul-19 13:00:00	14-Jul-19 14:00:00		30.09	0.00	0.00	4.76	2.1	329.7		9.92	0.00	0.00	1.57		10.35	18.92	83.84	86.68	14-Jul-19 13:00:00		**20.27**	**18.92**	**83.84**	**88.25**
14-Jul-19 14:00:00	14-Jul-19 15:00:00		30.80	0.00	0.00	70.57

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
16-Jul-19 16:00:00	16-Jul-19 17:00:00		1.50	0.00	0.00	4.69	2.1	329.7		0.50	0.00	0.00	1.55		10.35	18.92	83.84	86.68	16-Jul-19 16:00:00		**10.85**	**18.92**	**83.84**	**88.23**
16-Jul-19 17:00:00	16-Jul-19 18:00:00		1.36	0.00	0.00	15.09	2.1	329.7		0.45	0.00	0.00	4.97		10.35	18.92	83.84	86.68	16-Jul-19 17:00:00		**10.80**	**18.92**	**83.84**	**91.65**
16-Jul-19 18:00:00	16-Jul-19 19:00:00		3.67	0.00	0.00	4.63	2.1	329.7		1.21	0.00	0.00	1.53		10.35	18.92	83.84	86.68	16-Jul-19 18:00:00		**11.56**	**18.92**	**83.84**	**88.21**
16-Jul-19 19:00:00	16-Jul-19 20:00:00		3.62	0.00	0.00	4.66	2.1	329.7		1.19	0.00	0.00	1.54		10.35	18.92	83.84	86.68	16-Jul-19 19:00:00		**11.54**	**18.92**	**83.84**	**88.22**
16-Jul-19 20:00:00	16-Jul-19 21:00:00		0.00	0.00	0.00	46.96	2.1	329.7		0.00	0.00	0.00	15.48		10.35	18.92	83.84	86.68	16-Jul-19 20:00:00		**10.35**	**18.92**	**83.84**	**102.16**
16-Jul-19 21:00:00	16-Jul-19 22:00:00		0.00	0.00	0.00	4.99	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	16-Jul-19 21:00:00		**10.35**	**18.92**	**83.84**	**88.33**
16-Jul-19 22:00:00	16-Jul-19 23:00:00		0.49	0.00	0.00	5.08	2.1	329.7		0.16	0.00	0.00	1.67		10.35	18.92	83.84	86.68	16-Jul-19 22:00:00		**10.51**	**18.92**	**83.84**	**88.35**
16-Jul-19 23:00:00	17-Jul-19 00:00:00		12.93	0.00	0.00	5.17	2.1	329.7		4.26	0.00	0.00	1.70		10.35	18.92	83.84	86.68	16-Jul-19 23:00:00		**14.61**	**18.92**	**83.84**	**88.38**
17-Jul-19 00:00:00	17-Jul-19 01:00:00		17.27	0.00	0.00	46.03	2.1	329.7		5.69	0.00	0.00	15.18		10.35	18.92	83.84	86.68	17-Jul-19 00:00:00		**16.04**	**18.92**	**83.84**	**101.86**
17-Jul-19 01:00:00	17-Jul-19 02:00:00		14.45	0.00	0.00	5.36	2.1	329.7		4.77	0.00	0.00	1.77		10.35	18.92	83.84	86.68	17-Jul-19 01:00:00		**15.12**	**18.92**	**83.84**	**88.45**
17-Jul-19 02:00:00	17-Jul-19 03:00:00		3.44	0.00	0.00	5.44	2.1	329.7		1.14	0.00	0.00	1.79		10.35	18.92	83.84	86.68	17-Jul-19 02:00:00		**11.49**	**18.92**	**83.84**	**88.47**
17-Jul-19 03:00:00	17-Jul-19 04:00:00		10.71	0.00	0.00	21.90	2.1	329.7		3.53	0.00	0.00	7.22		10.35	18.92	83.84	86.68	17-Jul-19 03:00:00		**13.88**	**18.92**	**83.84**	**93.90**
17-Jul-19 04:00:00	17-Jul-19 05:00:00		24.63	0.00	0.00	5.62	2.1	329.7		8.12	0.00	0.00	1.85		10.35	18.92	83.84	86.68	17-Jul-19 04:00:00		**18.47**	**18.92**	**83.84**	**88.53**
17-Jul-19 05:00:00	17-Jul-19 06:00:00		25.41	0.00	0.00	5.74	2.1	329.7		8.38	0.00	0.00	1.89		10.35	18.92	83.84	86.68	17-Jul-19 05:00:00		**18.73**	**18.92**	**83.84**	**88.57**
17-Jul-19 06:00:00	17-Jul-19 07:00:00		26.10	0.00	0.00	137.86	2.1	329.7		8.61	0.00	0.00	45.45		10.35	18.92	83.84	86.68	17-Jul-19 06:00:00		**18.96**	**18.92**	**83.84**	**132.13**
17-Jul-19 07:00:00	17-Jul-19 08:00:00		34.73	0.00	0.00	5.71	2.1	329.7		11.45	0.00	0.00	1.88		10.35	18.92	83.84	86.68	17-Jul-19 07:00:00		**21.80**	**18.92**	**83.84**	**88.56**
17-Jul-19 08:00:00	17-Jul-19 09:00:00		31.28	0.00	0.00	5.62	2.1	329.7		10.31	0.00	0.00	1.85		10.35	18.92	83.84	86.68	17-Jul-19 08:00:00		**20.66**	**18.92**	**83.84**	**88.53**
17-Jul-19 09:00:00	17-Jul-19 10:00:00		30.46	0.00	0.00	5.86	2.1	329.7		10.04	0.00	0.00	1.93		10.35	18.92	83.84	86.68	17-Jul-19 09:00:00		**20.39**	**18.92**	**83.84**	**88.61**
17-Jul-19 10:00:00	17-Jul-19 11:00:00		29.79	0.00	0.00	5.30	2.1	329.7		9.82	0.00	0.00	1.75		10.35	18.92	83.84	86.68	17-Jul-19 10:00:00		**20.17**	**18.92**	**83.84**	**88.43**
17-Jul-19 11:00:00	17-Jul-19 12:00:00		20.38	0.00	0.00	5.23	2.1	329.7		6.72	0.00	0.00	1.73		10.35	18.92	83.84	86.68	17-Jul-19 11:00:00		**17.07**	**18.92**	**83.84**	**88.41**
17-Jul-19 12:00:00	17-Jul-19 13:00:00		4.46	0.00	0.00	24.13	2.1	329.7		1.47	0.00	0.00	7.95		10.35	18.92	83.84	86.68	17-Jul-19 12:00:00		**11.82**	**18.92**	**83.84**	**94.63**
17-Jul-19 13:00:00	17-Jul-19 14:00:00		7.57	0.00	0.00	5.08	2.1	329.7		2.50	0.00	0.00	1.68		10.35	18.92	83.84	86.68	17-Jul-19 13:00:00		**12.85**	**18.92**	**83.84**	**88.36**
17-Jul-19 14:00:00	17-Jul-19 15:00:00		0.22	0.00	0.00	4.99	2.1	329.7		0.07	0.00	0.00	1.64		10.35	18.92	83.84	86.68	17-Jul-19 14:00:00		**10.42**	**18.92**	**83.84**	**88.32**
17-Jul-19 15:00:00	17-Jul-19 16:00:00		1.61	0.00	0.00	25.28	2.1	329.7		0.53	0.00	0.00	8.34		10.35	18.92	83.84	86.68	17-Jul-19 15:00:00		**10.88**	**18.92**	**83.84**	**95.02**
17-Jul-19 16:00:00	17-Jul-19 17:00:00		0.16	0.00	0.00	4.98	2.1	329.7		0.05	0.00	0.00	1.64		10.35	18.92	83.84	86.68	17-Jul-19 16:00:00		**10.40**	**18.92**	**83.84**	**88.32**
17-Jul-19 17:00:00	17-Jul-19 18:00:00		0.86	0.00	0.00	5.13	2.1	329.7		0.28	0.00	0.00	1.69		10.35	18.92	83.84	86.68	17-Jul-19 17:00:00		**10.63**	**18.92**	**83.84**	**88.37**
17-Jul-19 18:00:00	17-Jul-19 19:00:00		16.02	0.00	0.00	16.02	2.1	329.7		5.28	0.00	0.00	5.28		10.35	18.92	83.84	86.68	17-Jul-19 18:00:00		**15.63**	**18.92**	**83.84**	**91.96**
17-Jul-19 19:00:00	17-Jul-19 20:00:00		24.42	0.00	0.00	5.32	2.1	329.7		8.05	0.00	0.00	1.76		10.35	18.92	83.84	86.68	17-Jul-19 19:00:00		**18.40**	**18.92**	**83.84**	**88.44**
17-Jul-19 20:00:00	17-Jul-19 21:00:00		11.00	0.00	0.00	5.51	2.1	329.7		3.63	0.00	0.00	1.82		10.35	18.92	83.84	86.68	17-Jul-19 20:00:00		**13.98**	**18.92**	**83.84**	**88.50**
17-Jul-19 21:00:00	17-Jul-19 22:00:00		7.67	0.00	0.00	7.08	2.1	329.7		2.53	0.00	0.00	2.33		10.35	18.92	83.84	86.68	17-Jul-19 21:00:00		**12.88**	**18.92**	**83.84**	**89.01**
17-Jul-19 22:00:00	17-Jul-19 23:00:00		4.49	0.00	0.00	27.82	2.1	329.7		1.48	0.00	0.00	9.17		10.35	18.92	83.84	86.68	17-Jul-19 22:00:00		**11.83**	**18.92**	**83.84**	**95.85**
17-Jul-19 23:00:00	18-Jul-19 00:00:00		14.82	0.00	0.00	5.77	2.1	329.7		4.89	0.00	0.00	1.90		10.35	18.92	83.84	86.68	17-Jul-19 23:00:00		**15.24**	**18.92**	**83.84**	**88.58**
18-Jul-19 00:00:00	18-Jul-19 01:00:00		13.16	0.00	0.00	7.37	2.1	329.7		4.34	0.00	0.00	2.43		10.35	18.92	83.84	86.68	18-Jul-19 00:00:00		**14.69**	**18.92**	**83.84**	**89.11**
18-Jul-19 01:00:00	18-Jul-19 02:00:00		19.66	0.00	0.00	48.16	2.1	329.7		6.48	0.00	0.00	15.88		10.35	18.92	83.84	86.68	18-Jul-19 01:00:00		**16.83**	**18.92**	**83.84**	**102.56**
18-Jul-19 02:00:00	18-Jul-19 03:00:00		5.30	0.00	0.00	5.82	2.1	329.7		1.75	0.00	0.00	1.92		10.35	18.92	83.84	86.68	18-Jul-19 02:00:00		**12.10**	**18.92**	**83.84**	**88.60**
18-Jul-19 03:00:00	18-Jul-19 04:00:00		3.17	0.00	0.00	5.80	2.1	329.7		1.05	0.00	0.00	1.91		10.35	18.92	83.84	86.68	18-Jul-19 03:00:00		**11.40**	**18.92**	**83.84**	**88.59**
18-Jul-19 04:00:00	18-Jul-19 05:00:00		14.03	0.00	0.00	6.28	2.1	329.7		4.63	0.00	0.00	2.07		10.35	18.92	83.84	86.68	18-Jul-19 04:00:00		**14.98**	**18.92**	**83.84**	**88.75**
18-Jul-19 05:00:00	18-Jul-19 06:00:00		10.62	0.00	0.00	5.94	2.1	329.7		3.50	0.00	0.00	1.96		10.35	18.92	83.84	86.68	18-Jul-19 05:00:00		**13.85**	**18.92**	**83.84**	**88.64**
18-Jul-19 06:00:00	18-Jul-19 07:00:00		24.48	0.00	0.00	5.99	2.1	329.7		8.07	0.00	0.00	1.97		10.35	18.92	83.84	86.68	18-Jul-19 06:00:00		**18.42**	**18.92**	**83.84**	**88.65**
18-Jul-19 07:00:00	18-Jul-19 08:00:00		18.06	0.00	0.00	61.59	2.1	329.7		5.95	0.00	0.00	20.31		10.35	18.92	83.84	86.68	18-Jul-19 07:00:00		**16.30**	**18.92**	**83.84**	**106.99**
18-Jul-19 08:00:00	18-Jul-19 09:00:00		10.42	0.00	0.00	6.03	2.1	329.7		3.43	0.00	0.00	1.99		10.35	18.92	83.84	86.68	18-Jul-19 08:00:00		**13.78**	**18.92**	**83.84**	**88.67**
18-Jul-19 09:00:00	18-Jul-19 10:00:00		10.98	0.00	0.00	5.90	2.1	329.7		3.62	0.00	0.00	1.94		10.35	18.92	83.84	86.68	18-Jul-19 09:00:00		**13.97**	**18.92**	**83.84**	**88.62**
18-Jul-19 10:00:00	18-Jul-19 11:00:00		14.09	0.00	0.00	23.90	2.1	329.7		4.65	0.00	0.00	7.88		10.35	18.92	83.84	86.68	18-Jul-19 10:00:00		**15.00**	**18.92**	**83.84**	**94.56**
18-Jul-19 11:00:00	18-Jul-19 12:00:00		5.68	0.00	0.00	5.50	2.1	329.7		1.87	0.00	0.00	1.81		10.35	18.92	83.84	86.68	18-Jul-19 11:00:00		**12.22**	**18.92**	**83.84**	**88.49**
18-Jul-19 12:00:00	18-Jul-19 13:00:00		7.94	0.00	0.00	5.22	2.1	329.7		2.62	0.00	0.00	1.72		10.35	18.92	83.84	86.68	18-Jul-19 12:00:00		**12.97**	**18.92**	**83.84**	**88.40**
18-Jul-19 13:00:00	18-Jul-19 14:00:00		21.19	0.00	0.00	4.94	2.1	329.7		6.99	0.00	0.00	1.63		10.35	18.92	83.84	86.68	18-Jul-19 13:00:00		**17.34**	**18.92**	**83.84**	**88.31**
18-Jul-19 14:00:00	18-Jul-19 15:00:00		17.32	0.00	0.00	41.79	2.1	329.7		5.71	0.00	0.00	13.78		10.35	18.92	83.84	86.68	18-Jul-19 14:00:00		**16.06**	**18.92**	**83.84**	**100.46**
18-Jul-19 15:00:00	18-Jul-19 16:00:00		3.03	0.00	0.00	4.71	2.1	329.7		1.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	18-Jul-19 15:00:00		**11.35**	**18.92**	**83.84**	**88.23**
18-Jul-19 16:00:00	18-Jul-19 17:00:00		2.90	0.00	0.00	4.71	2.1	329.7		0.95	0.00	0.00	1.55		10.35	18.92	83.84	86.68	18-Jul-19 16:00:00		**11.30**	**18.92**	**83.84**	**88.23**
18-Jul-19 17:00:00	18-Jul-19 18:00:00		9.61	0.00	0.00	41.66	2.1	329.7		3.17	0.00	0.00	13.74		10.35	18.92	83.84	86.68	18-Jul-19 17:00:00		**13.52**	**18.92**	**83.84**	**100.42**
18-Jul-19 18:00:00	18-Jul-19 19:00:00		10.69	0.00	0.00	4.94	2.1	329.7		3.52	0.00	0.00	1.63		10.35	18.92	83.84	86.68	18-Jul-19 18:00:00		**13.87**	**18.92**	**83.84**	**88.31**
18-Jul-19 19:00:00	18-Jul-19 20:00:00		0.33	0.00	0.00	5.08	2.1	329.7		0.11	0.00	0.00	1.68		10.35	18.92	83.84	86.68	18-Jul-19 19:00:00		**10.46**	**18.92**	**83.84**	**88.36**
18-Jul-19 20:00:00	18-Jul-19 21:00:00		0.54	0.00	0.00	8.46	2.1	329.7		0.18	0.00	0.00	2.79		10.35	18.92	83.84	86.68	18-Jul-19 20:00:00		**10.53**	**18.92**	**83.84**	**89.47**
18-Jul-19 21:00:00	18-Jul-19 22:00:00		1.20	0.00	0.00	5.34	2.1	329.7		0.39	0.00	0.00	1.76		10.35	18.92	83.84	86.68	18-Jul-19 21:00:00		**10.74**	**18.92**	**83.84**	**88.44**
18-Jul-19 22:00:00	18-Jul-19 23:00:00		4.68	0.00	0.00	7.84	2.1	329.7		1.54	0.00	0.00	2.59		10.35	18.92	83.84	86.68	18-Jul-19 22:00:00		**11.89**	**18.92**	**83.84**	**89.27**
18-Jul-19 23:00:00	19-Jul-19 00:00:00		28.76	0.00	0.00	5.46	2.1	329.7		9.48	0.00	0.00	1.80		10.35	18.92	83.84	86.68	18-Jul-19 23:00:00		**19.83**	**18.92**	**83.84**	**88.48**
19-Jul-19 00:00:00	19-Jul-19 01:00:00		29.18	0.00	0.00	5.52	2.1	329.7		9.62	0.00	0.00	1.82		10.35	18.92	83.84	86.68	19-Jul-19 00:00:00		**19.97**	**18.92**	**83.84**	**88.50**
19-Jul-19 01:00:00	19-Jul-19 02:00:00		25.51	0.00	0.00	5.57	2.1	329.7		8.41	0.00	0.00	1.84		10.35	18.92	83.84	86.68	19-Jul-19 01:00:00		**18.76**	**18.92**	**83.84**	**88.52**
19-Jul-19 02:00:00	19-Jul-19 03:00:00		9.77	0.00	0.00	11.73	2.1	329.7		3.22	0.00	0.00	3.87		10.35	18.92	83.84	86.68	19-Jul-19 02:00:00		**13.57**	**18.92**	**83.84**	**90.55**
19-Jul-19 03:00:00	19-Jul-19 04:00:00		1.12	0.00	0.00	5.91	2.1	329.7		0.37	0.00	0.00	1.95		10.35	18.92	83.84	86.68	19-Jul-19 03:00:00		**10.72**	**18.92**	**83.84**	**88.63**
19-Jul-19 04:00:00	19-Jul-19 05:00:00		6.26	0.00	0.00	6.00	2.1	329.7		2.06	0.00	0.00	1.98		10.35	18.92	83.84	86.68	19-Jul-19 04:00:00		**12.41**	**18.92**	**83.84**	**88.66**
19-Jul-19 05:00:00	19-Jul-19 06:00:00		17.09	0.00	0.00	7.60	2.1	329.7		5.63	0.00	0.00	2.50		10.35	18.92	83.84	86.68	19-Jul-19 05:00:00		**15.98**	**18.92**	**83.84**	**89.18**
19-Jul-19 06:00:00	19-Jul-19 07:00:00		12.41	0.00	0.00	6.31	2.1	329.7		4.09	0.00	0.00	2.08		10.35	18.92	83.84	86.68	19-Jul-19 06:00:00		**14.44**	**18.92**	**83.84**	**88.76**
19-Jul-19 07:00:00	19-Jul-19 08:00:00		22.51	0.00	0.00	6.30	2.1	329.7		7.42	0.00	0.00	2.08		10.35	18.92	83.84	86.68	19-Jul-19 07:00:00		**17.77**	**18.92**	**83.84**	**88.76**
19-Jul-19 08:00:00	19-Jul-19 09:00:00		21.11	0.00	0.00	100.70	2.1	329.7		6.96	0.00	0.00	33.20		10.35	18.92	83.84	86.68	19-Jul-19 08:00:00		**17.31**	**18.92**	**83.84**	**119.88**
19-Jul-19 09:00:00	19-Jul-19 10:00:00		20.99	0.00	0.00	5.98	2.1	329.7		6.92	0.00	0.00	1.97		10.35	18.92	83.84	86.68	19-Jul-19 09:00:00		**17.27**	**18.92**	**83.84**	**88.65**
19-Jul-19 10:00:00	19-Jul-19 11:00:00		16.15	0.00	0.00	5.57	2.1	329.7		5.33	0.00	0.00	1.84		10.35	18.92	83.84	86.68	19-Jul-19 10:00:00		**15.68**	**18.92**	**83.84**	**88.52**
19-Jul-19 11:00:00	19-Jul-19 12:00:00		1.71	0.00	0.00	15.35	2.1	329.7		0.56	0.00	0.00	5.06		10.35	18.92	83.84	86.68	19-Jul-19 11:00:00		**10.91**	**18.92**	**83.84**	**91.74**
19-Jul-19 12:00:00	19-Jul-19 13:00:00		16.44	0.00	0.00	5.03	2.1	329.7		5.42	0.00	0.00	1.66		10.35	18.92	83.84	86.68	19-Jul-19 12:00:00		**15.77**	**18.92**	**83.84**	**88.34**
19-Jul-19 13:00:00	19-Jul-19 14:00:00		11.98	0.00	0.00	4.79	2.1	329.7		3.95	0.00	0.00	1.58		10.35	18.92	83.84	86.68	19-Jul-19 13:00:00		**14.30**	**18.92**	**83.84**	**88.26**
19-Jul-19 14:00:00	19-Jul-19 15:00:00		13.35	0.00	0.00	6.07	2.1	329.7		4.40	0.00	0.00	2.00		10.35	18.92	83.84	86.68	19-Jul-19 14:00:00		**14.75**	**18.92**	**83.84**	**88.68**
19-Jul-19 15:00:00	19-Jul-19 16:00:00		4.45	0.00	0.00	4.44	2.1	329.7		1.47	0.00	0.00	1.47		10.35	18.92	83.84	86.68	19-Jul-19 15:00:00		**11.82**	**18.92**	**83.84**	**88.15**
19-Jul-19 16:00:00	19-Jul-19 17:00:00		8.31	0.00	0.00	4.39	2.1	329.7		2.74	0.00	0.00	1.45		10.35	18.92	83.84	86.68	19-Jul-19 16:00:00		**13.09**	**18.92**	**83.84**	**88.13**
19-Jul-19 17:00:00	19-Jul-19 18:00:00		0.00	0.00	0.00	15.17	2.1	329.7		0.00	0.00	0.00	5.00		10.35	18.92	83.84	86.68	19-Jul-19 17:00:00		**10.35**	**18.92**	**83.84**	**91.68**
19-Jul-19 18:00:00	19-Jul-19 19:00:00		0.24	0.00	0.00	4.32	2.1	329.7		0.08	0.00	0.00	1.42		10.35	18.92	83.84	86.68	19-Jul-19 18:00:00		**10.43**	**18.92**	**83.84**	**88.10**
19-Jul-19 19:00:00	19-Jul-19 20:00:00		0.33	0.00	0.00	4.37	2.1	329.7		0.11	0.00	0.00	1.44		10.35	18.92	83.84	86.68	19-Jul-19 19:00:00		**10.46**	**18.92**	**83.84**	**88.12**
19-Jul-19 20:00:00	19-Jul-19 21:00:00		0.00	0.00	0.00	8.37	2.1	329.7		0.00	0.00	0.00	2.76		10.35	18.92	83.84	86.68	19-Jul-19 20:00:00		**10.35**	**18.92**	**83.84**	**89.44**
19-Jul-19 21:00:00	19-Jul-19 22:00:00		8.19	0.00	0.00	4.76	2.1	329.7		2.70	0.00	0.00	1.57		10.35	18.92	83.84	86.68	19-Jul-19 21:00:00		**13.05**	**18.92**	**83.84**	**88.25**
19-Jul-19 22:00:00	19-Jul-19 23:00:00		28.34	0.00	0.00	5.42	2.1	329.7		9.34	0.00	0.00	1.79		10.35	18.92	83.84	86.68	19-Jul-19 22:00:00		**19.69**	**18.92**	**83.84**	**88.47**
19-Jul-19 23:00:00	20-Jul-19 00:00:00		6.95	0.00	0.00	9.21	2.1	329.7		2.29	0.00	0.00	3.04		10.35	18.92	83.84	86.68	19-Jul-19 23:00:00		**12.64**	**18.92**	**83.84**	**89.72**
20-Jul-19 00:00:00	20-Jul-19 01:00:00		4.22	0.00	0.00	6.45	2.1	329.7		1.39	0.00	0.00	2.13		10.35	18.92	83.84	86.68	20-Jul-19 00:00:00		**11.74**	**18.92**	**83.84**	**88.81**
20-Jul-19 01:00:00	20-Jul-19 02:00:00		19.21	0.00	0.00	6.42	2.1	329.7		6.33	0.00	0.00	2.12		10.35	18.92	83.84	86.68	20-Jul-19 01:00:00		**16.68**	**18.92**	**83.84**	**88.80**
20-Jul-19 02:00:00	20-Jul-19 03:00:00		4.71	0.00	0.00	47.14	2.1	329.7		1.55	0.00	0.00	15.54		10.35	18.92	83.84	86.68	20-Jul-19 02:00:00		**11.90**	**18.92**	**83.84**	**102.22**
20-Jul-19 03:00:00	20-Jul-19 04:00:00		1.08	0.00	0.00	22.76	2.1	329.7		0.36	0.00	0.00	7.51		10.35	18.92	83.84	86.68	20-Jul-19 03:00:00		**10.71**	**18.92**	**83.84**	**94.19**
20-Jul-19 04:00:00	20-Jul-19 05:00:00		3.02	0.00	0.00	9.09	2.1	329.7		0.99	0.00	0.00	3.00		10.35	18.92	83.84	86.68	20-Jul-19 04:00:00		**11.34**	**18.92**	**83.84**	**89.68**
20-Jul-19 05:00:00	20-Jul-19 06:00:00		11.07	0.00	0.00	6.06	2.1	329.7		3.65	0.00	0.00	2.00		10.35	18.92	83.84	86.68	20-Jul-19 05:00:00		**14.00**	**18.92**	**83.84**	**88.68**
20-Jul-19 06:00:00	20-Jul-19 07:00:00		17.73	0.00	0.00	25.20	2.1	329.7		5.85	0.00	0.00	8.31		10.35	18.92	83.84	86.68	20-Jul-19 06:00:00		**16.20**	**18.92**	**83.84**	**94.99**
20-Jul-19 07:00:00	20-Jul-19 08:00:00		28.31	0.00	0.00	116.15	2.1	329.7		9.33	0.00	0.00	38.29		10.35	18.92	83.84	86.68	20-Jul-19 07:00:00		**19.68**	**18.92**	**83.84**	**124.97**
20-Jul-19 08:00:00	20-Jul-19 09:00:00		30.01	0.00	0.00	6.08	2.1	329.7		9.89	0.00	0.00	2.01		10.35	18.92	83.84	86.68	20-Jul-19 08:00:00		**20.24**	**18.92**	**83.84**	**88.69**
20-Jul-19 09:00:00	20-Jul-19 10:00:00		29.01	0.00	0.00	7.66	2.1	329.7		9.57	0.00	0.00	2.52		10.35	18.92	83.84	86.68	20-Jul-19 09:00:00		**19.92**	**18.92**	**83.84**	**89.20**
20-Jul-19 10:00:00	20-Jul-19 11:00:00		31.11	0.00	0.00	5.86	2.1	329.7		10.26	0.00	0.00	1.93		10.35	18.92	83.84	86.68	20-Jul-19 10:00:00		**20.61**	**18.92**	**83.84**	**88.61**
20-Jul-19 11:00:00	20-Jul-19 12:00:00		13.85	0.00	0.00	5.62	2.1	329.7		4.57	0.00	0.00	1.85		10.35	18.92	83.84	86.68	20-Jul-19 11:00:00		**14.92**	**18.92**	**83.84**	**88.53**
20-Jul-19 12:00:00	20-Jul-19 13:00:00		3.56	0.00	0.00	14.62	2.1	329.7		1.17	0.00	0.00	4.82		10.35	18.92	83.84	86.68	20-Jul-19 12:00:00		**11.52**	**18.92**	**83.84**	**91.50**
20-Jul-19 13:00:00	20-Jul-19 14:00:00		10.65	0.00	0.00	5.24

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
22-Jul-19 15:00:00	22-Jul-19 16:00:00		44.02	0.00	0.00	12.09	2.1	329.7		14.51	0.00	0.00	3.99		10.35	18.92	83.84	86.68	22-Jul-19 15:00:00		24.86	18.92	83.84	90.67
22-Jul-19 16:00:00	22-Jul-19 17:00:00		43.91	0.00	0.00	4.72	2.1	329.7		14.48	0.00	0.00	1.56		10.35	18.92	83.84	86.68	22-Jul-19 16:00:00		24.83	18.92	83.84	88.24
22-Jul-19 17:00:00	22-Jul-19 18:00:00		41.57	0.00	0.00	19.64	2.1	329.7		13.71	0.00	0.00	6.48		10.35	18.92	83.84	86.68	22-Jul-19 17:00:00		24.06	18.92	83.84	93.16
22-Jul-19 18:00:00	22-Jul-19 19:00:00		39.40	0.00	0.00	4.99	2.1	329.7		12.99	0.00	0.00	1.65		10.35	18.92	83.84	86.68	22-Jul-19 18:00:00		23.34	18.92	83.84	88.33
22-Jul-19 19:00:00	22-Jul-19 20:00:00		42.00	0.00	0.00	4.92	2.1	329.7		13.85	0.00	0.00	1.62		10.35	18.92	83.84	86.68	22-Jul-19 19:00:00		24.20	18.92	83.84	88.30
22-Jul-19 20:00:00	22-Jul-19 21:00:00		18.81	0.00	0.00	4.84	2.1	329.7		6.20	0.00	0.00	1.60		10.35	18.92	83.84	86.68	22-Jul-19 20:00:00		16.55	18.92	83.84	88.28
22-Jul-19 21:00:00	22-Jul-19 22:00:00		5.54	0.00	0.00	26.50	2.1	329.7		1.83	0.00	0.00	8.74		10.35	18.92	83.84	86.68	22-Jul-19 21:00:00		12.18	18.92	83.84	95.42
22-Jul-19 22:00:00	22-Jul-19 23:00:00		10.42	0.00	0.00	5.23	2.1	329.7		3.44	0.00	0.00	1.72		10.35	18.92	83.84	86.68	22-Jul-19 22:00:00		13.79	18.92	83.84	88.40
22-Jul-19 23:00:00	23-Jul-19 00:00:00		9.98	0.00	0.00	5.64	2.1	329.7		3.29	0.00	0.00	1.86		10.35	18.92	83.84	86.68	22-Jul-19 23:00:00		13.64	18.92	83.84	88.54
23-Jul-19 00:00:00	23-Jul-19 01:00:00		10.68	0.00	0.00	218.34	2.1	329.7		3.52	0.00	0.00	71.99		10.35	18.92	83.84	86.68	23-Jul-19 00:00:00		13.87	18.92	83.84	158.67
23-Jul-19 01:00:00	23-Jul-19 02:00:00		9.85	0.00	0.00	5.69	2.1	329.7		3.25	0.00	0.00	1.87		10.35	18.92	83.84	86.68	23-Jul-19 01:00:00		13.60	18.92	83.84	88.55
23-Jul-19 02:00:00	23-Jul-19 03:00:00		11.42	0.00	0.00	5.66	2.1	329.7		3.76	0.00	0.00	1.87		10.35	18.92	83.84	86.68	23-Jul-19 02:00:00		14.11	18.92	83.84	88.55
23-Jul-19 03:00:00	23-Jul-19 04:00:00		26.16	0.00	0.00	7.43	2.1	329.7		8.62	0.00	0.00	2.45		10.35	18.92	83.84	86.68	23-Jul-19 03:00:00		18.97	18.92	83.84	89.13
23-Jul-19 04:00:00	23-Jul-19 05:00:00		45.91	0.00	0.00	5.69	2.1	329.7		15.14	0.00	0.00	1.88		10.35	18.92	83.84	86.68	23-Jul-19 04:00:00		25.49	18.92	83.84	88.56
23-Jul-19 05:00:00	23-Jul-19 06:00:00		55.55	0.00	0.00	5.72	2.1	329.7		18.32	0.00	0.00	1.89		10.35	18.92	83.84	86.68	23-Jul-19 05:00:00		28.67	18.92	83.84	88.57
23-Jul-19 06:00:00	23-Jul-19 07:00:00		31.08	0.00	0.00	14.17	2.1	329.7		10.25	0.00	0.00	4.67		10.35	18.92	83.84	86.68	23-Jul-19 06:00:00		20.60	18.92	83.84	91.35
23-Jul-19 07:00:00	23-Jul-19 08:00:00		30.00	0.00	0.00	7.06	2.1	329.7		9.89	0.00	0.00	2.33		10.35	18.92	83.84	86.68	23-Jul-19 07:00:00		20.24	18.92	83.84	89.01
23-Jul-19 08:00:00	23-Jul-19 09:00:00		16.12	0.00	0.00	6.47	2.1	329.7		5.32	0.00	0.00	2.13		10.35	18.92	83.84	86.68	23-Jul-19 08:00:00		15.67	18.92	83.84	88.81
23-Jul-19 09:00:00	23-Jul-19 10:00:00		16.70	0.00	0.00	5.87	2.1	329.7		5.51	0.00	0.00	1.94		10.35	18.92	83.84	86.68	23-Jul-19 09:00:00		15.86	18.92	83.84	88.62
23-Jul-19 10:00:00	23-Jul-19 11:00:00		18.90	0.00	0.00	11.41	2.1	329.7		6.23	0.00	0.00	3.76		10.35	18.92	83.84	86.68	23-Jul-19 10:00:00		16.58	18.92	83.84	90.44
23-Jul-19 11:00:00	23-Jul-19 12:00:00		10.45	0.00	0.00	7.73	2.1	329.7		3.45	0.00	0.00	2.55		10.35	18.92	83.84	86.68	23-Jul-19 11:00:00		13.80	18.92	83.84	89.23
23-Jul-19 12:00:00	23-Jul-19 13:00:00		12.33	0.00	0.00	6.66	2.1	329.7		4.07	0.00	0.00	2.20		10.35	18.92	83.84	86.68	23-Jul-19 12:00:00		14.42	18.92	83.84	88.88
23-Jul-19 13:00:00	23-Jul-19 14:00:00		6.65	0.00	0.00	22.16	2.1	329.7		2.19	0.00	0.00	7.31		10.35	18.92	83.84	86.68	23-Jul-19 13:00:00		12.54	18.92	83.84	93.99
23-Jul-19 14:00:00	23-Jul-19 15:00:00		10.49	0.00	0.00	70.81	2.1	329.7		3.46	0.00	0.00	23.35		10.35	18.92	83.84	86.68	23-Jul-19 14:00:00		13.81	18.92	83.84	110.03
23-Jul-19 15:00:00	23-Jul-19 16:00:00		0.00	0.00	0.00	6.41	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	23-Jul-19 15:00:00		10.35	18.92	83.84	88.79
23-Jul-19 16:00:00	23-Jul-19 17:00:00		3.35	0.00	0.00	10.28	2.1	329.7		1.10	0.00	0.00	3.39		10.35	18.92	83.84	86.68	23-Jul-19 16:00:00		11.45	18.92	83.84	90.07
23-Jul-19 17:00:00	23-Jul-19 18:00:00		0.78	0.00	0.00	10.30	2.1	329.7		0.26	0.00	0.00	3.40		10.35	18.92	83.84	86.68	23-Jul-19 17:00:00		10.61	18.92	83.84	90.08
23-Jul-19 18:00:00	23-Jul-19 19:00:00		21.32	0.00	0.00	8.54	2.1	329.7		7.03	0.00	0.00	2.81		10.35	18.92	83.84	86.68	23-Jul-19 18:00:00		17.38	18.92	83.84	89.49
23-Jul-19 19:00:00	23-Jul-19 20:00:00		18.67	4.86	0.00	33.78	2.1	329.7		6.15	1.60	0.00	11.14		10.35	18.92	83.84	86.68	23-Jul-19 19:00:00		16.50	20.52	83.84	97.82
23-Jul-19 20:00:00	23-Jul-19 21:00:00		11.19	221.49	0.00	6.29	2.1	329.7		3.69	73.03	0.00	2.07		10.35	18.92	83.84	86.68	23-Jul-19 20:00:00		14.04	91.95	83.84	88.75
23-Jul-19 21:00:00	23-Jul-19 22:00:00		25.77	0.00	0.00	6.14	2.1	329.7		8.50	0.00	0.00	2.02		10.35	18.92	83.84	86.68	23-Jul-19 21:00:00		18.85	18.92	83.84	88.70
23-Jul-19 22:00:00	23-Jul-19 23:00:00		2.13	0.00	0.00	5.99	2.1	329.7		0.70	0.00	0.00	1.97		10.35	18.92	83.84	86.68	23-Jul-19 22:00:00		11.05	18.92	83.84	88.65
23-Jul-19 23:00:00	24-Jul-19 00:00:00		19.44	0.00	0.00	57.77	2.1	329.7		6.41	0.00	0.00	19.05		10.35	18.92	83.84	86.68	23-Jul-19 23:00:00		16.76	18.92	83.84	105.73
24-Jul-19 00:00:00	24-Jul-19 01:00:00		33.75	0.00	0.00	5.91	2.1	329.7		11.13	0.00	0.00	1.95		10.35	18.92	83.84	86.68	24-Jul-19 00:00:00		21.48	18.92	83.84	88.63
24-Jul-19 01:00:00	24-Jul-19 02:00:00		33.39	0.00	0.00	5.93	2.1	329.7		11.01	0.00	0.00	1.96		10.35	18.92	83.84	86.68	24-Jul-19 01:00:00		21.36	18.92	83.84	88.64
24-Jul-19 02:00:00	24-Jul-19 03:00:00		35.75	0.00	0.00	21.24	2.1	329.7		11.79	0.00	0.00	7.00		10.35	18.92	83.84	86.68	24-Jul-19 02:00:00		22.14	18.92	83.84	93.68
24-Jul-19 03:00:00	24-Jul-19 04:00:00		31.73	0.00	0.00	5.90	2.1	329.7		10.46	0.00	0.00	1.94		10.35	18.92	83.84	86.68	24-Jul-19 03:00:00		20.81	18.92	83.84	88.62
24-Jul-19 04:00:00	24-Jul-19 05:00:00		31.34	0.00	0.00	5.90	2.1	329.7		10.33	0.00	0.00	1.94		10.35	18.92	83.84	86.68	24-Jul-19 04:00:00		20.68	18.92	83.84	88.62
24-Jul-19 05:00:00	24-Jul-19 06:00:00		31.00	0.00	0.00	66.87	2.1	329.7		10.22	0.00	0.00	22.05		10.35	18.92	83.84	86.68	24-Jul-19 05:00:00		20.57	18.92	83.84	108.73
24-Jul-19 06:00:00	24-Jul-19 07:00:00		30.66	0.00	0.00	5.98	2.1	329.7		10.11	0.00	0.00	1.97		10.35	18.92	83.84	86.68	24-Jul-19 06:00:00		20.46	18.92	83.84	88.65
24-Jul-19 07:00:00	24-Jul-19 08:00:00		30.14	0.00	0.00	6.02	2.1	329.7		9.94	0.00	0.00	1.99		10.35	18.92	83.84	86.68	24-Jul-19 07:00:00		20.29	18.92	83.84	88.67
24-Jul-19 08:00:00	24-Jul-19 09:00:00		29.17	0.00	0.00	7.73	2.1	329.7		9.62	0.00	0.00	2.55		10.35	18.92	83.84	86.68	24-Jul-19 08:00:00		19.97	18.92	83.84	89.23
24-Jul-19 09:00:00	24-Jul-19 10:00:00		28.17	0.00	0.00	6.05	2.1	329.7		9.29	0.00	0.00	2.00		10.35	18.92	83.84	86.68	24-Jul-19 09:00:00		19.64	18.92	83.84	88.68
24-Jul-19 10:00:00	24-Jul-19 11:00:00		32.21	0.00	0.00	5.72	2.1	329.7		10.62	0.00	0.00	1.89		10.35	18.92	83.84	86.68	24-Jul-19 10:00:00		20.97	18.92	83.84	88.57
24-Jul-19 11:00:00	24-Jul-19 12:00:00		22.86	0.00	0.00	5.39	2.1	329.7		7.54	0.00	0.00	1.78		10.35	18.92	83.84	86.68	24-Jul-19 11:00:00		17.89	18.92	83.84	88.46
24-Jul-19 12:00:00	24-Jul-19 13:00:00		15.85	0.00	0.00	41.82	2.1	329.7		5.23	0.00	0.00	13.79		10.35	18.92	83.84	86.68	24-Jul-19 12:00:00		15.58	18.92	83.84	100.47
24-Jul-19 13:00:00	24-Jul-19 14:00:00		6.21	0.00	0.00	5.14	2.1	329.7		2.05	0.00	0.00	1.69		10.35	18.92	83.84	86.68	24-Jul-19 13:00:00		12.40	18.92	83.84	88.37
24-Jul-19 14:00:00	24-Jul-19 15:00:00		0.58	0.00	0.00	4.99	2.1	329.7		0.19	0.00	0.00	1.65		10.35	18.92	83.84	86.68	24-Jul-19 14:00:00		10.54	18.92	83.84	88.33
24-Jul-19 15:00:00	24-Jul-19 16:00:00		1.64	0.00	0.00	13.34	2.1	329.7		0.54	0.00	0.00	4.40		10.35	18.92	83.84	86.68	24-Jul-19 15:00:00		10.89	18.92	83.84	91.08
24-Jul-19 16:00:00	24-Jul-19 17:00:00		1.60	0.00	0.00	4.72	2.1	329.7		0.53	0.00	0.00	1.56		10.35	18.92	83.84	86.68	24-Jul-19 16:00:00		10.88	18.92	83.84	88.24
24-Jul-19 17:00:00	24-Jul-19 18:00:00		7.28	0.00	0.00	4.70	2.1	329.7		2.40	0.00	0.00	1.55		10.35	18.92	83.84	86.68	24-Jul-19 17:00:00		12.75	18.92	83.84	88.23
24-Jul-19 18:00:00	24-Jul-19 19:00:00		17.81	0.00	0.00	19.12	2.1	329.7		5.87	0.00	0.00	6.30		10.35	18.92	83.84	86.68	24-Jul-19 18:00:00		16.22	18.92	83.84	92.98
24-Jul-19 19:00:00	24-Jul-19 20:00:00		15.83	0.00	0.00	4.96	2.1	329.7		5.22	0.00	0.00	1.64		10.35	18.92	83.84	86.68	24-Jul-19 19:00:00		15.57	18.92	83.84	88.32
24-Jul-19 20:00:00	24-Jul-19 21:00:00		18.25	0.00	0.00	5.12	2.1	329.7		6.02	0.00	0.00	1.69		10.35	18.92	83.84	86.68	24-Jul-19 20:00:00		16.37	18.92	83.84	88.37
24-Jul-19 21:00:00	24-Jul-19 22:00:00		20.17	0.00	0.00	79.87	2.1	329.7		6.65	0.00	0.00	26.33		10.35	18.92	83.84	86.68	24-Jul-19 21:00:00		17.00	18.92	83.84	113.01
24-Jul-19 22:00:00	24-Jul-19 23:00:00		24.45	0.00	0.00	5.40	2.1	329.7		8.06	0.00	0.00	1.78		10.35	18.92	83.84	86.68	24-Jul-19 22:00:00		18.41	18.92	83.84	88.46
24-Jul-19 23:00:00	25-Jul-19 00:00:00		19.06	0.00	0.00	5.62	2.1	329.7		6.28	0.00	0.00	1.85		10.35	18.92	83.84	86.68	24-Jul-19 23:00:00		16.63	18.92	83.84	88.53
25-Jul-19 00:00:00	25-Jul-19 01:00:00		14.75	0.00	0.00	11.02	2.1	329.7		4.86	0.00	0.00	3.63		10.35	18.92	83.84	86.68	25-Jul-19 00:00:00		15.21	18.92	83.84	90.31
25-Jul-19 01:00:00	25-Jul-19 02:00:00		10.57	0.00	0.00	5.83	2.1	329.7		3.48	0.00	0.00	1.92		10.35	18.92	83.84	86.68	25-Jul-19 01:00:00		13.83	18.92	83.84	88.60
25-Jul-19 02:00:00	25-Jul-19 03:00:00		23.70	0.00	0.00	5.90	2.1	329.7		7.81	0.00	0.00	1.94		10.35	18.92	83.84	86.68	25-Jul-19 02:00:00		18.16	18.92	83.84	88.62
25-Jul-19 03:00:00	25-Jul-19 04:00:00		21.96	0.00	0.00	5.96	2.1	329.7		7.24	0.00	0.00	1.96		10.35	18.92	83.84	86.68	25-Jul-19 03:00:00		17.59	18.92	83.84	88.64
25-Jul-19 04:00:00	25-Jul-19 05:00:00		6.60	0.00	0.00	30.17	2.1	329.7		2.18	0.00	0.00	9.95		10.35	18.92	83.84	86.68	25-Jul-19 04:00:00		12.53	18.92	83.84	96.63
25-Jul-19 05:00:00	25-Jul-19 06:00:00		6.50	0.00	0.00	6.33	2.1	329.7		2.14	0.00	0.00	2.09		10.35	18.92	83.84	86.68	25-Jul-19 05:00:00		12.49	18.92	83.84	88.77
25-Jul-19 06:00:00	25-Jul-19 07:00:00		6.41	0.00	0.00	6.29	2.1	329.7		2.11	0.00	0.00	2.08		10.35	18.92	83.84	86.68	25-Jul-19 06:00:00		12.46	18.92	83.84	88.76
25-Jul-19 07:00:00	25-Jul-19 08:00:00		6.41	0.00	0.00	9.49	2.1	329.7		2.11	0.00	0.00	3.13		10.35	18.92	83.84	86.68	25-Jul-19 07:00:00		12.46	18.92	83.84	89.81
25-Jul-19 08:00:00	25-Jul-19 09:00:00		6.96	2.54	0.00	6.09	2.1	329.7		2.29	0.84	0.00	2.01		10.35	18.92	83.84	86.68	25-Jul-19 08:00:00		12.64	19.76	83.84	88.69
25-Jul-19 09:00:00	25-Jul-19 10:00:00		4.31	0.00	0.00	5.78	2.1	329.7		1.42	0.00	0.00	1.91		10.35	18.92	83.84	86.68	25-Jul-19 09:00:00		11.77	18.92	83.84	88.59
25-Jul-19 10:00:00	25-Jul-19 11:00:00		4.89	0.00	0.00	59.43	2.1	329.7		1.61	0.00	0.00	19.59		10.35	18.92	83.84	86.68	25-Jul-19 10:00:00		11.96	18.92	83.84	106.27
25-Jul-19 11:00:00	25-Jul-19 12:00:00		5.48	0.00	0.00	5.19	2.1	329.7		1.81	0.00	0.00	1.71		10.35	18.92	83.84	86.68	25-Jul-19 11:00:00		12.16	18.92	83.84	88.39
25-Jul-19 12:00:00	25-Jul-19 13:00:00		13.02	0.00	0.00	7.77	2.1	329.7		4.29	0.00	0.00	2.56		10.35	18.92	83.84	86.68	25-Jul-19 12:00:00		14.64	18.92	83.84	89.24
25-Jul-19 13:00:00	25-Jul-19 14:00:00		14.48	0.00	0.00	9.18	2.1	329.7		4.77	0.00	0.00	3.03		10.35	18.92	83.84	86.68	25-Jul-19 13:00:00		15.12	18.92	83.84	89.71
25-Jul-19 14:00:00	25-Jul-19 15:00:00		2.29	0.00	0.00	32.04	2.1	329.7		0.75	0.00	0.00	10.56		10.35	18.92	83.84	86.68	25-Jul-19 14:00:00		11.10	18.92	83.84	97.24
25-Jul-19 15:00:00	25-Jul-19 16:00:00		0.00	0.00	0.00	4.64	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	25-Jul-19 15:00:00		10.35	18.92	83.84	88.21
25-Jul-19 16:00:00	25-Jul-19 17:00:00		0.00	0.00	0.00	114.63	2.1	329.7		0.00	0.00	0.00	37.79		10.35	18.92	83.84	86.68	25-Jul-19 16:00:00		10.35	18.92	83.84	124.47
25-Jul-19 17:00:00	25-Jul-19 18:00:00		0.00	0.00	0.00	17.31	2.1	329.7		0.00	0.00	0.00	5.71		10.35	18.92	83.84	86.68	25-Jul-19 17:00:00		10.35	18.92	83.84	92.39
25-Jul-19 18:00:00	25-Jul-19 19:00:00		0.00	0.00	0.00	6.44	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	25-Jul-19 18:00:00		10.35	18.92	83.84	88.80
25-Jul-19 19:00:00	25-Jul-19 20:00:00		0.00	0.00	0.00	5.73	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	25-Jul-19 19:00:00		10.35	18.92	83.84	88.57
25-Jul-19 20:00:00	25-Jul-19 21:00:00		0.00	0.00	0.00	10.14	2.1	329.7		0.00	0.00	0.00	3.34		10.35	18.92	83.84	86.68	25-Jul-19 20:00:00		10.35	18.92	83.84	90.02
25-Jul-19 21:00:00	25-Jul-19 22:00:00		2.36	0.00	0.00	5.10	2.1	329.7		0.78	0.00	0.00	1.68		10.35	18.92	83.84	86.68	25-Jul-19 21:00:00		11.13	18.92	83.84	88.36
25-Jul-19 22:00:00	25-Jul-19 23:00:00		8.29	0.00	0.00	5.20	2.1	329.7		2.73	0.00	0.00	1.71		10.35	18.92	83.84	86.68	25-Jul-19 22:00:00		13.08	18.92	83.84	88.39
25-Jul-19 23:00:00	26-Jul-19 00:00:00		3.97	0.00	0.00	10.04	2.1	329.7		1.31	0.00	0.00	3.31		10.35	18.92	83.84	86.68	25-Jul-19 23:00:00		11.66	18.92	83.84	89.99
26-Jul-19 00:00:00	26-Jul-19 01:00:00		4.83	0.00	0.00	5.32	2.1	329.7		1.59	0.00	0.00	1.75		10.35	18.92	83.84	86.68	26-Jul-19 00:00:00		11.94	18.92	83.84	88.43
26-Jul-19 01:00:00	26-Jul-19 02:00:00		4.67	0.00	0.00	5.29	2.1	329.7		1.54	0.00	0.00	1.74		10.35	18.92	83.84	86.68	26-Jul-19 01:00:00		11.89	18.92	83.84	88.42
26-Jul-19 02:00:00	26-Jul-19 03:00:00		12.51	0.00	0.00	6.01	2.1	329.7		4.12	0.00	0.00	1.98		10.35	18.92	83.84	86.68	26-Jul-19 02:00:00		14.47	18.92	83.84	88.66
26-Jul-19 03:00:00	26-Jul-19 04:00:00		17.04	0.00	0.00	5.55	2.1	329.7		5.62	0.00	0.00	1.83		10.35	18.92	83.84	86.68	26-Jul-19 03:00:00		15.97	18.92	83.84	88.51
26-Jul-19 04:00:00	26-Jul-19 05:00:00		9.60	0.00	0.00	5.68	2.1	329.7		3.17	0.00	0.00	1.87		10.35	18.92	83.84	86.68	26-Jul-19 04:00:00		13.52	18.92	83.84	88.55
26-Jul-19 05:00:00	26-Jul-19 06:00:00		10.48	0.00	0.00	18.77	2.1	329.7		3.46	0.00	0.00	6.19		10.35	18.92	83.84	86.68	26-Jul-19 05:00:00		13.81	18.92	83.84	92.87
26-Jul-19 06:00:00	26-Jul-19 07:00:00		1.82	0.00	0.00	6.00	2.1	329.7		0.60	0.00	0.00	1.98		10.35	18.92	83.84	86.68	26-Jul-19 06:00:00		10.95	18.92	83.84	88.66
26-Jul-19 07:00:00	26-Jul-19 08:00:00		6.29	0.00	0.00	5.94	2.1	329.7		2.07	0.00	0.00	1.96		10.35	18.92	83.84	86.68	26-Jul-19 07:00:00		12.42	18.92	83.84	88.64
26-Jul-19 08:00:00	26-Jul-19 09:00:00		22.80	0.00	0.00	43.28	2.1	329.7		7.52	0.00	0.00	14.27		10.35	18.92	83.84	86.68	26-Jul-19 08:00:00		17.87	18.92	83.84	100.95
26-Jul-19 09:00:00	26-Jul-19 10:00:00		22.26	0.00	0.00	7.10	2.1	329.7		7.34	0.00	0.00	2.34		10.35	18.92	83.84	86.68	26-Jul-19 09:00:00		17.69	18.92	83.84	89.02
26-Jul-19 10:00:00	26-Jul-19 11:00:00		24.72	0.00	0.00	5.55	2.1	329.7		8.15	0.00	0.00	1.83		10.35	18.92	83.84	86.68	26-Jul-19 10:00:00		18.50	18.92	83.84	88.51
26-Jul-19 11:00:00	26-Jul-19 12:00:00		8.50	0.00	0.00	5.32	2.1	329.7		2.80	0.00	0.00	1.75		10.35	18.92	83.84	86.68	26-Jul-19 11:00:00		13.15	18.92	83.84	88.43
26-Jul-19 12:00:00	26-Jul-19 13:00:00		9.91	0.00	0.00	6.52

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
28-Jul-19 14:00:00	28-Jul-19 15:00:00		2.40	0.00	0.00	4.32	2.1	329.7		0.79	0.00	0.00	1.43		10.35	18.92	83.84	86.68	28-Jul-19 14:00:00		**11.14**	**18.92**	**83.84**	**88.11**
28-Jul-19 15:00:00	28-Jul-19 16:00:00		1.03	0.00	0.00	4.34	2.1	329.7		0.34	0.00	0.00	1.43		10.35	18.92	83.84	86.68	28-Jul-19 15:00:00		**10.69**	**18.92**	**83.84**	**88.11**
28-Jul-19 16:00:00	28-Jul-19 17:00:00		0.00	0.00	0.00	4.35	2.1	329.7		0.00	0.00	0.00	1.44		10.35	18.92	83.84	86.68	28-Jul-19 16:00:00		**10.35**	**18.92**	**83.84**	**88.12**
28-Jul-19 17:00:00	28-Jul-19 18:00:00		0.00	0.00	0.00	4.31	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	28-Jul-19 17:00:00		**10.35**	**18.92**	**83.84**	**88.10**
28-Jul-19 18:00:00	28-Jul-19 19:00:00		0.00	0.00	0.00	4.27	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	28-Jul-19 18:00:00		**10.35**	**18.92**	**83.84**	**88.09**
28-Jul-19 19:00:00	28-Jul-19 20:00:00		0.00	0.00	0.00	4.28	2.1	329.7		0.00	0.00	0.00	1.41		10.35	18.92	83.84	86.68	28-Jul-19 19:00:00		**10.35**	**18.92**	**83.84**	**88.09**
28-Jul-19 20:00:00	28-Jul-19 21:00:00		0.00	0.00	0.00	4.46	2.1	329.7		0.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	28-Jul-19 20:00:00		**10.35**	**18.92**	**83.84**	**88.15**
28-Jul-19 21:00:00	28-Jul-19 22:00:00		4.17	0.00	0.00	4.65	2.1	329.7		1.38	0.00	0.00	1.53		10.35	18.92	83.84	86.68	28-Jul-19 21:00:00		**11.73**	**18.92**	**83.84**	**88.21**
28-Jul-19 22:00:00	28-Jul-19 23:00:00		1.54	0.00	0.00	102.06	2.1	329.7		0.51	0.00	0.00	33.65		10.35	18.92	83.84	86.68	28-Jul-19 22:00:00		**10.86**	**18.92**	**83.84**	**120.33**
28-Jul-19 23:00:00	29-Jul-19 00:00:00		15.24	0.00	0.00	4.96	2.1	329.7		5.02	0.00	0.00	1.64		10.35	18.92	83.84	86.68	28-Jul-19 23:00:00		**15.37**	**18.92**	**83.84**	**88.32**
29-Jul-19 00:00:00	29-Jul-19 01:00:00		20.24	0.00	0.00	5.18	2.1	329.7		6.67	0.00	0.00	1.71		10.35	18.92	83.84	86.68	29-Jul-19 00:00:00		**17.02**	**18.92**	**83.84**	**88.39**
29-Jul-19 01:00:00	29-Jul-19 02:00:00		8.85	0.00	0.00	5.40	2.1	329.7		2.92	0.00	0.00	1.78		10.35	18.92	83.84	86.68	29-Jul-19 01:00:00		**13.27**	**18.92**	**83.84**	**88.46**
29-Jul-19 02:00:00	29-Jul-19 03:00:00		2.27	0.00	0.00	5.51	2.1	329.7		0.75	0.00	0.00	1.82		10.35	18.92	83.84	86.68	29-Jul-19 02:00:00		**11.10**	**18.92**	**83.84**	**88.50**
29-Jul-19 03:00:00	29-Jul-19 04:00:00		1.41	0.00	0.00	5.56	2.1	329.7		0.47	0.00	0.00	1.83		10.35	18.92	83.84	86.68	29-Jul-19 03:00:00		**10.82**	**18.92**	**83.84**	**88.51**
29-Jul-19 04:00:00	29-Jul-19 05:00:00		0.55	0.00	0.00	5.64	2.1	329.7		0.18	0.00	0.00	1.86		10.35	18.92	83.84	86.68	29-Jul-19 04:00:00		**10.53**	**18.92**	**83.84**	**88.54**
29-Jul-19 05:00:00	29-Jul-19 06:00:00		13.19	0.00	0.00	5.72	2.1	329.7		4.35	0.00	0.00	1.89		10.35	18.92	83.84	86.68	29-Jul-19 05:00:00		**14.70**	**18.92**	**83.84**	**88.57**
29-Jul-19 06:00:00	29-Jul-19 07:00:00		9.94	0.00	0.00	5.88	2.1	329.7		3.28	0.00	0.00	1.94		10.35	18.92	83.84	86.68	29-Jul-19 06:00:00		**13.63**	**18.92**	**83.84**	**88.62**
29-Jul-19 07:00:00	29-Jul-19 08:00:00		14.11	0.00	0.00	5.81	2.1	329.7		4.65	0.00	0.00	1.92		10.35	18.92	83.84	86.68	29-Jul-19 07:00:00		**15.00**	**18.92**	**83.84**	**88.60**
29-Jul-19 08:00:00	29-Jul-19 09:00:00		19.96	0.00	0.00	5.66	2.1	329.7		6.58	0.00	0.00	1.87		10.35	18.92	83.84	86.68	29-Jul-19 08:00:00		**16.93**	**18.92**	**83.84**	**88.55**
29-Jul-19 09:00:00	29-Jul-19 10:00:00		32.01	0.00	0.00	5.51	2.1	329.7		10.55	0.00	0.00	1.82		10.35	18.92	83.84	86.68	29-Jul-19 09:00:00		**20.90**	**18.92**	**83.84**	**88.50**
29-Jul-19 10:00:00	29-Jul-19 11:00:00		4.52	0.00	0.00	5.21	2.1	329.7		1.49	0.00	0.00	1.72		10.35	18.92	83.84	86.68	29-Jul-19 10:00:00		**11.84**	**18.92**	**83.84**	**88.40**
29-Jul-19 11:00:00	29-Jul-19 12:00:00		14.99	0.00	0.00	4.87	2.1	329.7		4.94	0.00	0.00	1.61		10.35	18.92	83.84	86.68	29-Jul-19 11:00:00		**15.29**	**18.92**	**83.84**	**88.29**
29-Jul-19 12:00:00	29-Jul-19 13:00:00		7.09	0.00	0.00	4.61	2.1	329.7		2.34	0.00	0.00	1.52		10.35	18.92	83.84	86.68	29-Jul-19 12:00:00		**12.69**	**18.92**	**83.84**	**88.20**
29-Jul-19 13:00:00	29-Jul-19 14:00:00		1.17	0.00	0.00	4.35	2.1	329.7		0.38	0.00	0.00	1.43		10.35	18.92	83.84	86.68	29-Jul-19 13:00:00		**10.73**	**18.92**	**83.84**	**88.11**
29-Jul-19 14:00:00	29-Jul-19 15:00:00		7.01	0.00	0.00	4.13	2.1	329.7		2.31	0.00	0.00	1.36		10.35	18.92	83.84	86.68	29-Jul-19 14:00:00		**12.66**	**18.92**	**83.84**	**88.04**
29-Jul-19 15:00:00	29-Jul-19 16:00:00		5.64	0.00	0.00	4.11	2.1	329.7		1.86	0.00	0.00	1.35		10.35	18.92	83.84	86.68	29-Jul-19 15:00:00		**12.21**	**18.92**	**83.84**	**88.03**
29-Jul-19 16:00:00	29-Jul-19 17:00:00		16.15	0.00	0.00	4.11	2.1	329.7		5.32	0.00	0.00	1.35		10.35	18.92	83.84	86.68	29-Jul-19 16:00:00		**15.67**	**18.92**	**83.84**	**88.03**
29-Jul-19 17:00:00	29-Jul-19 18:00:00		28.39	0.00	0.00	4.10	2.1	329.7		9.36	0.00	0.00	1.35		10.35	18.92	83.84	86.68	29-Jul-19 17:00:00		**19.71**	**18.92**	**83.84**	**88.03**
29-Jul-19 18:00:00	29-Jul-19 19:00:00		28.60	0.00	0.00	4.13	2.1	329.7		9.43	0.00	0.00	1.36		10.35	18.92	83.84	86.68	29-Jul-19 18:00:00		**19.78**	**18.92**	**83.84**	**88.04**
29-Jul-19 19:00:00	29-Jul-19 20:00:00		28.81	0.00	0.00	4.33	2.1	329.7		9.50	0.00	0.00	1.43		10.35	18.92	83.84	86.68	29-Jul-19 19:00:00		**19.85**	**18.92**	**83.84**	**88.11**
29-Jul-19 20:00:00	29-Jul-19 21:00:00		28.68	0.00	0.00	4.54	2.1	329.7		9.46	0.00	0.00	1.50		10.35	18.92	83.84	86.68	29-Jul-19 20:00:00		**19.81**	**18.92**	**83.84**	**88.18**
29-Jul-19 21:00:00	29-Jul-19 22:00:00		10.56	0.00	0.00	4.76	2.1	329.7		3.48	0.00	0.00	1.57		10.35	18.92	83.84	86.68	29-Jul-19 21:00:00		**13.83**	**18.92**	**83.84**	**88.25**
29-Jul-19 22:00:00	29-Jul-19 23:00:00		4.68	0.00	0.00	5.00	2.1	329.7		1.54	0.00	0.00	1.65		10.35	18.92	83.84	86.68	29-Jul-19 22:00:00		**11.89**	**18.92**	**83.84**	**88.33**
29-Jul-19 23:00:00	30-Jul-19 00:00:00		14.92	0.00	0.00	5.16	2.1	329.7		4.92	0.00	0.00	1.70		10.35	18.92	83.84	86.68	29-Jul-19 23:00:00		**15.27**	**18.92**	**83.84**	**88.38**
30-Jul-19 00:00:00	30-Jul-19 01:00:00		15.03	0.00	0.00	5.28	2.1	329.7		4.95	0.00	0.00	1.74		10.35	18.92	83.84	86.68	30-Jul-19 00:00:00		**15.30**	**18.92**	**83.84**	**88.42**
30-Jul-19 01:00:00	30-Jul-19 02:00:00		10.78	0.00	0.00	5.41	2.1	329.7		3.56	0.00	0.00	1.78		10.35	18.92	83.84	86.68	30-Jul-19 01:00:00		**13.91**	**18.92**	**83.84**	**88.46**
30-Jul-19 02:00:00	30-Jul-19 03:00:00		2.95	0.00	0.00	5.50	2.1	329.7		0.97	0.00	0.00	1.81		10.35	18.92	83.84	86.68	30-Jul-19 02:00:00		**11.32**	**18.92**	**83.84**	**88.49**
30-Jul-19 03:00:00	30-Jul-19 04:00:00		1.55	0.00	0.00	5.56	2.1	329.7		0.51	0.00	0.00	1.83		10.35	18.92	83.84	86.68	30-Jul-19 03:00:00		**10.86**	**18.92**	**83.84**	**88.51**
30-Jul-19 04:00:00	30-Jul-19 05:00:00		10.33	0.00	0.00	5.63	2.1	329.7		3.40	0.00	0.00	1.86		10.35	18.92	83.84	86.68	30-Jul-19 04:00:00		**13.75**	**18.92**	**83.84**	**88.54**
30-Jul-19 05:00:00	30-Jul-19 06:00:00		15.48	0.00	0.00	5.71	2.1	329.7		5.10	0.00	0.00	1.88		10.35	18.92	83.84	86.68	30-Jul-19 05:00:00		**15.45**	**18.92**	**83.84**	**88.56**
30-Jul-19 06:00:00	30-Jul-19 07:00:00		7.62	0.00	0.00	5.80	2.1	329.7		2.51	0.00	0.00	1.91		10.35	18.92	83.84	86.68	30-Jul-19 06:00:00		**12.86**	**18.92**	**83.84**	**88.59**
30-Jul-19 07:00:00	30-Jul-19 08:00:00		2.64	0.00	0.00	5.67	2.1	329.7		0.87	0.00	0.00	1.87		10.35	18.92	83.84	86.68	30-Jul-19 07:00:00		**11.22**	**18.92**	**83.84**	**88.55**
30-Jul-19 08:00:00	30-Jul-19 09:00:00		1.87	0.00	0.00	5.47	2.1	329.7		0.62	0.00	0.00	1.80		10.35	18.92	83.84	86.68	30-Jul-19 08:00:00		**10.97**	**18.92**	**83.84**	**88.48**
30-Jul-19 09:00:00	30-Jul-19 10:00:00		2.15	0.00	0.00	5.28	2.1	329.7		0.71	0.00	0.00	1.74		10.35	18.92	83.84	86.68	30-Jul-19 09:00:00		**11.06**	**18.92**	**83.84**	**88.42**
30-Jul-19 10:00:00	30-Jul-19 11:00:00		5.11	0.00	0.00	5.10	2.1	329.7		1.68	0.00	0.00	1.68		10.35	18.92	83.84	86.68	30-Jul-19 10:00:00		**12.03**	**18.92**	**83.84**	**88.36**
30-Jul-19 11:00:00	30-Jul-19 12:00:00		4.21	0.00	0.00	4.86	2.1	329.7		1.39	0.00	0.00	1.60		10.35	18.92	83.84	86.68	30-Jul-19 11:00:00		**11.74**	**18.92**	**83.84**	**88.28**
30-Jul-19 12:00:00	30-Jul-19 13:00:00		16.80	0.00	0.00	4.61	2.1	329.7		5.54	0.00	0.00	1.52		10.35	18.92	83.84	86.68	30-Jul-19 12:00:00		**15.89**	**18.92**	**83.84**	**88.20**
30-Jul-19 13:00:00	30-Jul-19 14:00:00		2.23	0.00	0.00	4.35	2.1	329.7		0.74	0.00	0.00	1.43		10.35	18.92	83.84	86.68	30-Jul-19 13:00:00		**11.09**	**18.92**	**83.84**	**88.11**
30-Jul-19 14:00:00	30-Jul-19 15:00:00		12.76	0.00	0.00	4.16	2.1	329.7		4.21	0.00	0.00	1.37		10.35	18.92	83.84	86.68	30-Jul-19 14:00:00		**14.56**	**18.92**	**83.84**	**88.05**
30-Jul-19 15:00:00	30-Jul-19 16:00:00		7.17	0.00	0.00	4.23	2.1	329.7		2.37	0.00	0.00	1.40		10.35	18.92	83.84	86.68	30-Jul-19 15:00:00		**12.72**	**18.92**	**83.84**	**88.08**
30-Jul-19 16:00:00	30-Jul-19 17:00:00		9.08	0.00	0.00	4.33	2.1	329.7		2.99	0.00	0.00	1.43		10.35	18.92	83.84	86.68	30-Jul-19 16:00:00		**13.34**	**18.92**	**83.84**	**88.11**
30-Jul-19 17:00:00	30-Jul-19 18:00:00		11.08	0.00	0.00	4.43	2.1	329.7		3.65	0.00	0.00	1.46		10.35	18.92	83.84	86.68	30-Jul-19 17:00:00		**14.00**	**18.92**	**83.84**	**88.14**
30-Jul-19 18:00:00	30-Jul-19 19:00:00		12.24	0.00	0.00	4.50	2.1	329.7		4.03	0.00	0.00	1.48		10.35	18.92	83.84	86.68	30-Jul-19 18:00:00		**14.38**	**18.92**	**83.84**	**88.16**
30-Jul-19 19:00:00	30-Jul-19 20:00:00		12.90	0.00	0.00	4.56	2.1	329.7		4.25	0.00	0.00	1.50		10.35	18.92	83.84	86.68	30-Jul-19 19:00:00		**14.60**	**18.92**	**83.84**	**88.18**
30-Jul-19 20:00:00	30-Jul-19 21:00:00		14.39	0.00	0.00	4.63	2.1	329.7		4.74	0.00	0.00	1.53		10.35	18.92	83.84	86.68	30-Jul-19 20:00:00		**15.09**	**18.92**	**83.84**	**88.21**
30-Jul-19 21:00:00	30-Jul-19 22:00:00		14.37	0.00	0.00	4.70	2.1	329.7		4.74	0.00	0.00	1.55		10.35	18.92	83.84	86.68	30-Jul-19 21:00:00		**15.09**	**18.92**	**83.84**	**88.23**
30-Jul-19 22:00:00	30-Jul-19 23:00:00		2.71	0.00	0.00	4.89	2.1	329.7		0.89	0.00	0.00	1.61		10.35	18.92	83.84	86.68	30-Jul-19 22:00:00		**11.24**	**18.92**	**83.84**	**88.29**
30-Jul-19 23:00:00	31-Jul-19 00:00:00		14.96	0.00	0.00	5.12	2.1	329.7		4.93	0.00	0.00	1.69		10.35	18.92	83.84	86.68	30-Jul-19 23:00:00		**15.28**	**18.92**	**83.84**	**88.37**
31-Jul-19 00:00:00	31-Jul-19 01:00:00		14.22	0.00	0.00	5.27	2.1	329.7		4.69	0.00	0.00	1.74		10.35	18.92	83.84	86.68	31-Jul-19 00:00:00		**15.04**	**18.92**	**83.84**	**88.42**
31-Jul-19 01:00:00	31-Jul-19 02:00:00		17.93	0.00	0.00	5.42	2.1	329.7		5.91	0.00	0.00	1.79		10.35	18.92	83.84	86.68	31-Jul-19 01:00:00		**16.26**	**18.92**	**83.84**	**88.47**
31-Jul-19 02:00:00	31-Jul-19 03:00:00		14.61	0.00	0.00	5.57	2.1	329.7		4.82	0.00	0.00	1.84		10.35	18.92	83.84	86.68	31-Jul-19 02:00:00		**15.17**	**18.92**	**83.84**	**88.52**
31-Jul-19 03:00:00	31-Jul-19 04:00:00		17.44	0.00	0.00	5.67	2.1	329.7		5.75	0.00	0.00	1.87		10.35	18.92	83.84	86.68	31-Jul-19 03:00:00		**16.10**	**18.92**	**83.84**	**88.55**
31-Jul-19 04:00:00	31-Jul-19 05:00:00		5.27	0.00	0.00	115.66	2.1	329.7		1.74	0.00	0.00	38.13		10.35	18.92	83.84	86.68	31-Jul-19 04:00:00		**12.09**	**18.92**	**83.84**	**124.81**
31-Jul-19 05:00:00	31-Jul-19 06:00:00		3.53	0.00	0.00	5.72	2.1	329.7		1.16	0.00	0.00	1.89		10.35	18.92	83.84	86.68	31-Jul-19 05:00:00		**11.51**	**18.92**	**83.84**	**88.57**
31-Jul-19 06:00:00	31-Jul-19 07:00:00		5.65	0.00	0.00	5.64	2.1	329.7		1.86	0.00	0.00	1.86		10.35	18.92	83.84	86.68	31-Jul-19 06:00:00		**12.21**	**18.92**	**83.84**	**88.54**
31-Jul-19 07:00:00	31-Jul-19 08:00:00		161.22	0.00	0.00	5.57	2.1	329.7		53.15	0.00	0.00	1.84		10.35	18.92	83.84	86.68	31-Jul-19 07:00:00		**63.50**	**18.92**	**83.84**	**88.52**
31-Jul-19 08:00:00	31-Jul-19 09:00:00		252.39	0.00	0.00	5.51	2.1	329.7		83.21	0.00	0.00	1.82		10.35	18.92	83.84	86.68	31-Jul-19 08:00:00		**93.56**	**18.92**	**83.84**	**88.50**
31-Jul-19 09:00:00	31-Jul-19 10:00:00		1.67	0.00	0.00	5.45	2.1	329.7		0.55	0.00	0.00	1.80		10.35	18.92	83.84	86.68	31-Jul-19 09:00:00		**10.90**	**18.92**	**83.84**	**88.48**
31-Jul-19 10:00:00	31-Jul-19 11:00:00		5.34	0.00	0.00	5.28	2.1	329.7		1.76	0.00	0.00	1.74		10.35	18.92	83.84	86.68	31-Jul-19 10:00:00		**12.11**	**18.92**	**83.84**	**88.42**
31-Jul-19 11:00:00	31-Jul-19 12:00:00		0.00	0.00	0.00	5.11	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	31-Jul-19 11:00:00		**10.35**	**18.92**	**83.84**	**88.37**
31-Jul-19 12:00:00	31-Jul-19 13:00:00		0.81	0.00	0.00	4.93	2.1	329.7		0.27	0.00	0.00	1.62		10.35	18.92	83.84	86.68	31-Jul-19 12:00:00		**10.62**	**18.92**	**83.84**	**88.30**
31-Jul-19 13:00:00	31-Jul-19 14:00:00		25.01	0.00	0.00	4.74	2.1	329.7		8.25	0.00	0.00	1.56		10.35	18.92	83.84	86.68	31-Jul-19 13:00:00		**18.60**	**18.92**	**83.84**	**88.24**
31-Jul-19 14:00:00	31-Jul-19 15:00:00		3.90	0.00	0.00	4.71	2.1	329.7		1.29	0.00	0.00	1.55		10.35	18.92	83.84	86.68	31-Jul-19 14:00:00		**11.64**	**18.92**	**83.84**	**88.23**
31-Jul-19 15:00:00	31-Jul-19 16:00:00		13.53	0.00	0.00	4.68	2.1	329.7		4.46	0.00	0.00	1.54		10.35	18.92	83.84	86.68	31-Jul-19 15:00:00		**14.81**	**18.92**	**83.84**	**88.22**
31-Jul-19 16:00:00	31-Jul-19 17:00:00		22.74	0.00	0.00	4.66	2.1	329.7		7.50	0.00	0.00	1.54		10.35	18.92	83.84	86.68	31-Jul-19 16:00:00		**17.85**	**18.92**	**83.84**	**88.22**
31-Jul-19 17:00:00	31-Jul-19 18:00:00		24.76	0.00	0.00	4.77	2.1	329.7		8.16	0.00	0.00	1.57		10.35	18.92	83.84	86.68	31-Jul-19 17:00:00		**18.51**	**18.92**	**83.84**	**88.25**
31-Jul-19 18:00:00	31-Jul-19 19:00:00		24.47	0.00	0.00	4.90	2.1	329.7		8.07	0.00	0.00	1.62		10.35	18.92	83.84	86.68	31-Jul-19 18:00:00		**18.42**	**18.92**	**83.84**	**88.30**
31-Jul-19 19:00:00	31-Jul-19 20:00:00		25.64	0.00	0.00	5.03	2.1	329.7		8.45	0.00	0.00	1.66		10.35	18.92	83.84	86.68	31-Jul-19 19:00:00		**18.80**	**18.92**	**83.84**	**88.34**
31-Jul-19 20:00:00	31-Jul-19 21:00:00		31.58	0.00	0.00	5.16	2.1	329.7		10.41	0.00	0.00	1.70		10.35	18.92	83.84	86.68	31-Jul-19 20:00:00		**20.76**	**18.92**	**83.84**	**88.38**
31-Jul-19 21:00:00	31-Jul-19 22:00:00		22.37	0.00	0.00	5.24	2.1	329.7		7.38	0.00	0.00	1.73		10.35	18.92	83.84	86.68	31-Jul-19 21:00:00		**17.73**	**18.92**	**83.84**	**88.41**
31-Jul-19 22:00:00	31-Jul-19 23:00:00		6.47	0.00	0.00	5.26	2.1	329.7		2.13	0.00	0.00	1.74		10.35	18.92	83.84	86.68	31-Jul-19 22:00:00		**12.48**	**18.92**	**83.84**	**88.42**
31-Jul-19 23:00:00	01-Aug-19 00:00:00		6.81	0.00	0.00	5.29	2.1	329.7		2.25	0.00	0.00	1.74		10.35	18.92	83.84	86.68	31-Jul-19 23:00:00		**12.60**	**18.92**	**83.84**	**88.42**
01-Aug-19 00:00:00	01-Aug-19 01:00:00		17.54	0.00	0.00	5.31	2.1	329.7		5.78	0.00	0.00	1.75		10.35	18.92	83.84	86.68	01-Aug-19 00:00:00		**16.13**	**18.92**	**83.84**	**88.43**
01-Aug-19 01:00:00	01-Aug-19 02:00:00		20.89	0.00	0.00	5.46	2.1	329.7		6.89	0.00	0.00	1.80		10.35	18.92	83.84	86.68	01-Aug-19 01:00:00		**17.24**	**18.92**	**83.84**	**88.48**
01-Aug-19 02:00:00	01-Aug-19 03:00:00		15.20	0.00	0.00	5.67	2.1	329.7		5.01	0.00	0.00	1.87		10.35	18.92	83.84	86.68	01-Aug-19 02:00:00		**15.36**	**18.92**	**83.84**	**88.55**
01-Aug-19 03:00:00	01-Aug-19 04:00:00		11.57	0.00	0.00	25.35	2.1	329.7		3.82	0.00	0.00	8.36		10.35	18.92	83.84	86.68	01-Aug-19 03:00:00		**14.17**	**18.92**	**83.84**	**95.04**
01-Aug-19 04:00:00	01-Aug-19 05:00:00		5.60	0.00	0.00	5.67	2.1	329.7		1.85	0.00	0.00	1.87		10.35	18.92	83.84	86.68	01-Aug-19 04:00:00		**12.20**	**18.92**	**83.84**	**88.55**
01-Aug-19 05:00:00	01-Aug-19 06:00:00		1.53	0.00	0.00	5.55	2.1	329.7		0.50	0.00	0.00	1.83		10.35	18.92	83.84	86.68	01-Aug-19 05:00:00		**10.85**	**18.92**	**83.84**	**88.51**
01-Aug-19 06:00:00	01-Aug-19 07:00:00		0.23	0.00	0.00	5.43	2.1	329.7		0.08	0.00	0.00	1.79		10.35	18.92	83.84	86.68	01-Aug-19 06:00:00		**10.43**	**18.92**	**83.84**	**88.47**
01-Aug-19 07:00:00	01-Aug-19 08:00:00		0.53	0.00	0.00	5.41	2.1	329.7		0.18	0.00	0.00	1.79		10.35	18.92	83.84	86.68	01-Aug-19 07:00:00		**10.53**	**18.92**	**83.84**	**88.47**
01-Aug-19 08:00:00	01-Aug-19 09:00:00		0.84	0.00	0.00	5.30	2.1	329.7		0.28	0.00	0.00	1.75		10.35	18.92	83.84	86.68	01-Aug-19 08:00:00		**10.63**	**18.92**	**83.84**	**88.43**
01-Aug-19 09:00:00	01-Aug-19 10:00:00		0.94	0.00	0.00	5.12	2.1	329.7		0.31	0.00	0.00	1.69		10.35	18.92	83.84	86.68	01-Aug-19 09:00:00		**10.66**	**18.92**	**83.84**	**88.37**
01-Aug-19 10:00:00	01-Aug-19 11:00:00		12.52	0.00	0.00	4.95	2.1	329.7		4.13	0.00	0.00	1.63		10.35	18.92	83.84	86.68	01-Aug-19 10:00:00		**14.48**	**18.92**	**83.84**	**88.31**
01-Aug-19 11:00:00	01-Aug-19 12:00:00		29.43	0.00	0.00	4.83

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
03-Aug-19 13:00:00	03-Aug-19 14:00:00		10.91	0.00	0.00	4.41	2.1	329.7		3.60	0.00	0.00	1.45		10.35	18.92	83.84	86.68	03-Aug-19 13:00:00		**13.95**	**18.92**	**83.84**	**88.13**
03-Aug-19 14:00:00	03-Aug-19 15:00:00		13.63	0.00	0.00	4.26	2.1	329.7		4.49	0.00	0.00	1.41		10.35	18.92	83.84	86.68	03-Aug-19 14:00:00		**14.84**	**18.92**	**83.84**	**88.09**
03-Aug-19 15:00:00	03-Aug-19 16:00:00		24.94	0.00	0.00	4.13	2.1	329.7		8.22	0.00	0.00	1.36		10.35	18.92	83.84	86.68	03-Aug-19 15:00:00		**18.57**	**18.92**	**83.84**	**88.04**
03-Aug-19 16:00:00	03-Aug-19 17:00:00		26.51	0.00	0.00	4.21	2.1	329.7		8.74	0.00	0.00	1.39		10.35	18.92	83.84	86.68	03-Aug-19 16:00:00		**19.09**	**18.92**	**83.84**	**88.07**
03-Aug-19 17:00:00	03-Aug-19 18:00:00		13.53	0.00	0.00	4.34	2.1	329.7		4.46	0.00	0.00	1.43		10.35	18.92	83.84	86.68	03-Aug-19 17:00:00		**14.81**	**18.92**	**83.84**	**88.11**
03-Aug-19 18:00:00	03-Aug-19 19:00:00		13.85	0.00	0.00	4.48	2.1	329.7		4.57	0.00	0.00	1.48		10.35	18.92	83.84	86.68	03-Aug-19 18:00:00		**14.92**	**18.92**	**83.84**	**88.16**
03-Aug-19 19:00:00	03-Aug-19 20:00:00		20.23	0.00	0.00	4.60	2.1	329.7		6.67	0.00	0.00	1.52		10.35	18.92	83.84	86.68	03-Aug-19 19:00:00		**17.02**	**18.92**	**83.84**	**88.20**
03-Aug-19 20:00:00	03-Aug-19 21:00:00		11.75	0.00	0.00	4.66	2.1	329.7		3.87	0.00	0.00	1.54		10.35	18.92	83.84	86.68	03-Aug-19 20:00:00		**14.22**	**18.92**	**83.84**	**88.22**
03-Aug-19 21:00:00	03-Aug-19 22:00:00		26.60	0.00	0.00	4.68	2.1	329.7		8.77	0.00	0.00	1.54		10.35	18.92	83.84	86.68	03-Aug-19 21:00:00		**19.12**	**18.92**	**83.84**	**88.22**
03-Aug-19 22:00:00	03-Aug-19 23:00:00		29.25	0.00	0.00	4.70	2.1	329.7		9.64	0.00	0.00	1.55		10.35	18.92	83.84	86.68	03-Aug-19 22:00:00		**19.99**	**18.92**	**83.84**	**88.23**
03-Aug-19 23:00:00	04-Aug-19 00:00:00		44.26	0.00	0.00	4.72	2.1	329.7		14.59	0.00	0.00	1.56		10.35	18.92	83.84	86.68	03-Aug-19 23:00:00		**24.94**	**18.92**	**83.84**	**88.24**
04-Aug-19 00:00:00	04-Aug-19 01:00:00		37.74	0.00	0.00	4.76	2.1	329.7		12.44	0.00	0.00	1.57		10.35	18.92	83.84	86.68	04-Aug-19 00:00:00		**22.79**	**18.92**	**83.84**	**88.25**
04-Aug-19 01:00:00	04-Aug-19 02:00:00		11.51	0.00	0.00	4.84	2.1	329.7		3.79	0.00	0.00	1.59		10.35	18.92	83.84	86.68	04-Aug-19 01:00:00		**14.14**	**18.92**	**83.84**	**88.27**
04-Aug-19 02:00:00	04-Aug-19 03:00:00		21.64	0.00	0.00	4.91	2.1	329.7		7.13	0.00	0.00	1.62		10.35	18.92	83.84	86.68	04-Aug-19 02:00:00		**17.48**	**18.92**	**83.84**	**88.30**
04-Aug-19 03:00:00	04-Aug-19 04:00:00		15.44	0.00	0.00	4.99	2.1	329.7		5.09	0.00	0.00	1.64		10.35	18.92	83.84	86.68	04-Aug-19 03:00:00		**15.44**	**18.92**	**83.84**	**88.32**
04-Aug-19 04:00:00	04-Aug-19 05:00:00		27.26	0.00	0.00	5.05	2.1	329.7		8.99	0.00	0.00	1.67		10.35	18.92	83.84	86.68	04-Aug-19 04:00:00		**19.34**	**18.92**	**83.84**	**88.35**
04-Aug-19 05:00:00	04-Aug-19 06:00:00		32.80	0.00	0.00	5.11	2.1	329.7		10.81	0.00	0.00	1.69		10.35	18.92	83.84	86.68	04-Aug-19 05:00:00		**21.16**	**18.92**	**83.84**	**88.37**
04-Aug-19 06:00:00	04-Aug-19 07:00:00		31.25	0.00	0.00	5.17	2.1	329.7		10.30	0.00	0.00	1.71		10.35	18.92	83.84	86.68	04-Aug-19 06:00:00		**20.65**	**18.92**	**83.84**	**88.39**
04-Aug-19 07:00:00	04-Aug-19 08:00:00		29.89	0.00	0.00	49.11	2.1	329.7		9.86	0.00	0.00	16.19		10.35	18.92	83.84	86.68	04-Aug-19 07:00:00		**20.21**	**18.92**	**83.84**	**102.87**
04-Aug-19 08:00:00	04-Aug-19 09:00:00		30.77	0.00	0.00	5.03	2.1	329.7		10.15	0.00	0.00	1.66		10.35	18.92	83.84	86.68	04-Aug-19 08:00:00		**20.50**	**18.92**	**83.84**	**88.34**
04-Aug-19 09:00:00	04-Aug-19 10:00:00		35.06	0.00	0.00	4.91	2.1	329.7		11.56	0.00	0.00	1.62		10.35	18.92	83.84	86.68	04-Aug-19 09:00:00		**21.91**	**18.92**	**83.84**	**88.30**
04-Aug-19 10:00:00	04-Aug-19 11:00:00		34.42	0.00	0.00	5.21	2.1	329.7		11.35	0.00	0.00	1.72		10.35	18.92	83.84	86.68	04-Aug-19 10:00:00		**21.70**	**18.92**	**83.84**	**88.40**
04-Aug-19 11:00:00	04-Aug-19 12:00:00		20.09	0.00	0.00	4.61	2.1	329.7		6.62	0.00	0.00	1.52		10.35	18.92	83.84	86.68	04-Aug-19 11:00:00		**16.97**	**18.92**	**83.84**	**88.20**
04-Aug-19 12:00:00	04-Aug-19 13:00:00		17.79	0.00	0.00	4.62	2.1	329.7		5.86	0.00	0.00	1.52		10.35	18.92	83.84	86.68	04-Aug-19 12:00:00		**16.21**	**18.92**	**83.84**	**88.20**
04-Aug-19 13:00:00	04-Aug-19 14:00:00		14.85	0.00	0.00	4.64	2.1	329.7		4.90	0.00	0.00	1.53		10.35	18.92	83.84	86.68	04-Aug-19 13:00:00		**15.25**	**18.92**	**83.84**	**88.21**
04-Aug-19 14:00:00	04-Aug-19 15:00:00		31.18	0.00	0.00	4.69	2.1	329.7		10.28	0.00	0.00	1.55		10.35	18.92	83.84	86.68	04-Aug-19 14:00:00		**20.63**	**18.92**	**83.84**	**88.23**
04-Aug-19 15:00:00	04-Aug-19 16:00:00		34.76	0.00	0.00	4.93	2.1	329.7		11.46	0.00	0.00	1.62		10.35	18.92	83.84	86.68	04-Aug-19 15:00:00		**21.81**	**18.92**	**83.84**	**88.30**
04-Aug-19 16:00:00	04-Aug-19 17:00:00		20.91	0.00	0.00	5.07	2.1	329.7		6.90	0.00	0.00	1.67		10.35	18.92	83.84	86.68	04-Aug-19 16:00:00		**17.25**	**18.92**	**83.84**	**88.35**
04-Aug-19 17:00:00	04-Aug-19 18:00:00		19.52	0.00	0.00	5.22	2.1	329.7		6.44	0.00	0.00	1.72		10.35	18.92	83.84	86.68	04-Aug-19 17:00:00		**16.79**	**18.92**	**83.84**	**88.40**
04-Aug-19 18:00:00	04-Aug-19 19:00:00		20.06	0.00	0.00	5.37	2.1	329.7		6.62	0.00	0.00	1.77		10.35	18.92	83.84	86.68	04-Aug-19 18:00:00		**16.97**	**18.92**	**83.84**	**88.45**
04-Aug-19 19:00:00	04-Aug-19 20:00:00		21.10	0.00	0.00	5.41	2.1	329.7		6.96	0.00	0.00	1.78		10.35	18.92	83.84	86.68	04-Aug-19 19:00:00		**17.31**	**18.92**	**83.84**	**88.46**
04-Aug-19 20:00:00	04-Aug-19 21:00:00		21.29	0.00	0.00	115.23	2.1	329.7		7.02	0.00	0.00	37.99		10.35	18.92	83.84	86.68	04-Aug-19 20:00:00		**17.37**	**18.92**	**83.84**	**124.67**
04-Aug-19 21:00:00	04-Aug-19 22:00:00		20.25	0.00	0.00	5.27	2.1	329.7		6.68	0.00	0.00	1.74		10.35	18.92	83.84	86.68	04-Aug-19 21:00:00		**17.03**	**18.92**	**83.84**	**88.42**
04-Aug-19 22:00:00	04-Aug-19 23:00:00		18.06	0.00	0.00	5.26	2.1	329.7		5.95	0.00	0.00	1.74		10.35	18.92	83.84	86.68	04-Aug-19 22:00:00		**16.30**	**18.92**	**83.84**	**88.42**
04-Aug-19 23:00:00	05-Aug-19 00:00:00		6.31	0.00	36.01	5.26	2.1	329.7		2.08	0.00	11.87	1.73		10.35	18.92	83.84	86.68	04-Aug-19 23:00:00		**12.43**	**18.92**	**95.71**	**88.41**
05-Aug-19 00:00:00	05-Aug-19 01:00:00		0.00	0.00	0.00	5.25	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	05-Aug-19 00:00:00		**10.35**	**18.92**	**83.84**	**88.41**
05-Aug-19 01:00:00	05-Aug-19 02:00:00		0.00	0.00	0.00	5.30	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	05-Aug-19 01:00:00		**10.35**	**18.92**	**83.84**	**88.43**
05-Aug-19 02:00:00	05-Aug-19 03:00:00		0.00	0.00	0.00	5.36	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	05-Aug-19 02:00:00		**10.35**	**18.92**	**83.84**	**88.45**
05-Aug-19 03:00:00	05-Aug-19 04:00:00		0.00	0.00	0.00	5.43	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	05-Aug-19 03:00:00		**10.35**	**18.92**	**83.84**	**88.47**
05-Aug-19 04:00:00	05-Aug-19 05:00:00		0.00	0.00	0.00	5.46	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	05-Aug-19 04:00:00		**10.35**	**18.92**	**83.84**	**88.48**
05-Aug-19 05:00:00	05-Aug-19 06:00:00		0.00	0.00	0.00	5.38	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	05-Aug-19 05:00:00		**10.35**	**18.92**	**83.84**	**88.45**
05-Aug-19 06:00:00	05-Aug-19 07:00:00		0.00	0.00	0.00	115.24	2.1	329.7		0.00	0.00	0.00	38.00		10.35	18.92	83.84	86.68	05-Aug-19 06:00:00		**10.35**	**18.92**	**83.84**	**124.68**
05-Aug-19 07:00:00	05-Aug-19 08:00:00		0.00	0.00	0.00	5.31	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	05-Aug-19 07:00:00		**10.35**	**18.92**	**83.84**	**88.43**
05-Aug-19 08:00:00	05-Aug-19 09:00:00		0.00	0.00	0.00	5.29	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	05-Aug-19 08:00:00		**10.35**	**18.92**	**83.84**	**88.42**
05-Aug-19 09:00:00	05-Aug-19 10:00:00		0.00	0.00	0.00	5.27	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	05-Aug-19 09:00:00		**10.35**	**18.92**	**83.84**	**88.42**
05-Aug-19 10:00:00	05-Aug-19 11:00:00		0.00	0.00	0.00	5.24	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	05-Aug-19 10:00:00		**10.35**	**18.92**	**83.84**	**88.41**
05-Aug-19 11:00:00	05-Aug-19 12:00:00		18.99	0.00	0.00	5.07	2.1	329.7		6.26	0.00	0.00	1.67		10.35	18.92	83.84	86.68	05-Aug-19 11:00:00		**16.61**	**18.92**	**83.84**	**88.35**
05-Aug-19 12:00:00	05-Aug-19 13:00:00		17.48	0.00	0.00	4.90	2.1	329.7		5.76	0.00	0.00	1.61		10.35	18.92	83.84	86.68	05-Aug-19 12:00:00		**16.11**	**18.92**	**83.84**	**88.29**
05-Aug-19 13:00:00	05-Aug-19 14:00:00		11.99	0.00	0.00	4.72	2.1	329.7		3.95	0.00	0.00	1.56		10.35	18.92	83.84	86.68	05-Aug-19 13:00:00		**14.30**	**18.92**	**83.84**	**88.24**
05-Aug-19 14:00:00	05-Aug-19 15:00:00		19.57	0.00	0.00	4.60	2.1	329.7		6.45	0.00	0.00	1.52		10.35	18.92	83.84	86.68	05-Aug-19 14:00:00		**16.80**	**18.92**	**83.84**	**88.20**
05-Aug-19 15:00:00	05-Aug-19 16:00:00		16.71	0.00	0.00	4.46	2.1	329.7		5.51	0.00	0.00	1.47		10.35	18.92	83.84	86.68	05-Aug-19 15:00:00		**15.86**	**18.92**	**83.84**	**88.15**
05-Aug-19 16:00:00	05-Aug-19 17:00:00		16.88	0.00	0.00	4.31	2.1	329.7		5.57	0.00	0.00	1.42		10.35	18.92	83.84	86.68	05-Aug-19 16:00:00		**15.92**	**18.92**	**83.84**	**88.10**
05-Aug-19 17:00:00	05-Aug-19 18:00:00		16.13	0.00	0.00	4.17	2.1	329.7		5.32	0.00	0.00	1.38		10.35	18.92	83.84	86.68	05-Aug-19 17:00:00		**15.67**	**18.92**	**83.84**	**88.06**
05-Aug-19 18:00:00	05-Aug-19 19:00:00		17.33	0.00	0.00	4.13	2.1	329.7		5.71	0.00	0.00	1.36		10.35	18.92	83.84	86.68	05-Aug-19 18:00:00		**16.06**	**18.92**	**83.84**	**88.04**
05-Aug-19 19:00:00	05-Aug-19 20:00:00		18.62	0.00	0.00	4.26	2.1	329.7		6.14	0.00	0.00	1.40		10.35	18.92	83.84	86.68	05-Aug-19 19:00:00		**16.49**	**18.92**	**83.84**	**88.08**
05-Aug-19 20:00:00	05-Aug-19 21:00:00		19.80	0.00	0.00	4.39	2.1	329.7		6.53	0.00	0.00	1.45		10.35	18.92	83.84	86.68	05-Aug-19 20:00:00		**16.88**	**18.92**	**83.84**	**88.13**
05-Aug-19 21:00:00	05-Aug-19 22:00:00		17.32	0.00	0.00	4.51	2.1	329.7		5.71	0.00	0.00	1.49		10.35	18.92	83.84	86.68	05-Aug-19 21:00:00		**16.06**	**18.92**	**83.84**	**88.17**
05-Aug-19 22:00:00	05-Aug-19 23:00:00		4.40	0.00	0.00	4.67	2.1	329.7		1.45	0.00	0.00	1.54		10.35	18.92	83.84	86.68	05-Aug-19 22:00:00		**11.80**	**18.92**	**83.84**	**88.22**
05-Aug-19 23:00:00	06-Aug-19 00:00:00		16.28	0.00	0.00	4.86	2.1	329.7		5.37	0.00	0.00	1.60		10.35	18.92	83.84	86.68	05-Aug-19 23:00:00		**15.72**	**18.92**	**83.84**	**88.28**
06-Aug-19 00:00:00	06-Aug-19 01:00:00		4.46	0.00	0.00	5.05	2.1	329.7		1.47	0.00	0.00	1.67		10.35	18.92	83.84	86.68	06-Aug-19 00:00:00		**11.82**	**18.92**	**83.84**	**88.35**
06-Aug-19 01:00:00	06-Aug-19 02:00:00		14.21	0.00	0.00	18.06	2.1	329.7		4.69	0.00	0.00	5.96		10.35	18.92	83.84	86.68	06-Aug-19 01:00:00		**15.04**	**18.92**	**83.84**	**92.64**
06-Aug-19 02:00:00	06-Aug-19 03:00:00		18.47	0.00	0.00	5.17	2.1	329.7		6.09	0.00	0.00	1.71		10.35	18.92	83.84	86.68	06-Aug-19 02:00:00		**16.44**	**18.92**	**83.84**	**88.39**
06-Aug-19 03:00:00	06-Aug-19 04:00:00		23.68	0.00	0.00	5.18	2.1	329.7		7.81	0.00	0.00	1.71		10.35	18.92	83.84	86.68	06-Aug-19 03:00:00		**18.16**	**18.92**	**83.84**	**88.39**
06-Aug-19 04:00:00	06-Aug-19 05:00:00		21.64	0.00	0.00	6.70	2.1	329.7		7.14	0.00	0.00	2.21		10.35	18.92	83.84	86.68	06-Aug-19 04:00:00		**17.49**	**18.92**	**83.84**	**88.89**
06-Aug-19 05:00:00	06-Aug-19 06:00:00		23.07	0.00	0.00	5.28	2.1	329.7		7.60	0.00	0.00	1.74		10.35	18.92	83.84	86.68	06-Aug-19 05:00:00		**17.95**	**18.92**	**83.84**	**88.42**
06-Aug-19 06:00:00	06-Aug-19 07:00:00		16.72	0.00	0.00	5.30	2.1	329.7		5.51	0.00	0.00	1.75		10.35	18.92	83.84	86.68	06-Aug-19 06:00:00		**15.86**	**18.92**	**83.84**	**88.43**
06-Aug-19 07:00:00	06-Aug-19 08:00:00		4.01	0.00	0.00	5.32	2.1	329.7		1.32	0.00	0.00	1.75		10.35	18.92	83.84	86.68	06-Aug-19 07:00:00		**11.67**	**18.92**	**83.84**	**88.43**
06-Aug-19 08:00:00	06-Aug-19 09:00:00		0.87	0.00	0.00	5.38	2.1	329.7		0.29	0.00	0.00	1.77		10.35	18.92	83.84	86.68	06-Aug-19 08:00:00		**10.64**	**18.92**	**83.84**	**88.45**
06-Aug-19 09:00:00	06-Aug-19 10:00:00		1.74	0.00	0.00	5.15	2.1	329.7		0.57	0.00	0.00	1.70		10.35	18.92	83.84	86.68	06-Aug-19 09:00:00		**10.92**	**18.92**	**83.84**	**88.38**
06-Aug-19 10:00:00	06-Aug-19 11:00:00		12.14	0.00	0.00	4.78	2.1	329.7		4.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	06-Aug-19 10:00:00		**14.35**	**18.92**	**83.84**	**88.26**
06-Aug-19 11:00:00	06-Aug-19 12:00:00		19.47	0.00	0.00	4.42	2.1	329.7		6.42	0.00	0.00	1.46		10.35	18.92	83.84	86.68	06-Aug-19 11:00:00		**16.77**	**18.92**	**83.84**	**88.14**
06-Aug-19 12:00:00	06-Aug-19 13:00:00		0.26	0.00	0.00	4.11	2.1	329.7		0.09	0.00	0.00	1.35		10.35	18.92	83.84	86.68	06-Aug-19 12:00:00		**10.44**	**18.92**	**83.84**	**88.03**
06-Aug-19 13:00:00	06-Aug-19 14:00:00		4.32	0.00	0.00	4.07	2.1	329.7		1.42	0.00	0.00	1.34		10.35	18.92	83.84	86.68	06-Aug-19 13:00:00		**11.77**	**18.92**	**83.84**	**88.02**
06-Aug-19 14:00:00	06-Aug-19 15:00:00		17.44	0.00	0.00	4.06	2.1	329.7		5.75	0.00	0.00	1.34		10.35	18.92	83.84	86.68	06-Aug-19 14:00:00		**16.10**	**18.92**	**83.84**	**88.02**
06-Aug-19 15:00:00	06-Aug-19 16:00:00		11.16	0.00	0.00	4.05	2.1	329.7		3.68	0.00	0.00	1.34		10.35	18.92	83.84	86.68	06-Aug-19 15:00:00		**14.03**	**18.92**	**83.84**	**88.02**
06-Aug-19 16:00:00	06-Aug-19 17:00:00		10.93	0.00	0.00	4.05	2.1	329.7		3.60	0.00	0.00	1.34		10.35	18.92	83.84	86.68	06-Aug-19 16:00:00		**13.95**	**18.92**	**83.84**	**88.02**
06-Aug-19 17:00:00	06-Aug-19 18:00:00		10.72	0.00	0.00	4.07	2.1	329.7		3.53	0.00	0.00	1.34		10.35	18.92	83.84	86.68	06-Aug-19 17:00:00		**13.88**	**18.92**	**83.84**	**88.02**
06-Aug-19 18:00:00	06-Aug-19 19:00:00		10.56	0.00	0.00	4.09	2.1	329.7		3.48	0.00	0.00	1.35		10.35	18.92	83.84	86.68	06-Aug-19 18:00:00		**13.83**	**18.92**	**83.84**	**88.03**
06-Aug-19 19:00:00	06-Aug-19 20:00:00		10.41	0.00	0.00	4.11	2.1	329.7		3.43	0.00	0.00	1.36		10.35	18.92	83.84	86.68	06-Aug-19 19:00:00		**13.78**	**18.92**	**83.84**	**88.04**
06-Aug-19 20:00:00	06-Aug-19 21:00:00		10.18	0.00	0.00	50.68	2.1	329.7		3.35	0.00	0.00	16.71		10.35	18.92	83.84	86.68	06-Aug-19 20:00:00		**13.70**	**18.92**	**83.84**	**103.39**
06-Aug-19 21:00:00	06-Aug-19 22:00:00		12.58	0.00	0.00	4.28	2.1	329.7		4.15	0.00	0.00	1.41		10.35	18.92	83.84	86.68	06-Aug-19 21:00:00		**14.50**	**18.92**	**83.84**	**88.09**
06-Aug-19 22:00:00	06-Aug-19 23:00:00		18.99	0.00	0.00	4.45	2.1	329.7		6.26	0.00	0.00	1.47		10.35	18.92	83.84	86.68	06-Aug-19 22:00:00		**16.61**	**18.92**	**83.84**	**88.15**
06-Aug-19 23:00:00	07-Aug-19 00:00:00		12.14	0.00	0.00	4.63	2.1	329.7		4.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	06-Aug-19 23:00:00		**14.35**	**18.92**	**83.84**	**88.21**
07-Aug-19 00:00:00	07-Aug-19 01:00:00		9.88	0.00	0.00	4.76	2.1	329.7		3.26	0.00	0.00	1.57		10.35	18.92	83.84	86.68	07-Aug-19 00:00:00		**13.61**	**18.92**	**83.84**	**88.25**
07-Aug-19 01:00:00	07-Aug-19 02:00:00		7.43	0.00	0.00	4.83	2.1	329.7		2.45	0.00	0.00	1.59		10.35	18.92	83.84	86.68	07-Aug-19 01:00:00		**12.80**	**18.92**	**83.84**	**88.27**
07-Aug-19 02:00:00	07-Aug-19 03:00:00		13.51	0.00	0.00	4.91	2.1	329.7		4.46	0.00	0.00	1.62		10.35	18.92	83.84	86.68	07-Aug-19 02:00:00		**14.81**	**18.92**	**83.84**	**88.30**
07-Aug-19 03:00:00	07-Aug-19 04:00:00		10.70	0.00	0.00	4.99	2.1	329.7		3.53	0.00	0.00	1.65		10.35	18.92	83.84	86.68	07-Aug-19 03:00:00		**13.88**	**18.92**	**83.84**	**88.33**
07-Aug-19 04:00:00	07-Aug-19 05:00:00		13.19	0.00	0.00	5.09	2.1	329.7		4.35	0.00	0.00	1.68		10.35	18.92	83.84	86.68	07-Aug-19 04:00:00		**14.70**	**18.92**	**83.84**	**88.36**
07-Aug-19 05:00:00	07-Aug-19 06:00:00		0.12	0.00	0.00	5.14	2.1	329.7		0.04	0.00	0.00	1.70		10.35	18.92	83.84	86.68	07-Aug-19 05:00:00		**10.39**	**18.92**	**83.84**	**88.38**
07-Aug-19 06:00:00	07-Aug-19 07:00:00		5.23	0.00	0.00	5.17	2.1	329.7		1.72	0.00	0.00	1.70		10.35	18.92	83.84	86.68	07-Aug-19 06:00:00		**12.07**	**18.92**	**83.84**	**88.38**
07-Aug-19 07:00:00	07-Aug-19 08:00:00		12.63	0.00	0.00	5.19	2.1	329.7		4.17	0.00	0.00	1.71		10.35	18.92	83.84	86.68	07-Aug-19 07:00:00		**14.52**	**18.92**	**83.84**	**88.39**
07-Aug-19 08:00:00	07-Aug-19 09:00:00		2.67	0.00	0.00	5.14	2.1	329.7		0.88	0.00	0.00	1.69		10.35	18.92	83.84	86.68	07-Aug-19 08:00:00		**11.23**	**18.92**	**83.84**	**88.37**
07-Aug-19 09:00:00	07-Aug-19 10:00:00		5.39	0.00	0.00	5.01	2.1	329.7		1.78	0.00	0.00	1.65		10.35	18.92	83.84	86.68	07-Aug-19 09:00:00		**12.13**	**18.92**	**83.84**	**88.33**
07-Aug-19 10:00:00	07-Aug-19 11:00:00		8.58	0.00	0.00	4.

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
09-Aug-19 12:00:00	09-Aug-19 13:00:00		5.07	0.00	0.00	4.18	2.1	329.7		1.67	0.00	0.00	1.38		10.35	18.92	83.84	86.68	09-Aug-19 12:00:00		12.02	18.92	83.84	88.06
09-Aug-19 13:00:00	09-Aug-19 14:00:00		14.41	0.00	0.00	4.06	2.1	329.7		4.75	0.00	0.00	1.34		10.35	18.92	83.84	86.68	09-Aug-19 13:00:00		15.10	18.92	83.84	88.02
09-Aug-19 14:00:00	09-Aug-19 15:00:00		1.71	0.00	0.00	3.94	2.1	329.7		0.56	0.00	0.00	1.30		10.35	18.92	83.84	86.68	09-Aug-19 14:00:00		10.91	18.92	83.84	87.98
09-Aug-19 15:00:00	09-Aug-19 16:00:00		0.41	0.00	0.00	3.82	2.1	329.7		0.13	0.00	0.00	1.26		10.35	18.92	83.84	86.68	09-Aug-19 15:00:00		10.48	18.92	83.84	87.94
09-Aug-19 16:00:00	09-Aug-19 17:00:00		1.91	0.00	0.00	3.61	2.1	329.7		0.63	0.00	0.00	1.19		10.35	18.92	83.84	86.68	09-Aug-19 16:00:00		10.98	18.92	83.84	87.87
09-Aug-19 17:00:00	09-Aug-19 18:00:00		0.56	0.00	0.00	3.57	2.1	329.7		0.18	0.00	0.00	1.18		10.35	18.92	83.84	86.68	09-Aug-19 17:00:00		10.53	18.92	83.84	87.86
09-Aug-19 18:00:00	09-Aug-19 19:00:00		0.37	0.00	0.00	3.55	2.1	329.7		0.12	0.00	0.00	1.17		10.35	18.92	83.84	86.68	09-Aug-19 18:00:00		10.47	18.92	83.84	87.85
09-Aug-19 19:00:00	09-Aug-19 20:00:00		0.18	0.00	0.00	3.53	2.1	329.7		0.06	0.00	0.00	1.16		10.35	18.92	83.84	86.68	09-Aug-19 19:00:00		10.41	18.92	83.84	87.84
09-Aug-19 20:00:00	09-Aug-19 21:00:00		0.02	0.00	0.00	3.62	2.1	329.7		0.01	0.00	0.00	1.19		10.35	18.92	83.84	86.68	09-Aug-19 20:00:00		10.36	18.92	83.84	87.87
09-Aug-19 21:00:00	09-Aug-19 22:00:00		1.26	0.00	0.00	4.04	2.1	329.7		0.42	0.00	0.00	1.33		10.35	18.92	83.84	86.68	09-Aug-19 21:00:00		10.77	18.92	83.84	88.01
09-Aug-19 22:00:00	09-Aug-19 23:00:00		14.54	0.00	0.00	4.47	2.1	329.7		4.80	0.00	0.00	1.47		10.35	18.92	83.84	86.68	09-Aug-19 22:00:00		15.15	18.92	83.84	88.15
09-Aug-19 23:00:00	10-Aug-19 00:00:00		11.18	0.00	0.00	4.89	2.1	329.7		3.69	0.00	0.00	1.61		10.35	18.92	83.84	86.68	09-Aug-19 23:00:00		14.04	18.92	83.84	88.29
10-Aug-19 00:00:00	10-Aug-19 01:00:00		11.71	0.00	0.00	5.18	2.1	329.7		3.86	0.00	0.00	1.71		10.35	18.92	83.84	86.68	10-Aug-19 00:00:00		14.21	18.92	83.84	88.39
10-Aug-19 01:00:00	10-Aug-19 02:00:00		7.09	0.00	0.00	5.21	2.1	329.7		2.34	0.00	0.00	1.72		10.35	18.92	83.84	86.68	10-Aug-19 01:00:00		12.69	18.92	83.84	88.40
10-Aug-19 02:00:00	10-Aug-19 03:00:00		10.60	0.00	0.00	5.23	2.1	329.7		3.49	0.00	0.00	1.73		10.35	18.92	83.84	86.68	10-Aug-19 02:00:00		13.84	18.92	83.84	88.41
10-Aug-19 03:00:00	10-Aug-19 04:00:00		22.64	0.00	0.00	5.26	2.1	329.7		7.46	0.00	0.00	1.73		10.35	18.92	83.84	86.68	10-Aug-19 03:00:00		17.81	18.92	83.84	88.41
10-Aug-19 04:00:00	10-Aug-19 05:00:00		9.90	0.00	0.00	5.30	2.1	329.7		3.26	0.00	0.00	1.75		10.35	18.92	83.84	86.68	10-Aug-19 04:00:00		13.61	18.92	83.84	88.43
10-Aug-19 05:00:00	10-Aug-19 06:00:00		7.35	0.00	0.00	5.32	2.1	329.7		2.42	0.00	0.00	1.75		10.35	18.92	83.84	86.68	10-Aug-19 05:00:00		12.77	18.92	83.84	88.43
10-Aug-19 06:00:00	10-Aug-19 07:00:00		4.63	0.00	0.00	5.33	2.1	329.7		1.53	0.00	0.00	1.76		10.35	18.92	83.84	86.68	10-Aug-19 06:00:00		11.88	18.92	83.84	88.44
10-Aug-19 07:00:00	10-Aug-19 08:00:00		3.98	0.00	0.00	5.35	2.1	329.7		1.31	0.00	0.00	1.76		10.35	18.92	83.84	86.68	10-Aug-19 07:00:00		11.66	18.92	83.84	88.44
10-Aug-19 08:00:00	10-Aug-19 09:00:00		2.72	0.00	0.00	5.18	2.1	329.7		0.90	0.00	0.00	1.71		10.35	18.92	83.84	86.68	10-Aug-19 08:00:00		11.25	18.92	83.84	88.39
10-Aug-19 09:00:00	10-Aug-19 10:00:00		2.32	0.00	0.00	4.91	2.1	329.7		0.77	0.00	0.00	1.62		10.35	18.92	83.84	86.68	10-Aug-19 09:00:00		11.12	18.92	83.84	88.30
10-Aug-19 10:00:00	10-Aug-19 11:00:00		10.60	0.00	0.00	4.64	2.1	329.7		3.49	0.00	0.00	1.53		10.35	18.92	83.84	86.68	10-Aug-19 10:00:00		13.84	18.92	83.84	88.21
10-Aug-19 11:00:00	10-Aug-19 12:00:00		13.75	0.00	0.00	4.38	2.1	329.7		4.53	0.00	0.00	1.44		10.35	18.92	83.84	86.68	10-Aug-19 11:00:00		14.88	18.92	83.84	88.12
10-Aug-19 12:00:00	10-Aug-19 13:00:00		14.77	0.00	0.00	4.21	2.1	329.7		4.87	0.00	0.00	1.39		10.35	18.92	83.84	86.68	10-Aug-19 12:00:00		15.22	18.92	83.84	88.07
10-Aug-19 13:00:00	10-Aug-19 14:00:00		13.68	0.00	0.00	4.18	2.1	329.7		4.51	0.00	0.00	1.38		10.35	18.92	83.84	86.68	10-Aug-19 13:00:00		14.86	18.92	83.84	88.06
10-Aug-19 14:00:00	10-Aug-19 15:00:00		17.38	0.00	0.00	4.14	2.1	329.7		5.73	0.00	0.00	1.36		10.35	18.92	83.84	86.68	10-Aug-19 14:00:00		16.08	18.92	83.84	88.04
10-Aug-19 15:00:00	10-Aug-19 16:00:00		21.40	0.00	0.00	4.10	2.1	329.7		7.05	0.00	0.00	1.35		10.35	18.92	83.84	86.68	10-Aug-19 15:00:00		17.40	18.92	83.84	88.03
10-Aug-19 16:00:00	10-Aug-19 17:00:00		23.44	0.00	0.00	4.05	2.1	329.7		7.73	0.00	0.00	1.34		10.35	18.92	83.84	86.68	10-Aug-19 16:00:00		18.08	18.92	83.84	88.02
10-Aug-19 17:00:00	10-Aug-19 18:00:00		28.10	0.00	0.00	3.99	2.1	329.7		9.26	0.00	0.00	1.32		10.35	18.92	83.84	86.68	10-Aug-19 17:00:00		19.61	18.92	83.84	88.00
10-Aug-19 18:00:00	10-Aug-19 19:00:00		29.03	0.00	0.00	3.93	2.1	329.7		9.57	0.00	0.00	1.30		10.35	18.92	83.84	86.68	10-Aug-19 18:00:00		19.92	18.92	83.84	87.98
10-Aug-19 19:00:00	10-Aug-19 20:00:00		13.35	0.00	0.00	3.87	2.1	329.7		4.40	0.00	0.00	1.27		10.35	18.92	83.84	86.68	10-Aug-19 19:00:00		14.75	18.92	83.84	87.95
10-Aug-19 20:00:00	10-Aug-19 21:00:00		13.29	0.00	0.00	4.01	2.1	329.7		4.38	0.00	0.00	1.32		10.35	18.92	83.84	86.68	10-Aug-19 20:00:00		14.73	18.92	83.84	88.00
10-Aug-19 21:00:00	10-Aug-19 22:00:00		14.22	0.00	0.00	4.25	2.1	329.7		4.69	0.00	0.00	1.40		10.35	18.92	83.84	86.68	10-Aug-19 21:00:00		15.04	18.92	83.84	88.08
10-Aug-19 22:00:00	10-Aug-19 23:00:00		13.94	0.00	0.00	4.46	2.1	329.7		4.60	0.00	0.00	1.47		10.35	18.92	83.84	86.68	10-Aug-19 22:00:00		14.95	18.92	83.84	88.15
10-Aug-19 23:00:00	11-Aug-19 00:00:00		7.18	0.00	0.00	4.68	2.1	329.7		2.37	0.00	0.00	1.54		10.35	18.92	83.84	86.68	10-Aug-19 23:00:00		12.72	18.92	83.84	88.22
11-Aug-19 00:00:00	11-Aug-19 01:00:00		13.72	0.00	0.00	4.83	2.1	329.7		4.52	0.00	0.00	1.59		10.35	18.92	83.84	86.68	11-Aug-19 00:00:00		14.87	18.92	83.84	88.27
11-Aug-19 01:00:00	11-Aug-19 02:00:00		14.74	0.00	0.00	4.83	2.1	329.7		4.86	0.00	0.00	1.59		10.35	18.92	83.84	86.68	11-Aug-19 01:00:00		15.21	18.92	83.84	88.27
11-Aug-19 02:00:00	11-Aug-19 03:00:00		6.93	0.00	0.00	4.82	2.1	329.7		2.29	0.00	0.00	1.59		10.35	18.92	83.84	86.68	11-Aug-19 02:00:00		12.64	18.92	83.84	88.27
11-Aug-19 03:00:00	11-Aug-19 04:00:00		8.14	0.00	0.00	4.81	2.1	329.7		2.68	0.00	0.00	1.59		10.35	18.92	83.84	86.68	11-Aug-19 03:00:00		13.03	18.92	83.84	88.27
11-Aug-19 04:00:00	11-Aug-19 05:00:00		10.39	0.00	0.00	4.89	2.1	329.7		3.43	0.00	0.00	1.61		10.35	18.92	83.84	86.68	11-Aug-19 04:00:00		13.78	18.92	83.84	88.29
11-Aug-19 05:00:00	11-Aug-19 06:00:00		30.25	0.00	0.00	4.98	2.1	329.7		9.97	0.00	0.00	1.64		10.35	18.92	83.84	86.68	11-Aug-19 05:00:00		20.32	18.92	83.84	88.32
11-Aug-19 06:00:00	11-Aug-19 07:00:00		31.31	0.00	0.00	5.06	2.1	329.7		10.32	0.00	0.00	1.67		10.35	18.92	83.84	86.68	11-Aug-19 06:00:00		20.67	18.92	83.84	88.35
11-Aug-19 07:00:00	11-Aug-19 08:00:00		31.38	0.00	0.00	5.14	2.1	329.7		10.35	0.00	0.00	1.70		10.35	18.92	83.84	86.68	11-Aug-19 07:00:00		20.70	18.92	83.84	88.38
11-Aug-19 08:00:00	11-Aug-19 09:00:00		31.45	0.00	0.00	5.17	2.1	329.7		10.37	0.00	0.00	1.70		10.35	18.92	83.84	86.68	11-Aug-19 08:00:00		20.72	18.92	83.84	88.38
11-Aug-19 09:00:00	11-Aug-19 10:00:00		32.48	0.00	0.00	4.95	2.1	329.7		10.71	0.00	0.00	1.63		10.35	18.92	83.84	86.68	11-Aug-19 09:00:00		21.06	18.92	83.84	88.31
11-Aug-19 10:00:00	11-Aug-19 11:00:00		29.85	0.00	0.00	4.70	2.1	329.7		9.84	0.00	0.00	1.55		10.35	18.92	83.84	86.68	11-Aug-19 10:00:00		20.19	18.92	83.84	88.23
11-Aug-19 11:00:00	11-Aug-19 12:00:00		29.85	0.00	0.00	4.46	2.1	329.7		9.84	0.00	0.00	1.47		10.35	18.92	83.84	86.68	11-Aug-19 11:00:00		20.19	18.92	83.84	88.15
11-Aug-19 12:00:00	11-Aug-19 13:00:00		22.06	0.00	0.00	4.21	2.1	329.7		7.27	0.00	0.00	1.39		10.35	18.92	83.84	86.68	11-Aug-19 12:00:00		17.62	18.92	83.84	88.07
11-Aug-19 13:00:00	11-Aug-19 14:00:00		17.58	0.00	0.00	4.13	2.1	329.7		5.80	0.00	0.00	1.36		10.35	18.92	83.84	86.68	11-Aug-19 13:00:00		16.15	18.92	83.84	88.04
11-Aug-19 14:00:00	11-Aug-19 15:00:00		11.42	0.00	0.00	4.08	2.1	329.7		3.77	0.00	0.00	1.34		10.35	18.92	83.84	86.68	11-Aug-19 14:00:00		14.12	18.92	83.84	88.02
11-Aug-19 15:00:00	11-Aug-19 16:00:00		13.49	0.00	0.00	4.02	2.1	329.7		4.45	0.00	0.00	1.32		10.35	18.92	83.84	86.68	11-Aug-19 15:00:00		14.80	18.92	83.84	88.00
11-Aug-19 16:00:00	11-Aug-19 17:00:00		2.20	0.00	0.00	4.01	2.1	329.7		0.72	0.00	0.00	1.32		10.35	18.92	83.84	86.68	11-Aug-19 16:00:00		11.07	18.92	83.84	88.00
11-Aug-19 17:00:00	11-Aug-19 18:00:00		3.71	0.00	0.00	4.01	2.1	329.7		1.22	0.00	0.00	1.32		10.35	18.92	83.84	86.68	11-Aug-19 17:00:00		11.57	18.92	83.84	88.00
11-Aug-19 18:00:00	11-Aug-19 19:00:00		0.76	0.00	0.00	4.00	2.1	329.7		0.25	0.00	0.00	1.32		10.35	18.92	83.84	86.68	11-Aug-19 18:00:00		10.60	18.92	83.84	88.00
11-Aug-19 19:00:00	11-Aug-19 20:00:00		0.00	0.00	0.00	3.99	2.1	329.7		0.00	0.00	0.00	1.32		10.35	18.92	83.84	86.68	11-Aug-19 19:00:00		10.35	18.92	83.84	88.00
11-Aug-19 20:00:00	11-Aug-19 21:00:00		0.00	0.00	0.00	4.09	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	11-Aug-19 20:00:00		10.35	18.92	83.84	88.03
11-Aug-19 21:00:00	11-Aug-19 22:00:00		0.00	0.00	0.00	4.35	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	11-Aug-19 21:00:00		10.35	18.92	83.84	88.11
11-Aug-19 22:00:00	11-Aug-19 23:00:00		6.10	0.00	0.00	4.60	2.1	329.7		2.01	0.00	0.00	1.52		10.35	18.92	83.84	86.68	11-Aug-19 22:00:00		12.36	18.92	83.84	88.20
11-Aug-19 23:00:00	12-Aug-19 00:00:00		5.03	0.00	0.00	4.86	2.1	329.7		1.66	0.00	0.00	1.60		10.35	18.92	83.84	86.68	11-Aug-19 23:00:00		12.01	18.92	83.84	88.28
12-Aug-19 00:00:00	12-Aug-19 01:00:00		1.84	0.00	0.00	5.13	2.1	329.7		0.61	0.00	0.00	1.69		10.35	18.92	83.84	86.68	12-Aug-19 00:00:00		10.96	18.92	83.84	88.37
12-Aug-19 01:00:00	12-Aug-19 02:00:00		0.74	0.00	0.00	5.20	2.1	329.7		0.24	0.00	0.00	1.71		10.35	18.92	83.84	86.68	12-Aug-19 01:00:00		10.59	18.92	83.84	88.39
12-Aug-19 02:00:00	12-Aug-19 03:00:00		8.36	0.00	0.00	5.25	2.1	329.7		2.76	0.00	0.00	1.73		10.35	18.92	83.84	86.68	12-Aug-19 02:00:00		13.11	18.92	83.84	88.41
12-Aug-19 03:00:00	12-Aug-19 04:00:00		7.25	0.00	0.00	5.29	2.1	329.7		2.39	0.00	0.00	1.75		10.35	18.92	83.84	86.68	12-Aug-19 03:00:00		12.74	18.92	83.84	88.43
12-Aug-19 04:00:00	12-Aug-19 05:00:00		2.33	0.00	0.00	7.02	2.1	329.7		0.77	0.00	0.00	2.31		10.35	18.92	83.84	86.68	12-Aug-19 04:00:00		11.12	18.92	83.84	88.99
12-Aug-19 05:00:00	12-Aug-19 06:00:00		0.63	0.00	0.00	5.25	2.1	329.7		0.21	0.00	0.00	1.73		10.35	18.92	83.84	86.68	12-Aug-19 05:00:00		10.56	18.92	83.84	88.41
12-Aug-19 06:00:00	12-Aug-19 07:00:00		0.00	0.00	0.00	5.25	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	12-Aug-19 06:00:00		10.35	18.92	83.84	88.41
12-Aug-19 07:00:00	12-Aug-19 08:00:00		0.00	0.00	0.00	5.25	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	12-Aug-19 07:00:00		10.35	18.92	83.84	88.41
12-Aug-19 08:00:00	12-Aug-19 09:00:00		0.00	0.00	0.00	5.24	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	12-Aug-19 08:00:00		10.35	18.92	83.84	88.41
12-Aug-19 09:00:00	12-Aug-19 10:00:00		0.00	0.00	0.00	5.05	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	12-Aug-19 09:00:00		10.35	18.92	83.84	88.34
12-Aug-19 10:00:00	12-Aug-19 11:00:00		0.00	0.00	0.00	4.76	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	12-Aug-19 10:00:00		10.35	18.92	83.84	88.25
12-Aug-19 11:00:00	12-Aug-19 12:00:00		0.00	0.00	0.00	4.48	2.1	329.7		0.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	12-Aug-19 11:00:00		10.35	18.92	83.84	88.16
12-Aug-19 12:00:00	12-Aug-19 13:00:00		2.73	0.00	0.00	4.19	2.1	329.7		0.90	0.00	0.00	1.38		10.35	18.92	83.84	86.68	12-Aug-19 12:00:00		11.25	18.92	83.84	88.06
12-Aug-19 13:00:00	12-Aug-19 14:00:00		8.48	0.00	0.00	4.03	2.1	329.7		2.80	0.00	0.00	1.33		10.35	18.92	83.84	86.68	12-Aug-19 13:00:00		13.15	18.92	83.84	88.01
12-Aug-19 14:00:00	12-Aug-19 15:00:00		10.36	0.00	0.00	4.08	2.1	329.7		3.42	0.00	0.00	1.34		10.35	18.92	83.84	86.68	12-Aug-19 14:00:00		13.77	18.92	83.84	88.02
12-Aug-19 15:00:00	12-Aug-19 16:00:00		9.67	0.00	0.00	4.13	2.1	329.7		3.19	0.00	0.00	1.36		10.35	18.92	83.84	86.68	12-Aug-19 15:00:00		13.54	18.92	83.84	88.04
12-Aug-19 16:00:00	12-Aug-19 17:00:00		14.33	0.00	0.00	4.16	2.1	329.7		4.72	0.00	0.00	1.37		10.35	18.92	83.84	86.68	12-Aug-19 16:00:00		15.07	18.92	83.84	88.05
12-Aug-19 17:00:00	12-Aug-19 18:00:00		16.76	0.00	0.00	4.09	2.1	329.7		5.53	0.00	0.00	1.35		10.35	18.92	83.84	86.68	12-Aug-19 17:00:00		15.88	18.92	83.84	88.03
12-Aug-19 18:00:00	12-Aug-19 19:00:00		17.45	0.00	0.00	4.16	2.1	329.7		5.75	0.00	0.00	1.37		10.35	18.92	83.84	86.68	12-Aug-19 18:00:00		16.10	18.92	83.84	88.05
12-Aug-19 19:00:00	12-Aug-19 20:00:00		17.56	0.00	0.00	4.23	2.1	329.7		5.79	0.00	0.00	1.39		10.35	18.92	83.84	86.68	12-Aug-19 19:00:00		16.14	18.92	83.84	88.07
12-Aug-19 20:00:00	12-Aug-19 21:00:00		18.58	0.00	0.00	4.31	2.1	329.7		6.13	0.00	0.00	1.42		10.35	18.92	83.84	86.68	12-Aug-19 20:00:00		16.48	18.92	83.84	88.10
12-Aug-19 21:00:00	12-Aug-19 22:00:00		20.51	0.00	0.00	4.42	2.1	329.7		6.76	0.00	0.00	1.46		10.35	18.92	83.84	86.68	12-Aug-19 21:00:00		17.11	18.92	83.84	88.14
12-Aug-19 22:00:00	12-Aug-19 23:00:00		15.86	0.00	0.00	4.48	2.1	329.7		5.23	0.00	0.00	1.48		10.35	18.92	83.84	86.68	12-Aug-19 22:00:00		15.58	18.92	83.84	88.16
12-Aug-19 23:00:00	13-Aug-19 00:00:00		5.05	0.00	0.00	4.55	2.1	329.7		1.66	0.00	0.00	1.50		10.35	18.92	83.84	86.68	12-Aug-19 23:00:00		12.01	18.92	83.84	88.18
13-Aug-19 00:00:00	13-Aug-19 01:00:00		0.34	0.00	0.00	4.63	2.1	329.7		0.11	0.00	0.00	1.53		10.35	18.92	83.84	86.68	13-Aug-19 00:00:00		10.46	18.92	83.84	88.21
13-Aug-19 01:00:00	13-Aug-19 02:00:00		0.00	0.00	0.00	4.75	2.1	329.7		0.00	0.00	0.00	1.57		10.35	18.92	83.84	86.68	13-Aug-19 01:00:00		10.35	18.92	83.84	88.25
13-Aug-19 02:00:00	13-Aug-19 03:00:00		0.00	0.00	0.00	4.72	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	13-Aug-19 02:00:00		10.35	18.92	83.84	88.24
13-Aug-19 03:00:00	13-Aug-19 04:00:00		0.00	0.00	0.00	4.68	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	13-Aug-19 03:00:00		10.35	18.92	83.84	88.22
13-Aug-19 04:00:00	13-Aug-19 05:00:00		0.00	0.00	0.00	4.65	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	13-Aug-19 04:00:00		10.35	18.92	83.84	88.21
13-Aug-19 05:00:00	13-Aug-19 06:00:00		0.00	0.00	0.00	4.66	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	13-Aug-19 05:00:00		10.35	18.92	83.84	88.22
13-Aug-19 06:00:00	13-Aug-19 07:00:00		0.00	0.00	0.00	4.70	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	13-Aug-19 06:00:00		10.35	18.92	83.84	88.23
13-Aug-19 07:00:00	13-Aug-19 08:00:00		0.00	0.00	0.00	9.04	2.1	329.7		0.00	0.00	0.00	2.98		10.35	18.92	83.84	86.68	13-Aug-19 07:00:00		10.35	18.92	83.84	89.66
13-Aug-19 08:00:00	13-Aug-19 09:00:00		0.00	0.00	0.00	4.85	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	13-Aug-19 08:00:00		10.35	18.92	83.84	88.28
13-Aug-19 09:00:00	13-Aug-19 10:00:00		0.00	0.00	0.00	4.79

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
15-Aug-19 11:00:00	15-Aug-19 12:00:00		28.51	0.00	0.00	4.45	2.1	329.7		9.40	0.00	0.00	1.47		10.35	18.92	83.84	86.68	15-Aug-19 11:00:00		**19.75**	**18.92**	**83.84**	**88.15**
15-Aug-19 12:00:00	15-Aug-19 13:00:00		13.88	0.00	0.00	4.22	2.1	329.7		4.58	0.00	0.00	1.39		10.35	18.92	83.84	86.68	15-Aug-19 12:00:00		**14.93**	**18.92**	**83.84**	**88.07**
15-Aug-19 13:00:00	15-Aug-19 14:00:00		7.95	0.00	0.00	3.99	2.1	329.7		2.62	0.00	0.00	1.31		10.35	18.92	83.84	86.68	15-Aug-19 13:00:00		**12.97**	**18.92**	**83.84**	**87.99**
15-Aug-19 14:00:00	15-Aug-19 15:00:00		15.07	0.00	0.00	3.76	2.1	329.7		4.97	0.00	0.00	1.24		10.35	18.92	83.84	86.68	15-Aug-19 14:00:00		**15.32**	**18.92**	**83.84**	**87.92**
15-Aug-19 15:00:00	15-Aug-19 16:00:00		3.68	0.00	0.00	3.63	2.1	329.7		1.21	0.00	0.00	1.20		10.35	18.92	83.84	86.68	15-Aug-19 15:00:00		**11.56**	**18.92**	**83.84**	**87.88**
15-Aug-19 16:00:00	15-Aug-19 17:00:00		10.05	0.00	0.00	65.63	2.1	329.7		3.31	0.00	0.00	21.64		10.35	18.92	83.84	86.68	15-Aug-19 16:00:00		**13.66**	**18.92**	**83.84**	**108.32**
15-Aug-19 17:00:00	15-Aug-19 18:00:00		21.20	0.00	0.00	3.83	2.1	329.7		6.99	0.00	0.00	1.26		10.35	18.92	83.84	86.68	15-Aug-19 17:00:00		**17.34**	**18.92**	**83.84**	**87.94**
15-Aug-19 18:00:00	15-Aug-19 19:00:00		27.03	0.00	0.00	3.88	2.1	329.7		8.91	0.00	0.00	1.28		10.35	18.92	83.84	86.68	15-Aug-19 18:00:00		**19.26**	**18.92**	**83.84**	**87.96**
15-Aug-19 19:00:00	15-Aug-19 20:00:00		4.10	0.00	0.00	3.93	2.1	329.7		1.35	0.00	0.00	1.30		10.35	18.92	83.84	86.68	15-Aug-19 19:00:00		**11.70**	**18.92**	**83.84**	**87.98**
15-Aug-19 20:00:00	15-Aug-19 21:00:00		11.02	0.00	0.00	4.08	2.1	329.7		3.63	0.00	0.00	1.35		10.35	18.92	83.84	86.68	15-Aug-19 20:00:00		**13.98**	**18.92**	**83.84**	**88.03**
15-Aug-19 21:00:00	15-Aug-19 22:00:00		24.56	0.00	0.00	4.35	2.1	329.7		8.10	0.00	0.00	1.43		10.35	18.92	83.84	86.68	15-Aug-19 21:00:00		**18.45**	**18.92**	**83.84**	**88.11**
15-Aug-19 22:00:00	15-Aug-19 23:00:00		0.05	0.00	0.00	4.61	2.1	329.7		0.02	0.00	0.00	1.52		10.35	18.92	83.84	86.68	15-Aug-19 22:00:00		**10.37**	**18.92**	**83.84**	**88.20**
15-Aug-19 23:00:00	16-Aug-19 00:00:00		20.39	0.00	0.00	4.88	2.1	329.7		6.72	0.00	0.00	1.61		10.35	18.92	83.84	86.68	15-Aug-19 23:00:00		**17.07**	**18.92**	**83.84**	**88.29**
16-Aug-19 00:00:00	16-Aug-19 01:00:00		12.47	0.00	0.00	4.91	2.1	329.7		4.11	0.00	0.00	1.62		10.35	18.92	83.84	86.68	16-Aug-19 00:00:00		**14.46**	**18.92**	**83.84**	**88.30**
16-Aug-19 01:00:00	16-Aug-19 02:00:00		11.48	0.00	0.00	4.93	2.1	329.7		3.78	0.00	0.00	1.62		10.35	18.92	83.84	86.68	16-Aug-19 01:00:00		**14.13**	**18.92**	**83.84**	**88.30**
16-Aug-19 02:00:00	16-Aug-19 03:00:00		11.58	0.00	0.00	4.95	2.1	329.7		3.82	0.00	0.00	1.63		10.35	18.92	83.84	86.68	16-Aug-19 02:00:00		**14.17**	**18.92**	**83.84**	**88.31**
16-Aug-19 03:00:00	16-Aug-19 04:00:00		10.12	0.00	0.00	4.98	2.1	329.7		3.34	0.00	0.00	1.64		10.35	18.92	83.84	86.68	16-Aug-19 03:00:00		**13.69**	**18.92**	**83.84**	**88.32**
16-Aug-19 04:00:00	16-Aug-19 05:00:00		6.03	0.00	0.00	5.03	2.1	329.7		1.99	0.00	0.00	1.66		10.35	18.92	83.84	86.68	16-Aug-19 04:00:00		**12.34**	**18.92**	**83.84**	**88.34**
16-Aug-19 05:00:00	16-Aug-19 06:00:00		9.76	0.00	0.00	5.02	2.1	329.7		3.22	0.00	0.00	1.65		10.35	18.92	83.84	86.68	16-Aug-19 05:00:00		**13.57**	**18.92**	**83.84**	**88.33**
16-Aug-19 06:00:00	16-Aug-19 07:00:00		1.62	0.00	0.00	5.01	2.1	329.7		0.53	0.00	0.00	1.65		10.35	18.92	83.84	86.68	16-Aug-19 06:00:00		**10.88**	**18.92**	**83.84**	**88.33**
16-Aug-19 07:00:00	16-Aug-19 08:00:00		7.46	0.00	0.00	4.99	2.1	329.7		2.46	0.00	0.00	1.65		10.35	18.92	83.84	86.68	16-Aug-19 07:00:00		**12.81**	**18.92**	**83.84**	**88.33**
16-Aug-19 08:00:00	16-Aug-19 09:00:00		9.60	0.00	0.00	4.87	2.1	329.7		3.16	0.00	0.00	1.61		10.35	18.92	83.84	86.68	16-Aug-19 08:00:00		**13.51**	**18.92**	**83.84**	**88.29**
16-Aug-19 09:00:00	16-Aug-19 10:00:00		9.10	0.00	0.00	4.65	2.1	329.7		3.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	16-Aug-19 09:00:00		**13.35**	**18.92**	**83.84**	**88.21**
16-Aug-19 10:00:00	16-Aug-19 11:00:00		7.59	0.00	0.00	4.44	2.1	329.7		2.50	0.00	0.00	1.46		10.35	18.92	83.84	86.68	16-Aug-19 10:00:00		**12.85**	**18.92**	**83.84**	**88.14**
16-Aug-19 11:00:00	16-Aug-19 12:00:00		7.86	0.00	0.00	4.22	2.1	329.7		2.59	0.00	0.00	1.39		10.35	18.92	83.84	86.68	16-Aug-19 11:00:00		**12.94**	**18.92**	**83.84**	**88.07**
16-Aug-19 12:00:00	16-Aug-19 13:00:00		22.80	0.00	0.00	4.05	2.1	329.7		7.52	0.00	0.00	1.33		10.35	18.92	83.84	86.68	16-Aug-19 12:00:00		**17.87**	**18.92**	**83.84**	**88.01**
16-Aug-19 13:00:00	16-Aug-19 14:00:00		24.40	0.00	0.00	3.91	2.1	329.7		8.05	0.00	0.00	1.29		10.35	18.92	83.84	86.68	16-Aug-19 13:00:00		**18.40**	**18.92**	**83.84**	**87.97**
16-Aug-19 14:00:00	16-Aug-19 15:00:00		13.15	0.00	0.00	3.76	2.1	329.7		4.34	0.00	0.00	1.24		10.35	18.92	83.84	86.68	16-Aug-19 14:00:00		**14.69**	**18.92**	**83.84**	**87.92**
16-Aug-19 15:00:00	16-Aug-19 16:00:00		10.35	0.00	0.00	3.62	2.1	329.7		3.41	0.00	0.00	1.19		10.35	18.92	83.84	86.68	16-Aug-19 15:00:00		**13.76**	**18.92**	**83.84**	**87.87**
16-Aug-19 16:00:00	16-Aug-19 17:00:00		16.65	0.00	0.00	3.60	2.1	329.7		5.49	0.00	0.00	1.19		10.35	18.92	83.84	86.68	16-Aug-19 16:00:00		**15.84**	**18.92**	**83.84**	**87.87**
16-Aug-19 17:00:00	16-Aug-19 18:00:00		5.73	0.00	0.00	3.75	2.1	329.7		1.89	0.00	0.00	1.24		10.35	18.92	83.84	86.68	16-Aug-19 17:00:00		**12.24**	**18.92**	**83.84**	**87.92**
16-Aug-19 18:00:00	16-Aug-19 19:00:00		9.63	0.00	0.00	3.90	2.1	329.7		3.17	0.00	0.00	1.29		10.35	18.92	83.84	86.68	16-Aug-19 18:00:00		**13.52**	**18.92**	**83.84**	**87.97**
16-Aug-19 19:00:00	16-Aug-19 20:00:00		2.51	0.00	0.00	4.05	2.1	329.7		0.83	0.00	0.00	1.34		10.35	18.92	83.84	86.68	16-Aug-19 19:00:00		**11.18**	**18.92**	**83.84**	**88.02**
16-Aug-19 20:00:00	16-Aug-19 21:00:00		15.91	0.00	0.00	4.18	2.1	329.7		5.24	0.00	0.00	1.38		10.35	18.92	83.84	86.68	16-Aug-19 20:00:00		**15.59**	**18.92**	**83.84**	**88.06**
16-Aug-19 21:00:00	16-Aug-19 22:00:00		24.97	0.00	0.00	4.43	2.1	329.7		8.23	0.00	0.00	1.46		10.35	18.92	83.84	86.68	16-Aug-19 21:00:00		**18.58**	**18.92**	**83.84**	**88.14**
16-Aug-19 22:00:00	16-Aug-19 23:00:00		17.59	0.00	0.00	4.69	2.1	329.7		5.80	0.00	0.00	1.55		10.35	18.92	83.84	86.68	16-Aug-19 22:00:00		**16.15**	**18.92**	**83.84**	**88.23**
16-Aug-19 23:00:00	17-Aug-19 00:00:00		27.78	0.00	0.00	4.95	2.1	329.7		9.16	0.00	0.00	1.63		10.35	18.92	83.84	86.68	16-Aug-19 23:00:00		**19.51**	**18.92**	**83.84**	**88.31**
17-Aug-19 00:00:00	17-Aug-19 01:00:00		23.85	0.00	0.00	5.21	2.1	329.7		7.86	0.00	0.00	1.72		10.35	18.92	83.84	86.68	17-Aug-19 00:00:00		**18.21**	**18.92**	**83.84**	**88.40**
17-Aug-19 01:00:00	17-Aug-19 02:00:00		20.98	0.00	0.00	5.22	2.1	329.7		6.92	0.00	0.00	1.72		10.35	18.92	83.84	86.68	17-Aug-19 01:00:00		**17.27**	**18.92**	**83.84**	**88.40**
17-Aug-19 02:00:00	17-Aug-19 03:00:00		1.84	0.00	0.00	5.21	2.1	329.7		0.61	0.00	0.00	1.72		10.35	18.92	83.84	86.68	17-Aug-19 02:00:00		**10.96**	**18.92**	**83.84**	**88.40**
17-Aug-19 03:00:00	17-Aug-19 04:00:00		16.69	0.00	0.00	5.20	2.1	329.7		5.50	0.00	0.00	1.71		10.35	18.92	83.84	86.68	17-Aug-19 03:00:00		**15.85**	**18.92**	**83.84**	**88.39**
17-Aug-19 04:00:00	17-Aug-19 05:00:00		15.24	0.00	0.00	5.13	2.1	329.7		5.02	0.00	0.00	1.69		10.35	18.92	83.84	86.68	17-Aug-19 04:00:00		**15.37**	**18.92**	**83.84**	**88.37**
17-Aug-19 05:00:00	17-Aug-19 06:00:00		16.35	0.00	0.00	5.14	2.1	329.7		5.39	0.00	0.00	1.70		10.35	18.92	83.84	86.68	17-Aug-19 05:00:00		**15.74**	**18.92**	**83.84**	**88.38**
17-Aug-19 06:00:00	17-Aug-19 07:00:00		18.07	0.00	0.00	5.17	2.1	329.7		5.96	0.00	0.00	1.70		10.35	18.92	83.84	86.68	17-Aug-19 06:00:00		**16.31**	**18.92**	**83.84**	**88.38**
17-Aug-19 07:00:00	17-Aug-19 08:00:00		25.39	0.00	0.00	5.19	2.1	329.7		8.37	0.00	0.00	1.71		10.35	18.92	83.84	86.68	17-Aug-19 07:00:00		**18.72**	**18.92**	**83.84**	**88.39**
17-Aug-19 08:00:00	17-Aug-19 09:00:00		28.76	0.00	0.00	5.08	2.1	329.7		9.48	0.00	0.00	1.68		10.35	18.92	83.84	86.68	17-Aug-19 08:00:00		**19.83**	**18.92**	**83.84**	**88.36**
17-Aug-19 09:00:00	17-Aug-19 10:00:00		26.02	0.00	0.00	4.83	2.1	329.7		8.58	0.00	0.00	1.59		10.35	18.92	83.84	86.68	17-Aug-19 09:00:00		**18.93**	**18.92**	**83.84**	**88.27**
17-Aug-19 10:00:00	17-Aug-19 11:00:00		12.41	0.00	0.00	4.59	2.1	329.7		4.09	0.00	0.00	1.51		10.35	18.92	83.84	86.68	17-Aug-19 10:00:00		**14.44**	**18.92**	**83.84**	**88.19**
17-Aug-19 11:00:00	17-Aug-19 12:00:00		2.14	0.00	0.00	4.34	2.1	329.7		0.71	0.00	0.00	1.43		10.35	18.92	83.84	86.68	17-Aug-19 11:00:00		**11.06**	**18.92**	**83.84**	**88.11**
17-Aug-19 12:00:00	17-Aug-19 13:00:00		5.44	0.00	0.00	4.07	2.1	329.7		1.79	0.00	0.00	1.34		10.35	18.92	83.84	86.68	17-Aug-19 12:00:00		**12.14**	**18.92**	**83.84**	**88.02**
17-Aug-19 13:00:00	17-Aug-19 14:00:00		16.39	0.00	0.00	3.92	2.1	329.7		5.41	0.00	0.00	1.29		10.35	18.92	83.84	86.68	17-Aug-19 13:00:00		**15.76**	**18.92**	**83.84**	**87.97**
17-Aug-19 14:00:00	17-Aug-19 15:00:00		38.94	0.00	0.00	3.79	2.1	329.7		12.84	0.00	0.00	1.25		10.35	18.92	83.84	86.68	17-Aug-19 14:00:00		**23.19**	**18.92**	**83.84**	**87.93**
17-Aug-19 15:00:00	17-Aug-19 16:00:00		28.89	0.00	0.00	3.66	2.1	329.7		9.52	0.00	0.00	1.21		10.35	18.92	83.84	86.68	17-Aug-19 15:00:00		**19.87**	**18.92**	**83.84**	**87.89**
17-Aug-19 16:00:00	17-Aug-19 17:00:00		12.03	0.00	0.00	3.69	2.1	329.7		3.97	0.00	0.00	1.22		10.35	18.92	83.84	86.68	17-Aug-19 16:00:00		**14.32**	**18.92**	**83.84**	**87.90**
17-Aug-19 17:00:00	17-Aug-19 18:00:00		3.81	0.00	0.00	3.91	2.1	329.7		1.26	0.00	0.00	1.29		10.35	18.92	83.84	86.68	17-Aug-19 17:00:00		**11.61**	**18.92**	**83.84**	**87.97**
17-Aug-19 18:00:00	17-Aug-19 19:00:00		3.26	0.00	0.00	4.13	2.1	329.7		1.08	0.00	0.00	1.36		10.35	18.92	83.84	86.68	17-Aug-19 18:00:00		**11.43**	**18.92**	**83.84**	**88.04**
17-Aug-19 19:00:00	17-Aug-19 20:00:00		2.86	0.00	0.00	4.35	2.1	329.7		0.94	0.00	0.00	1.43		10.35	18.92	83.84	86.68	17-Aug-19 19:00:00		**11.29**	**18.92**	**83.84**	**88.11**
17-Aug-19 20:00:00	17-Aug-19 21:00:00		6.23	0.00	0.00	4.54	2.1	329.7		2.05	0.00	0.00	1.50		10.35	18.92	83.84	86.68	17-Aug-19 20:00:00		**12.40**	**18.92**	**83.84**	**88.18**
17-Aug-19 21:00:00	17-Aug-19 22:00:00		19.42	0.00	0.00	4.58	2.1	329.7		6.40	0.00	0.00	1.51		10.35	18.92	83.84	86.68	17-Aug-19 21:00:00		**16.75**	**18.92**	**83.84**	**88.19**
17-Aug-19 22:00:00	17-Aug-19 23:00:00		21.08	0.00	0.00	4.60	2.1	329.7		6.95	0.00	0.00	1.52		10.35	18.92	83.84	86.68	17-Aug-19 22:00:00		**17.30**	**18.92**	**83.84**	**88.20**
17-Aug-19 23:00:00	18-Aug-19 00:00:00		13.25	0.00	0.00	4.62	2.1	329.7		4.37	0.00	0.00	1.52		10.35	18.92	83.84	86.68	17-Aug-19 23:00:00		**14.72**	**18.92**	**83.84**	**88.20**
18-Aug-19 00:00:00	18-Aug-19 01:00:00		14.68	0.00	0.00	4.68	2.1	329.7		4.84	0.00	0.00	1.54		10.35	18.92	83.84	86.68	18-Aug-19 00:00:00		**15.19**	**18.92**	**83.84**	**88.22**
18-Aug-19 01:00:00	18-Aug-19 02:00:00		19.53	0.00	0.00	4.76	2.1	329.7		6.44	0.00	0.00	1.57		10.35	18.92	83.84	86.68	18-Aug-19 01:00:00		**16.79**	**18.92**	**83.84**	**88.25**
18-Aug-19 02:00:00	18-Aug-19 03:00:00		20.25	0.00	0.00	4.83	2.1	329.7		6.68	0.00	0.00	1.59		10.35	18.92	83.84	86.68	18-Aug-19 02:00:00		**17.03**	**18.92**	**83.84**	**88.27**
18-Aug-19 03:00:00	18-Aug-19 04:00:00		11.64	0.00	0.00	4.91	2.1	329.7		3.84	0.00	0.00	1.62		10.35	18.92	83.84	86.68	18-Aug-19 03:00:00		**14.19**	**18.92**	**83.84**	**88.30**
18-Aug-19 04:00:00	18-Aug-19 05:00:00		11.64	0.00	0.00	4.98	2.1	329.7		3.84	0.00	0.00	1.64		10.35	18.92	83.84	86.68	18-Aug-19 04:00:00		**14.19**	**18.92**	**83.84**	**88.32**
18-Aug-19 05:00:00	18-Aug-19 06:00:00		10.78	0.00	0.00	5.03	2.1	329.7		3.55	0.00	0.00	1.66		10.35	18.92	83.84	86.68	18-Aug-19 05:00:00		**13.90**	**18.92**	**83.84**	**88.34**
18-Aug-19 06:00:00	18-Aug-19 07:00:00		53.59	0.00	0.00	5.07	2.1	329.7		17.67	0.00	0.00	1.67		10.35	18.92	83.84	86.68	18-Aug-19 06:00:00		**28.02**	**18.92**	**83.84**	**88.35**
18-Aug-19 07:00:00	18-Aug-19 08:00:00		63.13	0.00	0.00	5.12	2.1	329.7		20.81	0.00	0.00	1.69		10.35	18.92	83.84	86.68	18-Aug-19 07:00:00		**31.16**	**18.92**	**83.84**	**88.37**
18-Aug-19 08:00:00	18-Aug-19 09:00:00		17.36	0.00	0.00	5.00	2.1	329.7		5.72	0.00	0.00	1.65		10.35	18.92	83.84	86.68	18-Aug-19 08:00:00		**16.07**	**18.92**	**83.84**	**88.33**
18-Aug-19 09:00:00	18-Aug-19 10:00:00		19.09	0.00	0.00	4.66	2.1	329.7		6.29	0.00	0.00	1.54		10.35	18.92	83.84	86.68	18-Aug-19 09:00:00		**16.64**	**18.92**	**83.84**	**88.22**
18-Aug-19 10:00:00	18-Aug-19 11:00:00		19.24	0.00	0.00	4.33	2.1	329.7		6.34	0.00	0.00	1.43		10.35	18.92	83.84	86.68	18-Aug-19 10:00:00		**16.69**	**18.92**	**83.84**	**88.11**
18-Aug-19 11:00:00	18-Aug-19 12:00:00		10.44	0.00	0.00	4.00	2.1	329.7		3.44	0.00	0.00	1.32		10.35	18.92	83.84	86.68	18-Aug-19 11:00:00		**13.79**	**18.92**	**83.84**	**88.00**
18-Aug-19 12:00:00	18-Aug-19 13:00:00		6.66	0.00	0.00	3.81	2.1	329.7		2.20	0.00	0.00	1.26		10.35	18.92	83.84	86.68	18-Aug-19 12:00:00		**12.55**	**18.92**	**83.84**	**87.94**
18-Aug-19 13:00:00	18-Aug-19 14:00:00		14.44	0.00	0.00	3.94	2.1	329.7		4.76	0.00	0.00	1.30		10.35	18.92	83.84	86.68	18-Aug-19 13:00:00		**15.11**	**18.92**	**83.84**	**87.98**
18-Aug-19 14:00:00	18-Aug-19 15:00:00		18.75	0.00	0.00	4.09	2.1	329.7		6.18	0.00	0.00	1.35		10.35	18.92	83.84	86.68	18-Aug-19 14:00:00		**16.53**	**18.92**	**83.84**	**88.03**
18-Aug-19 15:00:00	18-Aug-19 16:00:00		38.36	0.00	0.00	4.23	2.1	329.7		12.65	0.00	0.00	1.39		10.35	18.92	83.84	86.68	18-Aug-19 15:00:00		**23.00**	**18.92**	**83.84**	**88.07**
18-Aug-19 16:00:00	18-Aug-19 17:00:00		19.21	0.00	0.00	4.38	2.1	329.7		6.33	0.00	0.00	1.45		10.35	18.92	83.84	86.68	18-Aug-19 16:00:00		**16.68**	**18.92**	**83.84**	**88.13**
18-Aug-19 17:00:00	18-Aug-19 18:00:00		5.37	0.00	0.00	4.44	2.1	329.7		1.77	0.00	0.00	1.46		10.35	18.92	83.84	86.68	18-Aug-19 17:00:00		**12.12**	**18.92**	**83.84**	**88.14**
18-Aug-19 18:00:00	18-Aug-19 19:00:00		0.11	0.00	0.00	4.48	2.1	329.7		0.04	0.00	0.00	1.48		10.35	18.92	83.84	86.68	18-Aug-19 18:00:00		**10.39**	**18.92**	**83.84**	**88.16**
18-Aug-19 19:00:00	18-Aug-19 20:00:00		0.29	0.00	0.00	4.52	2.1	329.7		0.10	0.00	0.00	1.49		10.35	18.92	83.84	86.68	18-Aug-19 19:00:00		**10.45**	**18.92**	**83.84**	**88.17**
18-Aug-19 20:00:00	18-Aug-19 21:00:00		1.30	0.00	0.00	4.54	2.1	329.7		0.43	0.00	0.00	1.50		10.35	18.92	83.84	86.68	18-Aug-19 20:00:00		**10.78**	**18.92**	**83.84**	**88.18**
18-Aug-19 21:00:00	18-Aug-19 22:00:00		1.49	0.00	0.00	4.65	2.1	329.7		0.49	0.00	0.00	1.53		10.35	18.92	83.84	86.68	18-Aug-19 21:00:00		**10.84**	**18.92**	**83.84**	**88.21**
18-Aug-19 22:00:00	18-Aug-19 23:00:00		7.43	0.00	0.00	4.78	2.1	329.7		2.45	0.00	0.00	1.57		10.35	18.92	83.84	86.68	18-Aug-19 22:00:00		**12.80**	**18.92**	**83.84**	**88.25**
18-Aug-19 23:00:00	19-Aug-19 00:00:00		8.02	0.00	0.00	4.90	2.1	329.7		2.65	0.00	0.00	1.62		10.35	18.92	83.84	86.68	18-Aug-19 23:00:00		**13.00**	**18.92**	**83.84**	**88.30**
19-Aug-19 00:00:00	19-Aug-19 01:00:00		27.18	0.00	0.00	4.93	2.1	329.7		8.96	0.00	0.00	1.63		10.35	18.92	83.84	86.68	19-Aug-19 00:00:00		**19.31**	**18.92**	**83.84**	**88.31**
19-Aug-19 01:00:00	19-Aug-19 02:00:00		27.68	0.00	0.00	4.95	2.1	329.7		9.13	0.00	0.00	1.63		10.35	18.92	83.84	86.68	19-Aug-19 01:00:00		**19.48**	**18.92**	**83.84**	**88.31**
19-Aug-19 02:00:00	19-Aug-19 03:00:00		15.99	0.00	0.00	4.98	2.1	329.7		5.27	0.00	0.00	1.64		10.35	18.92	83.84	86.68	19-Aug-19 02:00:00		**15.62**	**18.92**	**83.84**	**88.32**
19-Aug-19 03:00:00	19-Aug-19 04:00:00		11.59	0.00	0.00	5.01	2.1	329.7		3.82	0.00	0.00	1.65		10.35	18.92	83.84	86.68	19-Aug-19 03:00:00		**14.17**	**18.92**	**83.84**	**88.33**
19-Aug-19 04:00:00	19-Aug-19 05:00:00		2.00	0.00	0.00	4.87	2.1	329.7		0.66	0.00	0.00	1.61		10.35	18.92	83.84	86.68	19-Aug-19 04:00:00		**11.01**	**18.92**	**83.84**	**88.29**
19-Aug-19 05:00:00	19-Aug-19 06:00:00		26.05	0.00	0.00	4.83	2.1	329.7		8.59	0.00	0.00	1.59		10.35	18.92	83.84	86.68	19-Aug-19 05:00:00		**18.94**	**18.92**	**83.84**	**88.27**
19-Aug-19 06:00:00	19-Aug-19 07:00:00		13.29	0.00	0.00	4.84	2.1	329.7		4.38	0.00	0.00	1.60		10.35	18.92	83.84	86.68	19-Aug-19 06:00:00		**14.73**	**18.92**	**83.84**	**88.28**
19-Aug-19 07:00:00	19-Aug-19 08:00:00		20.38	0.00	0.00	4.85	2.1	329.7		6.72	0.00	0.00	1.60		10.35	18.92	83.84	86.68	19-Aug-19 07:00:00		**17.07**	**18.92**	**83.84**	**88.28**
19-Aug-19 08:00:00	19-Aug-19 09:00:00		21.71	0.00	0.00	4.82

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
21-Aug-19 10:00:00	21-Aug-19 11:00:00		29.03	0.00	0.00	4.71	2.1	329.7		9.57	0.00	0.00	1.55		10.35	18.92	83.84	86.68	21-Aug-19 10:00:00		19.92	18.92	83.84	88.23
21-Aug-19 11:00:00	21-Aug-19 12:00:00		15.63	0.00	0.00	4.65	2.1	329.7		5.15	0.00	0.00	1.53		10.35	18.92	83.84	86.68	21-Aug-19 11:00:00		15.50	18.92	83.84	88.21
21-Aug-19 12:00:00	21-Aug-19 13:00:00		18.58	0.00	0.00	4.50	2.1	329.7		6.13	0.00	0.00	1.48		10.35	18.92	83.84	86.68	21-Aug-19 12:00:00		16.48	18.92	83.84	88.16
21-Aug-19 13:00:00	21-Aug-19 14:00:00		17.48	0.00	0.00	4.33	2.1	329.7		5.76	0.00	0.00	1.43		10.35	18.92	83.84	86.68	21-Aug-19 13:00:00		16.11	18.92	83.84	88.11
21-Aug-19 14:00:00	21-Aug-19 15:00:00		22.78	0.00	0.00	4.15	2.1	329.7		7.51	0.00	0.00	1.37		10.35	18.92	83.84	86.68	21-Aug-19 14:00:00		17.86	18.92	83.84	88.05
21-Aug-19 15:00:00	21-Aug-19 16:00:00		22.08	0.00	0.00	3.98	2.1	329.7		7.28	0.00	0.00	1.31		10.35	18.92	83.84	86.68	21-Aug-19 15:00:00		17.63	18.92	83.84	87.99
21-Aug-19 16:00:00	21-Aug-19 17:00:00		32.70	0.00	0.00	3.87	2.1	329.7		10.78	0.00	0.00	1.28		10.35	18.92	83.84	86.68	21-Aug-19 16:00:00		21.13	18.92	83.84	87.96
21-Aug-19 17:00:00	21-Aug-19 18:00:00		14.08	0.00	0.00	3.76	2.1	329.7		4.64	0.00	0.00	1.24		10.35	18.92	83.84	86.68	21-Aug-19 17:00:00		14.99	18.92	83.84	87.92
21-Aug-19 18:00:00	21-Aug-19 19:00:00		15.03	0.00	0.00	3.66	2.1	329.7		4.95	0.00	0.00	1.21		10.35	18.92	83.84	86.68	21-Aug-19 18:00:00		15.30	18.92	83.84	87.89
21-Aug-19 19:00:00	21-Aug-19 20:00:00		13.84	0.00	0.00	3.61	2.1	329.7		4.56	0.00	0.00	1.19		10.35	18.92	83.84	86.68	21-Aug-19 19:00:00		14.91	18.92	83.84	87.87
21-Aug-19 20:00:00	21-Aug-19 21:00:00		11.83	0.00	0.00	3.78	2.1	329.7		3.90	0.00	0.00	1.25		10.35	18.92	83.84	86.68	21-Aug-19 20:00:00		14.25	18.92	83.84	87.93
21-Aug-19 21:00:00	21-Aug-19 22:00:00		18.01	0.00	0.00	3.98	2.1	329.7		5.94	0.00	0.00	1.31		10.35	18.92	83.84	86.68	21-Aug-19 21:00:00		16.29	18.92	83.84	87.99
21-Aug-19 22:00:00	21-Aug-19 23:00:00		43.43	0.00	0.00	4.17	2.1	329.7		14.32	0.00	0.00	1.38		10.35	18.92	83.84	86.68	21-Aug-19 22:00:00		24.67	18.92	83.84	88.06
21-Aug-19 23:00:00	22-Aug-19 00:00:00		24.28	0.00	0.00	4.46	2.1	329.7		8.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	21-Aug-19 23:00:00		18.35	18.92	83.84	88.15
22-Aug-19 00:00:00	22-Aug-19 01:00:00		10.68	0.00	0.00	4.59	2.1	329.7		3.52	0.00	0.00	1.51		10.35	18.92	83.84	86.68	22-Aug-19 00:00:00		13.87	18.92	83.84	88.19
22-Aug-19 01:00:00	22-Aug-19 02:00:00		1.53	0.00	0.00	4.61	2.1	329.7		0.50	0.00	0.00	1.52		10.35	18.92	83.84	86.68	22-Aug-19 01:00:00		10.85	18.92	83.84	88.20
22-Aug-19 02:00:00	22-Aug-19 03:00:00		0.30	0.00	0.00	4.63	2.1	329.7		0.10	0.00	0.00	1.52		10.35	18.92	83.84	86.68	22-Aug-19 02:00:00		10.45	18.92	83.84	88.20
22-Aug-19 03:00:00	22-Aug-19 04:00:00		3.15	0.00	0.00	4.67	2.1	329.7		1.04	0.00	0.00	1.54		10.35	18.92	83.84	86.68	22-Aug-19 03:00:00		11.39	18.92	83.84	88.22
22-Aug-19 04:00:00	22-Aug-19 05:00:00		13.57	0.00	0.00	4.75	2.1	329.7		4.48	0.00	0.00	1.56		10.35	18.92	83.84	86.68	22-Aug-19 04:00:00		14.83	18.92	83.84	88.24
22-Aug-19 05:00:00	22-Aug-19 06:00:00		20.85	0.00	0.00	4.80	2.1	329.7		6.87	0.00	0.00	1.58		10.35	18.92	83.84	86.68	22-Aug-19 05:00:00		17.22	18.92	83.84	88.26
22-Aug-19 06:00:00	22-Aug-19 07:00:00		28.48	0.00	0.00	4.85	2.1	329.7		9.39	0.00	0.00	1.60		10.35	18.92	83.84	86.68	22-Aug-19 06:00:00		19.74	18.92	83.84	88.28
22-Aug-19 07:00:00	22-Aug-19 08:00:00		3.24	0.00	0.00	4.89	2.1	329.7		1.07	0.00	0.00	1.61		10.35	18.92	83.84	86.68	22-Aug-19 07:00:00		11.42	18.92	83.84	88.29
22-Aug-19 08:00:00	22-Aug-19 09:00:00		12.16	0.00	0.00	4.82	2.1	329.7		4.01	0.00	0.00	1.59		10.35	18.92	83.84	86.68	22-Aug-19 08:00:00		14.36	18.92	83.84	88.27
22-Aug-19 09:00:00	22-Aug-19 10:00:00		10.01	0.00	0.00	4.73	2.1	329.7		3.30	0.00	0.00	1.56		10.35	18.92	83.84	86.68	22-Aug-19 09:00:00		13.65	18.92	83.84	88.24
22-Aug-19 10:00:00	22-Aug-19 11:00:00		25.13	0.00	0.00	4.64	2.1	329.7		8.28	0.00	0.00	1.53		10.35	18.92	83.84	86.68	22-Aug-19 10:00:00		18.63	18.92	83.84	88.21
22-Aug-19 11:00:00	22-Aug-19 12:00:00		8.22	0.00	0.00	4.54	2.1	329.7		2.71	0.00	0.00	1.50		10.35	18.92	83.84	86.68	22-Aug-19 11:00:00		13.06	18.92	83.84	88.18
22-Aug-19 12:00:00	22-Aug-19 13:00:00		21.10	0.00	0.00	4.39	2.1	329.7		6.96	0.00	0.00	1.45		10.35	18.92	83.84	86.68	22-Aug-19 12:00:00		17.31	18.92	83.84	88.13
22-Aug-19 13:00:00	22-Aug-19 14:00:00		25.83	0.00	0.00	4.23	2.1	329.7		8.52	0.00	0.00	1.40		10.35	18.92	83.84	86.68	22-Aug-19 13:00:00		18.87	18.92	83.84	88.08
22-Aug-19 14:00:00	22-Aug-19 15:00:00		20.42	0.00	0.00	30.75	2.1	329.7		6.73	0.00	0.00	10.14		10.35	18.92	83.84	86.68	22-Aug-19 14:00:00		17.08	18.92	83.84	96.82
22-Aug-19 15:00:00	22-Aug-19 16:00:00		12.10	0.00	0.00	4.03	2.1	329.7		3.99	0.00	0.00	1.33		10.35	18.92	83.84	86.68	22-Aug-19 15:00:00		14.34	18.92	83.84	88.01
22-Aug-19 16:00:00	22-Aug-19 17:00:00		25.81	0.00	0.00	3.94	2.1	329.7		8.51	0.00	0.00	1.30		10.35	18.92	83.84	86.68	22-Aug-19 16:00:00		18.86	18.92	83.84	87.98
22-Aug-19 17:00:00	22-Aug-19 18:00:00		23.62	0.00	0.00	87.13	2.1	329.7		7.79	0.00	0.00	28.73		10.35	18.92	83.84	86.68	22-Aug-19 17:00:00		18.14	18.92	83.84	115.41
22-Aug-19 18:00:00	22-Aug-19 19:00:00		21.29	0.00	0.00	4.15	2.1	329.7		7.02	0.00	0.00	1.37		10.35	18.92	83.84	86.68	22-Aug-19 18:00:00		17.37	18.92	83.84	88.05
22-Aug-19 19:00:00	22-Aug-19 20:00:00		17.90	0.00	0.00	4.44	2.1	329.7		5.90	0.00	0.00	1.46		10.35	18.92	83.84	86.68	22-Aug-19 19:00:00		16.25	18.92	83.84	88.14
22-Aug-19 20:00:00	22-Aug-19 21:00:00		12.27	0.00	0.00	4.73	2.1	329.7		4.05	0.00	0.00	1.56		10.35	18.92	83.84	86.68	22-Aug-19 20:00:00		14.40	18.92	83.84	88.24
22-Aug-19 21:00:00	22-Aug-19 22:00:00		2.47	0.00	0.00	5.02	2.1	329.7		0.81	0.00	0.00	1.66		10.35	18.92	83.84	86.68	22-Aug-19 21:00:00		11.16	18.92	83.84	88.34
22-Aug-19 22:00:00	22-Aug-19 23:00:00		5.36	0.00	0.00	5.10	2.1	329.7		1.77	0.00	0.00	1.68		10.35	18.92	83.84	86.68	22-Aug-19 22:00:00		12.12	18.92	83.84	88.36
22-Aug-19 23:00:00	23-Aug-19 00:00:00		16.45	0.00	0.00	5.08	2.1	329.7		5.42	0.00	0.00	1.67		10.35	18.92	83.84	86.68	22-Aug-19 23:00:00		15.77	18.92	83.84	88.35
23-Aug-19 00:00:00	23-Aug-19 01:00:00		10.85	0.00	0.00	5.05	2.1	329.7		3.58	0.00	0.00	1.67		10.35	18.92	83.84	86.68	23-Aug-19 00:00:00		13.93	18.92	83.84	88.35
23-Aug-19 01:00:00	23-Aug-19 02:00:00		18.75	0.00	0.00	4.98	2.1	329.7		6.18	0.00	0.00	1.64		10.35	18.92	83.84	86.68	23-Aug-19 01:00:00		16.53	18.92	83.84	88.32
23-Aug-19 02:00:00	23-Aug-19 03:00:00		17.48	0.00	0.00	4.89	2.1	329.7		5.76	0.00	0.00	1.61		10.35	18.92	83.84	86.68	23-Aug-19 02:00:00		16.11	18.92	83.84	88.29
23-Aug-19 03:00:00	23-Aug-19 04:00:00		26.64	0.00	0.00	4.96	2.1	329.7		8.78	0.00	0.00	1.63		10.35	18.92	83.84	86.68	23-Aug-19 03:00:00		19.13	18.92	83.84	88.31
23-Aug-19 04:00:00	23-Aug-19 05:00:00		14.64	0.00	0.00	5.03	2.1	329.7		4.83	0.00	0.00	1.66		10.35	18.92	83.84	86.68	23-Aug-19 04:00:00		15.18	18.92	83.84	88.34
23-Aug-19 05:00:00	23-Aug-19 06:00:00		18.26	0.00	0.00	5.02	2.1	329.7		6.02	0.00	0.00	1.66		10.35	18.92	83.84	86.68	23-Aug-19 05:00:00		16.37	18.92	83.84	88.34
23-Aug-19 06:00:00	23-Aug-19 07:00:00		35.88	0.00	0.00	4.89	2.1	329.7		11.83	0.00	0.00	1.61		10.35	18.92	83.84	86.68	23-Aug-19 06:00:00		22.18	18.92	83.84	88.29
23-Aug-19 07:00:00	23-Aug-19 08:00:00		31.24	0.00	0.00	4.97	2.1	329.7		10.30	0.00	0.00	1.64		10.35	18.92	83.84	86.68	23-Aug-19 07:00:00		20.65	18.92	83.84	88.32
23-Aug-19 08:00:00	23-Aug-19 09:00:00		6.06	0.00	0.00	5.05	2.1	329.7		2.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	23-Aug-19 08:00:00		12.35	18.92	83.84	88.34
23-Aug-19 09:00:00	23-Aug-19 10:00:00		4.30	0.00	0.00	5.11	2.1	329.7		1.42	0.00	0.00	1.69		10.35	18.92	83.84	86.68	23-Aug-19 09:00:00		11.77	18.92	83.84	88.37
23-Aug-19 10:00:00	23-Aug-19 11:00:00		6.33	0.00	0.00	4.95	2.1	329.7		2.09	0.00	0.00	1.63		10.35	18.92	83.84	86.68	23-Aug-19 10:00:00		12.44	18.92	83.84	88.31
23-Aug-19 11:00:00	23-Aug-19 12:00:00		14.08	0.00	0.00	4.70	2.1	329.7		4.64	0.00	0.00	1.55		10.35	18.92	83.84	86.68	23-Aug-19 11:00:00		14.99	18.92	83.84	88.23
23-Aug-19 12:00:00	23-Aug-19 13:00:00		18.90	0.00	0.00	4.45	2.1	329.7		6.23	0.00	0.00	1.47		10.35	18.92	83.84	86.68	23-Aug-19 12:00:00		16.58	18.92	83.84	88.15
23-Aug-19 13:00:00	23-Aug-19 14:00:00		12.81	0.00	0.00	4.20	2.1	329.7		4.22	0.00	0.00	1.39		10.35	18.92	83.84	86.68	23-Aug-19 13:00:00		14.57	18.92	83.84	88.07
23-Aug-19 14:00:00	23-Aug-19 15:00:00		16.01	0.00	0.00	4.27	2.1	329.7		5.28	0.00	0.00	1.41		10.35	18.92	83.84	86.68	23-Aug-19 14:00:00		15.63	18.92	83.84	88.09
23-Aug-19 15:00:00	23-Aug-19 16:00:00		14.19	0.00	0.00	4.52	2.1	329.7		4.68	0.00	0.00	1.49		10.35	18.92	83.84	86.68	23-Aug-19 15:00:00		15.03	18.92	83.84	88.17
23-Aug-19 16:00:00	23-Aug-19 17:00:00		8.22	0.00	0.00	4.77	2.1	329.7		2.71	0.00	0.00	1.57		10.35	18.92	83.84	86.68	23-Aug-19 16:00:00		13.06	18.92	83.84	88.25
23-Aug-19 17:00:00	23-Aug-19 18:00:00		18.06	0.00	0.00	5.02	2.1	329.7		5.95	0.00	0.00	1.66		10.35	18.92	83.84	86.68	23-Aug-19 17:00:00		16.30	18.92	83.84	88.34
23-Aug-19 18:00:00	23-Aug-19 19:00:00		13.39	0.00	0.00	5.16	2.1	329.7		4.42	0.00	0.00	1.70		10.35	18.92	83.84	86.68	23-Aug-19 18:00:00		14.77	18.92	83.84	88.38
23-Aug-19 19:00:00	23-Aug-19 20:00:00		0.88	0.00	0.00	8.40	2.1	329.7		0.29	0.00	0.00	2.77		10.35	18.92	83.84	86.68	23-Aug-19 19:00:00		10.64	18.92	83.84	89.45
23-Aug-19 20:00:00	23-Aug-19 21:00:00		0.12	0.00	0.00	5.22	2.1	329.7		0.04	0.00	0.00	1.72		10.35	18.92	83.84	86.68	23-Aug-19 20:00:00		10.39	18.92	83.84	88.40
23-Aug-19 21:00:00	23-Aug-19 22:00:00		8.54	0.00	0.00	5.27	2.1	329.7		2.82	0.00	0.00	1.74		10.35	18.92	83.84	86.68	23-Aug-19 21:00:00		13.17	18.92	83.84	88.42
23-Aug-19 22:00:00	23-Aug-19 23:00:00		26.94	0.00	0.00	5.33	2.1	329.7		8.88	0.00	0.00	1.76		10.35	18.92	83.84	86.68	23-Aug-19 22:00:00		19.23	18.92	83.84	88.44
23-Aug-19 23:00:00	24-Aug-19 00:00:00		16.75	0.00	0.00	5.33	2.1	329.7		5.52	0.00	0.00	1.76		10.35	18.92	83.84	86.68	23-Aug-19 23:00:00		15.87	18.92	83.84	88.44
24-Aug-19 00:00:00	24-Aug-19 01:00:00		19.72	0.00	0.00	5.32	2.1	329.7		6.50	0.00	0.00	1.75		10.35	18.92	83.84	86.68	24-Aug-19 00:00:00		16.85	18.92	83.84	88.43
24-Aug-19 01:00:00	24-Aug-19 02:00:00		13.12	0.00	0.00	5.33	2.1	329.7		4.33	0.00	0.00	1.76		10.35	18.92	83.84	86.68	24-Aug-19 01:00:00		14.68	18.92	83.84	88.44
24-Aug-19 02:00:00	24-Aug-19 03:00:00		4.23	0.00	0.00	5.34	2.1	329.7		1.40	0.00	0.00	1.76		10.35	18.92	83.84	86.68	24-Aug-19 02:00:00		11.75	18.92	83.84	88.44
24-Aug-19 03:00:00	24-Aug-19 04:00:00		2.70	0.00	0.00	5.34	2.1	329.7		0.89	0.00	0.00	1.76		10.35	18.92	83.84	86.68	24-Aug-19 03:00:00		11.24	18.92	83.84	88.44
24-Aug-19 04:00:00	24-Aug-19 05:00:00		1.42	0.00	0.00	5.31	2.1	329.7		0.47	0.00	0.00	1.75		10.35	18.92	83.84	86.68	24-Aug-19 04:00:00		10.82	18.92	83.84	88.43
24-Aug-19 05:00:00	24-Aug-19 06:00:00		1.67	0.00	0.00	5.28	2.1	329.7		0.55	0.00	0.00	1.74		10.35	18.92	83.84	86.68	24-Aug-19 05:00:00		10.90	18.92	83.84	88.42
24-Aug-19 06:00:00	24-Aug-19 07:00:00		1.06	0.00	0.00	5.26	2.1	329.7		0.35	0.00	0.00	1.73		10.35	18.92	83.84	86.68	24-Aug-19 06:00:00		10.70	18.92	83.84	88.41
24-Aug-19 07:00:00	24-Aug-19 08:00:00		0.65	0.00	0.00	5.26	2.1	329.7		0.21	0.00	0.00	1.73		10.35	18.92	83.84	86.68	24-Aug-19 07:00:00		10.56	18.92	83.84	88.41
24-Aug-19 08:00:00	24-Aug-19 09:00:00		0.05	0.00	0.00	5.35	2.1	329.7		0.02	0.00	0.00	1.76		10.35	18.92	83.84	86.68	24-Aug-19 08:00:00		10.37	18.92	83.84	88.44
24-Aug-19 09:00:00	24-Aug-19 10:00:00		0.11	0.00	0.00	5.44	2.1	329.7		0.04	0.00	0.00	1.79		10.35	18.92	83.84	86.68	24-Aug-19 09:00:00		10.39	18.92	83.84	88.47
24-Aug-19 10:00:00	24-Aug-19 11:00:00		1.49	0.00	0.00	5.53	2.1	329.7		0.49	0.00	0.00	1.82		10.35	18.92	83.84	86.68	24-Aug-19 10:00:00		10.84	18.92	83.84	88.50
24-Aug-19 11:00:00	24-Aug-19 12:00:00		3.38	0.00	0.00	5.63	2.1	329.7		1.11	0.00	0.00	1.86		10.35	18.92	83.84	86.68	24-Aug-19 11:00:00		11.46	18.92	83.84	88.54
24-Aug-19 12:00:00	24-Aug-19 13:00:00		2.80	0.00	0.00	5.73	2.1	329.7		0.92	0.00	0.00	1.89		10.35	18.92	83.84	86.68	24-Aug-19 12:00:00		11.27	18.92	83.84	88.57
24-Aug-19 13:00:00	24-Aug-19 14:00:00		0.50	0.00	0.00	5.83	2.1	329.7		0.16	0.00	0.00	1.92		10.35	18.92	83.84	86.68	24-Aug-19 13:00:00		10.51	18.92	83.84	88.60
24-Aug-19 14:00:00	24-Aug-19 15:00:00		0.98	0.00	0.00	42.13	2.1	329.7		0.32	0.00	0.00	13.89		10.35	18.92	83.84	86.68	24-Aug-19 14:00:00		10.67	18.92	83.84	100.57
24-Aug-19 15:00:00	24-Aug-19 16:00:00		1.32	0.00	0.00	5.65	2.1	329.7		0.43	0.00	0.00	1.86		10.35	18.92	83.84	86.68	24-Aug-19 15:00:00		10.78	18.92	83.84	88.54
24-Aug-19 16:00:00	24-Aug-19 17:00:00		1.63	0.00	0.00	5.56	2.1	329.7		0.54	0.00	0.00	1.83		10.35	18.92	83.84	86.68	24-Aug-19 16:00:00		10.89	18.92	83.84	88.51
24-Aug-19 17:00:00	24-Aug-19 18:00:00		2.31	0.00	0.00	5.48	2.1	329.7		0.76	0.00	0.00	1.81		10.35	18.92	83.84	86.68	24-Aug-19 17:00:00		11.11	18.92	83.84	88.49
24-Aug-19 18:00:00	24-Aug-19 19:00:00		14.74	0.00	0.00	5.41	2.1	329.7		4.86	0.00	0.00	1.79		10.35	18.92	83.84	86.68	24-Aug-19 18:00:00		15.21	18.92	83.84	88.47
24-Aug-19 19:00:00	24-Aug-19 20:00:00		20.48	0.00	0.00	5.49	2.1	329.7		6.75	0.00	0.00	1.81		10.35	18.92	83.84	86.68	24-Aug-19 19:00:00		17.10	18.92	83.84	88.49
24-Aug-19 20:00:00	24-Aug-19 21:00:00		19.98	0.00	0.00	5.58	2.1	329.7		6.59	0.00	0.00	1.84		10.35	18.92	83.84	86.68	24-Aug-19 20:00:00		16.94	18.92	83.84	88.52
24-Aug-19 21:00:00	24-Aug-19 22:00:00		19.68	0.00	0.00	5.68	2.1	329.7		6.49	0.00	0.00	1.87		10.35	18.92	83.84	86.68	24-Aug-19 21:00:00		16.84	18.92	83.84	88.55
24-Aug-19 22:00:00	24-Aug-19 23:00:00		1.59	0.00	0.00	5.84	2.1	329.7		0.52	0.00	0.00	1.93		10.35	18.92	83.84	86.68	24-Aug-19 22:00:00		10.87	18.92	83.84	88.61
24-Aug-19 23:00:00	25-Aug-19 00:00:00		6.53	0.00	0.00	5.92	2.1	329.7		2.15	0.00	0.00	1.95		10.35	18.92	83.84	86.68	24-Aug-19 23:00:00		12.50	18.92	83.84	88.63
25-Aug-19 00:00:00	25-Aug-19 01:00:00		1.56	0.00	0.00	5.92	2.1	329.7		0.51	0.00	0.00	1.95		10.35	18.92	83.84	86.68	25-Aug-19 00:00:00		10.86	18.92	83.84	88.63
25-Aug-19 01:00:00	25-Aug-19 02:00:00		11.63	0.00	0.00	5.91	2.1	329.7		3.83	0.00	0.00	1.95		10.35	18.92	83.84	86.68	25-Aug-19 01:00:00		14.18	18.92	83.84	88.63
25-Aug-19 02:00:00	25-Aug-19 03:00:00		5.36	0.00	0.00	5.90	2.1	329.7		1.77	0.00	0.00	1.94		10.35	18.92	83.84	86.68	25-Aug-19 02:00:00		12.12	18.92	83.84	88.62
25-Aug-19 03:00:00	25-Aug-19 04:00:00		1.40	0.00	0.00	5.84	2.1	329.7		0.46	0.00	0.00	1.93		10.35	18.92	83.84	86.68	25-Aug-19 03:00:00		10.81	18.92	83.84	88.61
25-Aug-19 04:00:00	25-Aug-19 05:00:00		0.02	0.00	0.00	5.78	2.1	329.7		0.01	0.00	0.00	1.91		10.35	18.92	83.84	86.68	25-Aug-19 04:00:00		10.36	18.92	83.84	88.59
25-Aug-19 05:00:00	25-Aug-19 06:00:00		0.00	0.00	0.00	5.72	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	25-Aug-19 05:00:00		10.35	18.92	83.84	88.57
25-Aug-19 06:00:00	25-Aug-19 07:00:00		0.00	0.00	0.00	5.63	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	25-Aug-19 06:00:00		10.35	18.92	83.84	88.54
25-Aug-19 07:00:00	25-Aug-19 08:00:00		0.00	0.00	0.00	5.53

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
27-Aug-19 09:00:00	27-Aug-19 10:00:00		0.00	0.00	0.00	5.52	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	27-Aug-19 09:00:00		10.35	18.92	83.84	88.50
27-Aug-19 10:00:00	27-Aug-19 11:00:00		0.00	0.00	0.00	5.48	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	27-Aug-19 10:00:00		10.35	18.92	83.84	88.49
27-Aug-19 11:00:00	27-Aug-19 12:00:00		0.00	0.00	0.00	5.32	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	27-Aug-19 11:00:00		10.35	18.92	83.84	88.43
27-Aug-19 12:00:00	27-Aug-19 13:00:00		0.00	0.00	0.00	5.18	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	27-Aug-19 12:00:00		10.35	18.92	83.84	88.39
27-Aug-19 13:00:00	27-Aug-19 14:00:00		0.00	0.00	0.00	5.05	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	27-Aug-19 13:00:00		10.35	18.92	83.84	88.34
27-Aug-19 14:00:00	27-Aug-19 15:00:00		0.00	0.00	0.00	5.02	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	27-Aug-19 14:00:00		10.35	18.92	83.84	88.33
27-Aug-19 15:00:00	27-Aug-19 16:00:00		0.00	0.00	0.00	5.06	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	27-Aug-19 15:00:00		10.35	18.92	83.84	88.35
27-Aug-19 16:00:00	27-Aug-19 17:00:00		0.00	0.00	0.00	4.94	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	27-Aug-19 16:00:00		10.35	18.92	83.84	88.31
27-Aug-19 17:00:00	27-Aug-19 18:00:00		0.00	0.00	0.00	4.82	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	27-Aug-19 17:00:00		10.35	18.92	83.84	88.27
27-Aug-19 18:00:00	27-Aug-19 19:00:00		0.00	0.00	0.00	4.69	2.1	329.7		0.00	0.00	0.00	1.55		10.35	18.92	83.84	86.68	27-Aug-19 18:00:00		10.35	18.92	83.84	88.23
27-Aug-19 19:00:00	27-Aug-19 20:00:00		0.00	0.00	0.00	4.65	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	27-Aug-19 19:00:00		10.35	18.92	83.84	88.21
27-Aug-19 20:00:00	27-Aug-19 21:00:00		0.00	0.00	0.00	4.66	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	27-Aug-19 20:00:00		10.35	18.92	83.84	88.22
27-Aug-19 21:00:00	27-Aug-19 22:00:00		0.00	0.00	0.00	4.68	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	27-Aug-19 21:00:00		10.35	18.92	83.84	88.22
27-Aug-19 22:00:00	27-Aug-19 23:00:00		0.00	0.00	0.00	4.60	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	27-Aug-19 22:00:00		10.35	18.92	83.84	88.20
27-Aug-19 23:00:00	28-Aug-19 00:00:00		0.00	0.00	0.00	4.58	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	27-Aug-19 23:00:00		10.35	18.92	83.84	88.19
28-Aug-19 00:00:00	28-Aug-19 01:00:00		0.00	0.00	0.00	4.79	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	28-Aug-19 00:00:00		10.35	18.92	83.84	88.26
28-Aug-19 01:00:00	28-Aug-19 02:00:00		0.00	0.00	0.00	5.00	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	28-Aug-19 01:00:00		10.35	18.92	83.84	88.33
28-Aug-19 02:00:00	28-Aug-19 03:00:00		0.00	0.00	0.00	5.16	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	28-Aug-19 02:00:00		10.35	18.92	83.84	88.38
28-Aug-19 03:00:00	28-Aug-19 04:00:00		0.00	0.00	0.00	5.14	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	28-Aug-19 03:00:00		10.35	18.92	83.84	88.37
28-Aug-19 04:00:00	28-Aug-19 05:00:00		0.00	0.00	0.00	5.14	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	28-Aug-19 04:00:00		10.35	18.92	83.84	88.38
28-Aug-19 05:00:00	28-Aug-19 06:00:00		0.00	0.00	0.00	5.15	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	28-Aug-19 05:00:00		10.35	18.92	83.84	88.38
28-Aug-19 06:00:00	28-Aug-19 07:00:00		0.00	0.00	0.00	5.16	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	28-Aug-19 06:00:00		10.35	18.92	83.84	88.38
28-Aug-19 07:00:00	28-Aug-19 08:00:00		0.00	0.00	0.00	5.14	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	28-Aug-19 07:00:00		10.35	18.92	83.84	88.37
28-Aug-19 08:00:00	28-Aug-19 09:00:00		0.00	0.00	0.00	5.07	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	28-Aug-19 08:00:00		10.35	18.92	83.84	88.35
28-Aug-19 09:00:00	28-Aug-19 10:00:00		0.00	0.00	0.00	5.00	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	28-Aug-19 09:00:00		10.35	18.92	83.84	88.33
28-Aug-19 10:00:00	28-Aug-19 11:00:00		0.00	0.00	0.00	4.86	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	28-Aug-19 10:00:00		10.35	18.92	83.84	88.28
28-Aug-19 11:00:00	28-Aug-19 12:00:00		0.00	0.00	0.00	4.60	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	28-Aug-19 11:00:00		10.35	18.92	83.84	88.20
28-Aug-19 12:00:00	28-Aug-19 13:00:00		0.00	0.00	0.00	4.45	2.1	329.7		0.00	0.00	0.00	1.47		10.35	18.92	83.84	86.68	28-Aug-19 12:00:00		10.35	18.92	83.84	88.15
28-Aug-19 13:00:00	28-Aug-19 14:00:00		0.00	0.00	0.00	4.31	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	28-Aug-19 13:00:00		10.35	18.92	83.84	88.10
28-Aug-19 14:00:00	28-Aug-19 15:00:00		0.00	0.00	0.00	4.16	2.1	329.7		0.00	0.00	0.00	1.37		10.35	18.92	83.84	86.68	28-Aug-19 14:00:00		10.35	18.92	83.84	88.05
28-Aug-19 15:00:00	28-Aug-19 16:00:00		0.00	0.00	0.00	4.09	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	28-Aug-19 15:00:00		10.35	18.92	83.84	88.03
28-Aug-19 16:00:00	28-Aug-19 17:00:00		0.00	0.00	0.00	4.05	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	28-Aug-19 16:00:00		10.35	18.92	83.84	88.01
28-Aug-19 17:00:00	28-Aug-19 18:00:00		0.00	0.00	0.00	4.01	2.1	329.7		0.00	0.00	0.00	1.32		10.35	18.92	83.84	86.68	28-Aug-19 17:00:00		10.35	18.92	83.84	88.00
28-Aug-19 18:00:00	28-Aug-19 19:00:00		0.00	0.00	0.00	3.91	2.1	329.7		0.00	0.00	0.00	1.29		10.35	18.92	83.84	86.68	28-Aug-19 18:00:00		10.35	18.92	83.84	87.97
28-Aug-19 19:00:00	28-Aug-19 20:00:00		0.00	0.00	0.00	3.89	2.1	329.7		0.00	0.00	0.00	1.28		10.35	18.92	83.84	86.68	28-Aug-19 19:00:00		10.35	18.92	83.84	87.96
28-Aug-19 20:00:00	28-Aug-19 21:00:00		0.00	0.00	0.00	4.05	2.1	329.7		0.00	0.00	0.00	1.33		10.35	18.92	83.84	86.68	28-Aug-19 20:00:00		10.35	18.92	83.84	88.01
28-Aug-19 21:00:00	28-Aug-19 22:00:00		0.00	0.00	0.00	4.20	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	28-Aug-19 21:00:00		10.35	18.92	83.84	88.06
28-Aug-19 22:00:00	28-Aug-19 23:00:00		0.00	0.00	0.00	4.31	2.1	329.7		0.00	0.00	0.00	1.42		10.35	18.92	83.84	86.68	28-Aug-19 22:00:00		10.35	18.92	83.84	88.10
28-Aug-19 23:00:00	29-Aug-19 00:00:00		0.00	0.00	0.00	4.42	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	28-Aug-19 23:00:00		10.35	18.92	83.84	88.14
29-Aug-19 00:00:00	29-Aug-19 01:00:00		0.00	0.00	0.00	4.62	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	29-Aug-19 00:00:00		10.35	18.92	83.84	88.20
29-Aug-19 01:00:00	29-Aug-19 02:00:00		0.00	0.00	0.00	4.82	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	29-Aug-19 01:00:00		10.35	18.92	83.84	88.27
29-Aug-19 02:00:00	29-Aug-19 03:00:00		0.00	0.00	0.00	5.00	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	29-Aug-19 02:00:00		10.35	18.92	83.84	88.33
29-Aug-19 03:00:00	29-Aug-19 04:00:00		0.00	0.00	0.00	5.13	2.1	329.7		0.00	0.00	0.00	1.69		10.35	18.92	83.84	86.68	29-Aug-19 03:00:00		10.35	18.92	83.84	88.37
29-Aug-19 04:00:00	29-Aug-19 05:00:00		0.00	0.00	0.00	5.26	2.1	329.7		0.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	29-Aug-19 04:00:00		10.35	18.92	83.84	88.42
29-Aug-19 05:00:00	29-Aug-19 06:00:00		0.00	0.00	0.00	5.39	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	29-Aug-19 05:00:00		10.35	18.92	83.84	88.46
29-Aug-19 06:00:00	29-Aug-19 07:00:00		0.00	0.00	0.00	5.58	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	29-Aug-19 06:00:00		10.35	18.92	83.84	88.52
29-Aug-19 07:00:00	29-Aug-19 08:00:00		0.00	0.00	0.00	5.57	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	29-Aug-19 07:00:00		10.35	18.92	83.84	88.52
29-Aug-19 08:00:00	29-Aug-19 09:00:00		0.00	0.00	0.00	5.31	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	29-Aug-19 08:00:00		10.35	18.92	83.84	88.43
29-Aug-19 09:00:00	29-Aug-19 10:00:00		0.00	0.00	0.00	5.06	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	29-Aug-19 09:00:00		10.35	18.92	83.84	88.35
29-Aug-19 10:00:00	29-Aug-19 11:00:00		0.00	0.00	0.00	4.82	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	29-Aug-19 10:00:00		10.35	18.92	83.84	88.27
29-Aug-19 11:00:00	29-Aug-19 12:00:00		0.00	0.00	0.00	4.67	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	29-Aug-19 11:00:00		10.35	18.92	83.84	88.22
29-Aug-19 12:00:00	29-Aug-19 13:00:00		0.00	0.00	0.00	4.51	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	29-Aug-19 12:00:00		10.35	18.92	83.84	88.17
29-Aug-19 13:00:00	29-Aug-19 14:00:00		0.00	0.00	0.00	4.35	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	29-Aug-19 13:00:00		10.35	18.92	83.84	88.11
29-Aug-19 14:00:00	29-Aug-19 15:00:00		1.24	0.00	0.00	4.19	2.1	329.7		0.41	0.00	0.00	1.38		10.35	18.92	83.84	86.68	29-Aug-19 14:00:00		10.76	18.92	83.84	88.06
29-Aug-19 15:00:00	29-Aug-19 16:00:00		8.06	0.00	0.00	4.14	2.1	329.7		2.66	0.00	0.00	1.37		10.35	18.92	83.84	86.68	29-Aug-19 15:00:00		13.01	18.92	83.84	88.05
29-Aug-19 16:00:00	29-Aug-19 17:00:00		23.03	0.00	0.00	4.14	2.1	329.7		7.59	0.00	0.00	1.36		10.35	18.92	83.84	86.68	29-Aug-19 16:00:00		17.94	18.92	83.84	88.04
29-Aug-19 17:00:00	29-Aug-19 18:00:00		11.43	0.00	0.00	4.13	2.1	329.7		3.77	0.00	0.00	1.36		10.35	18.92	83.84	86.68	29-Aug-19 17:00:00		14.12	18.92	83.84	88.04
29-Aug-19 18:00:00	29-Aug-19 19:00:00		18.78	0.00	0.00	4.12	2.1	329.7		6.19	0.00	0.00	1.36		10.35	18.92	83.84	86.68	29-Aug-19 18:00:00		16.54	18.92	83.84	88.04
29-Aug-19 19:00:00	29-Aug-19 20:00:00		7.99	0.00	0.00	4.32	2.1	329.7		2.64	0.00	0.00	1.43		10.35	18.92	83.84	86.68	29-Aug-19 19:00:00		12.99	18.92	83.84	88.11
29-Aug-19 20:00:00	29-Aug-19 21:00:00		23.81	0.00	0.00	4.64	2.1	329.7		7.85	0.00	0.00	1.53		10.35	18.92	83.84	86.68	29-Aug-19 20:00:00		18.20	18.92	83.84	88.21
29-Aug-19 21:00:00	29-Aug-19 22:00:00		28.85	0.00	0.00	4.95	2.1	329.7		9.51	0.00	0.00	1.63		10.35	18.92	83.84	86.68	29-Aug-19 21:00:00		19.86	18.92	83.84	88.31
29-Aug-19 22:00:00	29-Aug-19 23:00:00		15.31	0.00	0.00	5.27	2.1	329.7		5.05	0.00	0.00	1.74		10.35	18.92	83.84	86.68	29-Aug-19 22:00:00		15.40	18.92	83.84	88.42
29-Aug-19 23:00:00	30-Aug-19 00:00:00		13.12	0.00	0.00	5.47	2.1	329.7		4.32	0.00	0.00	1.80		10.35	18.92	83.84	86.68	29-Aug-19 23:00:00		14.67	18.92	83.84	88.48
30-Aug-19 00:00:00	30-Aug-19 01:00:00		9.10	0.00	0.00	5.60	2.1	329.7		3.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	30-Aug-19 00:00:00		13.35	18.92	83.84	88.52
30-Aug-19 01:00:00	30-Aug-19 02:00:00		22.70	0.00	0.00	5.72	2.1	329.7		7.48	0.00	0.00	1.89		10.35	18.92	83.84	86.68	30-Aug-19 01:00:00		17.83	18.92	83.84	88.57
30-Aug-19 02:00:00	30-Aug-19 03:00:00		4.12	0.00	0.00	5.84	2.1	329.7		1.36	0.00	0.00	1.93		10.35	18.92	83.84	86.68	30-Aug-19 02:00:00		11.71	18.92	83.84	88.61
30-Aug-19 03:00:00	30-Aug-19 04:00:00		0.99	0.00	0.00	5.91	2.1	329.7		0.33	0.00	0.00	1.95		10.35	18.92	83.84	86.68	30-Aug-19 03:00:00		10.68	18.92	83.84	88.63
30-Aug-19 04:00:00	30-Aug-19 05:00:00		0.49	0.00	0.00	5.96	2.1	329.7		0.16	0.00	0.00	1.97		10.35	18.92	83.84	86.68	30-Aug-19 04:00:00		10.51	18.92	83.84	88.65
30-Aug-19 05:00:00	30-Aug-19 06:00:00		421.06	0.00	0.00	6.01	2.1	329.7		138.82	0.00	0.00	1.98		10.35	18.92	83.84	86.68	30-Aug-19 05:00:00		149.17	18.92	83.84	88.66
30-Aug-19 06:00:00	30-Aug-19 07:00:00		88.16	0.00	0.00	6.04	2.1	329.7		29.07	0.00	0.00	1.99		10.35	18.92	83.84	86.68	30-Aug-19 06:00:00		39.42	18.92	83.84	88.67
30-Aug-19 07:00:00	30-Aug-19 08:00:00		339.60	0.00	0.00	5.82	2.1	329.7		111.97	0.00	0.00	1.92		10.35	18.92	83.84	86.68	30-Aug-19 07:00:00		122.32	18.92	83.84	88.60
30-Aug-19 08:00:00	30-Aug-19 09:00:00		366.45	0.00	0.00	5.52	2.1	329.7		120.82	0.00	0.00	1.82		10.35	18.92	83.84	86.68	30-Aug-19 08:00:00		131.17	18.92	83.84	88.50
30-Aug-19 09:00:00	30-Aug-19 10:00:00		358.18	0.00	0.00	5.21	2.1	329.7		118.09	0.00	0.00	1.72		10.35	18.92	83.84	86.68	30-Aug-19 09:00:00		128.44	18.92	83.84	88.40
30-Aug-19 10:00:00	30-Aug-19 11:00:00		491.64	0.00	0.00	4.91	2.1	329.7		162.09	0.00	0.00	1.62		10.35	18.92	83.84	86.68	30-Aug-19 10:00:00		172.44	18.92	83.84	88.30
30-Aug-19 11:00:00	30-Aug-19 12:00:00		738.02	0.00	0.00	4.65	2.1	329.7		243.33	0.00	0.00	1.53		10.35	18.92	83.84	86.68	30-Aug-19 11:00:00		253.68	18.92	83.84	88.21
30-Aug-19 12:00:00	30-Aug-19 13:00:00		1,185.31	0.00	0.00	4.44	2.1	329.7		390.80	0.00	0.00	1.47		10.35	18.92	83.84	86.68	30-Aug-19 12:00:00		401.15	18.92	83.84	88.15
30-Aug-19 13:00:00	30-Aug-19 14:00:00		1,349.20	0.00	0.00	4.24	2.1	329.7		444.83	0.00	0.00	1.40		10.35	18.92	83.84	86.68	30-Aug-19 13:00:00		455.18	18.92	83.84	88.08
30-Aug-19 14:00:00	30-Aug-19 15:00:00		1,236.39	0.00	0.00	4.02	2.1	329.7		407.64	0.00	0.00	1.33		10.35	18.92	83.84	86.68	30-Aug-19 14:00:00		417.99	18.92	83.84	88.01
30-Aug-19 15:00:00	30-Aug-19 16:00:00		842.02	0.00	0.00	3.94	2.1	329.7		277.61	0.00	0.00	1.30		10.35	18.92	83.84	86.68	30-Aug-19 15:00:00		287.96	18.92	83.84	87.98
30-Aug-19 16:00:00	30-Aug-19 17:00:00		376.72	0.00	0.00	3.99	2.1	329.7		124.21	0.00	0.00	1.31		10.35	18.92	83.84	86.68	30-Aug-19 16:00:00		134.56	18.92	83.84	87.99
30-Aug-19 17:00:00	30-Aug-19 18:00:00		11.61	0.00	0.00	4.04	2.1	329.7		3.83	0.00	0.00	1.33		10.35	18.92	83.84	86.68	30-Aug-19 17:00:00		14.18	18.92	83.84	88.01
30-Aug-19 18:00:00	30-Aug-19 19:00:00		0.59	0.00	0.00	4.11	2.1	329.7		0.19	0.00	0.00	1.36		10.35	18.92	83.84	86.68	30-Aug-19 18:00:00		10.54	18.92	83.84	88.04
30-Aug-19 19:00:00	30-Aug-19 20:00:00		4.82	0.00	0.00	4.39	2.1	329.7		1.59	0.00	0.00	1.45		10.35	18.92	83.84	86.68	30-Aug-19 19:00:00		11.94	18.92	83.84	88.13
30-Aug-19 20:00:00	30-Aug-19 21:00:00		13.83	0.00	0.00	4.67	2.1	329.7		4.56	0.00	0.00	1.54		10.35	18.92	83.84	86.68	30-Aug-19 20:00:00		14.91	18.92	83.84	88.22
30-Aug-19 21:00:00	30-Aug-19 22:00:00		6.77	0.00	0.00	4.96	2.1	329.7		2.23	0.00	0.00	1.63		10.35	18.92	83.84	86.68	30-Aug-19 21:00:00		12.58	18.92	83.84	88.31
30-Aug-19 22:00:00	30-Aug-19 23:00:00		19.89	0.00	0.00	5.22	2.1	329.7		6.56	0.00	0.00	1.72		10.35	18.92	83.84	86.68	30-Aug-19 22:00:00		16.91	18.92	83.84	88.40
30-Aug-19 23:00:00	31-Aug-19 00:00:00		11.19	0.00	0.00	5.32	2.1	329.7		3.69	0.00	0.00	1.75		10.35	18.92	83.84	86.68	30-Aug-19 23:00:00		14.04	18.92	83.84	88.43
31-Aug-19 00:00:00	31-Aug-19 01:00:00		4.21	0.00	0.00	5.45	2.1	329.7		1.39	0.00	0.00	1.80		10.35	18.92	83.84	86.68	31-Aug-19 00:00:00		11.74	18.92	83.84	88.48
31-Aug-19 01:00:00	31-Aug-19 02:00:00		0.03	0.00	0.00	5.59	2.1	329.7		0.01	0.00	0.00	1.84		10.35	18.92	83.84	86.68	31-Aug-19 01:00:00		10.36	18.92	83.84	88.52
31-Aug-19 02:00:00	31-Aug-19 03:00:00		0.00	0.00	0.00	5.67	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	31-Aug-19 02:00:00		10.35	18.92	83.84	88.55
31-Aug-19 03:00:00	31-Aug-19 04:00:00		2.20	0.00	0.00	5.57	2.1	329.7		0.72	0.00	0.00	1.84		10.35	18.92	83.84	86.68	31-Aug-19 03:00:00		11.07	18.92	83.84	88.52
31-Aug-19 04:00:00	31-Aug-19 05:00:00		2.97	0.00	0.00	5.64	2.1	329.7		0.98	0.00	0.00	1.86		10.35	18.92	83.84	86.68	31-Aug-19 04:00:00		11.33	18.92	83.84	88.54
31-Aug-19 05:00:00	31-Aug-19 06:00:00		1.84	0.00	0.00	5.72	2.1	329.7		0.61	0.00	0.00	1.89		10.35	18.92	83.84	86.68	31-Aug-19 05:00:00		10.96	18.92	83.84	88.57
31-Aug-19 06:00:00	31-Aug-19 07:00:00		1.02	0.00	0.00

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
02-Sep-19 08:00:00	02-Sep-19 09:00:00		26.32	0.00	0.00	5.39	2.1	329.7		8.68	0.00	0.00	1.78		10.35	18.92	83.84	86.68	02-Sep-19 08:00:00		**19.03**	**18.92**	**83.84**	**88.46**
02-Sep-19 09:00:00	02-Sep-19 10:00:00		26.22	0.00	0.00	5.14	2.1	329.7		8.64	0.00	0.00	1.70		10.35	18.92	83.84	86.68	02-Sep-19 09:00:00		**18.99**	**18.92**	**83.84**	**88.38**
02-Sep-19 10:00:00	02-Sep-19 11:00:00		23.19	0.00	0.00	4.92	2.1	329.7		7.65	0.00	0.00	1.62		10.35	18.92	83.84	86.68	02-Sep-19 10:00:00		**18.00**	**18.92**	**83.84**	**88.30**
02-Sep-19 11:00:00	02-Sep-19 12:00:00		5.74	0.00	0.00	4.87	2.1	329.7		1.89	0.00	0.00	1.61		10.35	18.92	83.84	86.68	02-Sep-19 11:00:00		**12.24**	**18.92**	**83.84**	**88.29**
02-Sep-19 12:00:00	02-Sep-19 13:00:00		7.03	0.00	0.00	4.65	2.1	329.7		2.32	0.00	0.00	1.53		10.35	18.92	83.84	86.68	02-Sep-19 12:00:00		**12.67**	**18.92**	**83.84**	**88.21**
02-Sep-19 13:00:00	02-Sep-19 14:00:00		14.52	0.00	0.00	4.43	2.1	329.7		4.79	0.00	0.00	1.46		10.35	18.92	83.84	86.68	02-Sep-19 13:00:00		**15.14**	**18.92**	**83.84**	**88.14**
02-Sep-19 14:00:00	02-Sep-19 15:00:00		15.16	0.00	0.00	4.20	2.1	329.7		5.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	02-Sep-19 14:00:00		**15.35**	**18.92**	**83.84**	**88.07**
02-Sep-19 15:00:00	02-Sep-19 16:00:00		11.44	0.00	0.00	4.10	2.1	329.7		3.77	0.00	0.00	1.35		10.35	18.92	83.84	86.68	02-Sep-19 15:00:00		**14.12**	**18.92**	**83.84**	**88.03**
02-Sep-19 16:00:00	02-Sep-19 17:00:00		11.31	0.00	0.00	4.09	2.1	329.7		3.73	0.00	0.00	1.35		10.35	18.92	83.84	86.68	02-Sep-19 16:00:00		**14.08**	**18.92**	**83.84**	**88.03**
02-Sep-19 17:00:00	02-Sep-19 18:00:00		9.08	0.00	0.00	62.33	2.1	329.7		2.99	0.00	0.00	20.55		10.35	18.92	83.84	86.68	02-Sep-19 17:00:00		**13.34**	**18.92**	**83.84**	**107.23**
02-Sep-19 18:00:00	02-Sep-19 19:00:00		9.20	0.00	0.00	4.61	2.1	329.7		3.03	0.00	0.00	1.52		10.35	18.92	83.84	86.68	02-Sep-19 18:00:00		**13.38**	**18.92**	**83.84**	**88.20**
02-Sep-19 19:00:00	02-Sep-19 20:00:00		12.62	0.00	0.00	4.43	2.1	329.7		4.16	0.00	0.00	1.46		10.35	18.92	83.84	86.68	02-Sep-19 19:00:00		**14.51**	**18.92**	**83.84**	**88.14**
02-Sep-19 20:00:00	02-Sep-19 21:00:00		18.13	0.00	0.00	4.69	2.1	329.7		5.98	0.00	0.00	1.55		10.35	18.92	83.84	86.68	02-Sep-19 20:00:00		**16.33**	**18.92**	**83.84**	**88.23**
02-Sep-19 21:00:00	02-Sep-19 22:00:00		20.76	0.00	0.00	4.95	2.1	329.7		6.84	0.00	0.00	1.63		10.35	18.92	83.84	86.68	02-Sep-19 21:00:00		**17.19**	**18.92**	**83.84**	**88.31**
02-Sep-19 22:00:00	02-Sep-19 23:00:00		16.44	0.00	0.00	5.17	2.1	329.7		5.42	0.00	0.00	1.71		10.35	18.92	83.84	86.68	02-Sep-19 22:00:00		**15.77**	**18.92**	**83.84**	**88.39**
02-Sep-19 23:00:00	03-Sep-19 00:00:00		5.31	0.00	0.00	5.21	2.1	329.7		1.75	0.00	0.00	1.72		10.35	18.92	83.84	86.68	02-Sep-19 23:00:00		**12.10**	**18.92**	**83.84**	**88.40**
03-Sep-19 00:00:00	03-Sep-19 01:00:00		4.66	0.00	0.00	5.22	2.1	329.7		1.53	0.00	0.00	1.72		10.35	18.92	83.84	86.68	03-Sep-19 00:00:00		**11.88**	**18.92**	**83.84**	**88.40**
03-Sep-19 01:00:00	03-Sep-19 02:00:00		10.33	0.00	0.00	8.78	2.1	329.7		3.41	0.00	0.00	2.89		10.35	18.92	83.84	86.68	03-Sep-19 01:00:00		**13.76**	**18.92**	**83.84**	**89.57**
03-Sep-19 02:00:00	03-Sep-19 03:00:00		12.66	0.00	0.00	5.37	2.1	329.7		4.17	0.00	0.00	1.77		10.35	18.92	83.84	86.68	03-Sep-19 02:00:00		**14.52**	**18.92**	**83.84**	**88.45**
03-Sep-19 03:00:00	03-Sep-19 04:00:00		12.51	0.00	0.00	5.36	2.1	329.7		4.12	0.00	0.00	1.77		10.35	18.92	83.84	86.68	03-Sep-19 03:00:00		**14.47**	**18.92**	**83.84**	**88.45**
03-Sep-19 04:00:00	03-Sep-19 05:00:00		13.44	0.00	0.00	5.36	2.1	329.7		4.43	0.00	0.00	1.77		10.35	18.92	83.84	86.68	03-Sep-19 04:00:00		**14.78**	**18.92**	**83.84**	**88.45**
03-Sep-19 05:00:00	03-Sep-19 06:00:00		5.55	0.00	0.00	5.35	2.1	329.7		1.83	0.00	0.00	1.76		10.35	18.92	83.84	86.68	03-Sep-19 05:00:00		**12.18**	**18.92**	**83.84**	**88.44**
03-Sep-19 06:00:00	03-Sep-19 07:00:00		11.51	0.00	0.00	5.33	2.1	329.7		3.80	0.00	0.00	1.76		10.35	18.92	83.84	86.68	03-Sep-19 06:00:00		**14.15**	**18.92**	**83.84**	**88.44**
03-Sep-19 07:00:00	03-Sep-19 08:00:00		13.12	0.00	0.00	5.76	2.1	329.7		4.32	0.00	0.00	1.90		10.35	18.92	83.84	86.68	03-Sep-19 07:00:00		**14.67**	**18.92**	**83.84**	**88.58**
03-Sep-19 08:00:00	03-Sep-19 09:00:00		13.95	0.00	0.00	5.22	2.1	329.7		4.60	0.00	0.00	1.72		10.35	18.92	83.84	86.68	03-Sep-19 08:00:00		**14.95**	**18.92**	**83.84**	**88.40**
03-Sep-19 09:00:00	03-Sep-19 10:00:00		8.71	0.00	0.00	4.98	2.1	329.7		2.87	0.00	0.00	1.64		10.35	18.92	83.84	86.68	03-Sep-19 09:00:00		**13.22**	**18.92**	**83.84**	**88.32**
03-Sep-19 10:00:00	03-Sep-19 11:00:00		12.99	0.00	0.00	4.74	2.1	329.7		4.28	0.00	0.00	1.56		10.35	18.92	83.84	86.68	03-Sep-19 10:00:00		**14.63**	**18.92**	**83.84**	**88.24**
03-Sep-19 11:00:00	03-Sep-19 12:00:00		12.14	0.00	0.00	4.49	2.1	329.7		4.00	0.00	0.00	1.48		10.35	18.92	83.84	86.68	03-Sep-19 11:00:00		**14.35**	**18.92**	**83.84**	**88.16**
03-Sep-19 12:00:00	03-Sep-19 13:00:00		41.08	0.00	0.00	4.38	2.1	329.7		13.54	0.00	0.00	1.44		10.35	18.92	83.84	86.68	03-Sep-19 12:00:00		**23.89**	**18.92**	**83.84**	**88.12**
03-Sep-19 13:00:00	03-Sep-19 14:00:00		35.86	0.00	0.00	4.29	2.1	329.7		11.82	0.00	0.00	1.41		10.35	18.92	83.84	86.68	03-Sep-19 13:00:00		**22.17**	**18.92**	**83.84**	**88.09**
03-Sep-19 14:00:00	03-Sep-19 15:00:00		4.38	0.00	0.00	4.19	2.1	329.7		1.45	0.00	0.00	1.38		10.35	18.92	83.84	86.68	03-Sep-19 14:00:00		**11.80**	**18.92**	**83.84**	**88.06**
03-Sep-19 15:00:00	03-Sep-19 16:00:00		1.16	0.00	0.00	4.13	2.1	329.7		0.38	0.00	0.00	1.36		10.35	18.92	83.84	86.68	03-Sep-19 15:00:00		**10.73**	**18.92**	**83.84**	**88.04**
03-Sep-19 16:00:00	03-Sep-19 17:00:00		2.82	0.00	0.00	4.10	2.1	329.7		0.93	0.00	0.00	1.35		10.35	18.92	83.84	86.68	03-Sep-19 16:00:00		**11.28**	**18.92**	**83.84**	**88.03**
03-Sep-19 17:00:00	03-Sep-19 18:00:00		4.26	0.00	0.00	4.07	2.1	329.7		1.40	0.00	0.00	1.34		10.35	18.92	83.84	86.68	03-Sep-19 17:00:00		**11.75**	**18.92**	**83.84**	**88.02**
03-Sep-19 18:00:00	03-Sep-19 19:00:00		1.30	0.00	0.00	31.45	2.1	329.7		0.43	0.00	0.00	10.37		10.35	18.92	83.84	86.68	03-Sep-19 18:00:00		**10.78**	**18.92**	**83.84**	**97.05**
03-Sep-19 19:00:00	03-Sep-19 20:00:00		1.76	0.00	0.00	4.32	2.1	329.7		0.58	0.00	0.00	1.42		10.35	18.92	83.84	86.68	03-Sep-19 19:00:00		**10.93**	**18.92**	**83.84**	**88.10**
03-Sep-19 20:00:00	03-Sep-19 21:00:00		0.72	0.00	0.00	4.43	2.1	329.7		0.24	0.00	0.00	1.46		10.35	18.92	83.84	86.68	03-Sep-19 20:00:00		**10.59**	**18.92**	**83.84**	**88.14**
03-Sep-19 21:00:00	03-Sep-19 22:00:00		2.90	0.00	0.00	4.55	2.1	329.7		0.96	0.00	0.00	1.50		10.35	18.92	83.84	86.68	03-Sep-19 21:00:00		**11.31**	**18.92**	**83.84**	**88.18**
03-Sep-19 22:00:00	03-Sep-19 23:00:00		3.72	0.00	0.00	4.73	2.1	329.7		1.23	0.00	0.00	1.56		10.35	18.92	83.84	86.68	03-Sep-19 22:00:00		**11.58**	**18.92**	**83.84**	**88.24**
03-Sep-19 23:00:00	04-Sep-19 00:00:00		10.67	0.00	0.00	12.25	2.1	329.7		3.52	0.00	0.00	4.04		10.35	18.92	83.84	86.68	03-Sep-19 23:00:00		**13.87**	**18.92**	**83.84**	**90.72**
04-Sep-19 00:00:00	04-Sep-19 01:00:00		18.66	0.00	0.00	5.09	2.1	329.7		6.15	0.00	0.00	1.68		10.35	18.92	83.84	86.68	04-Sep-19 00:00:00		**16.50**	**18.92**	**83.84**	**88.36**
04-Sep-19 01:00:00	04-Sep-19 02:00:00		1.06	0.00	0.00	5.13	2.1	329.7		0.35	0.00	0.00	1.69		10.35	18.92	83.84	86.68	04-Sep-19 01:00:00		**10.70**	**18.92**	**83.84**	**88.37**
04-Sep-19 02:00:00	04-Sep-19 03:00:00		0.57	0.00	0.00	5.17	2.1	329.7		0.19	0.00	0.00	1.70		10.35	18.92	83.84	86.68	04-Sep-19 02:00:00		**10.54**	**18.92**	**83.84**	**88.38**
04-Sep-19 03:00:00	04-Sep-19 04:00:00		9.39	0.00	0.00	5.22	2.1	329.7		3.10	0.00	0.00	1.72		10.35	18.92	83.84	86.68	04-Sep-19 03:00:00		**13.45**	**18.92**	**83.84**	**88.40**
04-Sep-19 04:00:00	04-Sep-19 05:00:00		7.87	0.00	0.00	11.21	2.1	329.7		2.60	0.00	0.00	3.70		10.35	18.92	83.84	86.68	04-Sep-19 04:00:00		**12.95**	**18.92**	**83.84**	**90.38**
04-Sep-19 05:00:00	04-Sep-19 06:00:00		4.39	0.00	0.00	5.60	2.1	329.7		1.45	0.00	0.00	1.85		10.35	18.92	83.84	86.68	04-Sep-19 05:00:00		**11.80**	**18.92**	**83.84**	**88.53**
04-Sep-19 06:00:00	04-Sep-19 07:00:00		2.23	0.00	0.00	5.64	2.1	329.7		0.74	0.00	0.00	1.86		10.35	18.92	83.84	86.68	04-Sep-19 06:00:00		**11.09**	**18.92**	**83.84**	**88.54**
04-Sep-19 07:00:00	04-Sep-19 08:00:00		3.01	0.00	0.00	5.67	2.1	329.7		0.99	0.00	0.00	1.87		10.35	18.92	83.84	86.68	04-Sep-19 07:00:00		**11.34**	**18.92**	**83.84**	**88.55**
04-Sep-19 08:00:00	04-Sep-19 09:00:00		3.00	0.00	0.00	5.71	2.1	329.7		0.99	0.00	0.00	1.88		10.35	18.92	83.84	86.68	04-Sep-19 08:00:00		**11.34**	**18.92**	**83.84**	**88.56**
04-Sep-19 09:00:00	04-Sep-19 10:00:00		2.98	0.00	0.00	5.59	2.1	329.7		0.98	0.00	0.00	1.84		10.35	18.92	83.84	86.68	04-Sep-19 09:00:00		**11.33**	**18.92**	**83.84**	**88.52**
04-Sep-19 10:00:00	04-Sep-19 11:00:00		4.31	0.00	0.00	14.65	2.1	329.7		1.42	0.00	0.00	4.83		10.35	18.92	83.84	86.68	04-Sep-19 10:00:00		**11.77**	**18.92**	**83.84**	**91.51**
04-Sep-19 11:00:00	04-Sep-19 12:00:00		8.95	0.00	0.00	5.00	2.1	329.7		2.95	0.00	0.00	1.65		10.35	18.92	83.84	86.68	04-Sep-19 11:00:00		**13.30**	**18.92**	**83.84**	**88.33**
04-Sep-19 12:00:00	04-Sep-19 13:00:00		17.56	0.00	0.00	4.73	2.1	329.7		5.79	0.00	0.00	1.56		10.35	18.92	83.84	86.68	04-Sep-19 12:00:00		**16.14**	**18.92**	**83.84**	**88.24**
04-Sep-19 13:00:00	04-Sep-19 14:00:00		8.39	0.00	0.00	4.47	2.1	329.7		2.77	0.00	0.00	1.47		10.35	18.92	83.84	86.68	04-Sep-19 13:00:00		**13.12**	**18.92**	**83.84**	**88.15**
04-Sep-19 14:00:00	04-Sep-19 15:00:00		1.63	0.00	0.00	4.24	2.1	329.7		0.54	0.00	0.00	1.40		10.35	18.92	83.84	86.68	04-Sep-19 14:00:00		**10.89**	**18.92**	**83.84**	**88.08**
04-Sep-19 15:00:00	04-Sep-19 16:00:00		2.37	0.00	0.00	8.31	2.1	329.7		0.78	0.00	0.00	2.74		10.35	18.92	83.84	86.68	04-Sep-19 15:00:00		**11.13**	**18.92**	**83.84**	**89.42**
04-Sep-19 16:00:00	04-Sep-19 17:00:00		0.00	0.00	0.00	4.33	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	04-Sep-19 16:00:00		**10.35**	**18.92**	**83.84**	**88.11**
04-Sep-19 17:00:00	04-Sep-19 18:00:00		0.00	0.00	0.00	4.35	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	04-Sep-19 17:00:00		**10.35**	**18.92**	**83.84**	**88.11**
04-Sep-19 18:00:00	04-Sep-19 19:00:00		0.00	0.00	0.00	4.37	2.1	329.7		0.00	0.00	0.00	1.44		10.35	18.92	83.84	86.68	04-Sep-19 18:00:00		**10.35**	**18.92**	**83.84**	**88.12**
04-Sep-19 19:00:00	04-Sep-19 20:00:00		0.00	0.00	0.00	4.55	2.1	329.7		0.00	0.00	0.00	1.50		10.35	18.92	83.84	86.68	04-Sep-19 19:00:00		**10.35**	**18.92**	**83.84**	**88.18**
04-Sep-19 20:00:00	04-Sep-19 21:00:00		0.00	0.00	0.00	12.49	2.1	329.7		0.00	0.00	0.00	4.12		10.35	18.92	83.84	86.68	04-Sep-19 20:00:00		**10.35**	**18.92**	**83.84**	**90.80**
04-Sep-19 21:00:00	04-Sep-19 22:00:00		0.00	0.00	2.92	4.85	2.1	329.7		0.00	0.00	0.96	1.60		10.35	18.92	83.84	86.68	04-Sep-19 21:00:00		**10.35**	**18.92**	**84.80**	**88.28**
04-Sep-19 22:00:00	04-Sep-19 23:00:00		0.00	0.00	0.00	5.01	2.1	329.7		0.00	0.00	0.00	1.65		10.35	18.92	83.84	86.68	04-Sep-19 22:00:00		**10.35**	**18.92**	**83.84**	**88.33**
04-Sep-19 23:00:00	05-Sep-19 00:00:00		0.00	0.00	0.00	5.16	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	04-Sep-19 23:00:00		**10.35**	**18.92**	**83.84**	**88.38**
05-Sep-19 00:00:00	05-Sep-19 01:00:00		2.79	0.00	0.00	5.27	2.1	329.7		0.92	0.00	0.00	1.74		10.35	18.92	83.84	86.68	05-Sep-19 00:00:00		**11.27**	**18.92**	**83.84**	**88.42**
05-Sep-19 01:00:00	05-Sep-19 02:00:00		9.71	0.00	0.00	18.29	2.1	329.7		3.20	0.00	0.00	6.03		10.35	18.92	83.84	86.68	05-Sep-19 01:00:00		**13.55**	**18.92**	**83.84**	**92.71**
05-Sep-19 02:00:00	05-Sep-19 03:00:00		2.08	0.00	0.00	5.22	2.1	329.7		0.69	0.00	0.00	1.72		10.35	18.92	83.84	86.68	05-Sep-19 02:00:00		**11.04**	**18.92**	**83.84**	**88.40**
05-Sep-19 03:00:00	05-Sep-19 04:00:00		0.00	0.00	0.00	5.23	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	05-Sep-19 03:00:00		**10.35**	**18.92**	**83.84**	**88.40**
05-Sep-19 04:00:00	05-Sep-19 05:00:00		0.00	0.00	0.00	5.23	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	05-Sep-19 04:00:00		**10.35**	**18.92**	**83.84**	**88.41**
05-Sep-19 05:00:00	05-Sep-19 06:00:00		0.00	0.00	0.00	5.24	2.1	329.7		0.00	0.00	0.00	1.73		10.35	18.92	83.84	86.68	05-Sep-19 05:00:00		**10.35**	**18.92**	**83.84**	**88.41**
05-Sep-19 06:00:00	05-Sep-19 07:00:00		3.55	0.00	0.00	37.20	2.1	329.7		1.17	0.00	0.00	12.27		10.35	18.92	83.84	86.68	05-Sep-19 06:00:00		**11.52**	**18.92**	**83.84**	**98.95**
05-Sep-19 07:00:00	05-Sep-19 08:00:00		4.23	0.00	0.00	5.29	2.1	329.7		1.39	0.00	0.00	1.74		10.35	18.92	83.84	86.68	05-Sep-19 07:00:00		**11.74**	**18.92**	**83.84**	**88.42**
05-Sep-19 08:00:00	05-Sep-19 09:00:00		0.00	0.00	0.00	5.30	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	05-Sep-19 08:00:00		**10.35**	**18.92**	**83.84**	**88.43**
05-Sep-19 09:00:00	05-Sep-19 10:00:00		0.00	0.00	0.00	9.23	2.1	329.7		0.00	0.00	0.00	3.04		10.35	18.92	83.84	86.68	05-Sep-19 09:00:00		**10.35**	**18.92**	**83.84**	**89.72**
05-Sep-19 10:00:00	05-Sep-19 11:00:00		0.00	0.00	0.00	5.35	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	05-Sep-19 10:00:00		**10.35**	**18.92**	**83.84**	**88.44**
05-Sep-19 11:00:00	05-Sep-19 12:00:00		0.00	0.00	0.00	5.52	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	05-Sep-19 11:00:00		**10.35**	**18.92**	**83.84**	**88.50**
05-Sep-19 12:00:00	05-Sep-19 13:00:00		0.37	0.00	0.00	5.70	2.1	329.7		0.12	0.00	0.00	1.88		10.35	18.92	83.84	86.68	05-Sep-19 12:00:00		**10.47**	**18.92**	**83.84**	**88.56**
05-Sep-19 13:00:00	05-Sep-19 14:00:00		1.44	0.00	0.00	5.86	2.1	329.7		0.48	0.00	0.00	1.93		10.35	18.92	83.84	86.68	05-Sep-19 13:00:00		**10.83**	**18.92**	**83.84**	**88.61**
05-Sep-19 14:00:00	05-Sep-19 15:00:00		0.00	0.00	0.00	5.86	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	05-Sep-19 14:00:00		**10.35**	**18.92**	**83.84**	**88.61**
05-Sep-19 15:00:00	05-Sep-19 16:00:00		0.00	0.00	0.00	5.84	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	05-Sep-19 15:00:00		**10.35**	**18.92**	**83.84**	**88.60**
05-Sep-19 16:00:00	05-Sep-19 17:00:00		0.00	0.00	0.00	5.81	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	05-Sep-19 16:00:00		**10.35**	**18.92**	**83.84**	**88.60**
05-Sep-19 17:00:00	05-Sep-19 18:00:00		0.00	0.00	0.00	5.80	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	05-Sep-19 17:00:00		**10.35**	**18.92**	**83.84**	**88.59**
05-Sep-19 18:00:00	05-Sep-19 19:00:00		0.00	0.00	0.00	5.89	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	05-Sep-19 18:00:00		**10.35**	**18.92**	**83.84**	**88.62**
05-Sep-19 19:00:00	05-Sep-19 20:00:00		0.00	0.00	0.00	5.96	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	05-Sep-19 19:00:00		**10.35**	**18.92**	**83.84**	**88.65**
05-Sep-19 20:00:00	05-Sep-19 21:00:00		0.00	0.00	0.00	6.03	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	05-Sep-19 20:00:00		**10.35**	**18.92**	**83.84**	**88.67**
05-Sep-19 21:00:00	05-Sep-19 22:00:00		0.00	0.00	0.00	6.09	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	05-Sep-19 21:00:00		**10.35**	**18.92**	**83.84**	**88.69**
05-Sep-19 22:00:00	05-Sep-19 23:00:00		0.00	0.00	0.00	6.07	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	05-Sep-19 22:00:00		**10.35**	**18.92**	**83.84**	**88.68**
05-Sep-19 23:00:00	06-Sep-19 00:00:00		0.00	0.00	0.00	6.10	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	05-Sep-19 23:00:00		**10.35**	**18.92**	**83.84**	**88.69**
06-Sep-19 00:00:00	06-Sep-19 01:00:00		0.00	0.00	0.00	6.13	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	06-Sep-19 00:00:00		**10.35**	**18.92**	**83.84**	**88.70**
06-Sep-19 01:00:00	06-Sep-19 02:00:00		0.00	0.00	0.00	6.14	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	06-Sep-19 01:00:00		**10.35**	**18.92**	**83.84**	**88.71**
06-Sep-19 02:00:00	06-Sep-19 03:00:00		0.00	0.00	0.00	6.16	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	06-Sep-19 02:00:00		**10.35**	**18.92**	**83.84**	**88.71**
06-Sep-19 03:00:00	06-Sep-19 04:00:00		0.00	0.00	0.00	6.23	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	06-Sep-19 03:00:00		**10.35**	**18.92**	**83.84**	**88.73**
06-Sep-19 04:00:00	06-Sep-19 05:00:00		0.00	0.00	0.00	6.30	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	06-Sep-19 04:00:00		**10.35**	**18.92**	**83.84**	**88.76**
06-Sep-19 05:00:00	06-Sep-19 06:00:00		0.00	0.00	0.00	6.32

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
08-Sep-19 07:00:00	08-Sep-19 08:00:00		17.70	0.00	0.00	6.18	2.1	329.7		5.84	0.00	0.00	2.04		10.35	18.92	83.84	86.68	08-Sep-19 07:00:00		16.19	18.92	83.84	88.72
08-Sep-19 08:00:00	08-Sep-19 09:00:00		21.89	0.00	0.00	6.05	2.1	329.7		7.22	0.00	0.00	1.99		10.35	18.92	83.84	86.68	08-Sep-19 08:00:00		17.57	18.92	83.84	88.67
08-Sep-19 09:00:00	08-Sep-19 10:00:00		17.02	0.00	0.00	5.92	2.1	329.7		5.61	0.00	0.00	1.95		10.35	18.92	83.84	86.68	08-Sep-19 09:00:00		15.96	18.92	83.84	88.63
08-Sep-19 10:00:00	08-Sep-19 11:00:00		16.28	0.00	0.00	5.76	2.1	329.7		5.37	0.00	0.00	1.90		10.35	18.92	83.84	86.68	08-Sep-19 10:00:00		15.72	18.92	83.84	88.58
08-Sep-19 11:00:00	08-Sep-19 12:00:00		238.43	0.00	0.00	5.47	2.1	329.7		78.61	0.00	0.00	1.80		10.35	18.92	83.84	86.68	08-Sep-19 11:00:00		88.96	18.92	83.84	88.48
08-Sep-19 12:00:00	08-Sep-19 13:00:00		406.89	0.00	0.00	58.94	2.1	329.7		134.15	0.00	0.00	19.43		10.35	18.92	83.84	86.68	08-Sep-19 12:00:00		144.50	18.92	83.84	106.11
08-Sep-19 13:00:00	08-Sep-19 14:00:00		3.91	0.00	0.00	5.04	2.1	329.7		1.29	0.00	0.00	1.66		10.35	18.92	83.84	86.68	08-Sep-19 13:00:00		11.64	18.92	83.84	88.34
08-Sep-19 14:00:00	08-Sep-19 15:00:00		16.85	0.00	0.00	4.86	2.1	329.7		5.56	0.00	0.00	1.60		10.35	18.92	83.84	86.68	08-Sep-19 14:00:00		15.91	18.92	83.84	88.28
08-Sep-19 15:00:00	08-Sep-19 16:00:00		6.49	0.00	0.00	4.69	2.1	329.7		2.14	0.00	0.00	1.55		10.35	18.92	83.84	86.68	08-Sep-19 15:00:00		12.49	18.92	83.84	88.23
08-Sep-19 16:00:00	08-Sep-19 17:00:00		0.00	0.00	0.00	4.51	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	08-Sep-19 16:00:00		10.35	18.92	83.84	88.17
08-Sep-19 17:00:00	08-Sep-19 18:00:00		0.00	0.00	0.00	6.16	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	08-Sep-19 17:00:00		10.35	18.92	83.84	88.71
08-Sep-19 18:00:00	08-Sep-19 19:00:00		0.00	0.00	0.00	4.62	2.1	329.7		0.00	0.00	0.00	1.52		10.35	18.92	83.84	86.68	08-Sep-19 18:00:00		10.35	18.92	83.84	88.20
08-Sep-19 19:00:00	08-Sep-19 20:00:00		0.00	0.00	0.00	4.65	2.1	329.7		0.00	0.00	0.00	1.53		10.35	18.92	83.84	86.68	08-Sep-19 19:00:00		10.35	18.92	83.84	88.21
08-Sep-19 20:00:00	08-Sep-19 21:00:00		0.00	0.00	0.00	4.69	2.1	329.7		0.00	0.00	0.00	1.54		10.35	18.92	83.84	86.68	08-Sep-19 20:00:00		10.35	18.92	83.84	88.22
08-Sep-19 21:00:00	08-Sep-19 22:00:00		1.65	0.00	0.00	4.74	2.1	329.7		0.54	0.00	0.00	1.56		10.35	18.92	83.84	86.68	08-Sep-19 21:00:00		10.89	18.92	83.84	88.24
08-Sep-19 22:00:00	08-Sep-19 23:00:00		4.76	0.00	0.00	5.12	2.1	329.7		1.57	0.00	0.00	1.69		10.35	18.92	83.84	86.68	08-Sep-19 22:00:00		11.92	18.92	83.84	88.37
08-Sep-19 23:00:00	09-Sep-19 00:00:00		9.83	0.00	0.00	16.35	2.1	329.7		3.24	0.00	0.00	5.39		10.35	18.92	83.84	86.68	08-Sep-19 23:00:00		13.59	18.92	83.84	92.07
09-Sep-19 00:00:00	09-Sep-19 01:00:00		2.17	0.00	0.00	5.78	2.1	329.7		0.71	0.00	0.00	1.90		10.35	18.92	83.84	86.68	09-Sep-19 00:00:00		11.06	18.92	83.84	88.58
09-Sep-19 01:00:00	09-Sep-19 02:00:00		5.51	0.00	0.00	5.78	2.1	329.7		1.82	0.00	0.00	1.90		10.35	18.92	83.84	86.68	09-Sep-19 01:00:00		12.17	18.92	83.84	88.58
09-Sep-19 02:00:00	09-Sep-19 03:00:00		16.29	0.00	0.00	5.78	2.1	329.7		5.37	0.00	0.00	1.90		10.35	18.92	83.84	86.68	09-Sep-19 02:00:00		15.72	18.92	83.84	88.58
09-Sep-19 03:00:00	09-Sep-19 04:00:00		8.68	0.00	0.00	5.80	2.1	329.7		2.86	0.00	0.00	1.91		10.35	18.92	83.84	86.68	09-Sep-19 03:00:00		13.21	18.92	83.84	88.59
09-Sep-19 04:00:00	09-Sep-19 05:00:00		12.99	0.00	0.00	125.53	2.1	329.7		4.28	0.00	0.00	41.39		10.35	18.92	83.84	86.68	09-Sep-19 04:00:00		14.63	18.92	83.84	128.07
09-Sep-19 05:00:00	09-Sep-19 06:00:00		7.48	0.00	0.00	5.95	2.1	329.7		2.47	0.00	0.00	1.96		10.35	18.92	83.84	86.68	09-Sep-19 05:00:00		12.82	18.92	83.84	88.64
09-Sep-19 06:00:00	09-Sep-19 07:00:00		14.19	0.00	0.00	5.91	2.1	329.7		4.68	0.00	0.00	1.95		10.35	18.92	83.84	86.68	09-Sep-19 06:00:00		15.03	18.92	83.84	88.63
09-Sep-19 07:00:00	09-Sep-19 08:00:00		13.93	0.00	0.00	5.87	2.1	329.7		4.59	0.00	0.00	1.94		10.35	18.92	83.84	86.68	09-Sep-19 07:00:00		14.94	18.92	83.84	88.62
09-Sep-19 08:00:00	09-Sep-19 09:00:00		13.98	0.00	0.00	5.91	2.1	329.7		4.61	0.00	0.00	1.95		10.35	18.92	83.84	86.68	09-Sep-19 08:00:00		14.96	18.92	83.84	88.63
09-Sep-19 09:00:00	09-Sep-19 10:00:00		14.03	0.00	0.00	35.44	2.1	329.7		4.63	0.00	0.00	11.69		10.35	18.92	83.84	86.68	09-Sep-19 09:00:00		14.98	18.92	83.84	98.37
09-Sep-19 10:00:00	09-Sep-19 11:00:00		14.01	0.00	0.00	6.05	2.1	329.7		4.62	0.00	0.00	1.99		10.35	18.92	83.84	86.68	09-Sep-19 10:00:00		14.97	18.92	83.84	88.67
09-Sep-19 11:00:00	09-Sep-19 12:00:00		8.42	0.00	0.00	5.75	2.1	329.7		2.78	0.00	0.00	1.90		10.35	18.92	83.84	86.68	09-Sep-19 11:00:00		13.13	18.92	83.84	88.58
09-Sep-19 12:00:00	09-Sep-19 13:00:00		6.63	0.00	0.00	5.45	2.1	329.7		2.18	0.00	0.00	1.80		10.35	18.92	83.84	86.68	09-Sep-19 12:00:00		12.53	18.92	83.84	88.48
09-Sep-19 13:00:00	09-Sep-19 14:00:00		9.09	0.00	0.00	5.15	2.1	329.7		3.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	09-Sep-19 13:00:00		13.35	18.92	83.84	88.38
09-Sep-19 14:00:00	09-Sep-19 15:00:00		2.27	0.00	0.00	119.34	2.1	329.7		0.75	0.00	0.00	39.35		10.35	18.92	83.84	86.68	09-Sep-19 14:00:00		11.10	18.92	83.84	126.03
09-Sep-19 15:00:00	09-Sep-19 16:00:00		2.97	0.00	0.00	4.93	2.1	329.7		0.98	0.00	0.00	1.63		10.35	18.92	83.84	86.68	09-Sep-19 15:00:00		11.33	18.92	83.84	88.31
09-Sep-19 16:00:00	09-Sep-19 17:00:00		4.76	0.00	0.00	4.73	2.1	329.7		1.57	0.00	0.00	1.56		10.35	18.92	83.84	86.68	09-Sep-19 16:00:00		11.92	18.92	83.84	88.24
09-Sep-19 17:00:00	09-Sep-19 18:00:00		0.00	0.00	0.00	4.52	2.1	329.7		0.00	0.00	0.00	1.49		10.35	18.92	83.84	86.68	09-Sep-19 17:00:00		10.35	18.92	83.84	88.17
09-Sep-19 18:00:00	09-Sep-19 19:00:00		0.00	0.00	0.00	4.32	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	09-Sep-19 18:00:00		10.35	18.92	83.84	88.11
09-Sep-19 19:00:00	09-Sep-19 20:00:00		0.00	0.00	0.00	51.20	2.1	329.7		0.00	0.00	0.00	16.88		10.35	18.92	83.84	86.68	09-Sep-19 19:00:00		10.35	18.92	83.84	103.56
09-Sep-19 20:00:00	09-Sep-19 21:00:00		0.35	0.00	0.00	4.69	2.1	329.7		0.12	0.00	0.00	1.55		10.35	18.92	83.84	86.68	09-Sep-19 20:00:00		10.47	18.92	83.84	88.23
09-Sep-19 21:00:00	09-Sep-19 22:00:00		8.84	0.00	0.00	5.00	2.1	329.7		2.91	0.00	0.00	1.65		10.35	18.92	83.84	86.68	09-Sep-19 21:00:00		13.26	18.92	83.84	88.33
09-Sep-19 22:00:00	09-Sep-19 23:00:00		23.59	0.00	0.00	5.30	2.1	329.7		7.78	0.00	0.00	1.75		10.35	18.92	83.84	86.68	09-Sep-19 22:00:00		18.13	18.92	83.84	88.43
09-Sep-19 23:00:00	10-Sep-19 00:00:00		8.17	0.00	0.00	5.61	2.1	329.7		2.69	0.00	0.00	1.85		10.35	18.92	83.84	86.68	09-Sep-19 23:00:00		13.04	18.92	83.84	88.53
10-Sep-19 00:00:00	10-Sep-19 01:00:00		4.74	0.00	0.00	78.19	2.1	329.7		1.56	0.00	0.00	25.78		10.35	18.92	83.84	86.68	10-Sep-19 00:00:00		11.91	18.92	83.84	112.46
10-Sep-19 01:00:00	10-Sep-19 02:00:00		10.35	0.00	0.00	7.96	2.1	329.7		3.41	0.00	0.00	2.62		10.35	18.92	83.84	86.68	10-Sep-19 01:00:00		13.76	18.92	83.84	89.30
10-Sep-19 02:00:00	10-Sep-19 03:00:00		1.49	0.00	0.00	5.84	2.1	329.7		0.49	0.00	0.00	1.93		10.35	18.92	83.84	86.68	10-Sep-19 02:00:00		10.84	18.92	83.84	88.61
10-Sep-19 03:00:00	10-Sep-19 04:00:00		1.95	0.00	0.00	5.84	2.1	329.7		0.64	0.00	0.00	1.93		10.35	18.92	83.84	86.68	10-Sep-19 03:00:00		10.99	18.92	83.84	88.61
10-Sep-19 04:00:00	10-Sep-19 05:00:00		2.21	0.00	0.00	5.84	2.1	329.7		0.73	0.00	0.00	1.93		10.35	18.92	83.84	86.68	10-Sep-19 04:00:00		11.08	18.92	83.84	88.61
10-Sep-19 05:00:00	10-Sep-19 06:00:00		8.01	0.00	0.00	5.77	2.1	329.7		2.64	0.00	0.00	1.90		10.35	18.92	83.84	86.68	10-Sep-19 05:00:00		12.99	18.92	83.84	88.58
10-Sep-19 06:00:00	10-Sep-19 07:00:00		2.45	0.00	0.00	45.75	2.1	329.7		0.81	0.00	0.00	15.08		10.35	18.92	83.84	86.68	10-Sep-19 06:00:00		11.16	18.92	83.84	101.76
10-Sep-19 07:00:00	10-Sep-19 08:00:00		1.75	0.00	0.00	5.78	2.1	329.7		0.58	0.00	0.00	1.91		10.35	18.92	83.84	86.68	10-Sep-19 07:00:00		10.93	18.92	83.84	88.59
10-Sep-19 08:00:00	10-Sep-19 09:00:00		1.05	0.00	0.00	5.81	2.1	329.7		0.34	0.00	0.00	1.92		10.35	18.92	83.84	86.68	10-Sep-19 08:00:00		10.69	18.92	83.84	88.60
10-Sep-19 09:00:00	10-Sep-19 10:00:00		0.34	0.00	0.00	5.85	2.1	329.7		0.11	0.00	0.00	1.93		10.35	18.92	83.84	86.68	10-Sep-19 09:00:00		10.46	18.92	83.84	88.61
10-Sep-19 10:00:00	10-Sep-19 11:00:00		0.00	0.00	0.00	5.72	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	10-Sep-19 10:00:00		10.35	18.92	83.84	88.57
10-Sep-19 11:00:00	10-Sep-19 12:00:00		0.00	0.00	0.00	180.32	2.1	329.7		0.00	0.00	0.00	59.45		10.35	18.92	83.84	86.68	10-Sep-19 11:00:00		10.35	18.92	83.84	146.13
10-Sep-19 12:00:00	10-Sep-19 13:00:00		2.80	0.00	0.00	5.18	2.1	329.7		0.92	0.00	0.00	1.71		10.35	18.92	83.84	86.68	10-Sep-19 12:00:00		11.27	18.92	83.84	88.39
10-Sep-19 13:00:00	10-Sep-19 14:00:00		6.69	0.00	0.00	5.03	2.1	329.7		2.21	0.00	0.00	1.66		10.35	18.92	83.84	86.68	10-Sep-19 13:00:00		12.56	18.92	83.84	88.34
10-Sep-19 14:00:00	10-Sep-19 15:00:00		6.75	0.00	0.00	4.88	2.1	329.7		2.22	0.00	0.00	1.61		10.35	18.92	83.84	86.68	10-Sep-19 14:00:00		12.57	18.92	83.84	88.29
10-Sep-19 15:00:00	10-Sep-19 16:00:00		0.15	0.00	0.00	4.74	2.1	329.7		0.05	0.00	0.00	1.56		10.35	18.92	83.84	86.68	10-Sep-19 15:00:00		10.40	18.92	83.84	88.24
10-Sep-19 16:00:00	10-Sep-19 17:00:00		0.00	0.00	0.00	19.69	2.1	329.7		0.00	0.00	0.00	6.49		10.35	18.92	83.84	86.68	10-Sep-19 16:00:00		10.35	18.92	83.84	93.17
10-Sep-19 17:00:00	10-Sep-19 18:00:00		0.00	0.00	0.00	4.72	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	10-Sep-19 17:00:00		10.35	18.92	83.84	88.24
10-Sep-19 18:00:00	10-Sep-19 19:00:00		0.00	0.00	0.00	4.88	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	10-Sep-19 18:00:00		10.35	18.92	83.84	88.29
10-Sep-19 19:00:00	10-Sep-19 20:00:00		0.00	0.00	0.00	5.03	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	10-Sep-19 19:00:00		10.35	18.92	83.84	88.34
10-Sep-19 20:00:00	10-Sep-19 21:00:00		0.47	0.00	0.00	5.18	2.1	329.7		0.15	0.00	0.00	1.71		10.35	18.92	83.84	86.68	10-Sep-19 20:00:00		10.50	18.92	83.84	88.39
10-Sep-19 21:00:00	10-Sep-19 22:00:00		1.66	0.00	0.00	5.28	2.1	329.7		0.55	0.00	0.00	1.74		10.35	18.92	83.84	86.68	10-Sep-19 21:00:00		10.90	18.92	83.84	88.42
10-Sep-19 22:00:00	10-Sep-19 23:00:00		7.44	0.00	0.00	13.57	2.1	329.7		2.45	0.00	0.00	4.47		10.35	18.92	83.84	86.68	10-Sep-19 22:00:00		12.80	18.92	83.84	91.15
10-Sep-19 23:00:00	11-Sep-19 00:00:00		9.80	0.00	0.00	5.55	2.1	329.7		3.23	0.00	0.00	1.83		10.35	18.92	83.84	86.68	10-Sep-19 23:00:00		13.58	18.92	83.84	88.51
11-Sep-19 00:00:00	11-Sep-19 01:00:00		317.43	0.00	0.00	5.64	2.1	329.7		104.66	0.00	0.00	1.86		10.35	18.92	83.84	86.68	11-Sep-19 00:00:00		115.01	18.92	83.84	88.54
11-Sep-19 01:00:00	11-Sep-19 02:00:00		715.79	0.00	0.00	5.73	2.1	329.7		236.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	11-Sep-19 01:00:00		246.35	18.92	83.84	88.57
11-Sep-19 02:00:00	11-Sep-19 03:00:00		333.53	0.00	0.00	5.94	2.1	329.7		109.96	0.00	0.00	1.96		10.35	18.92	83.84	86.68	11-Sep-19 02:00:00		120.31	18.92	83.84	88.64
11-Sep-19 03:00:00	11-Sep-19 04:00:00		275.34	0.00	0.00	25.53	2.1	329.7		90.78	0.00	0.00	8.42		10.35	18.92	83.84	86.68	11-Sep-19 03:00:00		101.13	18.92	83.84	95.10
11-Sep-19 04:00:00	11-Sep-19 05:00:00		253.94	0.00	0.00	80.75	2.1	329.7		83.72	0.00	0.00	26.62		10.35	18.92	83.84	86.68	11-Sep-19 04:00:00		94.07	18.92	83.84	113.30
11-Sep-19 05:00:00	11-Sep-19 06:00:00		169.58	0.00	0.00	116.19	2.1	329.7		55.91	0.00	0.00	38.31		10.35	18.92	83.84	86.68	11-Sep-19 05:00:00		66.26	18.92	83.84	124.99
11-Sep-19 06:00:00	11-Sep-19 07:00:00		13.04	0.00	0.00	309.29	2.1	329.7		4.30	0.00	0.00	101.97		10.35	18.92	83.84	86.68	11-Sep-19 06:00:00		14.65	18.92	83.84	188.65
11-Sep-19 07:00:00	11-Sep-19 08:00:00		17.81	0.00	0.00	6.06	2.1	329.7		5.87	0.00	0.00	2.00		10.35	18.92	83.84	86.68	11-Sep-19 07:00:00		16.22	18.92	83.84	88.68
11-Sep-19 08:00:00	11-Sep-19 09:00:00		18.69	0.00	0.00	279.64	2.1	329.7		6.16	0.00	0.00	92.20		10.35	18.92	83.84	86.68	11-Sep-19 08:00:00		16.51	18.92	83.84	178.88
11-Sep-19 09:00:00	11-Sep-19 10:00:00		19.00	0.00	0.00	5.64	2.1	329.7		6.27	0.00	0.00	1.86		10.35	18.92	83.84	86.68	11-Sep-19 09:00:00		16.62	18.92	83.84	88.54
11-Sep-19 10:00:00	11-Sep-19 11:00:00		19.88	0.00	0.00	242.81	2.1	329.7		6.56	0.00	0.00	80.05		10.35	18.92	83.84	86.68	11-Sep-19 10:00:00		16.91	18.92	83.84	166.73
11-Sep-19 11:00:00	11-Sep-19 12:00:00		13.86	0.00	0.00	5.31	2.1	329.7		4.57	0.00	0.00	1.75		10.35	18.92	83.84	86.68	11-Sep-19 11:00:00		14.92	18.92	83.84	88.43
11-Sep-19 12:00:00	11-Sep-19 13:00:00		8.94	0.00	0.00	74.34	2.1	329.7		2.95	0.00	0.00	24.51		10.35	18.92	83.84	86.68	11-Sep-19 12:00:00		13.30	18.92	83.84	111.19
11-Sep-19 13:00:00	11-Sep-19 14:00:00		12.80	0.00	0.00	6.69	2.1	329.7		4.22	0.00	0.00	2.21		10.35	18.92	83.84	86.68	11-Sep-19 13:00:00		14.57	18.92	83.84	88.89
11-Sep-19 14:00:00	11-Sep-19 15:00:00		7.23	0.00	0.00	4.72	2.1	329.7		2.38	0.00	0.00	1.55		10.35	18.92	83.84	86.68	11-Sep-19 14:00:00		12.73	18.92	83.84	88.23
11-Sep-19 15:00:00	11-Sep-19 16:00:00		3.07	0.00	0.00	56.27	2.1	329.7		1.01	0.00	0.00	18.55		10.35	18.92	83.84	86.68	11-Sep-19 15:00:00		11.36	18.92	83.84	105.23
11-Sep-19 16:00:00	11-Sep-19 17:00:00		14.27	0.00	0.00	4.83	2.1	329.7		4.70	0.00	0.00	1.59		10.35	18.92	83.84	86.68	11-Sep-19 16:00:00		15.05	18.92	83.84	88.27
11-Sep-19 17:00:00	11-Sep-19 18:00:00		14.26	0.00	0.00	4.83	2.1	329.7		4.70	0.00	0.00	1.59		10.35	18.92	83.84	86.68	11-Sep-19 17:00:00		15.05	18.92	83.84	88.27
11-Sep-19 18:00:00	11-Sep-19 19:00:00		22.76	0.00	0.00	4.82	2.1	329.7		7.50	0.00	0.00	1.59		10.35	18.92	83.84	86.68	11-Sep-19 18:00:00		17.85	18.92	83.84	88.27
11-Sep-19 19:00:00	11-Sep-19 20:00:00		25.17	0.00	0.00	75.64	2.1	329.7		8.30	0.00	0.00	24.94		10.35	18.92	83.84	86.68	11-Sep-19 19:00:00		18.65	18.92	83.84	111.62
11-Sep-19 20:00:00	11-Sep-19 21:00:00		29.45	0.00	0.00	5.07	2.1	329.7		9.71	0.00	0.00	1.67		10.35	18.92	83.84	86.68	11-Sep-19 20:00:00		20.06	18.92	83.84	88.35
11-Sep-19 21:00:00	11-Sep-19 22:00:00		73.14	0.00	0.00	5.34	2.1	329.7		24.11	0.00	0.00	1.76		10.35	18.92	83.84	86.68	11-Sep-19 21:00:00		34.46	18.92	83.84	88.44
11-Sep-19 22:00:00	11-Sep-19 23:00:00		223.57	0.00	0.00	5.61	2.1	329.7		73.71	0.00	0.00	1.85		10.35	18.92	83.84	86.68	11-Sep-19 22:00:00		84.06	18.92	83.84	88.53
11-Sep-19 23:00:00	12-Sep-19 00:00:00		228.24	0.00	0.00	48.76	2.1	329.7		75.25	0.00	0.00	16.08		10.35	18.92	83.84	86.68	11-Sep-19 23:00:00		85.60	18.92	83.84	102.76
12-Sep-19 00:00:00	12-Sep-19 01:00:00		292.86	0.00	0.00	4.71	2.1	329.7		96.55	0.00	0.00	1.55		10.35	18.92	83.84	86.68	12-Sep-19 00:00:00		106.90	18.92	83.84	88.23
12-Sep-19 01:00:00	12-Sep-19 02:00:00		289.50	0.00	0.00	5.30	2.1	329.7		95.45	0.00	0.00	1.75		10.35	18.92	83.84	86.68	12-Sep-19 01:00:00		105.80	18.92	83.84	88.43
12-Sep-19 02:00:00	12-Sep-19 03:00:00		254.04	0.00	0.00	197.25	2.1	329.7		83.76	0.00	0.00	65.03		10.35	18.92	83.84	86.68	12-Sep-19 02:00:00		94.11	18.92	83.84	151.71
12-Sep-19 03:00:00	12-Sep-19 04:00:00		28.17	0.00	0.00	7.20	2.1	329.7		9.29	0.00	0.00	2.37		10.35	18.92	83.84	86.68	12-Sep-19 03:00:00		19.64	18.92	83.84	89.05
12-Sep-19 04:00:00	12-Sep-19 05:00:00		30.97	0.00	0.00	120.09

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
14-Sep-19 06:00:00	14-Sep-19 07:00:00		1,146.83	0.00	0.00	104.41	2.1	329.7		378.11	0.00	0.00	34.42		10.35	18.92	83.84	86.68	14-Sep-19 06:00:00		388.46	18.92	83.84	121.10
14-Sep-19 07:00:00	14-Sep-19 08:00:00		1,180.70	0.00	0.00	6.92	2.1	329.7		389.28	0.00	0.00	2.28		10.35	18.92	83.84	86.68	14-Sep-19 07:00:00		399.63	18.92	83.84	88.96
14-Sep-19 08:00:00	14-Sep-19 09:00:00		1,164.36	0.00	0.00	58.75	2.1	329.7		383.89	0.00	0.00	19.37		10.35	18.92	83.84	86.68	14-Sep-19 08:00:00		394.24	18.92	83.84	106.05
14-Sep-19 09:00:00	14-Sep-19 10:00:00		1,041.32	0.00	0.00	6.74	2.1	329.7		343.32	0.00	0.00	2.22		10.35	18.92	83.84	86.68	14-Sep-19 09:00:00		353.67	18.92	83.84	88.90
14-Sep-19 10:00:00	14-Sep-19 11:00:00		924.59	0.00	0.00	6.59	2.1	329.7		304.84	0.00	0.00	2.17		10.35	18.92	83.84	86.68	14-Sep-19 10:00:00		315.19	18.92	83.84	88.85
14-Sep-19 11:00:00	14-Sep-19 12:00:00		860.95	0.00	0.00	6.44	2.1	329.7		283.85	0.00	0.00	2.12		10.35	18.92	83.84	86.68	14-Sep-19 11:00:00		294.20	18.92	83.84	88.80
14-Sep-19 12:00:00	14-Sep-19 13:00:00		839.62	0.00	0.00	6.29	2.1	329.7		276.82	0.00	0.00	2.08		10.35	18.92	83.84	86.68	14-Sep-19 12:00:00		287.17	18.92	83.84	88.76
14-Sep-19 13:00:00	14-Sep-19 14:00:00		838.66	0.00	0.00	6.14	2.1	329.7		276.51	0.00	0.00	2.03		10.35	18.92	83.84	86.68	14-Sep-19 13:00:00		286.86	18.92	83.84	88.71
14-Sep-19 14:00:00	14-Sep-19 15:00:00		853.77	0.00	0.00	5.99	2.1	329.7		281.49	0.00	0.00	1.98		10.35	18.92	83.84	86.68	14-Sep-19 14:00:00		291.84	18.92	83.84	88.66
14-Sep-19 15:00:00	14-Sep-19 16:00:00		923.85	0.00	0.00	15.04	2.1	329.7		304.59	0.00	0.00	4.96		10.35	18.92	83.84	86.68	14-Sep-19 15:00:00		314.94	18.92	83.84	91.64
14-Sep-19 16:00:00	14-Sep-19 17:00:00		1,166.62	0.00	0.00	5.75	2.1	329.7		384.63	0.00	0.00	1.90		10.35	18.92	83.84	86.68	14-Sep-19 16:00:00		394.98	18.92	83.84	88.58
14-Sep-19 17:00:00	14-Sep-19 18:00:00		1,010.96	0.00	0.00	27.01	2.1	329.7		333.31	0.00	0.00	8.90		10.35	18.92	83.84	86.68	14-Sep-19 17:00:00		343.66	18.92	83.84	95.58
14-Sep-19 18:00:00	14-Sep-19 19:00:00		559.76	0.00	0.00	5.71	2.1	329.7		184.55	0.00	0.00	1.88		10.35	18.92	83.84	86.68	14-Sep-19 18:00:00		194.90	18.92	83.84	88.56
14-Sep-19 19:00:00	14-Sep-19 20:00:00		554.40	0.00	0.00	5.67	2.1	329.7		182.79	0.00	0.00	1.87		10.35	18.92	83.84	86.68	14-Sep-19 19:00:00		193.14	18.92	83.84	88.55
14-Sep-19 20:00:00	14-Sep-19 21:00:00		570.53	0.00	0.00	5.63	2.1	329.7		188.10	0.00	0.00	1.86		10.35	18.92	83.84	86.68	14-Sep-19 20:00:00		198.45	18.92	83.84	88.54
14-Sep-19 21:00:00	14-Sep-19 22:00:00		566.83	0.00	0.00	8.73	2.1	329.7		186.88	0.00	0.00	2.88		10.35	18.92	83.84	86.68	14-Sep-19 21:00:00		197.23	18.92	83.84	89.56
14-Sep-19 22:00:00	14-Sep-19 23:00:00		582.18	0.00	0.00	6.29	2.1	329.7		191.94	0.00	0.00	2.07		10.35	18.92	83.84	86.68	14-Sep-19 22:00:00		202.29	18.92	83.84	88.75
14-Sep-19 23:00:00	15-Sep-19 00:00:00		581.19	0.00	0.00	5.90	2.1	329.7		191.62	0.00	0.00	1.95		10.35	18.92	83.84	86.68	14-Sep-19 23:00:00		201.97	18.92	83.84	88.63
15-Sep-19 00:00:00	15-Sep-19 01:00:00		583.63	0.00	0.00	6.04	2.1	329.7		192.42	0.00	0.00	1.99		10.35	18.92	83.84	86.68	15-Sep-19 00:00:00		202.77	18.92	83.84	88.67
15-Sep-19 01:00:00	15-Sep-19 02:00:00		577.02	0.00	0.00	6.17	2.1	329.7		190.24	0.00	0.00	2.03		10.35	18.92	83.84	86.68	15-Sep-19 01:00:00		200.59	18.92	83.84	88.71
15-Sep-19 02:00:00	15-Sep-19 03:00:00		580.39	0.00	0.00	6.27	2.1	329.7		191.36	0.00	0.00	2.07		10.35	18.92	83.84	86.68	15-Sep-19 02:00:00		201.71	18.92	83.84	88.75
15-Sep-19 03:00:00	15-Sep-19 04:00:00		574.72	0.00	0.00	6.22	2.1	329.7		189.49	0.00	0.00	2.05		10.35	18.92	83.84	86.68	15-Sep-19 03:00:00		199.84	18.92	83.84	88.73
15-Sep-19 04:00:00	15-Sep-19 05:00:00		576.49	0.00	0.00	6.26	2.1	329.7		190.07	0.00	0.00	2.06		10.35	18.92	83.84	86.68	15-Sep-19 04:00:00		200.42	18.92	83.84	88.74
15-Sep-19 05:00:00	15-Sep-19 06:00:00		579.58	0.00	0.00	6.30	2.1	329.7		191.09	0.00	0.00	2.08		10.35	18.92	83.84	86.68	15-Sep-19 05:00:00		201.44	18.92	83.84	88.76
15-Sep-19 06:00:00	15-Sep-19 07:00:00		585.00	0.00	0.00	7.14	2.1	329.7		192.87	0.00	0.00	2.35		10.35	18.92	83.84	86.68	15-Sep-19 06:00:00		203.22	18.92	83.84	89.03
15-Sep-19 07:00:00	15-Sep-19 08:00:00		558.32	0.00	0.00	39.40	2.1	329.7		184.08	0.00	0.00	12.99		10.35	18.92	83.84	86.68	15-Sep-19 07:00:00		194.43	18.92	83.84	99.67
15-Sep-19 08:00:00	15-Sep-19 09:00:00		553.72	0.00	0.00	11.45	2.1	329.7		182.56	0.00	0.00	3.77		10.35	18.92	83.84	86.68	15-Sep-19 08:00:00		192.91	18.92	83.84	90.45
15-Sep-19 09:00:00	15-Sep-19 10:00:00		548.30	0.00	0.00	21.89	2.1	329.7		180.77	0.00	0.00	7.22		10.35	18.92	83.84	86.68	15-Sep-19 09:00:00		191.12	18.92	83.84	93.90
15-Sep-19 10:00:00	15-Sep-19 11:00:00		676.62	0.00	0.00	10.27	2.1	329.7		223.08	0.00	0.00	3.39		10.35	18.92	83.84	86.68	15-Sep-19 10:00:00		233.43	18.92	83.84	90.07
15-Sep-19 11:00:00	15-Sep-19 12:00:00		729.51	0.00	0.00	5.82	2.1	329.7		240.52	0.00	0.00	1.92		10.35	18.92	83.84	86.68	15-Sep-19 11:00:00		250.87	18.92	83.84	88.60
15-Sep-19 12:00:00	15-Sep-19 13:00:00		574.58	0.00	0.00	5.65	2.1	329.7		189.44	0.00	0.00	1.86		10.35	18.92	83.84	86.68	15-Sep-19 12:00:00		199.79	18.92	83.84	88.54
15-Sep-19 13:00:00	15-Sep-19 14:00:00		572.55	0.00	0.00	5.49	2.1	329.7		188.77	0.00	0.00	1.81		10.35	18.92	83.84	86.68	15-Sep-19 13:00:00		199.12	18.92	83.84	88.49
15-Sep-19 14:00:00	15-Sep-19 15:00:00		596.99	0.00	0.00	7.70	2.1	329.7		196.83	0.00	0.00	2.54		10.35	18.92	83.84	86.68	15-Sep-19 14:00:00		207.18	18.92	83.84	89.22
15-Sep-19 15:00:00	15-Sep-19 16:00:00		574.38	0.00	0.00	5.26	2.1	329.7		189.37	0.00	0.00	1.73		10.35	18.92	83.84	86.68	15-Sep-19 15:00:00		199.72	18.92	83.84	88.41
15-Sep-19 16:00:00	15-Sep-19 17:00:00		583.52	0.00	0.00	12.19	2.1	329.7		192.39	0.00	0.00	4.02		10.35	18.92	83.84	86.68	15-Sep-19 16:00:00		202.74	18.92	83.84	90.70
15-Sep-19 17:00:00	15-Sep-19 18:00:00		551.92	0.00	0.00	5.95	2.1	329.7		181.97	0.00	0.00	1.96		10.35	18.92	83.84	86.68	15-Sep-19 17:00:00		192.32	18.92	83.84	88.64
15-Sep-19 18:00:00	15-Sep-19 19:00:00		547.12	0.00	0.00	27.05	2.1	329.7		180.39	0.00	0.00	8.92		10.35	18.92	83.84	86.68	15-Sep-19 18:00:00		190.74	18.92	83.84	95.60
15-Sep-19 19:00:00	15-Sep-19 20:00:00		564.34	0.00	0.00	5.39	2.1	329.7		186.06	0.00	0.00	1.78		10.35	18.92	83.84	86.68	15-Sep-19 19:00:00		196.41	18.92	83.84	88.46
15-Sep-19 20:00:00	15-Sep-19 21:00:00		559.51	0.00	0.00	77.42	2.1	329.7		184.47	0.00	0.00	25.52		10.35	18.92	83.84	86.68	15-Sep-19 20:00:00		194.82	18.92	83.84	112.20
15-Sep-19 21:00:00	15-Sep-19 22:00:00		562.78	0.00	0.00	15.24	2.1	329.7		185.55	0.00	0.00	5.02		10.35	18.92	83.84	86.68	15-Sep-19 21:00:00		195.90	18.92	83.84	91.70
15-Sep-19 22:00:00	15-Sep-19 23:00:00		552.35	0.00	0.00	112.93	2.1	329.7		182.11	0.00	0.00	37.23		10.35	18.92	83.84	86.68	15-Sep-19 22:00:00		192.46	18.92	83.84	123.91
15-Sep-19 23:00:00	16-Sep-19 00:00:00		567.62	0.00	0.00	6.25	2.1	329.7		187.14	0.00	0.00	2.06		10.35	18.92	83.84	86.68	15-Sep-19 23:00:00		197.49	18.92	83.84	88.74
16-Sep-19 00:00:00	16-Sep-19 01:00:00		562.59	0.00	0.00	211.41	2.1	329.7		185.49	0.00	0.00	69.70		10.35	18.92	83.84	86.68	16-Sep-19 00:00:00		195.84	18.92	83.84	156.38
16-Sep-19 01:00:00	16-Sep-19 02:00:00		570.79	0.00	0.00	66.30	2.1	329.7		188.19	0.00	0.00	21.86		10.35	18.92	83.84	86.68	16-Sep-19 01:00:00		198.54	18.92	83.84	108.54
16-Sep-19 02:00:00	16-Sep-19 03:00:00		563.90	0.00	0.00	112.45	2.1	329.7		185.92	0.00	0.00	37.08		10.35	18.92	83.84	86.68	16-Sep-19 02:00:00		196.27	18.92	83.84	123.76
16-Sep-19 03:00:00	16-Sep-19 04:00:00		570.81	0.00	0.00	126.51	2.1	329.7		188.20	0.00	0.00	41.71		10.35	18.92	83.84	86.68	16-Sep-19 03:00:00		198.55	18.92	83.84	128.39
16-Sep-19 04:00:00	16-Sep-19 05:00:00		580.22	0.00	0.00	59.77	2.1	329.7		191.30	0.00	0.00	19.71		10.35	18.92	83.84	86.68	16-Sep-19 04:00:00		201.65	18.92	83.84	106.39
16-Sep-19 05:00:00	16-Sep-19 06:00:00		577.67	0.00	0.00	116.47	2.1	329.7		190.46	0.00	0.00	38.40		10.35	18.92	83.84	86.68	16-Sep-19 05:00:00		200.81	18.92	83.84	125.08
16-Sep-19 06:00:00	16-Sep-19 07:00:00		482.14	0.00	0.00	49.30	2.1	329.7		158.96	0.00	0.00	16.25		10.35	18.92	83.84	86.68	16-Sep-19 06:00:00		169.31	18.92	83.84	102.93
16-Sep-19 07:00:00	16-Sep-19 08:00:00		0.00	0.00	0.00	46.74	2.1	329.7		0.00	0.00	0.00	15.41		10.35	18.92	83.84	86.68	16-Sep-19 07:00:00		10.35	18.92	83.84	102.09
16-Sep-19 08:00:00	16-Sep-19 09:00:00		0.00	0.00	0.00	99.61	2.1	329.7		0.00	0.00	0.00	32.84		10.35	18.92	83.84	86.68	16-Sep-19 08:00:00		10.35	18.92	83.84	119.52
16-Sep-19 09:00:00	16-Sep-19 10:00:00		0.00	0.00	0.00	68.71	2.1	329.7		0.00	0.00	0.00	22.65		10.35	18.92	83.84	86.68	16-Sep-19 09:00:00		10.35	18.92	83.84	109.33
16-Sep-19 10:00:00	16-Sep-19 11:00:00		0.00	0.00	0.00	6.15	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	16-Sep-19 10:00:00		10.35	18.92	83.84	88.71
16-Sep-19 11:00:00	16-Sep-19 12:00:00		1.19	0.00	0.00	5.83	2.1	329.7		0.39	0.00	0.00	1.92		10.35	18.92	83.84	86.68	16-Sep-19 11:00:00		10.74	18.92	83.84	88.60
16-Sep-19 12:00:00	16-Sep-19 13:00:00		14.36	0.00	0.00	5.52	2.1	329.7		4.74	0.00	0.00	1.82		10.35	18.92	83.84	86.68	16-Sep-19 12:00:00		15.09	18.92	83.84	88.50
16-Sep-19 13:00:00	16-Sep-19 14:00:00		12.79	0.00	0.00	5.25	2.1	329.7		4.22	0.00	0.00	1.73		10.35	18.92	83.84	86.68	16-Sep-19 13:00:00		14.57	18.92	83.84	88.41
16-Sep-19 14:00:00	16-Sep-19 15:00:00		0.29	0.00	0.00	5.22	2.1	329.7		0.10	0.00	0.00	1.72		10.35	18.92	83.84	86.68	16-Sep-19 14:00:00		10.45	18.92	83.84	88.40
16-Sep-19 15:00:00	16-Sep-19 16:00:00		0.00	0.00	0.00	5.22	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	16-Sep-19 15:00:00		10.35	18.92	83.84	88.40
16-Sep-19 16:00:00	16-Sep-19 17:00:00		11.99	0.00	0.00	5.23	2.1	329.7		3.95	0.00	0.00	1.72		10.35	18.92	83.84	86.68	16-Sep-19 16:00:00		14.30	18.92	83.84	88.40
16-Sep-19 17:00:00	16-Sep-19 18:00:00		2.25	0.00	0.00	5.16	2.1	329.7		0.74	0.00	0.00	1.70		10.35	18.92	83.84	86.68	16-Sep-19 17:00:00		11.09	18.92	83.84	88.38
16-Sep-19 18:00:00	16-Sep-19 19:00:00		3.30	0.00	0.00	5.16	2.1	329.7		1.09	0.00	0.00	1.70		10.35	18.92	83.84	86.68	16-Sep-19 18:00:00		11.44	18.92	83.84	88.38
16-Sep-19 19:00:00	16-Sep-19 20:00:00		2.11	0.00	0.00	63.74	2.1	329.7		0.70	0.00	0.00	21.01		10.35	18.92	83.84	86.68	16-Sep-19 19:00:00		11.05	18.92	83.84	107.69
16-Sep-19 20:00:00	16-Sep-19 21:00:00		6.78	0.00	0.00	6.09	2.1	329.7		2.24	0.00	0.00	2.01		10.35	18.92	83.84	86.68	16-Sep-19 20:00:00		12.59	18.92	83.84	88.69
16-Sep-19 21:00:00	16-Sep-19 22:00:00		16.61	0.00	0.00	5.83	2.1	329.7		5.48	0.00	0.00	1.92		10.35	18.92	83.84	86.68	16-Sep-19 21:00:00		15.83	18.92	83.84	88.60
16-Sep-19 22:00:00	16-Sep-19 23:00:00		14.80	0.00	0.00	6.05	2.1	329.7		4.88	0.00	0.00	2.00		10.35	18.92	83.84	86.68	16-Sep-19 22:00:00		15.23	18.92	83.84	88.68
16-Sep-19 23:00:00	17-Sep-19 00:00:00		10.14	0.00	0.00	6.27	2.1	329.7		3.34	0.00	0.00	2.07		10.35	18.92	83.84	86.68	16-Sep-19 23:00:00		13.69	18.92	83.84	88.75
17-Sep-19 00:00:00	17-Sep-19 01:00:00		12.90	0.00	0.00	6.52	2.1	329.7		4.25	0.00	0.00	2.15		10.35	18.92	83.84	86.68	17-Sep-19 00:00:00		14.60	18.92	83.84	88.83
17-Sep-19 01:00:00	17-Sep-19 02:00:00		12.24	0.00	0.00	6.67	2.1	329.7		4.03	0.00	0.00	2.20		10.35	18.92	83.84	86.68	17-Sep-19 01:00:00		14.38	18.92	83.84	88.88
17-Sep-19 02:00:00	17-Sep-19 03:00:00		8.21	0.00	0.00	6.67	2.1	329.7		2.71	0.00	0.00	2.20		10.35	18.92	83.84	86.68	17-Sep-19 02:00:00		13.06	18.92	83.84	88.88
17-Sep-19 03:00:00	17-Sep-19 04:00:00		35.11	0.00	0.00	6.67	2.1	329.7		11.58	0.00	0.00	2.20		10.35	18.92	83.84	86.68	17-Sep-19 03:00:00		21.93	18.92	83.84	88.88
17-Sep-19 04:00:00	17-Sep-19 05:00:00		13.17	0.00	0.00	6.68	2.1	329.7		4.34	0.00	0.00	2.20		10.35	18.92	83.84	86.68	17-Sep-19 04:00:00		14.69	18.92	83.84	88.88
17-Sep-19 05:00:00	17-Sep-19 06:00:00		19.49	0.00	0.00	6.78	2.1	329.7		6.42	0.00	0.00	2.24		10.35	18.92	83.84	86.68	17-Sep-19 05:00:00		16.77	18.92	83.84	88.92
17-Sep-19 06:00:00	17-Sep-19 07:00:00		9.34	0.00	0.00	162.76	2.1	329.7		3.08	0.00	0.00	53.66		10.35	18.92	83.84	86.68	17-Sep-19 06:00:00		13.43	18.92	83.84	140.34
17-Sep-19 07:00:00	17-Sep-19 08:00:00		6.97	0.00	0.00	6.85	2.1	329.7		2.30	0.00	0.00	2.26		10.35	18.92	83.84	86.68	17-Sep-19 07:00:00		12.65	18.92	83.84	88.94
17-Sep-19 08:00:00	17-Sep-19 09:00:00		4.73	0.00	0.00	47.59	2.1	329.7		1.56	0.00	0.00	15.69		10.35	18.92	83.84	86.68	17-Sep-19 08:00:00		11.91	18.92	83.84	102.37
17-Sep-19 09:00:00	17-Sep-19 10:00:00		3.34	0.00	0.00	6.30	2.1	329.7		1.10	0.00	0.00	2.08		10.35	18.92	83.84	86.68	17-Sep-19 09:00:00		11.45	18.92	83.84	88.76
17-Sep-19 10:00:00	17-Sep-19 11:00:00		6.48	78.65	0.00	5.92	2.1	329.7		2.14	25.93	0.00	1.95		10.35	18.92	83.84	86.68	17-Sep-19 10:00:00		12.49	44.85	83.84	88.63
17-Sep-19 11:00:00	17-Sep-19 12:00:00		355.89	0.00	0.00	5.54	2.1	329.7		117.34	0.00	0.00	1.83		10.35	18.92	83.84	86.68	17-Sep-19 11:00:00		127.69	18.92	83.84	88.51
17-Sep-19 12:00:00	17-Sep-19 13:00:00		359.38	0.00	0.00	5.44	2.1	329.7		118.49	0.00	0.00	1.79		10.35	18.92	83.84	86.68	17-Sep-19 12:00:00		128.84	18.92	83.84	88.47
17-Sep-19 13:00:00	17-Sep-19 14:00:00		344.46	0.00	0.00	5.32	2.1	329.7		113.57	0.00	0.00	1.76		10.35	18.92	83.84	86.68	17-Sep-19 13:00:00		123.92	18.92	83.84	88.44
17-Sep-19 14:00:00	17-Sep-19 15:00:00		0.54	0.00	0.00	5.20	2.1	329.7		0.18	0.00	0.00	1.71		10.35	18.92	83.84	86.68	17-Sep-19 14:00:00		10.53	18.92	83.84	88.39
17-Sep-19 15:00:00	17-Sep-19 16:00:00		3.58	0.00	0.00	5.07	2.1	329.7		1.18	0.00	0.00	1.67		10.35	18.92	83.84	86.68	17-Sep-19 15:00:00		11.53	18.92	83.84	88.35
17-Sep-19 16:00:00	17-Sep-19 17:00:00		1.80	0.00	0.00	5.23	2.1	329.7		0.59	0.00	0.00	1.72		10.35	18.92	83.84	86.68	17-Sep-19 16:00:00		10.94	18.92	83.84	88.40
17-Sep-19 17:00:00	17-Sep-19 18:00:00		14.32	0.00	0.00	5.48	2.1	329.7		4.72	0.00	0.00	1.81		10.35	18.92	83.84	86.68	17-Sep-19 17:00:00		15.07	18.92	83.84	88.49
17-Sep-19 18:00:00	17-Sep-19 19:00:00		12.06	0.00	0.00	5.72	2.1	329.7		3.98	0.00	0.00	1.88		10.35	18.92	83.84	86.68	17-Sep-19 18:00:00		14.33	18.92	83.84	88.56
17-Sep-19 19:00:00	17-Sep-19 20:00:00		16.40	0.00	0.00	5.95	2.1	329.7		5.41	0.00	0.00	1.96		10.35	18.92	83.84	86.68	17-Sep-19 19:00:00		15.76	18.92	83.84	88.64
17-Sep-19 20:00:00	17-Sep-19 21:00:00		6.55	0.00	0.00	5.95	2.1	329.7		2.16	0.00	0.00	1.96		10.35	18.92	83.84	86.68	17-Sep-19 20:00:00		12.51	18.92	83.84	88.64
17-Sep-19 21:00:00	17-Sep-19 22:00:00		2.77	0.00	0.00	6.13	2.1	329.7		0.91	0.00	0.00	2.02		10.35	18.92	83.84	86.68	17-Sep-19 21:00:00		11.26	18.92	83.84	88.70
17-Sep-19 22:00:00	17-Sep-19 23:00:00		0.63	0.00	0.00	6.35	2.1	329.7		0.21	0.00	0.00	2.09		10.35	18.92	83.84	86.68	17-Sep-19 22:00:00		10.56	18.92	83.84	88.77
17-Sep-19 23:00:00	18-Sep-19 00:00:00		3.95	0.00	0.00	6.56	2.1	329.7		1.30	0.00	0.00	2.16		10.35	18.92	83.84	86.68	17-Sep-19 23:00:00		11.65	18.92	83.84	88.84
18-Sep-19 00:00:00	18-Sep-19 01:00:00		1.61	0.00	0.00	6.50	2.1	329.7		0.53	0.00	0.00	2.14		10.35	18.92	83.84	86.68	18-Sep-19 00:00:00		10.88	18.92	83.84	88.82
18-Sep-19 01:00:00	18-Sep-19 02:00:00		11.94	0.00	0.00	6.71	2.1	329.7		3.94	0.00	0.00	2.21		10.35	18.92	83.84	86.68	18-Sep-19 01:00:00		14.29	18.92	83.84	88.89
18-Sep-19 02:00:00	18-Sep-19 03:00:00		12.65	0.00	0.00	6.85	2.1	329.7		4.17	0.00	0.00	2.26		10.35	18.92	83.84	86.68	18-Sep-19 02:00:00		14.52	18.92	83.84	88.94
18-Sep-19 03:00:00	18-Sep-19 04:00:00		11.73	0.00

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
20-Sep-19 05:00:00	20-Sep-19 06:00:00		12.75	0.00	0.00	7.44	2.1	329.7		4.20	0.00	0.00	2.45		10.35	18.92	83.84	86.68	20-Sep-19 05:00:00		14.55	18.92	83.84	89.13
20-Sep-19 06:00:00	20-Sep-19 07:00:00		7.52	0.00	0.00	7.41	2.1	329.7		2.48	0.00	0.00	2.44		10.35	18.92	83.84	86.68	20-Sep-19 06:00:00		12.83	18.92	83.84	89.12
20-Sep-19 07:00:00	20-Sep-19 08:00:00		18.65	0.00	0.00	7.38	2.1	329.7		6.15	0.00	0.00	2.43		10.35	18.92	83.84	86.68	20-Sep-19 07:00:00		16.50	18.92	83.84	89.11
20-Sep-19 08:00:00	20-Sep-19 09:00:00		13.82	0.00	0.00	7.35	2.1	329.7		4.56	0.00	0.00	2.42		10.35	18.92	83.84	86.68	20-Sep-19 08:00:00		14.91	18.92	83.84	89.10
20-Sep-19 09:00:00	20-Sep-19 10:00:00		16.33	0.00	0.00	10.50	2.1	329.7		5.39	0.00	0.00	3.46		10.35	18.92	83.84	86.68	20-Sep-19 09:00:00		15.74	18.92	83.84	90.14
20-Sep-19 10:00:00	20-Sep-19 11:00:00		13.53	0.00	0.00	6.95	2.1	329.7		4.46	0.00	0.00	2.29		10.35	18.92	83.84	86.68	20-Sep-19 10:00:00		14.81	18.92	83.84	88.97
20-Sep-19 11:00:00	20-Sep-19 12:00:00		8.13	0.00	0.00	6.62	2.1	329.7		2.68	0.00	0.00	2.18		10.35	18.92	83.84	86.68	20-Sep-19 11:00:00		13.03	18.92	83.84	88.86
20-Sep-19 12:00:00	20-Sep-19 13:00:00		12.69	0.00	0.00	6.30	2.1	329.7		4.18	0.00	0.00	2.08		10.35	18.92	83.84	86.68	20-Sep-19 12:00:00		14.53	18.92	83.84	88.76
20-Sep-19 13:00:00	20-Sep-19 14:00:00		7.90	0.00	0.00	6.02	2.1	329.7		2.60	0.00	0.00	1.99		10.35	18.92	83.84	86.68	20-Sep-19 13:00:00		12.95	18.92	83.84	88.67
20-Sep-19 14:00:00	20-Sep-19 15:00:00		20.38	0.00	0.00	5.91	2.1	329.7		6.72	0.00	0.00	1.95		10.35	18.92	83.84	86.68	20-Sep-19 14:00:00		17.07	18.92	83.84	88.63
20-Sep-19 15:00:00	20-Sep-19 16:00:00		23.37	0.00	0.00	5.81	2.1	329.7		7.71	0.00	0.00	1.91		10.35	18.92	83.84	86.68	20-Sep-19 15:00:00		18.06	18.92	83.84	88.59
20-Sep-19 16:00:00	20-Sep-19 17:00:00		16.98	0.00	0.00	5.70	2.1	329.7		5.60	0.00	0.00	1.88		10.35	18.92	83.84	86.68	20-Sep-19 16:00:00		15.95	18.92	83.84	88.56
20-Sep-19 17:00:00	20-Sep-19 18:00:00		18.03	0.00	0.00	5.72	2.1	329.7		5.94	0.00	0.00	1.89		10.35	18.92	83.84	86.68	20-Sep-19 17:00:00		16.29	18.92	83.84	88.57
20-Sep-19 18:00:00	20-Sep-19 19:00:00		18.97	0.00	0.00	5.89	2.1	329.7		6.26	0.00	0.00	1.94		10.35	18.92	83.84	86.68	20-Sep-19 18:00:00		16.61	18.92	83.84	88.62
20-Sep-19 19:00:00	20-Sep-19 20:00:00		6.01	0.00	0.00	6.05	2.1	329.7		1.98	0.00	0.00	1.99		10.35	18.92	83.84	86.68	20-Sep-19 19:00:00		12.33	18.92	83.84	88.67
20-Sep-19 20:00:00	20-Sep-19 21:00:00		4.23	0.00	0.00	6.21	2.1	329.7		1.40	0.00	0.00	2.05		10.35	18.92	83.84	86.68	20-Sep-19 20:00:00		11.75	18.92	83.84	88.73
20-Sep-19 21:00:00	20-Sep-19 22:00:00		6.37	0.00	0.00	6.36	2.1	329.7		2.10	0.00	0.00	2.10		10.35	18.92	83.84	86.68	20-Sep-19 21:00:00		12.45	18.92	83.84	88.78
20-Sep-19 22:00:00	20-Sep-19 23:00:00		30.38	0.00	0.00	6.54	2.1	329.7		10.02	0.00	0.00	2.16		10.35	18.92	83.84	86.68	20-Sep-19 22:00:00		20.37	18.92	83.84	88.84
20-Sep-19 23:00:00	21-Sep-19 00:00:00		25.13	0.00	0.00	6.74	2.1	329.7		8.29	0.00	0.00	2.22		10.35	18.92	83.84	86.68	20-Sep-19 23:00:00		18.64	18.92	83.84	88.90
21-Sep-19 00:00:00	21-Sep-19 01:00:00		27.58	0.00	0.00	6.93	2.1	329.7		9.09	0.00	0.00	2.29		10.35	18.92	83.84	86.68	21-Sep-19 00:00:00		19.44	18.92	83.84	88.97
21-Sep-19 01:00:00	21-Sep-19 02:00:00		12.90	0.00	0.00	7.07	2.1	329.7		4.25	0.00	0.00	2.33		10.35	18.92	83.84	86.68	21-Sep-19 01:00:00		14.60	18.92	83.84	89.01
21-Sep-19 02:00:00	21-Sep-19 03:00:00		57.63	0.00	0.00	7.10	2.1	329.7		19.00	0.00	0.00	2.34		10.35	18.92	83.84	86.68	21-Sep-19 02:00:00		29.35	18.92	83.84	89.02
21-Sep-19 03:00:00	21-Sep-19 04:00:00		33.84	0.00	0.00	7.12	2.1	329.7		11.16	0.00	0.00	2.35		10.35	18.92	83.84	86.68	21-Sep-19 03:00:00		21.51	18.92	83.84	89.03
21-Sep-19 04:00:00	21-Sep-19 05:00:00		12.03	0.00	0.00	7.15	2.1	329.7		3.97	0.00	0.00	2.36		10.35	18.92	83.84	86.68	21-Sep-19 04:00:00		14.32	18.92	83.84	89.04
21-Sep-19 05:00:00	21-Sep-19 06:00:00		15.03	0.00	0.00	7.14	2.1	329.7		4.95	0.00	0.00	2.35		10.35	18.92	83.84	86.68	21-Sep-19 05:00:00		15.30	18.92	83.84	89.03
21-Sep-19 06:00:00	21-Sep-19 07:00:00		16.28	0.00	0.00	7.08	2.1	329.7		5.37	0.00	0.00	2.34		10.35	18.92	83.84	86.68	21-Sep-19 06:00:00		15.72	18.92	83.84	89.02
21-Sep-19 07:00:00	21-Sep-19 08:00:00		15.38	0.00	0.00	7.03	2.1	329.7		5.07	0.00	0.00	2.32		10.35	18.92	83.84	86.68	21-Sep-19 07:00:00		15.42	18.92	83.84	89.00
21-Sep-19 08:00:00	21-Sep-19 09:00:00		19.66	0.00	0.00	6.98	2.1	329.7		6.48	0.00	0.00	2.30		10.35	18.92	83.84	86.68	21-Sep-19 08:00:00		16.83	18.92	83.84	88.98
21-Sep-19 09:00:00	21-Sep-19 10:00:00		15.42	0.00	0.00	6.91	2.1	329.7		5.08	0.00	0.00	2.28		10.35	18.92	83.84	86.68	21-Sep-19 09:00:00		15.43	18.92	83.84	88.96
21-Sep-19 10:00:00	21-Sep-19 11:00:00		11.62	0.00	0.00	6.62	2.1	329.7		3.83	0.00	0.00	2.18		10.35	18.92	83.84	86.68	21-Sep-19 10:00:00		14.18	18.92	83.84	88.86
21-Sep-19 11:00:00	21-Sep-19 12:00:00		18.53	0.00	0.00	6.30	2.1	329.7		6.11	0.00	0.00	2.08		10.35	18.92	83.84	86.68	21-Sep-19 11:00:00		16.46	18.92	83.84	88.76
21-Sep-19 12:00:00	21-Sep-19 13:00:00		24.01	0.00	0.00	5.97	2.1	329.7		7.92	0.00	0.00	1.97		10.35	18.92	83.84	86.68	21-Sep-19 12:00:00		18.27	18.92	83.84	88.65
21-Sep-19 13:00:00	21-Sep-19 14:00:00		11.40	0.00	0.00	5.79	2.1	329.7		3.76	0.00	0.00	1.91		10.35	18.92	83.84	86.68	21-Sep-19 13:00:00		14.11	18.92	83.84	88.59
21-Sep-19 14:00:00	21-Sep-19 15:00:00		23.95	0.00	0.00	5.66	2.1	329.7		7.90	0.00	0.00	1.86		10.35	18.92	83.84	86.68	21-Sep-19 14:00:00		18.25	18.92	83.84	88.54
21-Sep-19 15:00:00	21-Sep-19 16:00:00		21.40	0.00	0.00	5.49	2.1	329.7		7.06	0.00	0.00	1.81		10.35	18.92	83.84	86.68	21-Sep-19 15:00:00		17.41	18.92	83.84	88.49
21-Sep-19 16:00:00	21-Sep-19 17:00:00		14.64	0.00	0.00	5.31	2.1	329.7		4.83	0.00	0.00	1.75		10.35	18.92	83.84	86.68	21-Sep-19 16:00:00		15.18	18.92	83.84	88.43
21-Sep-19 17:00:00	21-Sep-19 18:00:00		17.28	0.00	0.00	5.36	2.1	329.7		5.70	0.00	0.00	1.77		10.35	18.92	83.84	86.68	21-Sep-19 17:00:00		16.05	18.92	83.84	88.45
21-Sep-19 18:00:00	21-Sep-19 19:00:00		1.36	0.00	0.00	5.55	2.1	329.7		0.45	0.00	0.00	1.83		10.35	18.92	83.84	86.68	21-Sep-19 18:00:00		10.80	18.92	83.84	88.51
21-Sep-19 19:00:00	21-Sep-19 20:00:00		0.61	0.00	0.00	5.68	2.1	329.7		0.20	0.00	0.00	1.87		10.35	18.92	83.84	86.68	21-Sep-19 19:00:00		10.55	18.92	83.84	88.55
21-Sep-19 20:00:00	21-Sep-19 21:00:00		3.06	0.00	0.00	5.82	2.1	329.7		1.01	0.00	0.00	1.92		10.35	18.92	83.84	86.68	21-Sep-19 20:00:00		11.36	18.92	83.84	88.60
21-Sep-19 21:00:00	21-Sep-19 22:00:00		24.85	0.00	0.00	5.98	2.1	329.7		8.19	0.00	0.00	1.97		10.35	18.92	83.84	86.68	21-Sep-19 21:00:00		18.54	18.92	83.84	88.65
21-Sep-19 22:00:00	21-Sep-19 23:00:00		11.06	0.00	0.00	6.26	2.1	329.7		3.65	0.00	0.00	2.06		10.35	18.92	83.84	86.68	21-Sep-19 22:00:00		14.00	18.92	83.84	88.74
21-Sep-19 23:00:00	22-Sep-19 00:00:00		15.59	0.00	0.00	6.55	2.1	329.7		5.14	0.00	0.00	2.16		10.35	18.92	83.84	86.68	21-Sep-19 23:00:00		15.49	18.92	83.84	88.84
22-Sep-19 00:00:00	22-Sep-19 01:00:00		32.69	0.00	0.00	6.84	2.1	329.7		10.78	0.00	0.00	2.26		10.35	18.92	83.84	86.68	22-Sep-19 00:00:00		21.13	18.92	83.84	88.94
22-Sep-19 01:00:00	22-Sep-19 02:00:00		22.22	0.00	0.00	7.09	2.1	329.7		7.32	0.00	0.00	2.34		10.35	18.92	83.84	86.68	22-Sep-19 01:00:00		17.67	18.92	83.84	89.02
22-Sep-19 02:00:00	22-Sep-19 03:00:00		32.69	0.00	0.00	7.20	2.1	329.7		10.78	0.00	0.00	2.37		10.35	18.92	83.84	86.68	22-Sep-19 02:00:00		21.13	18.92	83.84	89.05
22-Sep-19 03:00:00	22-Sep-19 04:00:00		21.67	0.00	0.00	7.30	2.1	329.7		7.14	0.00	0.00	2.41		10.35	18.92	83.84	86.68	22-Sep-19 03:00:00		17.49	18.92	83.84	89.09
22-Sep-19 04:00:00	22-Sep-19 05:00:00		30.13	0.00	0.00	7.40	2.1	329.7		9.93	0.00	0.00	2.44		10.35	18.92	83.84	86.68	22-Sep-19 04:00:00		20.28	18.92	83.84	89.12
22-Sep-19 05:00:00	22-Sep-19 06:00:00		46.53	0.00	0.00	7.47	2.1	329.7		15.34	0.00	0.00	2.46		10.35	18.92	83.84	86.68	22-Sep-19 05:00:00		25.69	18.92	83.84	89.14
22-Sep-19 06:00:00	22-Sep-19 07:00:00		30.44	0.00	0.00	7.37	2.1	329.7		10.04	0.00	0.00	2.43		10.35	18.92	83.84	86.68	22-Sep-19 06:00:00		20.39	18.92	83.84	89.11
22-Sep-19 07:00:00	22-Sep-19 08:00:00		0.78	0.00	0.00	7.24	2.1	329.7		0.26	0.00	0.00	2.39		10.35	18.92	83.84	86.68	22-Sep-19 07:00:00		10.61	18.92	83.84	89.07
22-Sep-19 08:00:00	22-Sep-19 09:00:00		1.07	0.00	0.00	7.11	2.1	329.7		0.35	0.00	0.00	2.35		10.35	18.92	83.84	86.68	22-Sep-19 08:00:00		10.70	18.92	83.84	89.03
22-Sep-19 09:00:00	22-Sep-19 10:00:00		1.24	0.00	0.00	6.90	2.1	329.7		0.41	0.00	0.00	2.27		10.35	18.92	83.84	86.68	22-Sep-19 09:00:00		10.76	18.92	83.84	88.95
22-Sep-19 10:00:00	22-Sep-19 11:00:00		2.86	0.00	0.00	6.51	2.1	329.7		0.94	0.00	0.00	2.15		10.35	18.92	83.84	86.68	22-Sep-19 10:00:00		11.29	18.92	83.84	88.83
22-Sep-19 11:00:00	22-Sep-19 12:00:00		4.19	0.00	0.00	6.14	2.1	329.7		1.38	0.00	0.00	2.02		10.35	18.92	83.84	86.68	22-Sep-19 11:00:00		11.73	18.92	83.84	88.70
22-Sep-19 12:00:00	22-Sep-19 13:00:00		21.89	0.00	0.00	5.76	2.1	329.7		7.22	0.00	0.00	1.90		10.35	18.92	83.84	86.68	22-Sep-19 12:00:00		17.57	18.92	83.84	88.58
22-Sep-19 13:00:00	22-Sep-19 14:00:00		38.42	0.00	0.00	5.55	2.1	329.7		12.67	0.00	0.00	1.83		10.35	18.92	83.84	86.68	22-Sep-19 13:00:00		23.02	18.92	83.84	88.51
22-Sep-19 14:00:00	22-Sep-19 15:00:00		26.82	0.00	0.00	5.50	2.1	329.7		8.84	0.00	0.00	1.81		10.35	18.92	83.84	86.68	22-Sep-19 14:00:00		19.19	18.92	83.84	88.49
22-Sep-19 15:00:00	22-Sep-19 16:00:00		35.55	0.00	0.00	5.41	2.1	329.7		11.72	0.00	0.00	1.78		10.35	18.92	83.84	86.68	22-Sep-19 15:00:00		22.07	18.92	83.84	88.46
22-Sep-19 16:00:00	22-Sep-19 17:00:00		21.31	0.00	0.00	5.31	2.1	329.7		7.02	0.00	0.00	1.75		10.35	18.92	83.84	86.68	22-Sep-19 16:00:00		17.37	18.92	83.84	88.43
22-Sep-19 17:00:00	22-Sep-19 18:00:00		7.10	0.00	0.00	5.27	2.1	329.7		2.34	0.00	0.00	1.74		10.35	18.92	83.84	86.68	22-Sep-19 17:00:00		12.69	18.92	83.84	88.42
22-Sep-19 18:00:00	22-Sep-19 19:00:00		4.82	0.00	0.00	5.40	2.1	329.7		1.59	0.00	0.00	1.78		10.35	18.92	83.84	86.68	22-Sep-19 18:00:00		11.94	18.92	83.84	88.46
22-Sep-19 19:00:00	22-Sep-19 20:00:00		4.84	0.00	0.00	5.55	2.1	329.7		1.59	0.00	0.00	1.83		10.35	18.92	83.84	86.68	22-Sep-19 19:00:00		11.94	18.92	83.84	88.51
22-Sep-19 20:00:00	22-Sep-19 21:00:00		4.65	0.00	0.00	5.69	2.1	329.7		1.53	0.00	0.00	1.88		10.35	18.92	83.84	86.68	22-Sep-19 20:00:00		11.88	18.92	83.84	88.56
22-Sep-19 21:00:00	22-Sep-19 22:00:00		11.77	0.00	0.00	5.87	2.1	329.7		3.88	0.00	0.00	1.94		10.35	18.92	83.84	86.68	22-Sep-19 21:00:00		14.23	18.92	83.84	88.62
22-Sep-19 22:00:00	22-Sep-19 23:00:00		11.92	0.00	0.00	6.01	2.1	329.7		3.93	0.00	0.00	1.98		10.35	18.92	83.84	86.68	22-Sep-19 22:00:00		14.28	18.92	83.84	88.66
22-Sep-19 23:00:00	23-Sep-19 00:00:00		8.80	0.00	0.00	6.14	2.1	329.7		2.90	0.00	0.00	2.02		10.35	18.92	83.84	86.68	22-Sep-19 23:00:00		13.25	18.92	83.84	88.70
23-Sep-19 00:00:00	23-Sep-19 01:00:00		9.67	0.00	0.00	6.26	2.1	329.7		3.19	0.00	0.00	2.06		10.35	18.92	83.84	86.68	23-Sep-19 00:00:00		13.54	18.92	83.84	88.74
23-Sep-19 01:00:00	23-Sep-19 02:00:00		32.75	0.00	0.00	6.47	2.1	329.7		10.80	0.00	0.00	2.13		10.35	18.92	83.84	86.68	23-Sep-19 01:00:00		21.15	18.92	83.84	88.81
23-Sep-19 02:00:00	23-Sep-19 03:00:00		20.09	0.00	0.00	6.66	2.1	329.7		6.62	0.00	0.00	2.20		10.35	18.92	83.84	86.68	23-Sep-19 02:00:00		16.97	18.92	83.84	88.88
23-Sep-19 03:00:00	23-Sep-19 04:00:00		0.12	0.00	0.00	6.80	2.1	329.7		0.04	0.00	0.00	2.24		10.35	18.92	83.84	86.68	23-Sep-19 03:00:00		10.39	18.92	83.84	88.92
23-Sep-19 04:00:00	23-Sep-19 05:00:00		3.42	0.00	0.00	6.93	2.1	329.7		1.13	0.00	0.00	2.28		10.35	18.92	83.84	86.68	23-Sep-19 04:00:00		11.48	18.92	83.84	88.96
23-Sep-19 05:00:00	23-Sep-19 06:00:00		7.06	0.00	0.00	6.99	2.1	329.7		2.33	0.00	0.00	2.31		10.35	18.92	83.84	86.68	23-Sep-19 05:00:00		12.68	18.92	83.84	88.99
23-Sep-19 06:00:00	23-Sep-19 07:00:00		2.47	0.00	0.00	6.96	2.1	329.7		0.82	0.00	0.00	2.30		10.35	18.92	83.84	86.68	23-Sep-19 06:00:00		11.17	18.92	83.84	88.98
23-Sep-19 07:00:00	23-Sep-19 08:00:00		0.60	0.00	0.00	6.95	2.1	329.7		0.20	0.00	0.00	2.29		10.35	18.92	83.84	86.68	23-Sep-19 07:00:00		10.55	18.92	83.84	88.97
23-Sep-19 08:00:00	23-Sep-19 09:00:00		0.00	0.00	0.00	6.94	2.1	329.7		0.00	0.00	0.00	2.29		10.35	18.92	83.84	86.68	23-Sep-19 08:00:00		10.35	18.92	83.84	88.97
23-Sep-19 09:00:00	23-Sep-19 10:00:00		0.00	0.00	0.00	6.87	2.1	329.7		0.00	0.00	0.00	2.26		10.35	18.92	83.84	86.68	23-Sep-19 09:00:00		10.35	18.92	83.84	88.94
23-Sep-19 10:00:00	23-Sep-19 11:00:00		5.49	0.00	0.00	6.53	2.1	329.7		1.81	0.00	0.00	2.15		10.35	18.92	83.84	86.68	23-Sep-19 10:00:00		12.16	18.92	83.84	88.83
23-Sep-19 11:00:00	23-Sep-19 12:00:00		3.52	0.00	0.00	6.16	2.1	329.7		1.16	0.00	0.00	2.03		10.35	18.92	83.84	86.68	23-Sep-19 11:00:00		11.51	18.92	83.84	88.71
23-Sep-19 12:00:00	23-Sep-19 13:00:00		11.16	0.00	0.00	5.79	2.1	329.7		3.68	0.00	0.00	1.91		10.35	18.92	83.84	86.68	23-Sep-19 12:00:00		14.03	18.92	83.84	88.59
23-Sep-19 13:00:00	23-Sep-19 14:00:00		8.24	0.00	0.00	5.43	2.1	329.7		2.72	0.00	0.00	1.79		10.35	18.92	83.84	86.68	23-Sep-19 13:00:00		13.07	18.92	83.84	88.47
23-Sep-19 14:00:00	23-Sep-19 15:00:00		8.54	0.00	0.00	5.34	2.1	329.7		2.82	0.00	0.00	1.76		10.35	18.92	83.84	86.68	23-Sep-19 14:00:00		13.17	18.92	83.84	88.44
23-Sep-19 15:00:00	23-Sep-19 16:00:00		5.99	0.00	0.00	5.31	2.1	329.7		1.98	0.00	0.00	1.75		10.35	18.92	83.84	86.68	23-Sep-19 15:00:00		12.33	18.92	83.84	88.43
23-Sep-19 16:00:00	23-Sep-19 17:00:00		9.98	0.00	0.00	5.27	2.1	329.7		3.29	0.00	0.00	1.74		10.35	18.92	83.84	86.68	23-Sep-19 16:00:00		13.64	18.92	83.84	88.42
23-Sep-19 17:00:00	23-Sep-19 18:00:00		11.33	0.00	0.00	5.26	2.1	329.7		3.73	0.00	0.00	1.73		10.35	18.92	83.84	86.68	23-Sep-19 17:00:00		14.08	18.92	83.84	88.41
23-Sep-19 18:00:00	23-Sep-19 19:00:00		12.23	0.00	0.00	5.37	2.1	329.7		4.03	0.00	0.00	1.77		10.35	18.92	83.84	86.68	23-Sep-19 18:00:00		14.38	18.92	83.84	88.45
23-Sep-19 19:00:00	23-Sep-19 20:00:00		13.43	0.00	0.00	5.51	2.1	329.7		4.43	0.00	0.00	1.82		10.35	18.92	83.84	86.68	23-Sep-19 19:00:00		14.78	18.92	83.84	88.50
23-Sep-19 20:00:00	23-Sep-19 21:00:00		8.18	0.00	0.00	5.64	2.1	329.7		2.70	0.00	0.00	1.86		10.35	18.92	83.84	86.68	23-Sep-19 20:00:00		13.05	18.92	83.84	88.54
23-Sep-19 21:00:00	23-Sep-19 22:00:00		9.72	0.00	0.00	5.79	2.1	329.7		3.21	0.00	0.00	1.91		10.35	18.92	83.84	86.68	23-Sep-19 21:00:00		13.56	18.92	83.84	88.59
23-Sep-19 22:00:00	23-Sep-19 23:00:00		3.39	0.00	0.00	5.95	2.1	329.7		1.12	0.00	0.00	1.96		10.35	18.92	83.84	86.68	23-Sep-19 22:00:00		11.47	18.92	83.84	88.64
23-Sep-19 23:00:00	24-Sep-19 00:00:00		10.28	0.00	0.00	6.11	2.1	329.7		3.39	0.00	0.00	2.01		10.35	18.92	83.84	86.68	23-Sep-19 23:00:00		13.74	18.92	83.84	88.69
24-Sep-19 00:00:00	24-Sep-19 01:00:00		15.64	0.00	0.00	6.26	2.1	329.7		5.16	0.00	0.00	2.06		10.35	18.92	83.84	86.68	24-Sep-19 00:00:00		15.51	18.92	83.84	88.74
24-Sep-19 01:00:00	24-Sep-19 02:00:00		18.91	0.00	0.00	6.38	2.1	329.7		6.23	0.00	0.00	2.10		10.35	18.92	83.84	86.68	24-Sep-19 01:00:00		16.58	18.92	83.84	88.78
24-Sep-19 02:00:00	24-Sep-19 03:00:00		2.97	0.00	0.00	6.45

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)					
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
26-Sep-19 04:00:00	26-Sep-19 05:00:00		3.47	0.00	0.00	6.75	2.1	329.7		1.14	0.00	0.00	2.23		10.35	18.92	83.84	86.68	26-Sep-19 04:00:00		11.49	18.92	83.84	88.91
26-Sep-19 05:00:00	26-Sep-19 06:00:00		17.22	0.00	0.00	6.86	2.1	329.7		5.68	0.00	0.00	2.26		10.35	18.92	83.84	86.68	26-Sep-19 05:00:00		16.03	18.92	83.84	88.94
26-Sep-19 06:00:00	26-Sep-19 07:00:00		5.90	0.00	0.00	6.78	2.1	329.7		1.94	0.00	0.00	2.24		10.35	18.92	83.84	86.68	26-Sep-19 06:00:00		12.29	18.92	83.84	88.92
26-Sep-19 07:00:00	26-Sep-19 08:00:00		19.07	0.00	0.00	6.66	2.1	329.7		6.29	0.00	0.00	2.20		10.35	18.92	83.84	86.68	26-Sep-19 07:00:00		16.64	18.92	83.84	88.88
26-Sep-19 08:00:00	26-Sep-19 09:00:00		0.19	0.00	0.00	6.54	2.1	329.7		0.06	0.00	0.00	2.15		10.35	18.92	83.84	86.68	26-Sep-19 08:00:00		10.41	18.92	83.84	88.83
26-Sep-19 09:00:00	26-Sep-19 10:00:00		0.00	0.00	0.00	6.43	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	26-Sep-19 09:00:00		10.35	18.92	83.84	88.80
26-Sep-19 10:00:00	26-Sep-19 11:00:00		0.00	0.00	0.00	6.17	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	26-Sep-19 10:00:00		10.35	18.92	83.84	88.71
26-Sep-19 11:00:00	26-Sep-19 12:00:00		5.54	0.00	0.00	5.85	2.1	329.7		1.83	0.00	0.00	1.93		10.35	18.92	83.84	86.68	26-Sep-19 11:00:00		12.18	18.92	83.84	88.61
26-Sep-19 12:00:00	26-Sep-19 13:00:00		16.79	0.00	0.00	5.52	2.1	329.7		5.53	0.00	0.00	1.82		10.35	18.92	83.84	86.68	26-Sep-19 12:00:00		15.88	18.92	83.84	88.50
26-Sep-19 13:00:00	26-Sep-19 14:00:00		15.10	0.00	0.00	5.25	2.1	329.7		4.98	0.00	0.00	1.73		10.35	18.92	83.84	86.68	26-Sep-19 13:00:00		15.33	18.92	83.84	88.41
26-Sep-19 14:00:00	26-Sep-19 15:00:00		6.60	0.00	0.00	5.11	2.1	329.7		2.18	0.00	0.00	1.69		10.35	18.92	83.84	86.68	26-Sep-19 14:00:00		12.53	18.92	83.84	88.37
26-Sep-19 15:00:00	26-Sep-19 16:00:00		15.40	0.00	0.00	4.96	2.1	329.7		5.08	0.00	0.00	1.63		10.35	18.92	83.84	86.68	26-Sep-19 15:00:00		15.43	18.92	83.84	88.31
26-Sep-19 16:00:00	26-Sep-19 17:00:00		3.18	0.00	0.00	4.80	2.1	329.7		1.05	0.00	0.00	1.58		10.35	18.92	83.84	86.68	26-Sep-19 16:00:00		11.40	18.92	83.84	88.26
26-Sep-19 17:00:00	26-Sep-19 18:00:00		3.36	0.00	0.00	4.73	2.1	329.7		1.11	0.00	0.00	1.56		10.35	18.92	83.84	86.68	26-Sep-19 17:00:00		11.46	18.92	83.84	88.24
26-Sep-19 18:00:00	26-Sep-19 19:00:00		0.00	0.00	0.00	4.91	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	26-Sep-19 18:00:00		10.35	18.92	83.84	88.30
26-Sep-19 19:00:00	26-Sep-19 20:00:00		5.09	0.00	0.00	5.08	2.1	329.7		1.68	0.00	0.00	1.68		10.35	18.92	83.84	86.68	26-Sep-19 19:00:00		12.03	18.92	83.84	88.36
26-Sep-19 20:00:00	26-Sep-19 21:00:00		0.18	0.00	0.00	5.26	2.1	329.7		0.06	0.00	0.00	1.73		10.35	18.92	83.84	86.68	26-Sep-19 20:00:00		10.41	18.92	83.84	88.41
26-Sep-19 21:00:00	26-Sep-19 22:00:00		0.93	0.00	0.00	5.38	2.1	329.7		0.31	0.00	0.00	1.78		10.35	18.92	83.84	86.68	26-Sep-19 21:00:00		10.66	18.92	83.84	88.46
26-Sep-19 22:00:00	26-Sep-19 23:00:00		17.77	0.00	0.00	5.52	2.1	329.7		5.86	0.00	0.00	1.82		10.35	18.92	83.84	86.68	26-Sep-19 22:00:00		16.21	18.92	83.84	88.50
26-Sep-19 23:00:00	27-Sep-19 00:00:00		23.81	0.00	0.00	5.73	2.1	329.7		7.85	0.00	0.00	1.89		10.35	18.92	83.84	86.68	26-Sep-19 23:00:00		18.20	18.92	83.84	88.57
27-Sep-19 00:00:00	27-Sep-19 01:00:00		5.75	0.00	0.00	5.93	2.1	329.7		1.89	0.00	0.00	1.96		10.35	18.92	83.84	86.68	27-Sep-19 00:00:00		12.24	18.92	83.84	88.64
27-Sep-19 01:00:00	27-Sep-19 02:00:00		8.17	0.00	0.00	6.06	2.1	329.7		2.69	0.00	0.00	2.00		10.35	18.92	83.84	86.68	27-Sep-19 01:00:00		13.04	18.92	83.84	88.68
27-Sep-19 02:00:00	27-Sep-19 03:00:00		14.29	0.00	0.00	6.08	2.1	329.7		4.71	0.00	0.00	2.00		10.35	18.92	83.84	86.68	27-Sep-19 02:00:00		15.06	18.92	83.84	88.68
27-Sep-19 03:00:00	27-Sep-19 04:00:00		29.48	0.00	0.00	6.15	2.1	329.7		9.72	0.00	0.00	2.03		10.35	18.92	83.84	86.68	27-Sep-19 03:00:00		20.07	18.92	83.84	88.71
27-Sep-19 04:00:00	27-Sep-19 05:00:00		30.79	0.00	0.00	6.23	2.1	329.7		10.15	0.00	0.00	2.05		10.35	18.92	83.84	86.68	27-Sep-19 04:00:00		20.50	18.92	83.84	88.73
27-Sep-19 05:00:00	27-Sep-19 06:00:00		31.86	0.00	0.00	6.32	2.1	329.7		10.50	0.00	0.00	2.08		10.35	18.92	83.84	86.68	27-Sep-19 05:00:00		20.85	18.92	83.84	88.76
27-Sep-19 06:00:00	27-Sep-19 07:00:00		37.57	0.00	0.00	6.34	2.1	329.7		12.39	0.00	0.00	2.09		10.35	18.92	83.84	86.68	27-Sep-19 06:00:00		22.74	18.92	83.84	88.77
27-Sep-19 07:00:00	27-Sep-19 08:00:00		35.76	0.00	0.00	6.33	2.1	329.7		11.79	0.00	0.00	2.09		10.35	18.92	83.84	86.68	27-Sep-19 07:00:00		22.14	18.92	83.84	88.77
27-Sep-19 08:00:00	27-Sep-19 09:00:00		34.67	0.00	0.00	6.31	2.1	329.7		11.43	0.00	0.00	2.08		10.35	18.92	83.84	86.68	27-Sep-19 08:00:00		21.78	18.92	83.84	88.76
27-Sep-19 09:00:00	27-Sep-19 10:00:00		33.95	0.00	0.00	6.25	2.1	329.7		11.19	0.00	0.00	2.06		10.35	18.92	83.84	86.68	27-Sep-19 09:00:00		21.54	18.92	83.84	88.74
27-Sep-19 10:00:00	27-Sep-19 11:00:00		33.23	0.00	0.00	5.95	2.1	329.7		10.96	0.00	0.00	1.96		10.35	18.92	83.84	86.68	27-Sep-19 10:00:00		21.31	18.92	83.84	88.64
27-Sep-19 11:00:00	27-Sep-19 12:00:00		25.50	0.00	0.00	5.64	2.1	329.7		8.41	0.00	0.00	1.86		10.35	18.92	83.84	86.68	27-Sep-19 11:00:00		18.76	18.92	83.84	88.54
27-Sep-19 12:00:00	27-Sep-19 13:00:00		22.87	0.00	0.00	5.33	2.1	329.7		7.54	0.00	0.00	1.76		10.35	18.92	83.84	86.68	27-Sep-19 12:00:00		17.89	18.92	83.84	88.44
27-Sep-19 13:00:00	27-Sep-19 14:00:00		17.42	0.00	0.00	5.10	2.1	329.7		5.74	0.00	0.00	1.68		10.35	18.92	83.84	86.68	27-Sep-19 13:00:00		16.09	18.92	83.84	88.36
27-Sep-19 14:00:00	27-Sep-19 15:00:00		33.39	0.00	0.00	5.28	2.1	329.7		11.01	0.00	0.00	1.74		10.35	18.92	83.84	86.68	27-Sep-19 14:00:00		21.36	18.92	83.84	88.42
27-Sep-19 15:00:00	27-Sep-19 16:00:00		31.90	0.00	0.00	5.51	2.1	329.7		10.52	0.00	0.00	1.82		10.35	18.92	83.84	86.68	27-Sep-19 15:00:00		20.87	18.92	83.84	88.50
27-Sep-19 16:00:00	27-Sep-19 17:00:00		28.08	0.00	0.00	5.74	2.1	329.7		9.26	0.00	0.00	1.89		10.35	18.92	83.84	86.68	27-Sep-19 16:00:00		19.61	18.92	83.84	88.57
27-Sep-19 17:00:00	27-Sep-19 18:00:00		28.86	0.00	0.00	5.86	2.1	329.7		9.51	0.00	0.00	1.93		10.35	18.92	83.84	86.68	27-Sep-19 17:00:00		19.86	18.92	83.84	88.61
27-Sep-19 18:00:00	27-Sep-19 19:00:00		9.32	0.00	0.00	5.80	2.1	329.7		3.07	0.00	0.00	1.91		10.35	18.92	83.84	86.68	27-Sep-19 18:00:00		13.42	18.92	83.84	88.59
27-Sep-19 19:00:00	27-Sep-19 20:00:00		15.67	0.00	0.00	5.84	2.1	329.7		5.17	0.00	0.00	1.93		10.35	18.92	83.84	86.68	27-Sep-19 19:00:00		15.52	18.92	83.84	88.61
27-Sep-19 20:00:00	27-Sep-19 21:00:00		13.45	0.00	0.00	5.89	2.1	329.7		4.44	0.00	0.00	1.94		10.35	18.92	83.84	86.68	27-Sep-19 20:00:00		14.79	18.92	83.84	88.62
27-Sep-19 21:00:00	27-Sep-19 22:00:00		34.78	0.00	0.00	5.93	2.1	329.7		11.47	0.00	0.00	1.96		10.35	18.92	83.84	86.68	27-Sep-19 21:00:00		21.82	18.92	83.84	88.64
27-Sep-19 22:00:00	27-Sep-19 23:00:00		26.12	0.00	0.00	6.07	2.1	329.7		8.61	0.00	0.00	2.00		10.35	18.92	83.84	86.68	27-Sep-19 22:00:00		18.96	18.92	83.84	88.68
27-Sep-19 23:00:00	28-Sep-19 00:00:00		11.23	0.00	0.00	6.23	2.1	329.7		3.70	0.00	0.00	2.05		10.35	18.92	83.84	86.68	27-Sep-19 23:00:00		14.05	18.92	83.84	88.73
28-Sep-19 00:00:00	28-Sep-19 01:00:00		27.36	0.00	0.00	6.39	2.1	329.7		9.02	0.00	0.00	2.11		10.35	18.92	83.84	86.68	28-Sep-19 00:00:00		19.37	18.92	83.84	88.79
28-Sep-19 01:00:00	28-Sep-19 02:00:00		38.74	0.00	0.00	6.46	2.1	329.7		12.77	0.00	0.00	2.13		10.35	18.92	83.84	86.68	28-Sep-19 01:00:00		23.12	18.92	83.84	88.81
28-Sep-19 02:00:00	28-Sep-19 03:00:00		32.60	0.00	0.00	6.35	2.1	329.7		10.75	0.00	0.00	2.09		10.35	18.92	83.84	86.68	28-Sep-19 02:00:00		21.10	18.92	83.84	88.77
28-Sep-19 03:00:00	28-Sep-19 04:00:00		17.95	0.00	0.00	6.32	2.1	329.7		5.92	0.00	0.00	2.08		10.35	18.92	83.84	86.68	28-Sep-19 03:00:00		16.27	18.92	83.84	88.76
28-Sep-19 04:00:00	28-Sep-19 05:00:00		16.66	0.00	0.00	6.30	2.1	329.7		5.49	0.00	0.00	2.08		10.35	18.92	83.84	86.68	28-Sep-19 04:00:00		15.84	18.92	83.84	88.76
28-Sep-19 05:00:00	28-Sep-19 06:00:00		19.09	0.00	0.00	6.33	2.1	329.7		6.29	0.00	0.00	2.09		10.35	18.92	83.84	86.68	28-Sep-19 05:00:00		16.64	18.92	83.84	88.77
28-Sep-19 06:00:00	28-Sep-19 07:00:00		22.97	0.00	0.00	6.36	2.1	329.7		7.57	0.00	0.00	2.10		10.35	18.92	83.84	86.68	28-Sep-19 06:00:00		17.92	18.92	83.84	88.78
28-Sep-19 07:00:00	28-Sep-19 08:00:00		110.05	0.00	0.00	6.31	2.1	329.7		36.28	0.00	0.00	2.08		10.35	18.92	83.84	86.68	28-Sep-19 07:00:00		46.63	18.92	83.84	88.76
28-Sep-19 08:00:00	28-Sep-19 09:00:00		254.50	0.00	0.00	6.26	2.1	329.7		83.91	0.00	0.00	2.06		10.35	18.92	83.84	86.68	28-Sep-19 08:00:00		94.26	18.92	83.84	88.74
28-Sep-19 09:00:00	28-Sep-19 10:00:00		15.45	0.00	0.00	6.09	2.1	329.7		5.10	0.00	0.00	2.01		10.35	18.92	83.84	86.68	28-Sep-19 09:00:00		15.45	18.92	83.84	88.69
28-Sep-19 10:00:00	28-Sep-19 11:00:00		304.36	0.00	0.00	5.77	2.1	329.7		100.35	0.00	0.00	1.90		10.35	18.92	83.84	86.68	28-Sep-19 10:00:00		110.70	18.92	83.84	88.58
28-Sep-19 11:00:00	28-Sep-19 12:00:00		1,104.12	0.00	0.00	5.59	2.1	329.7		364.03	0.00	0.00	1.84		10.35	18.92	83.84	86.68	28-Sep-19 11:00:00		374.38	18.92	83.84	88.52
28-Sep-19 12:00:00	28-Sep-19 13:00:00		1,092.86	0.00	0.00	5.41	2.1	329.7		360.32	0.00	0.00	1.78		10.35	18.92	83.84	86.68	28-Sep-19 12:00:00		370.67	18.92	83.84	88.46
28-Sep-19 13:00:00	28-Sep-19 14:00:00		1,026.55	0.00	0.00	5.26	2.1	329.7		338.45	0.00	0.00	1.73		10.35	18.92	83.84	86.68	28-Sep-19 13:00:00		348.80	18.92	83.84	88.41
28-Sep-19 14:00:00	28-Sep-19 15:00:00		991.81	0.00	0.00	5.14	2.1	329.7		327.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	28-Sep-19 14:00:00		337.35	18.92	83.84	88.38
28-Sep-19 15:00:00	28-Sep-19 16:00:00		1,144.09	0.00	0.00	4.99	2.1	329.7		377.21	0.00	0.00	1.65		10.35	18.92	83.84	86.68	28-Sep-19 15:00:00		387.56	18.92	83.84	88.33
28-Sep-19 16:00:00	28-Sep-19 17:00:00		529.21	0.00	0.00	4.84	2.1	329.7		174.48	0.00	0.00	1.60		10.35	18.92	83.84	86.68	28-Sep-19 16:00:00		184.83	18.92	83.84	88.28
28-Sep-19 17:00:00	28-Sep-19 18:00:00		366.71	0.00	0.00	4.71	2.1	329.7		120.90	0.00	0.00	1.55		10.35	18.92	83.84	86.68	28-Sep-19 17:00:00		131.25	18.92	83.84	88.23
28-Sep-19 18:00:00	28-Sep-19 19:00:00		351.42	0.00	0.00	4.88	2.1	329.7		115.86	0.00	0.00	1.61		10.35	18.92	83.84	86.68	28-Sep-19 18:00:00		126.21	18.92	83.84	88.29
28-Sep-19 19:00:00	28-Sep-19 20:00:00		5.92	0.00	0.00	5.15	2.1	329.7		1.95	0.00	0.00	1.70		10.35	18.92	83.84	86.68	28-Sep-19 19:00:00		12.30	18.92	83.84	88.38
28-Sep-19 20:00:00	28-Sep-19 21:00:00		4.82	0.00	0.00	5.42	2.1	329.7		1.59	0.00	0.00	1.79		10.35	18.92	83.84	86.68	28-Sep-19 20:00:00		11.94	18.92	83.84	88.47
28-Sep-19 21:00:00	28-Sep-19 22:00:00		20.83	0.00	0.00	5.69	2.1	329.7		6.87	0.00	0.00	1.88		10.35	18.92	83.84	86.68	28-Sep-19 21:00:00		17.22	18.92	83.84	88.56
28-Sep-19 22:00:00	28-Sep-19 23:00:00		14.37	0.00	0.00	5.86	2.1	329.7		4.74	0.00	0.00	1.93		10.35	18.92	83.84	86.68	28-Sep-19 22:00:00		15.09	18.92	83.84	88.61
28-Sep-19 23:00:00	29-Sep-19 00:00:00		44.74	0.00	0.00	5.96	2.1	329.7		14.75	0.00	0.00	1.96		10.35	18.92	83.84	86.68	28-Sep-19 23:00:00		25.10	18.92	83.84	88.64
29-Sep-19 00:00:00	29-Sep-19 01:00:00		40.12	0.00	0.00	6.06	2.1	329.7		13.23	0.00	0.00	2.00		10.35	18.92	83.84	86.68	29-Sep-19 00:00:00		23.58	18.92	83.84	88.68
29-Sep-19 01:00:00	29-Sep-19 02:00:00		29.62	0.00	0.00	6.15	2.1	329.7		9.77	0.00	0.00	2.03		10.35	18.92	83.84	86.68	29-Sep-19 01:00:00		20.12	18.92	83.84	88.71
29-Sep-19 02:00:00	29-Sep-19 03:00:00		36.46	0.00	0.00	8.77	2.1	329.7		12.02	0.00	0.00	2.89		10.35	18.92	83.84	86.68	29-Sep-19 02:00:00		22.37	18.92	83.84	89.57
29-Sep-19 03:00:00	29-Sep-19 04:00:00		35.62	0.00	0.00	6.23	2.1	329.7		11.74	0.00	0.00	2.05		10.35	18.92	83.84	86.68	29-Sep-19 03:00:00		22.09	18.92	83.84	88.73
29-Sep-19 04:00:00	29-Sep-19 05:00:00		184.53	0.00	0.00	6.27	2.1	329.7		60.84	0.00	0.00	2.07		10.35	18.92	83.84	86.68	29-Sep-19 04:00:00		71.19	18.92	83.84	88.75
29-Sep-19 05:00:00	29-Sep-19 06:00:00		315.23	0.00	0.00	6.31	2.1	329.7		103.93	0.00	0.00	2.08		10.35	18.92	83.84	86.68	29-Sep-19 05:00:00		114.28	18.92	83.84	88.76
29-Sep-19 06:00:00	29-Sep-19 07:00:00		956.82	0.00	0.00	6.36	2.1	329.7		315.46	0.00	0.00	2.10		10.35	18.92	83.84	86.68	29-Sep-19 06:00:00		325.81	18.92	83.84	88.78
29-Sep-19 07:00:00	29-Sep-19 08:00:00		1,109.62	0.00	0.00	6.32	2.1	329.7		365.84	0.00	0.00	2.08		10.35	18.92	83.84	86.68	29-Sep-19 07:00:00		376.19	18.92	83.84	88.76
29-Sep-19 08:00:00	29-Sep-19 09:00:00		1,113.04	0.00	0.00	6.27	2.1	329.7		366.97	0.00	0.00	2.07		10.35	18.92	83.84	86.68	29-Sep-19 08:00:00		377.32	18.92	83.84	88.75
29-Sep-19 09:00:00	29-Sep-19 10:00:00		1,066.21	0.00	0.00	6.21	2.1	329.7		351.53	0.00	0.00	2.05		10.35	18.92	83.84	86.68	29-Sep-19 09:00:00		361.88	18.92	83.84	88.73
29-Sep-19 10:00:00	29-Sep-19 11:00:00		1,083.81	0.00	0.00	6.05	2.1	329.7		357.33	0.00	0.00	2.00		10.35	18.92	83.84	86.68	29-Sep-19 10:00:00		367.68	18.92	83.84	88.68
29-Sep-19 11:00:00	29-Sep-19 12:00:00		1,053.89	0.00	0.00	5.73	2.1	329.7		347.47	0.00	0.00	1.89		10.35	18.92	83.84	86.68	29-Sep-19 11:00:00		357.82	18.92	83.84	88.57
29-Sep-19 12:00:00	29-Sep-19 13:00:00		1,052.55	0.00	0.00	5.40	2.1	329.7		347.03	0.00	0.00	1.78		10.35	18.92	83.84	86.68	29-Sep-19 12:00:00		357.38	18.92	83.84	88.46
29-Sep-19 13:00:00	29-Sep-19 14:00:00		1,063.24	0.00	0.00	5.07	2.1	329.7		350.55	0.00	0.00	1.67		10.35	18.92	83.84	86.68	29-Sep-19 13:00:00		360.90	18.92	83.84	88.35
29-Sep-19 14:00:00	29-Sep-19 15:00:00		643.85	0.00	0.00	4.72	2.1	329.7		212.28	0.00	0.00	1.56		10.35	18.92	83.84	86.68	29-Sep-19 14:00:00		222.63	18.92	83.84	88.24
29-Sep-19 15:00:00	29-Sep-19 16:00:00		440.47	0.00	0.00	4.67	2.1	329.7		145.22	0.00	0.00	1.54		10.35	18.92	83.84	86.68	29-Sep-19 15:00:00		155.57	18.92	83.84	88.22
29-Sep-19 16:00:00	29-Sep-19 17:00:00		337.73	0.00	0.00	4.67	2.1	329.7		111.35	0.00	0.00	1.54		10.35	18.92	83.84	86.68	29-Sep-19 16:00:00		121.70	18.92	83.84	88.22
29-Sep-19 17:00:00	29-Sep-19 18:00:00		332.60	0.00	0.00	4.68	2.1	329.7		109.66	0.00	0.00	1.54		10.35	18.92	83.84	86.68	29-Sep-19 17:00:00		120.01	18.92	83.84	88.22
29-Sep-19 18:00:00	29-Sep-19 19:00:00		325.15	0.00	0.00	4.69	2.1	329.7		107.20	0.00	0.00	1.55		10.35	18.92	83.84	86.68	29-Sep-19 18:00:00		117.55	18.92	83.84	88.23
29-Sep-19 19:00:00	29-Sep-19 20:00:00		313.81	0.00	0.00	4.92	2.1	329.7		103.46	0.00	0.00	1.62		10.35	18.92	83.84	86.68	29-Sep-19 19:00:00		113.81	18.92	83.84	88.30
29-Sep-19 20:00:00	29-Sep-19 21:00:00		332.88	0.00	0.00	5.17	2.1	329.7		109.75	0.00	0.00	1.70		10.35	18.92	83.84	86.68	29-Sep-19 20:00:00		120.10	18.92	83.84	88.38
29-Sep-19 21:00:00	29-Sep-19 22:00:00		322.71	0.00	0.00	5.42	2.1	329.7		106.40	0.00	0.00	1.79		10.35	18.92	83.84	86.68	29-Sep-19 21:00:00		116.75	18.92	83.84	88.47
29-Sep-19 22:00:00	29-Sep-19 23:00:00		101.54	0.00	0.00	5.63	2.1	329.7		33.48	0.00	0.00	1.86		10.35	18.92	83.84	86.68	29-Sep-19 22:00:00		43.83	18.92	83.84	88.54
29-Sep-19 23:00:00	30-Sep-19 00:00:00		507.05	0.00	0.00	5.72	2.1	329.7		167.17	0.00	0.00	1.89		10.35	18.92	83.84	86.68	29-Sep-19 23:00:00		177.52	18.92	83.84	88.57
30-Sep-19 00:00:00	30-Sep-19 01:00:00		916.64	0.00	0.00	5.82	2.1	329.7		302.22	0.00	0.00	1.92		10.35	18.92	83.84	86.68	30-Sep-19 00:00:00		312.57	18.92	83.84	88.60
30-Sep-19 01:00:00	30-Sep-19 02:00:00

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
02-Oct-19 03:00:00	02-Oct-19 04:00:00		15.51	0.00	0.00	5.97	2.1	329.7		5.11	0.00	0.00	1.97		10.35	18.92	83.84	86.68	02-Oct-19 03:00:00		**15.46**	**18.92**	**83.84**	**88.65**
02-Oct-19 04:00:00	02-Oct-19 05:00:00		25.16	0.00	0.00	6.00	2.1	329.7		8.30	0.00	0.00	1.98		10.35	18.92	83.84	86.68	02-Oct-19 04:00:00		**18.65**	**18.92**	**83.84**	**88.66**
02-Oct-19 05:00:00	02-Oct-19 06:00:00		28.22	0.00	0.00	6.03	2.1	329.7		9.30	0.00	0.00	1.99		10.35	18.92	83.84	86.68	02-Oct-19 05:00:00		**19.65**	**18.92**	**83.84**	**88.67**
02-Oct-19 06:00:00	02-Oct-19 07:00:00		22.04	0.00	0.00	6.12	2.1	329.7		7.27	0.00	0.00	2.02		10.35	18.92	83.84	86.68	02-Oct-19 06:00:00		**17.62**	**18.92**	**83.84**	**88.70**
02-Oct-19 07:00:00	02-Oct-19 08:00:00		11.41	0.00	0.00	6.05	2.1	329.7		3.76	0.00	0.00	1.99		10.35	18.92	83.84	86.68	02-Oct-19 07:00:00		**14.11**	**18.92**	**83.84**	**88.67**
02-Oct-19 08:00:00	02-Oct-19 09:00:00		10.02	0.00	0.00	5.90	2.1	329.7		3.30	0.00	0.00	1.95		10.35	18.92	83.84	86.68	02-Oct-19 08:00:00		**13.65**	**18.92**	**83.84**	**88.63**
02-Oct-19 09:00:00	02-Oct-19 10:00:00		8.93	0.00	0.00	5.76	2.1	329.7		2.94	0.00	0.00	1.90		10.35	18.92	83.84	86.68	02-Oct-19 09:00:00		**13.29**	**18.92**	**83.84**	**88.58**
02-Oct-19 10:00:00	02-Oct-19 11:00:00		9.94	0.00	0.00	5.60	2.1	329.7		3.28	0.00	0.00	1.85		10.35	18.92	83.84	86.68	02-Oct-19 10:00:00		**13.63**	**18.92**	**83.84**	**88.53**
02-Oct-19 11:00:00	02-Oct-19 12:00:00		21.31	0.00	0.00	5.27	2.1	329.7		7.03	0.00	0.00	1.74		10.35	18.92	83.84	86.68	02-Oct-19 11:00:00		**17.38**	**18.92**	**83.84**	**88.42**
02-Oct-19 12:00:00	02-Oct-19 13:00:00		14.13	0.00	0.00	4.91	2.1	329.7		4.66	0.00	0.00	1.62		10.35	18.92	83.84	86.68	02-Oct-19 12:00:00		**15.01**	**18.92**	**83.84**	**88.30**
02-Oct-19 13:00:00	02-Oct-19 14:00:00		22.23	0.00	0.00	4.54	2.1	329.7		7.33	0.00	0.00	1.50		10.35	18.92	83.84	86.68	02-Oct-19 13:00:00		**17.68**	**18.92**	**83.84**	**88.18**
02-Oct-19 14:00:00	02-Oct-19 15:00:00		0.00	0.00	0.00	4.35	2.1	329.7		0.00	0.00	0.00	1.43		10.35	18.92	83.84	86.68	02-Oct-19 14:00:00		**10.35**	**18.92**	**83.84**	**88.11**
02-Oct-19 15:00:00	02-Oct-19 16:00:00		5.45	0.00	0.00	4.34	2.1	329.7		1.80	0.00	0.00	1.43		10.35	18.92	83.84	86.68	02-Oct-19 15:00:00		**12.15**	**18.92**	**83.84**	**88.11**
02-Oct-19 16:00:00	02-Oct-19 17:00:00		11.53	0.00	0.00	4.26	2.1	329.7		3.80	0.00	0.00	1.41		10.35	18.92	83.84	86.68	02-Oct-19 16:00:00		**14.15**	**18.92**	**83.84**	**88.09**
02-Oct-19 17:00:00	02-Oct-19 18:00:00		0.00	0.00	0.00	4.19	2.1	329.7		0.00	0.00	0.00	1.38		10.35	18.92	83.84	86.68	02-Oct-19 17:00:00		**10.35**	**18.92**	**83.84**	**88.06**
02-Oct-19 18:00:00	02-Oct-19 19:00:00		0.00	0.00	0.00	4.22	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	02-Oct-19 18:00:00		**10.35**	**18.92**	**83.84**	**88.07**
02-Oct-19 19:00:00	02-Oct-19 20:00:00		0.20	0.00	0.00	4.52	2.1	329.7		0.06	0.00	0.00	1.49		10.35	18.92	83.84	86.68	02-Oct-19 19:00:00		**10.41**	**18.92**	**83.84**	**88.17**
02-Oct-19 20:00:00	02-Oct-19 21:00:00		26.51	0.00	0.00	4.83	2.1	329.7		8.74	0.00	0.00	1.59		10.35	18.92	83.84	86.68	02-Oct-19 20:00:00		**19.09**	**18.92**	**83.84**	**88.27**
02-Oct-19 21:00:00	02-Oct-19 22:00:00		32.93	0.00	0.00	5.15	2.1	329.7		10.86	0.00	0.00	1.70		10.35	18.92	83.84	86.68	02-Oct-19 21:00:00		**21.21**	**18.92**	**83.84**	**88.38**
02-Oct-19 22:00:00	02-Oct-19 23:00:00		16.77	0.00	0.00	5.40	2.1	329.7		5.53	0.00	0.00	1.78		10.35	18.92	83.84	86.68	02-Oct-19 22:00:00		**15.88**	**18.92**	**83.84**	**88.46**
02-Oct-19 23:00:00	03-Oct-19 00:00:00		21.27	0.00	0.00	5.50	2.1	329.7		7.01	0.00	0.00	1.81		10.35	18.92	83.84	86.68	02-Oct-19 23:00:00		**17.36**	**18.92**	**83.84**	**88.49**
03-Oct-19 00:00:00	03-Oct-19 01:00:00		15.65	0.00	0.00	5.59	2.1	329.7		5.16	0.00	0.00	1.84		10.35	18.92	83.84	86.68	03-Oct-19 00:00:00		**15.51**	**18.92**	**83.84**	**88.52**
03-Oct-19 01:00:00	03-Oct-19 02:00:00		35.11	0.00	0.00	5.69	2.1	329.7		11.58	0.00	0.00	1.88		10.35	18.92	83.84	86.68	03-Oct-19 01:00:00		**21.93**	**18.92**	**83.84**	**88.56**
03-Oct-19 02:00:00	03-Oct-19 03:00:00		16.71	0.00	0.00	5.82	2.1	329.7		5.51	0.00	0.00	1.92		10.35	18.92	83.84	86.68	03-Oct-19 02:00:00		**15.86**	**18.92**	**83.84**	**88.60**
03-Oct-19 03:00:00	03-Oct-19 04:00:00		9.90	0.00	0.00	5.85	2.1	329.7		3.26	0.00	0.00	1.93		10.35	18.92	83.84	86.68	03-Oct-19 03:00:00		**13.61**	**18.92**	**83.84**	**88.61**
03-Oct-19 04:00:00	03-Oct-19 05:00:00		19.22	0.00	0.00	5.84	2.1	329.7		6.34	0.00	0.00	1.92		10.35	18.92	83.84	86.68	03-Oct-19 04:00:00		**16.69**	**18.92**	**83.84**	**88.60**
03-Oct-19 05:00:00	03-Oct-19 06:00:00		14.38	0.00	0.00	5.82	2.1	329.7		4.74	0.00	0.00	1.92		10.35	18.92	83.84	86.68	03-Oct-19 05:00:00		**15.09**	**18.92**	**83.84**	**88.60**
03-Oct-19 06:00:00	03-Oct-19 07:00:00		20.65	0.00	0.00	5.77	2.1	329.7		6.81	0.00	0.00	1.90		10.35	18.92	83.84	86.68	03-Oct-19 06:00:00		**17.16**	**18.92**	**83.84**	**88.58**
03-Oct-19 07:00:00	03-Oct-19 08:00:00		21.89	0.00	0.00	5.62	2.1	329.7		7.22	0.00	0.00	1.85		10.35	18.92	83.84	86.68	03-Oct-19 07:00:00		**17.57**	**18.92**	**83.84**	**88.53**
03-Oct-19 08:00:00	03-Oct-19 09:00:00		22.74	0.00	0.00	5.47	2.1	329.7		7.50	0.00	0.00	1.80		10.35	18.92	83.84	86.68	03-Oct-19 08:00:00		**17.85**	**18.92**	**83.84**	**88.48**
03-Oct-19 09:00:00	03-Oct-19 10:00:00		21.70	0.00	0.00	5.31	2.1	329.7		7.15	0.00	0.00	1.75		10.35	18.92	83.84	86.68	03-Oct-19 09:00:00		**17.50**	**18.92**	**83.84**	**88.43**
03-Oct-19 10:00:00	03-Oct-19 11:00:00		15.97	0.00	0.00	5.17	2.1	329.7		5.26	0.00	0.00	1.71		10.35	18.92	83.84	86.68	03-Oct-19 10:00:00		**15.61**	**18.92**	**83.84**	**88.39**
03-Oct-19 11:00:00	03-Oct-19 12:00:00		18.38	0.00	0.00	4.92	2.1	329.7		6.06	0.00	0.00	1.62		10.35	18.92	83.84	86.68	03-Oct-19 11:00:00		**16.41**	**18.92**	**83.84**	**88.30**
03-Oct-19 12:00:00	03-Oct-19 13:00:00		38.20	0.00	0.00	4.63	2.1	329.7		12.59	0.00	0.00	1.53		10.35	18.92	83.84	86.68	03-Oct-19 12:00:00		**22.94**	**18.92**	**83.84**	**88.21**
03-Oct-19 13:00:00	03-Oct-19 14:00:00		4.11	0.00	0.00	4.34	2.1	329.7		1.36	0.00	0.00	1.43		10.35	18.92	83.84	86.68	03-Oct-19 13:00:00		**11.71**	**18.92**	**83.84**	**88.11**
03-Oct-19 14:00:00	03-Oct-19 15:00:00		3.49	0.00	0.00	4.11	2.1	329.7		1.15	0.00	0.00	1.35		10.35	18.92	83.84	86.68	03-Oct-19 14:00:00		**11.50**	**18.92**	**83.84**	**88.03**
03-Oct-19 15:00:00	03-Oct-19 16:00:00		2.81	0.00	0.00	4.09	2.1	329.7		0.93	0.00	0.00	1.35		10.35	18.92	83.84	86.68	03-Oct-19 15:00:00		**11.28**	**18.92**	**83.84**	**88.03**
03-Oct-19 16:00:00	03-Oct-19 17:00:00		0.00	0.00	0.00	4.09	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	03-Oct-19 16:00:00		**10.35**	**18.92**	**83.84**	**88.03**
03-Oct-19 17:00:00	03-Oct-19 18:00:00		0.00	0.00	0.00	4.09	2.1	329.7		0.00	0.00	0.00	1.35		10.35	18.92	83.84	86.68	03-Oct-19 17:00:00		**10.35**	**18.92**	**83.84**	**88.03**
03-Oct-19 18:00:00	03-Oct-19 19:00:00		0.00	0.00	0.00	4.13	2.1	329.7		0.00	0.00	0.00	1.36		10.35	18.92	83.84	86.68	03-Oct-19 18:00:00		**10.35**	**18.92**	**83.84**	**88.04**
03-Oct-19 19:00:00	03-Oct-19 20:00:00		0.00	0.00	0.00	4.44	2.1	329.7		0.00	0.00	0.00	1.46		10.35	18.92	83.84	86.68	03-Oct-19 19:00:00		**10.35**	**18.92**	**83.84**	**88.14**
03-Oct-19 20:00:00	03-Oct-19 21:00:00		2.79	0.00	0.00	4.78	2.1	329.7		0.92	0.00	0.00	1.58		10.35	18.92	83.84	86.68	03-Oct-19 20:00:00		**11.27**	**18.92**	**83.84**	**88.26**
03-Oct-19 21:00:00	03-Oct-19 22:00:00		11.22	0.00	0.00	5.12	2.1	329.7		3.70	0.00	0.00	1.69		10.35	18.92	83.84	86.68	03-Oct-19 21:00:00		**14.05**	**18.92**	**83.84**	**88.37**
03-Oct-19 22:00:00	03-Oct-19 23:00:00		20.75	0.00	0.00	5.45	2.1	329.7		6.84	0.00	0.00	1.80		10.35	18.92	83.84	86.68	03-Oct-19 22:00:00		**17.19**	**18.92**	**83.84**	**88.48**
03-Oct-19 23:00:00	04-Oct-19 00:00:00		10.65	0.00	0.00	5.62	2.1	329.7		3.51	0.00	0.00	1.85		10.35	18.92	83.84	86.68	03-Oct-19 23:00:00		**13.86**	**18.92**	**83.84**	**88.53**
04-Oct-19 00:00:00	04-Oct-19 01:00:00		23.41	0.00	0.00	5.74	2.1	329.7		7.72	0.00	0.00	1.89		10.35	18.92	83.84	86.68	04-Oct-19 00:00:00		**18.07**	**18.92**	**83.84**	**88.57**
04-Oct-19 01:00:00	04-Oct-19 02:00:00		13.23	0.00	0.00	5.87	2.1	329.7		4.36	0.00	0.00	1.94		10.35	18.92	83.84	86.68	04-Oct-19 01:00:00		**14.71**	**18.92**	**83.84**	**88.62**
04-Oct-19 02:00:00	04-Oct-19 03:00:00		25.27	0.00	0.00	5.95	2.1	329.7		8.33	0.00	0.00	1.96		10.35	18.92	83.84	86.68	04-Oct-19 02:00:00		**18.68**	**18.92**	**83.84**	**88.64**
04-Oct-19 03:00:00	04-Oct-19 04:00:00		16.37	0.00	0.00	5.97	2.1	329.7		5.40	0.00	0.00	1.97		10.35	18.92	83.84	86.68	04-Oct-19 03:00:00		**15.75**	**18.92**	**83.84**	**88.65**
04-Oct-19 04:00:00	04-Oct-19 05:00:00		20.75	0.00	0.00	6.02	2.1	329.7		6.84	0.00	0.00	1.98		10.35	18.92	83.84	86.68	04-Oct-19 04:00:00		**17.19**	**18.92**	**83.84**	**88.66**
04-Oct-19 05:00:00	04-Oct-19 06:00:00		21.09	0.00	0.00	6.07	2.1	329.7		6.95	0.00	0.00	2.00		10.35	18.92	83.84	86.68	04-Oct-19 05:00:00		**17.30**	**18.92**	**83.84**	**88.68**
04-Oct-19 06:00:00	04-Oct-19 07:00:00		10.70	0.00	0.00	6.06	2.1	329.7		3.53	0.00	0.00	2.00		10.35	18.92	83.84	86.68	04-Oct-19 06:00:00		**13.88**	**18.92**	**83.84**	**88.68**
04-Oct-19 07:00:00	04-Oct-19 08:00:00		7.69	0.00	0.00	5.91	2.1	329.7		2.54	0.00	0.00	1.95		10.35	18.92	83.84	86.68	04-Oct-19 07:00:00		**12.89**	**18.92**	**83.84**	**88.63**
04-Oct-19 08:00:00	04-Oct-19 09:00:00		7.06	0.00	0.00	5.77	2.1	329.7		2.33	0.00	0.00	1.90		10.35	18.92	83.84	86.68	04-Oct-19 08:00:00		**12.68**	**18.92**	**83.84**	**88.58**
04-Oct-19 09:00:00	04-Oct-19 10:00:00		4.76	0.00	0.00	5.63	2.1	329.7		1.57	0.00	0.00	1.85		10.35	18.92	83.84	86.68	04-Oct-19 09:00:00		**11.92**	**18.92**	**83.84**	**88.53**
04-Oct-19 10:00:00	04-Oct-19 11:00:00		7.25	0.00	0.00	5.39	2.1	329.7		2.39	0.00	0.00	1.78		10.35	18.92	83.84	86.68	04-Oct-19 10:00:00		**12.74**	**18.92**	**83.84**	**88.46**
04-Oct-19 11:00:00	04-Oct-19 12:00:00		14.77	0.00	0.00	5.12	2.1	329.7		4.87	0.00	0.00	1.69		10.35	18.92	83.84	86.68	04-Oct-19 11:00:00		**15.22**	**18.92**	**83.84**	**88.37**
04-Oct-19 12:00:00	04-Oct-19 13:00:00		11.51	0.00	0.00	4.93	2.1	329.7		3.79	0.00	0.00	1.63		10.35	18.92	83.84	86.68	04-Oct-19 12:00:00		**14.14**	**18.92**	**83.84**	**88.31**
04-Oct-19 13:00:00	04-Oct-19 14:00:00		6.95	0.00	0.00	4.74	2.1	329.7		2.29	0.00	0.00	1.56		10.35	18.92	83.84	86.68	04-Oct-19 13:00:00		**12.64**	**18.92**	**83.84**	**88.24**
04-Oct-19 14:00:00	04-Oct-19 15:00:00		0.03	0.00	0.00	4.54	2.1	329.7		0.01	0.00	0.00	1.50		10.35	18.92	83.84	86.68	04-Oct-19 14:00:00		**10.36**	**18.92**	**83.84**	**88.18**
04-Oct-19 15:00:00	04-Oct-19 16:00:00		10.73	0.00	0.00	4.47	2.1	329.7		3.54	0.00	0.00	1.48		10.35	18.92	83.84	86.68	04-Oct-19 15:00:00		**13.89**	**18.92**	**83.84**	**88.16**
04-Oct-19 16:00:00	04-Oct-19 17:00:00		23.64	0.00	0.00	4.47	2.1	329.7		7.80	0.00	0.00	1.47		10.35	18.92	83.84	86.68	04-Oct-19 16:00:00		**18.15**	**18.92**	**83.84**	**88.15**
04-Oct-19 17:00:00	04-Oct-19 18:00:00		22.56	0.00	0.00	4.46	2.1	329.7		7.44	0.00	0.00	1.47		10.35	18.92	83.84	86.68	04-Oct-19 17:00:00		**17.79**	**18.92**	**83.84**	**88.15**
04-Oct-19 18:00:00	04-Oct-19 19:00:00		24.01	0.00	0.00	4.48	2.1	329.7		7.92	0.00	0.00	1.48		10.35	18.92	83.84	86.68	04-Oct-19 18:00:00		**18.27**	**18.92**	**83.84**	**88.16**
04-Oct-19 19:00:00	04-Oct-19 20:00:00		25.81	0.00	0.00	4.71	2.1	329.7		8.51	0.00	0.00	1.55		10.35	18.92	83.84	86.68	04-Oct-19 19:00:00		**18.86**	**18.92**	**83.84**	**88.23**
04-Oct-19 20:00:00	04-Oct-19 21:00:00		20.25	0.00	0.00	4.99	2.1	329.7		6.68	0.00	0.00	1.65		10.35	18.92	83.84	86.68	04-Oct-19 20:00:00		**17.03**	**18.92**	**83.84**	**88.33**
04-Oct-19 21:00:00	04-Oct-19 22:00:00		11.94	0.00	0.00	5.27	2.1	329.7		3.94	0.00	0.00	1.74		10.35	18.92	83.84	86.68	04-Oct-19 21:00:00		**14.29**	**18.92**	**83.84**	**88.42**
04-Oct-19 22:00:00	04-Oct-19 23:00:00		0.00	0.00	0.00	5.50	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	04-Oct-19 22:00:00		**10.35**	**18.92**	**83.84**	**88.49**
04-Oct-19 23:00:00	05-Oct-19 00:00:00		0.00	0.00	0.00	5.64	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	04-Oct-19 23:00:00		**10.35**	**18.92**	**83.84**	**88.54**
05-Oct-19 00:00:00	05-Oct-19 01:00:00		0.27	0.00	0.00	5.82	2.1	329.7		0.09	0.00	0.00	1.92		10.35	18.92	83.84	86.68	05-Oct-19 00:00:00		**10.44**	**18.92**	**83.84**	**88.60**
05-Oct-19 01:00:00	05-Oct-19 02:00:00		4.98	0.00	0.00	6.00	2.1	329.7		1.64	0.00	0.00	1.98		10.35	18.92	83.84	86.68	05-Oct-19 01:00:00		**11.99**	**18.92**	**83.84**	**88.66**
05-Oct-19 02:00:00	05-Oct-19 03:00:00		21.07	0.00	0.00	6.17	2.1	329.7		6.95	0.00	0.00	2.03		10.35	18.92	83.84	86.68	05-Oct-19 02:00:00		**17.30**	**18.92**	**83.84**	**88.71**
05-Oct-19 03:00:00	05-Oct-19 04:00:00		7.16	0.00	0.00	6.35	2.1	329.7		2.36	0.00	0.00	2.09		10.35	18.92	83.84	86.68	05-Oct-19 03:00:00		**12.71**	**18.92**	**83.84**	**88.77**
05-Oct-19 04:00:00	05-Oct-19 05:00:00		6.57	0.00	0.00	6.54	2.1	329.7		2.16	0.00	0.00	2.16		10.35	18.92	83.84	86.68	05-Oct-19 04:00:00		**12.51**	**18.92**	**83.84**	**88.84**
05-Oct-19 05:00:00	05-Oct-19 06:00:00		9.65	0.00	0.00	6.74	2.1	329.7		3.18	0.00	0.00	2.22		10.35	18.92	83.84	86.68	05-Oct-19 05:00:00		**13.53**	**18.92**	**83.84**	**88.90**
05-Oct-19 06:00:00	05-Oct-19 07:00:00		20.70	0.00	0.00	6.90	2.1	329.7		6.83	0.00	0.00	2.27		10.35	18.92	83.84	86.68	05-Oct-19 06:00:00		**17.18**	**18.92**	**83.84**	**88.95**
05-Oct-19 07:00:00	05-Oct-19 08:00:00		19.56	0.00	0.00	6.87	2.1	329.7		6.45	0.00	0.00	2.26		10.35	18.92	83.84	86.68	05-Oct-19 07:00:00		**16.80**	**18.92**	**83.84**	**88.94**
05-Oct-19 08:00:00	05-Oct-19 09:00:00		19.45	0.00	0.00	6.80	2.1	329.7		6.41	0.00	0.00	2.24		10.35	18.92	83.84	86.68	05-Oct-19 08:00:00		**16.76**	**18.92**	**83.84**	**88.92**
05-Oct-19 09:00:00	05-Oct-19 10:00:00		16.40	0.00	0.00	6.72	2.1	329.7		5.41	0.00	0.00	2.22		10.35	18.92	83.84	86.68	05-Oct-19 09:00:00		**15.76**	**18.92**	**83.84**	**88.90**
05-Oct-19 10:00:00	05-Oct-19 11:00:00		15.96	0.00	0.00	6.61	2.1	329.7		5.26	0.00	0.00	2.18		10.35	18.92	83.84	86.68	05-Oct-19 10:00:00		**15.61**	**18.92**	**83.84**	**88.86**
05-Oct-19 11:00:00	05-Oct-19 12:00:00		9.61	0.00	0.00	6.55	2.1	329.7		3.17	0.00	0.00	2.16		10.35	18.92	83.84	86.68	05-Oct-19 11:00:00		**13.52**	**18.92**	**83.84**	**88.84**
05-Oct-19 12:00:00	05-Oct-19 13:00:00		4.74	0.00	0.00	6.55	2.1	329.7		1.56	0.00	0.00	2.16		10.35	18.92	83.84	86.68	05-Oct-19 12:00:00		**11.91**	**18.92**	**83.84**	**88.84**
05-Oct-19 13:00:00	05-Oct-19 14:00:00		3.65	0.00	0.00	6.55	2.1	329.7		1.20	0.00	0.00	2.16		10.35	18.92	83.84	86.68	05-Oct-19 13:00:00		**11.55**	**18.92**	**83.84**	**88.84**
05-Oct-19 14:00:00	05-Oct-19 15:00:00		9.04	0.00	0.00	6.58	2.1	329.7		2.98	0.00	0.00	2.17		10.35	18.92	83.84	86.68	05-Oct-19 14:00:00		**13.33**	**18.92**	**83.84**	**88.85**
05-Oct-19 15:00:00	05-Oct-19 16:00:00		11.78	0.00	0.00	6.54	2.1	329.7		3.89	0.00	0.00	2.16		10.35	18.92	83.84	86.68	05-Oct-19 15:00:00		**14.24**	**18.92**	**83.84**	**88.84**
05-Oct-19 16:00:00	05-Oct-19 17:00:00		95.95	0.00	0.00	6.46	2.1	329.7		31.63	0.00	0.00	2.13		10.35	18.92	83.84	86.68	05-Oct-19 16:00:00		**41.98**	**18.92**	**83.84**	**88.81**
05-Oct-19 17:00:00	05-Oct-19 18:00:00		153.31	0.00	0.00	6.37	2.1	329.7		50.55	0.00	0.00	2.10		10.35	18.92	83.84	86.68	05-Oct-19 17:00:00		**60.90**	**18.92**	**83.84**	**88.78**
05-Oct-19 18:00:00	05-Oct-19 19:00:00		11.20	0.00	0.00	6.30	2.1	329.7		3.69	0.00	0.00	2.08		10.35	18.92	83.84	86.68	05-Oct-19 18:00:00		**14.04**	**18.92**	**83.84**	**88.76**
05-Oct-19 19:00:00	05-Oct-19 20:00:00		19.69	0.00	0.00	6.34	2.1	329.7		6.49	0.00	0.00	2.09		10.35	18.92	83.84	86.68	05-Oct-19 19:00:00		**16.84**	**18.92**	**83.84**	**88.77**
05-Oct-19 20:00:00	05-Oct-19 21:00:00		57.00	0.00	0.00	6.42	2.1	329.7		18.79	0.00	0.00	2.12		10.35	18.92	83.84	86.68	05-Oct-19 20:00:00		**29.14**	**18.92**	**83.84**	**88.80**
05-Oct-19 21:00:00	05-Oct-19 22:00:00		56.68	0.00	0.00	6.49	2.1	329.7		18.69	0.00	0.00	2.14		10.35	18.92	83.84	86.68	05-Oct-19 21:00:00		**29.04**	**18.92**	**83.84**	**88.82**
05-Oct-19 22:00:00	05-Oct-19 23:00:00		40.65	0.00	0.00	6.50	2.1	329.7		13.40	0.00	0.00	2.14		10.35	18.92	83.84	86.68	05-Oct-19 22:00:00		**23.75**	**18.92**	**83.84**	**88.82**
05-Oct-19 23:00:00	06-Oct-19 00:00:00		50.47	0.00	0.00	6.44	2.1	329.7		16.64	0.00	0.00	2.12		10.35	18.92	83.84	86.68	05-Oct-19 23:00:00		**26.99**	**18.92**	**83.84**	**88.80**
06-Oct-19 00:00:00	06-Oct-19 01:00:00		59.59	0.00	0.00	6.42

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
08-Oct-19 02:00:00	08-Oct-19 03:00:00		0.00	0.00	0.00	5.49	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	08-Oct-19 02:00:00		**10.35**	**18.92**	**83.84**	**88.49**
08-Oct-19 03:00:00	08-Oct-19 04:00:00		0.00	0.00	0.00	5.41	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	08-Oct-19 03:00:00		**10.35**	**18.92**	**83.84**	**88.46**
08-Oct-19 04:00:00	08-Oct-19 05:00:00		0.00	0.00	0.00	5.34	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	08-Oct-19 04:00:00		**10.35**	**18.92**	**83.84**	**88.44**
08-Oct-19 05:00:00	08-Oct-19 06:00:00		0.00	0.00	0.00	5.38	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	08-Oct-19 05:00:00		**10.35**	**18.92**	**83.84**	**88.45**
08-Oct-19 06:00:00	08-Oct-19 07:00:00		0.00	0.00	0.00	5.44	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	08-Oct-19 06:00:00		**10.35**	**18.92**	**83.84**	**88.47**
08-Oct-19 07:00:00	08-Oct-19 08:00:00		0.00	0.00	0.00	5.50	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	08-Oct-19 07:00:00		**10.35**	**18.92**	**83.84**	**88.49**
08-Oct-19 08:00:00	08-Oct-19 09:00:00		0.00	0.00	0.00	5.63	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	08-Oct-19 08:00:00		**10.35**	**18.92**	**83.84**	**88.54**
08-Oct-19 09:00:00	08-Oct-19 10:00:00		0.00	0.00	0.00	5.62	2.1	329.7		0.00	0.00	0.00	1.85		10.35	18.92	83.84	86.68	08-Oct-19 09:00:00		**10.35**	**18.92**	**83.84**	**88.53**
08-Oct-19 10:00:00	08-Oct-19 11:00:00		0.00	0.00	0.00	8.53	2.1	329.7		0.00	0.00	0.00	2.81		10.35	18.92	83.84	86.68	08-Oct-19 10:00:00		**10.35**	**18.92**	**83.84**	**89.49**
08-Oct-19 11:00:00	08-Oct-19 12:00:00		0.00	0.00	0.00	5.44	2.1	329.7		0.00	0.00	0.00	1.80		10.35	18.92	83.84	86.68	08-Oct-19 11:00:00		**10.35**	**18.92**	**83.84**	**88.48**
08-Oct-19 12:00:00	08-Oct-19 13:00:00		0.00	0.00	0.00	5.43	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	08-Oct-19 12:00:00		**10.35**	**18.92**	**83.84**	**88.47**
08-Oct-19 13:00:00	08-Oct-19 14:00:00		0.00	0.00	0.00	5.42	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	08-Oct-19 13:00:00		**10.35**	**18.92**	**83.84**	**88.47**
08-Oct-19 14:00:00	08-Oct-19 15:00:00		0.00	0.00	0.00	5.42	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	08-Oct-19 14:00:00		**10.35**	**18.92**	**83.84**	**88.47**
08-Oct-19 15:00:00	08-Oct-19 16:00:00		0.00	0.00	0.00	5.50	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	08-Oct-19 15:00:00		**10.35**	**18.92**	**83.84**	**88.49**
08-Oct-19 16:00:00	08-Oct-19 17:00:00		0.01	0.00	0.00	5.52	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	08-Oct-19 16:00:00		**10.35**	**18.92**	**83.84**	**88.50**
08-Oct-19 17:00:00	08-Oct-19 18:00:00		0.06	0.00	0.00	5.54	2.1	329.7		0.02	0.00	0.00	1.83		10.35	18.92	83.84	86.68	08-Oct-19 17:00:00		**10.37**	**18.92**	**83.84**	**88.51**
08-Oct-19 18:00:00	08-Oct-19 19:00:00		0.82	0.00	0.00	5.56	2.1	329.7		0.27	0.00	0.00	1.83		10.35	18.92	83.84	86.68	08-Oct-19 18:00:00		**10.62**	**18.92**	**83.84**	**88.51**
08-Oct-19 19:00:00	08-Oct-19 20:00:00		9.70	0.00	0.00	5.61	2.1	329.7		3.20	0.00	0.00	1.85		10.35	18.92	83.84	86.68	08-Oct-19 19:00:00		**13.55**	**18.92**	**83.84**	**88.53**
08-Oct-19 20:00:00	08-Oct-19 21:00:00		7.38	0.00	0.00	5.68	2.1	329.7		2.43	0.00	0.00	1.87		10.35	18.92	83.84	86.68	08-Oct-19 20:00:00		**12.78**	**18.92**	**83.84**	**88.55**
08-Oct-19 21:00:00	08-Oct-19 22:00:00		11.95	0.00	0.00	5.74	2.1	329.7		3.94	0.00	0.00	1.89		10.35	18.92	83.84	86.68	08-Oct-19 21:00:00		**14.29**	**18.92**	**83.84**	**88.57**
08-Oct-19 22:00:00	08-Oct-19 23:00:00		3.64	0.00	0.00	5.80	2.1	329.7		1.20	0.00	0.00	1.91		10.35	18.92	83.84	86.68	08-Oct-19 22:00:00		**11.55**	**18.92**	**83.84**	**88.59**
08-Oct-19 23:00:00	09-Oct-19 00:00:00		11.78	0.00	0.00	5.87	2.1	329.7		3.88	0.00	0.00	1.93		10.35	18.92	83.84	86.68	08-Oct-19 23:00:00		**14.23**	**18.92**	**83.84**	**88.61**
09-Oct-19 00:00:00	09-Oct-19 01:00:00		40.25	0.00	0.00	5.94	2.1	329.7		13.27	0.00	0.00	1.96		10.35	18.92	83.84	86.68	09-Oct-19 00:00:00		**23.62**	**18.92**	**83.84**	**88.64**
09-Oct-19 01:00:00	09-Oct-19 02:00:00		32.77	0.00	0.00	6.01	2.1	329.7		10.80	0.00	0.00	1.98		10.35	18.92	83.84	86.68	09-Oct-19 01:00:00		**21.15**	**18.92**	**83.84**	**88.66**
09-Oct-19 02:00:00	09-Oct-19 03:00:00		1.26	0.00	0.00	6.06	2.1	329.7		0.42	0.00	0.00	2.00		10.35	18.92	83.84	86.68	09-Oct-19 02:00:00		**10.77**	**18.92**	**83.84**	**88.68**
09-Oct-19 03:00:00	09-Oct-19 04:00:00		2.14	0.00	0.00	6.05	2.1	329.7		0.71	0.00	0.00	2.00		10.35	18.92	83.84	86.68	09-Oct-19 03:00:00		**11.06**	**18.92**	**83.84**	**88.68**
09-Oct-19 04:00:00	09-Oct-19 05:00:00		0.62	0.00	0.00	6.16	2.1	329.7		0.20	0.00	0.00	2.03		10.35	18.92	83.84	86.68	09-Oct-19 04:00:00		**10.55**	**18.92**	**83.84**	**88.71**
09-Oct-19 05:00:00	09-Oct-19 06:00:00		1.82	0.00	0.00	6.27	2.1	329.7		0.60	0.00	0.00	2.07		10.35	18.92	83.84	86.68	09-Oct-19 05:00:00		**10.95**	**18.92**	**83.84**	**88.75**
09-Oct-19 06:00:00	09-Oct-19 07:00:00		22.83	0.00	0.00	6.37	2.1	329.7		7.53	0.00	0.00	2.10		10.35	18.92	83.84	86.68	09-Oct-19 06:00:00		**17.88**	**18.92**	**83.84**	**88.78**
09-Oct-19 07:00:00	09-Oct-19 08:00:00		13.16	0.00	0.00	6.30	2.1	329.7		4.34	0.00	0.00	2.08		10.35	18.92	83.84	86.68	09-Oct-19 07:00:00		**14.69**	**18.92**	**83.84**	**88.76**
09-Oct-19 08:00:00	09-Oct-19 09:00:00		21.77	0.00	0.00	6.19	2.1	329.7		7.18	0.00	0.00	2.04		10.35	18.92	83.84	86.68	09-Oct-19 08:00:00		**17.53**	**18.92**	**83.84**	**88.72**
09-Oct-19 09:00:00	09-Oct-19 10:00:00		30.06	0.00	0.00	6.07	2.1	329.7		9.91	0.00	0.00	2.00		10.35	18.92	83.84	86.68	09-Oct-19 09:00:00		**20.26**	**18.92**	**83.84**	**88.68**
09-Oct-19 10:00:00	09-Oct-19 11:00:00		36.23	0.00	0.00	5.94	2.1	329.7		11.95	0.00	0.00	1.96		10.35	18.92	83.84	86.68	09-Oct-19 10:00:00		**22.30**	**18.92**	**83.84**	**88.64**
09-Oct-19 11:00:00	09-Oct-19 12:00:00		36.48	0.00	0.00	5.72	2.1	329.7		12.03	0.00	0.00	1.89		10.35	18.92	83.84	86.68	09-Oct-19 11:00:00		**22.38**	**18.92**	**83.84**	**88.57**
09-Oct-19 12:00:00	09-Oct-19 13:00:00		27.42	0.00	0.00	5.51	2.1	329.7		9.04	0.00	0.00	1.82		10.35	18.92	83.84	86.68	09-Oct-19 12:00:00		**19.39**	**18.92**	**83.84**	**88.50**
09-Oct-19 13:00:00	09-Oct-19 14:00:00		2.85	0.00	0.00	5.30	2.1	329.7		0.94	0.00	0.00	1.75		10.35	18.92	83.84	86.68	09-Oct-19 13:00:00		**11.29**	**18.92**	**83.84**	**88.43**
09-Oct-19 14:00:00	09-Oct-19 15:00:00		3.87	0.00	0.00	5.09	2.1	329.7		1.27	0.00	0.00	1.68		10.35	18.92	83.84	86.68	09-Oct-19 14:00:00		**11.62**	**18.92**	**83.84**	**88.36**
09-Oct-19 15:00:00	09-Oct-19 16:00:00		27.50	0.00	0.00	5.01	2.1	329.7		9.07	0.00	0.00	1.65		10.35	18.92	83.84	86.68	09-Oct-19 15:00:00		**19.42**	**18.92**	**83.84**	**88.33**
09-Oct-19 16:00:00	09-Oct-19 17:00:00		7.54	0.00	0.00	4.95	2.1	329.7		2.48	0.00	0.00	1.63		10.35	18.92	83.84	86.68	09-Oct-19 16:00:00		**12.83**	**18.92**	**83.84**	**88.31**
09-Oct-19 17:00:00	09-Oct-19 18:00:00		7.25	0.00	0.00	4.92	2.1	329.7		2.39	0.00	0.00	1.62		10.35	18.92	83.84	86.68	09-Oct-19 17:00:00		**12.74**	**18.92**	**83.84**	**88.30**
09-Oct-19 18:00:00	09-Oct-19 19:00:00		19.48	0.00	0.00	4.90	2.1	329.7		6.42	0.00	0.00	1.62		10.35	18.92	83.84	86.68	09-Oct-19 18:00:00		**16.77**	**18.92**	**83.84**	**88.30**
09-Oct-19 19:00:00	09-Oct-19 20:00:00		18.83	0.00	0.00	4.87	2.1	329.7		6.21	0.00	0.00	1.61		10.35	18.92	83.84	86.68	09-Oct-19 19:00:00		**16.56**	**18.92**	**83.84**	**88.29**
09-Oct-19 20:00:00	09-Oct-19 21:00:00		18.86	0.00	0.00	5.10	2.1	329.7		6.22	0.00	0.00	1.68		10.35	18.92	83.84	86.68	09-Oct-19 20:00:00		**16.57**	**18.92**	**83.84**	**88.36**
09-Oct-19 21:00:00	09-Oct-19 22:00:00		19.60	0.00	0.00	5.41	2.1	329.7		6.46	0.00	0.00	1.78		10.35	18.92	83.84	86.68	09-Oct-19 21:00:00		**16.81**	**18.92**	**83.84**	**88.46**
09-Oct-19 22:00:00	09-Oct-19 23:00:00		20.43	0.00	0.00	5.73	2.1	329.7		6.73	0.00	0.00	1.89		10.35	18.92	83.84	86.68	09-Oct-19 22:00:00		**17.08**	**18.92**	**83.84**	**88.57**
09-Oct-19 23:00:00	10-Oct-19 00:00:00		15.40	0.00	0.00	6.01	2.1	329.7		5.08	0.00	0.00	1.98		10.35	18.92	83.84	86.68	09-Oct-19 23:00:00		**15.43**	**18.92**	**83.84**	**88.66**
10-Oct-19 00:00:00	10-Oct-19 01:00:00		11.86	0.00	0.00	6.10	2.1	329.7		3.91	0.00	0.00	2.01		10.35	18.92	83.84	86.68	10-Oct-19 00:00:00		**14.26**	**18.92**	**83.84**	**88.69**
10-Oct-19 01:00:00	10-Oct-19 02:00:00		4.79	0.00	0.00	6.15	2.1	329.7		1.58	0.00	0.00	2.03		10.35	18.92	83.84	86.68	10-Oct-19 01:00:00		**11.93**	**18.92**	**83.84**	**88.71**
10-Oct-19 02:00:00	10-Oct-19 03:00:00		6.15	0.00	0.00	6.19	2.1	329.7		2.03	0.00	0.00	2.04		10.35	18.92	83.84	86.68	10-Oct-19 02:00:00		**12.38**	**18.92**	**83.84**	**88.72**
10-Oct-19 03:00:00	10-Oct-19 04:00:00		11.78	0.00	0.00	6.18	2.1	329.7		3.88	0.00	0.00	2.04		10.35	18.92	83.84	86.68	10-Oct-19 03:00:00		**14.23**	**18.92**	**83.84**	**88.72**
10-Oct-19 04:00:00	10-Oct-19 05:00:00		28.95	0.00	0.00	6.14	2.1	329.7		9.55	0.00	0.00	2.02		10.35	18.92	83.84	86.68	10-Oct-19 04:00:00		**19.90**	**18.92**	**83.84**	**88.70**
10-Oct-19 05:00:00	10-Oct-19 06:00:00		31.90	0.00	0.00	6.17	2.1	329.7		10.52	0.00	0.00	2.03		10.35	18.92	83.84	86.68	10-Oct-19 05:00:00		**20.87**	**18.92**	**83.84**	**88.71**
10-Oct-19 06:00:00	10-Oct-19 07:00:00		44.98	0.00	0.00	6.20	2.1	329.7		14.83	0.00	0.00	2.05		10.35	18.92	83.84	86.68	10-Oct-19 06:00:00		**25.18**	**18.92**	**83.84**	**88.73**
10-Oct-19 07:00:00	10-Oct-19 08:00:00		43.28	0.00	0.00	6.16	2.1	329.7		14.27	0.00	0.00	2.03		10.35	18.92	83.84	86.68	10-Oct-19 07:00:00		**24.62**	**18.92**	**83.84**	**88.71**
10-Oct-19 08:00:00	10-Oct-19 09:00:00		41.70	0.00	0.00	6.06	2.1	329.7		13.75	0.00	0.00	2.00		10.35	18.92	83.84	86.68	10-Oct-19 08:00:00		**24.10**	**18.92**	**83.84**	**88.68**
10-Oct-19 09:00:00	10-Oct-19 10:00:00		40.34	0.00	0.00	6.03	2.1	329.7		13.30	0.00	0.00	1.99		10.35	18.92	83.84	86.68	10-Oct-19 09:00:00		**23.65**	**18.92**	**83.84**	**88.67**
10-Oct-19 10:00:00	10-Oct-19 11:00:00		40.05	0.00	0.00	6.01	2.1	329.7		13.20	0.00	0.00	1.98		10.35	18.92	83.84	86.68	10-Oct-19 10:00:00		**23.55**	**18.92**	**83.84**	**88.66**
10-Oct-19 11:00:00	10-Oct-19 12:00:00		37.79	0.00	0.00	5.87	2.1	329.7		12.46	0.00	0.00	1.94		10.35	18.92	83.84	86.68	10-Oct-19 11:00:00		**22.81**	**18.92**	**83.84**	**88.62**
10-Oct-19 12:00:00	10-Oct-19 13:00:00		30.99	0.00	0.00	5.54	2.1	329.7		10.22	0.00	0.00	1.83		10.35	18.92	83.84	86.68	10-Oct-19 12:00:00		**20.57**	**18.92**	**83.84**	**88.51**
10-Oct-19 13:00:00	10-Oct-19 14:00:00		2.43	0.00	0.00	5.27	2.1	329.7		0.80	0.00	0.00	1.74		10.35	18.92	83.84	86.68	10-Oct-19 13:00:00		**11.15**	**18.92**	**83.84**	**88.42**
10-Oct-19 14:00:00	10-Oct-19 15:00:00		3.49	0.00	0.00	4.99	2.1	329.7		1.15	0.00	0.00	1.65		10.35	18.92	83.84	86.68	10-Oct-19 14:00:00		**11.50**	**18.92**	**83.84**	**88.33**
10-Oct-19 15:00:00	10-Oct-19 16:00:00		7.56	0.00	0.00	4.75	2.1	329.7		2.49	0.00	0.00	1.57		10.35	18.92	83.84	86.68	10-Oct-19 15:00:00		**12.84**	**18.92**	**83.84**	**88.25**
10-Oct-19 16:00:00	10-Oct-19 17:00:00		4.40	0.00	0.00	4.72	2.1	329.7		1.45	0.00	0.00	1.56		10.35	18.92	83.84	86.68	10-Oct-19 16:00:00		**11.80**	**18.92**	**83.84**	**88.24**
10-Oct-19 17:00:00	10-Oct-19 18:00:00		6.02	0.00	0.00	4.72	2.1	329.7		1.98	0.00	0.00	1.56		10.35	18.92	83.84	86.68	10-Oct-19 17:00:00		**12.33**	**18.92**	**83.84**	**88.24**
10-Oct-19 18:00:00	10-Oct-19 19:00:00		0.18	0.00	0.00	4.72	2.1	329.7		0.06	0.00	0.00	1.56		10.35	18.92	83.84	86.68	10-Oct-19 18:00:00		**10.41**	**18.92**	**83.84**	**88.24**
10-Oct-19 19:00:00	10-Oct-19 20:00:00		0.36	0.00	0.00	4.79	2.1	329.7		0.12	0.00	0.00	1.58		10.35	18.92	83.84	86.68	10-Oct-19 19:00:00		**10.47**	**18.92**	**83.84**	**88.26**
10-Oct-19 20:00:00	10-Oct-19 21:00:00		0.55	0.00	0.00	5.07	2.1	329.7		0.18	0.00	0.00	1.67		10.35	18.92	83.84	86.68	10-Oct-19 20:00:00		**10.53**	**18.92**	**83.84**	**88.35**
10-Oct-19 21:00:00	10-Oct-19 22:00:00		1.26	0.00	0.00	5.34	2.1	329.7		0.41	0.00	0.00	1.76		10.35	18.92	83.84	86.68	10-Oct-19 21:00:00		**10.76**	**18.92**	**83.84**	**88.44**
10-Oct-19 22:00:00	10-Oct-19 23:00:00		2.77	0.00	0.00	5.61	2.1	329.7		0.91	0.00	0.00	1.85		10.35	18.92	83.84	86.68	10-Oct-19 22:00:00		**11.26**	**18.92**	**83.84**	**88.53**
10-Oct-19 23:00:00	11-Oct-19 00:00:00		6.24	0.00	0.00	5.84	2.1	329.7		2.06	0.00	0.00	1.93		10.35	18.92	83.84	86.68	10-Oct-19 23:00:00		**12.41**	**18.92**	**83.84**	**88.61**
11-Oct-19 00:00:00	11-Oct-19 01:00:00		0.34	0.00	0.00	5.96	2.1	329.7		0.11	0.00	0.00	1.96		10.35	18.92	83.84	86.68	11-Oct-19 00:00:00		**10.46**	**18.92**	**83.84**	**88.64**
11-Oct-19 01:00:00	11-Oct-19 02:00:00		4.43	0.00	0.00	6.07	2.1	329.7		1.46	0.00	0.00	2.00		10.35	18.92	83.84	86.68	11-Oct-19 01:00:00		**11.81**	**18.92**	**83.84**	**88.68**
11-Oct-19 02:00:00	11-Oct-19 03:00:00		18.88	0.00	0.00	6.19	2.1	329.7		6.22	0.00	0.00	2.04		10.35	18.92	83.84	86.68	11-Oct-19 02:00:00		**16.57**	**18.92**	**83.84**	**88.72**
11-Oct-19 03:00:00	11-Oct-19 04:00:00		32.35	0.00	0.00	6.35	2.1	329.7		10.67	0.00	0.00	2.09		10.35	18.92	83.84	86.68	11-Oct-19 03:00:00		**21.02**	**18.92**	**83.84**	**88.77**
11-Oct-19 04:00:00	11-Oct-19 05:00:00		7.23	0.00	0.00	6.41	2.1	329.7		2.38	0.00	0.00	2.11		10.35	18.92	83.84	86.68	11-Oct-19 04:00:00		**12.73**	**18.92**	**83.84**	**88.79**
11-Oct-19 05:00:00	11-Oct-19 06:00:00		1.63	0.00	0.00	6.38	2.1	329.7		0.54	0.00	0.00	2.11		10.35	18.92	83.84	86.68	11-Oct-19 05:00:00		**10.89**	**18.92**	**83.84**	**88.79**
11-Oct-19 06:00:00	11-Oct-19 07:00:00		0.89	0.00	0.00	6.36	2.1	329.7		0.29	0.00	0.00	2.10		10.35	18.92	83.84	86.68	11-Oct-19 06:00:00		**10.64**	**18.92**	**83.84**	**88.78**
11-Oct-19 07:00:00	11-Oct-19 08:00:00		1.39	0.00	0.00	6.31	2.1	329.7		0.46	0.00	0.00	2.08		10.35	18.92	83.84	86.68	11-Oct-19 07:00:00		**10.81**	**18.92**	**83.84**	**88.76**
11-Oct-19 08:00:00	11-Oct-19 09:00:00		3.30	0.00	0.00	6.12	2.1	329.7		1.09	0.00	0.00	2.02		10.35	18.92	83.84	86.68	11-Oct-19 08:00:00		**11.44**	**18.92**	**83.84**	**88.70**
11-Oct-19 09:00:00	11-Oct-19 10:00:00		4.29	0.00	0.00	5.89	2.1	329.7		1.42	0.00	0.00	1.94		10.35	18.92	83.84	86.68	11-Oct-19 09:00:00		**11.77**	**18.92**	**83.84**	**88.62**
11-Oct-19 10:00:00	11-Oct-19 11:00:00		4.41	0.00	0.00	5.66	2.1	329.7		1.45	0.00	0.00	1.87		10.35	18.92	83.84	86.68	11-Oct-19 10:00:00		**11.80**	**18.92**	**83.84**	**88.55**
11-Oct-19 11:00:00	11-Oct-19 12:00:00		4.70	0.00	0.00	5.43	2.1	329.7		1.55	0.00	0.00	1.79		10.35	18.92	83.84	86.68	11-Oct-19 11:00:00		**11.90**	**18.92**	**83.84**	**88.47**
11-Oct-19 12:00:00	11-Oct-19 13:00:00		3.32	0.00	0.00	5.24	2.1	329.7		1.09	0.00	0.00	1.73		10.35	18.92	83.84	86.68	11-Oct-19 12:00:00		**11.44**	**18.92**	**83.84**	**88.41**
11-Oct-19 13:00:00	11-Oct-19 14:00:00		0.35	0.00	0.00	5.06	2.1	329.7		0.11	0.00	0.00	1.67		10.35	18.92	83.84	86.68	11-Oct-19 13:00:00		**10.46**	**18.92**	**83.84**	**88.35**
11-Oct-19 14:00:00	11-Oct-19 15:00:00		0.18	0.00	0.00	4.88	2.1	329.7		0.06	0.00	0.00	1.61		10.35	18.92	83.84	86.68	11-Oct-19 14:00:00		**10.41**	**18.92**	**83.84**	**88.29**
11-Oct-19 15:00:00	11-Oct-19 16:00:00		3.82	0.00	0.00	4.69	2.1	329.7		1.26	0.00	0.00	1.55		10.35	18.92	83.84	86.68	11-Oct-19 15:00:00		**11.61**	**18.92**	**83.84**	**88.23**
11-Oct-19 16:00:00	11-Oct-19 17:00:00		2.60	0.00	0.00	4.71	2.1	329.7		0.86	0.00	0.00	1.55		10.35	18.92	83.84	86.68	11-Oct-19 16:00:00		**11.21**	**18.92**	**83.84**	**88.23**
11-Oct-19 17:00:00	11-Oct-19 18:00:00		0.33	0.00	0.00	4.83	2.1	329.7		0.11	0.00	0.00	1.59		10.35	18.92	83.84	86.68	11-Oct-19 17:00:00		**10.46**	**18.92**	**83.84**	**88.27**
11-Oct-19 18:00:00	11-Oct-19 19:00:00		0.75	0.00	0.00	4.95	2.1	329.7		0.25	0.00	0.00	1.63		10.35	18.92	83.84	86.68	11-Oct-19 18:00:00		**10.60**	**18.92**	**83.84**	**88.31**
11-Oct-19 19:00:00	11-Oct-19 20:00:00		1.17	0.00	0.00	5.07	2.1	329.7		0.39	0.00	0.00	1.67		10.35	18.92	83.84	86.68	11-Oct-19 19:00:00		**10.74**	**18.92**	**83.84**	**88.35**
11-Oct-19 20:00:00	11-Oct-19 21:00:00		1.56	0.00	0.00	5.24	2.1	329.7		0.51	0.00	0.00	1.73		10.35	18.92	83.84	86.68	11-Oct-19 20:00:00		**10.86**	**18.92**	**83.84**	**88.41**
11-Oct-19 21:00:00	11-Oct-19 22:00:00		2.40	0.00	0.00	5.41	2.1	329.7		0.79	0.00	0.00	1.78		10.35	18.92	83.84	86.68	11-Oct-19 21:00:00		**11.14**	**18.92**	**83.84**	**88.46**
11-Oct-19 22:00:00	11-Oct-19 23:00:00		0.00	0.00	0.00	5.58	2.1	329.7		0.00	0.00	0.00	1.84		10.35	18.92	83.84	86.68	11-Oct-19 22:00:00		**10.35**	**18.92**	**83.84**	**88.52**
11-Oct-19 23:00:00	12-Oct-19 00:00:00		0.00	0.00	0.00	5.74

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
14-Oct-19 01:00:00	14-Oct-19 02:00:00		0.00	0.00	0.00	5.75	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	14-Oct-19 01:00:00		**10.35**	**18.92**	**83.84**	**88.58**
14-Oct-19 02:00:00	14-Oct-19 03:00:00		0.00	0.00	0.00	5.78	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	14-Oct-19 02:00:00		**10.35**	**18.92**	**83.84**	**88.59**
14-Oct-19 03:00:00	14-Oct-19 04:00:00		1.91	0.00	0.00	5.84	2.1	329.7		0.63	0.00	0.00	1.92		10.35	18.92	83.84	86.68	14-Oct-19 03:00:00		**10.98**	**18.92**	**83.84**	**88.60**
14-Oct-19 04:00:00	14-Oct-19 05:00:00		1.65	0.00	0.00	5.95	2.1	329.7		0.54	0.00	0.00	1.96		10.35	18.92	83.84	86.68	14-Oct-19 04:00:00		**10.89**	**18.92**	**83.84**	**88.64**
14-Oct-19 05:00:00	14-Oct-19 06:00:00		2.67	0.00	0.00	6.02	2.1	329.7		0.88	0.00	0.00	1.98		10.35	18.92	83.84	86.68	14-Oct-19 05:00:00		**11.23**	**18.92**	**83.84**	**88.66**
14-Oct-19 06:00:00	14-Oct-19 07:00:00		4.54	0.00	0.00	6.08	2.1	329.7		1.50	0.00	0.00	2.01		10.35	18.92	83.84	86.68	14-Oct-19 06:00:00		**11.85**	**18.92**	**83.84**	**88.69**
14-Oct-19 07:00:00	14-Oct-19 08:00:00		34.91	0.00	0.00	6.14	2.1	329.7		11.51	0.00	0.00	2.02		10.35	18.92	83.84	86.68	14-Oct-19 07:00:00		**21.86**	**18.92**	**83.84**	**88.70**
14-Oct-19 08:00:00	14-Oct-19 09:00:00		13.13	0.00	0.00	5.99	2.1	329.7		4.33	0.00	0.00	1.97		10.35	18.92	83.84	86.68	14-Oct-19 08:00:00		**14.68**	**18.92**	**83.84**	**88.65**
14-Oct-19 09:00:00	14-Oct-19 10:00:00		0.00	0.00	0.00	5.77	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	14-Oct-19 09:00:00		**10.35**	**18.92**	**83.84**	**88.58**
14-Oct-19 10:00:00	14-Oct-19 11:00:00		0.00	0.00	0.00	5.56	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	14-Oct-19 10:00:00		**10.35**	**18.92**	**83.84**	**88.51**
14-Oct-19 11:00:00	14-Oct-19 12:00:00		0.00	0.00	0.00	5.35	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	14-Oct-19 11:00:00		**10.35**	**18.92**	**83.84**	**88.45**
14-Oct-19 12:00:00	14-Oct-19 13:00:00		2.94	0.00	0.00	5.17	2.1	329.7		0.97	0.00	0.00	1.70		10.35	18.92	83.84	86.68	14-Oct-19 12:00:00		**11.32**	**18.92**	**83.84**	**88.38**
14-Oct-19 13:00:00	14-Oct-19 14:00:00		2.62	0.00	0.00	4.98	2.1	329.7		0.86	0.00	0.00	1.64		10.35	18.92	83.84	86.68	14-Oct-19 13:00:00		**11.21**	**18.92**	**83.84**	**88.32**
14-Oct-19 14:00:00	14-Oct-19 15:00:00		8.59	0.00	0.00	4.79	2.1	329.7		2.83	0.00	0.00	1.58		10.35	18.92	83.84	86.68	14-Oct-19 14:00:00		**13.18**	**18.92**	**83.84**	**88.26**
14-Oct-19 15:00:00	14-Oct-19 16:00:00		1.07	0.00	0.00	4.61	2.1	329.7		0.35	0.00	0.00	1.52		10.35	18.92	83.84	86.68	14-Oct-19 15:00:00		**10.70**	**18.92**	**83.84**	**88.20**
14-Oct-19 16:00:00	14-Oct-19 17:00:00		1.91	0.00	0.00	4.65	2.1	329.7		0.63	0.00	0.00	1.53		10.35	18.92	83.84	86.68	14-Oct-19 16:00:00		**10.98**	**18.92**	**83.84**	**88.21**
14-Oct-19 17:00:00	14-Oct-19 18:00:00		1.51	0.00	0.00	4.74	2.1	329.7		0.50	0.00	0.00	1.56		10.35	18.92	83.84	86.68	14-Oct-19 17:00:00		**10.85**	**18.92**	**83.84**	**88.24**
14-Oct-19 18:00:00	14-Oct-19 19:00:00		2.03	0.00	0.00	4.83	2.1	329.7		0.67	0.00	0.00	1.59		10.35	18.92	83.84	86.68	14-Oct-19 18:00:00		**11.02**	**18.92**	**83.84**	**88.27**
14-Oct-19 19:00:00	14-Oct-19 20:00:00		2.56	0.00	0.00	4.93	2.1	329.7		0.84	0.00	0.00	1.63		10.35	18.92	83.84	86.68	14-Oct-19 19:00:00		**11.19**	**18.92**	**83.84**	**88.31**
14-Oct-19 20:00:00	14-Oct-19 21:00:00		8.31	0.00	0.00	5.21	2.1	329.7		2.74	0.00	0.00	1.72		10.35	18.92	83.84	86.68	14-Oct-19 20:00:00		**13.09**	**18.92**	**83.84**	**88.40**
14-Oct-19 21:00:00	14-Oct-19 22:00:00		5.07	0.00	0.00	5.55	2.1	329.7		1.67	0.00	0.00	1.83		10.35	18.92	83.84	86.68	14-Oct-19 21:00:00		**12.02**	**18.92**	**83.84**	**88.51**
14-Oct-19 22:00:00	14-Oct-19 23:00:00		8.79	0.00	0.00	5.88	2.1	329.7		2.90	0.00	0.00	1.94		10.35	18.92	83.84	86.68	14-Oct-19 22:00:00		**13.25**	**18.92**	**83.84**	**88.62**
14-Oct-19 23:00:00	15-Oct-19 00:00:00		3.98	0.00	0.00	6.22	2.1	329.7		1.31	0.00	0.00	2.05		10.35	18.92	83.84	86.68	14-Oct-19 23:00:00		**11.66**	**18.92**	**83.84**	**88.73**
15-Oct-19 00:00:00	15-Oct-19 01:00:00		5.00	0.00	0.00	6.33	2.1	329.7		1.65	0.00	0.00	2.09		10.35	18.92	83.84	86.68	15-Oct-19 00:00:00		**12.00**	**18.92**	**83.84**	**88.77**
15-Oct-19 01:00:00	15-Oct-19 02:00:00		3.10	0.00	0.00	6.33	2.1	329.7		1.02	0.00	0.00	2.09		10.35	18.92	83.84	86.68	15-Oct-19 01:00:00		**11.37**	**18.92**	**83.84**	**88.77**
15-Oct-19 02:00:00	15-Oct-19 03:00:00		0.52	0.00	0.00	6.33	2.1	329.7		0.17	0.00	0.00	2.09		10.35	18.92	83.84	86.68	15-Oct-19 02:00:00		**10.52**	**18.92**	**83.84**	**88.77**
15-Oct-19 03:00:00	15-Oct-19 04:00:00		0.72	0.00	0.00	6.32	2.1	329.7		0.24	0.00	0.00	2.08		10.35	18.92	83.84	86.68	15-Oct-19 03:00:00		**10.59**	**18.92**	**83.84**	**88.76**
15-Oct-19 04:00:00	15-Oct-19 05:00:00		3.29	0.00	0.00	6.31	2.1	329.7		1.08	0.00	0.00	2.08		10.35	18.92	83.84	86.68	15-Oct-19 04:00:00		**11.43**	**18.92**	**83.84**	**88.76**
15-Oct-19 05:00:00	15-Oct-19 06:00:00		6.25	0.00	0.00	6.34	2.1	329.7		2.06	0.00	0.00	2.09		10.35	18.92	83.84	86.68	15-Oct-19 05:00:00		**12.41**	**18.92**	**83.84**	**88.77**
15-Oct-19 06:00:00	15-Oct-19 07:00:00		1.65	0.00	0.00	6.37	2.1	329.7		0.54	0.00	0.00	2.10		10.35	18.92	83.84	86.68	15-Oct-19 06:00:00		**10.89**	**18.92**	**83.84**	**88.78**
15-Oct-19 07:00:00	15-Oct-19 08:00:00		1.20	0.00	0.00	6.38	2.1	329.7		0.40	0.00	0.00	2.10		10.35	18.92	83.84	86.68	15-Oct-19 07:00:00		**10.75**	**18.92**	**83.84**	**88.78**
15-Oct-19 08:00:00	15-Oct-19 09:00:00		0.80	0.00	0.00	6.11	2.1	329.7		0.26	0.00	0.00	2.01		10.35	18.92	83.84	86.68	15-Oct-19 08:00:00		**10.61**	**18.92**	**83.84**	**88.69**
15-Oct-19 09:00:00	15-Oct-19 10:00:00		0.49	0.00	0.00	5.83	2.1	329.7		0.16	0.00	0.00	1.92		10.35	18.92	83.84	86.68	15-Oct-19 09:00:00		**10.51**	**18.92**	**83.84**	**88.60**
15-Oct-19 10:00:00	15-Oct-19 11:00:00		0.17	0.00	0.00	5.54	2.1	329.7		0.06	0.00	0.00	1.83		10.35	18.92	83.84	86.68	15-Oct-19 10:00:00		**10.41**	**18.92**	**83.84**	**88.51**
15-Oct-19 11:00:00	15-Oct-19 12:00:00		5.55	0.00	0.00	5.27	2.1	329.7		1.83	0.00	0.00	1.74		10.35	18.92	83.84	86.68	15-Oct-19 11:00:00		**12.18**	**18.92**	**83.84**	**88.42**
15-Oct-19 12:00:00	15-Oct-19 13:00:00		1.46	0.00	0.00	5.14	2.1	329.7		0.48	0.00	0.00	1.69		10.35	18.92	83.84	86.68	15-Oct-19 12:00:00		**10.83**	**18.92**	**83.84**	**88.37**
15-Oct-19 13:00:00	15-Oct-19 14:00:00		0.18	0.00	35.58	5.00	2.1	329.7		0.06	0.00	11.73	1.65		10.35	18.92	83.84	86.68	15-Oct-19 13:00:00		**10.41**	**18.92**	**95.57**	**88.33**
15-Oct-19 14:00:00	15-Oct-19 15:00:00		2.58	0.00	0.00	4.86	2.1	329.7		0.85	0.00	0.00	1.60		10.35	18.92	83.84	86.68	15-Oct-19 14:00:00		**11.20**	**18.92**	**83.84**	**88.28**
15-Oct-19 15:00:00	15-Oct-19 16:00:00		28.10	0.00	0.00	4.76	2.1	329.7		9.26	0.00	0.00	1.57		10.35	18.92	83.84	86.68	15-Oct-19 15:00:00		**19.61**	**18.92**	**83.84**	**88.25**
15-Oct-19 16:00:00	15-Oct-19 17:00:00		30.10	0.00	0.00	4.90	2.1	329.7		9.92	0.00	0.00	1.61		10.35	18.92	83.84	86.68	15-Oct-19 16:00:00		**20.27**	**18.92**	**83.84**	**88.29**
15-Oct-19 17:00:00	15-Oct-19 18:00:00		28.90	0.00	0.00	4.99	2.1	329.7		9.53	0.00	0.00	1.64		10.35	18.92	83.84	86.68	15-Oct-19 17:00:00		**19.88**	**18.92**	**83.84**	**88.32**
15-Oct-19 18:00:00	15-Oct-19 19:00:00		16.14	0.00	0.00	5.08	2.1	329.7		5.32	0.00	0.00	1.67		10.35	18.92	83.84	86.68	15-Oct-19 18:00:00		**15.67**	**18.92**	**83.84**	**88.35**
15-Oct-19 19:00:00	15-Oct-19 20:00:00		0.00	0.00	0.00	5.19	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	15-Oct-19 19:00:00		**10.35**	**18.92**	**83.84**	**88.39**
15-Oct-19 20:00:00	15-Oct-19 21:00:00		0.00	0.00	0.00	5.43	2.1	329.7		0.00	0.00	0.00	1.79		10.35	18.92	83.84	86.68	15-Oct-19 20:00:00		**10.35**	**18.92**	**83.84**	**88.47**
15-Oct-19 21:00:00	15-Oct-19 22:00:00		0.24	0.00	0.00	5.64	2.1	329.7		0.08	0.00	0.00	1.86		10.35	18.92	83.84	86.68	15-Oct-19 21:00:00		**10.43**	**18.92**	**83.84**	**88.54**
15-Oct-19 22:00:00	15-Oct-19 23:00:00		4.70	0.00	0.00	5.85	2.1	329.7		1.55	0.00	0.00	1.93		10.35	18.92	83.84	86.68	15-Oct-19 22:00:00		**11.90**	**18.92**	**83.84**	**88.61**
15-Oct-19 23:00:00	16-Oct-19 00:00:00		0.25	0.00	0.00	6.06	2.1	329.7		0.08	0.00	0.00	2.00		10.35	18.92	83.84	86.68	15-Oct-19 23:00:00		**10.43**	**18.92**	**83.84**	**88.68**
16-Oct-19 00:00:00	16-Oct-19 01:00:00		0.00	0.00	0.00	6.13	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	16-Oct-19 00:00:00		**10.35**	**18.92**	**83.84**	**88.70**
16-Oct-19 01:00:00	16-Oct-19 02:00:00		0.00	0.00	0.00	6.11	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	16-Oct-19 01:00:00		**10.35**	**18.92**	**83.84**	**88.69**
16-Oct-19 02:00:00	16-Oct-19 03:00:00		0.00	0.00	0.00	6.08	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	16-Oct-19 02:00:00		**10.35**	**18.92**	**83.84**	**88.68**
16-Oct-19 03:00:00	16-Oct-19 04:00:00		0.00	0.00	0.00	6.06	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	16-Oct-19 03:00:00		**10.35**	**18.92**	**83.84**	**88.68**
16-Oct-19 04:00:00	16-Oct-19 05:00:00		0.00	0.00	0.00	6.08	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	16-Oct-19 04:00:00		**10.35**	**18.92**	**83.84**	**88.68**
16-Oct-19 05:00:00	16-Oct-19 06:00:00		0.00	0.00	0.00	6.06	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	16-Oct-19 05:00:00		**10.35**	**18.92**	**83.84**	**88.68**
16-Oct-19 06:00:00	16-Oct-19 07:00:00		0.00	0.00	0.00	6.05	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	16-Oct-19 06:00:00		**10.35**	**18.92**	**83.84**	**88.68**
16-Oct-19 07:00:00	16-Oct-19 08:00:00		0.00	0.00	0.00	6.04	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	16-Oct-19 07:00:00		**10.35**	**18.92**	**83.84**	**88.67**
16-Oct-19 08:00:00	16-Oct-19 09:00:00		0.00	0.00	0.00	6.02	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	16-Oct-19 08:00:00		**10.35**	**18.92**	**83.84**	**88.67**
16-Oct-19 09:00:00	16-Oct-19 10:00:00		0.00	0.00	0.00	5.98	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	16-Oct-19 09:00:00		**10.35**	**18.92**	**83.84**	**88.65**
16-Oct-19 10:00:00	16-Oct-19 11:00:00		0.00	0.00	0.00	5.94	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	16-Oct-19 10:00:00		**10.35**	**18.92**	**83.84**	**88.64**
16-Oct-19 11:00:00	16-Oct-19 12:00:00		0.00	0.00	0.00	5.91	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	16-Oct-19 11:00:00		**10.35**	**18.92**	**83.84**	**88.63**
16-Oct-19 12:00:00	16-Oct-19 13:00:00		0.49	0.00	0.00	5.94	2.1	329.7		0.16	0.00	0.00	1.96		10.35	18.92	83.84	86.68	16-Oct-19 12:00:00		**10.51**	**18.92**	**83.84**	**88.64**
16-Oct-19 13:00:00	16-Oct-19 14:00:00		0.00	0.00	0.00	5.88	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	16-Oct-19 13:00:00		**10.35**	**18.92**	**83.84**	**88.62**
16-Oct-19 14:00:00	16-Oct-19 15:00:00		0.00	0.00	0.00	5.83	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	16-Oct-19 14:00:00		**10.35**	**18.92**	**83.84**	**88.60**
16-Oct-19 15:00:00	16-Oct-19 16:00:00		0.00	0.00	0.00	5.81	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	16-Oct-19 15:00:00		**10.35**	**18.92**	**83.84**	**88.59**
16-Oct-19 16:00:00	16-Oct-19 17:00:00		0.00	0.00	0.00	5.96	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	16-Oct-19 16:00:00		**10.35**	**18.92**	**83.84**	**88.65**
16-Oct-19 17:00:00	16-Oct-19 18:00:00		0.74	0.00	0.00	5.94	2.1	329.7		0.24	0.00	0.00	1.96		10.35	18.92	83.84	86.68	16-Oct-19 17:00:00		**10.59**	**18.92**	**83.84**	**88.64**
16-Oct-19 18:00:00	16-Oct-19 19:00:00		3.85	0.00	0.00	5.93	2.1	329.7		1.27	0.00	0.00	1.95		10.35	18.92	83.84	86.68	16-Oct-19 18:00:00		**11.62**	**18.92**	**83.84**	**88.63**
16-Oct-19 19:00:00	16-Oct-19 20:00:00		0.53	0.00	0.00	5.92	2.1	329.7		0.18	0.00	0.00	1.95		10.35	18.92	83.84	86.68	16-Oct-19 19:00:00		**10.53**	**18.92**	**83.84**	**88.63**
16-Oct-19 20:00:00	16-Oct-19 21:00:00		0.95	0.00	0.00	6.11	2.1	329.7		0.31	0.00	0.00	2.02		10.35	18.92	83.84	86.68	16-Oct-19 20:00:00		**10.66**	**18.92**	**83.84**	**88.70**
16-Oct-19 21:00:00	16-Oct-19 22:00:00		5.52	0.00	0.00	6.41	2.1	329.7		1.82	0.00	0.00	2.11		10.35	18.92	83.84	86.68	16-Oct-19 21:00:00		**12.17**	**18.92**	**83.84**	**88.79**
16-Oct-19 22:00:00	16-Oct-19 23:00:00		2.16	0.00	0.00	11.10	2.1	329.7		0.71	0.00	0.00	3.66		10.35	18.92	83.84	86.68	16-Oct-19 22:00:00		**11.06**	**18.92**	**83.84**	**90.34**
16-Oct-19 23:00:00	17-Oct-19 00:00:00		4.41	0.00	0.00	6.67	2.1	329.7		1.45	0.00	0.00	2.20		10.35	18.92	83.84	86.68	16-Oct-19 23:00:00		**11.80**	**18.92**	**83.84**	**88.88**
17-Oct-19 00:00:00	17-Oct-19 01:00:00		19.09	0.00	0.00	6.81	2.1	329.7		6.29	0.00	0.00	2.25		10.35	18.92	83.84	86.68	17-Oct-19 00:00:00		**16.64**	**18.92**	**83.84**	**88.93**
17-Oct-19 01:00:00	17-Oct-19 02:00:00		12.64	0.00	0.00	6.96	2.1	329.7		4.17	0.00	0.00	2.29		10.35	18.92	83.84	86.68	17-Oct-19 01:00:00		**14.52**	**18.92**	**83.84**	**88.97**
17-Oct-19 02:00:00	17-Oct-19 03:00:00		0.47	0.00	0.00	7.24	2.1	329.7		0.16	0.00	0.00	2.39		10.35	18.92	83.84	86.68	17-Oct-19 02:00:00		**10.51**	**18.92**	**83.84**	**89.07**
17-Oct-19 03:00:00	17-Oct-19 04:00:00		22.95	0.00	0.00	7.32	2.1	329.7		7.57	0.00	0.00	2.41		10.35	18.92	83.84	86.68	17-Oct-19 03:00:00		**17.92**	**18.92**	**83.84**	**89.09**
17-Oct-19 04:00:00	17-Oct-19 05:00:00		16.73	0.00	0.00	7.38	2.1	329.7		5.52	0.00	0.00	2.43		10.35	18.92	83.84	86.68	17-Oct-19 04:00:00		**15.87**	**18.92**	**83.84**	**89.11**
17-Oct-19 05:00:00	17-Oct-19 06:00:00		5.61	0.00	0.00	7.44	2.1	329.7		1.85	0.00	0.00	2.45		10.35	18.92	83.84	86.68	17-Oct-19 05:00:00		**12.20**	**18.92**	**83.84**	**89.13**
17-Oct-19 06:00:00	17-Oct-19 07:00:00		12.36	0.00	0.00	7.49	2.1	329.7		4.08	0.00	0.00	2.47		10.35	18.92	83.84	86.68	17-Oct-19 06:00:00		**14.43**	**18.92**	**83.84**	**89.15**
17-Oct-19 07:00:00	17-Oct-19 08:00:00		11.45	0.00	0.00	7.18	2.1	329.7		3.78	0.00	0.00	2.37		10.35	18.92	83.84	86.68	17-Oct-19 07:00:00		**14.13**	**18.92**	**83.84**	**89.05**
17-Oct-19 08:00:00	17-Oct-19 09:00:00		3.47	0.00	0.00	6.86	2.1	329.7		1.14	0.00	0.00	2.26		10.35	18.92	83.84	86.68	17-Oct-19 08:00:00		**11.49**	**18.92**	**83.84**	**88.94**
17-Oct-19 09:00:00	17-Oct-19 10:00:00		0.17	0.00	0.00	6.54	2.1	329.7		0.06	0.00	0.00	2.16		10.35	18.92	83.84	86.68	17-Oct-19 09:00:00		**10.41**	**18.92**	**83.84**	**88.84**
17-Oct-19 10:00:00	17-Oct-19 11:00:00		1.14	0.00	0.00	6.27	2.1	329.7		0.38	0.00	0.00	2.07		10.35	18.92	83.84	86.68	17-Oct-19 10:00:00		**10.73**	**18.92**	**83.84**	**88.75**
17-Oct-19 11:00:00	17-Oct-19 12:00:00		0.67	0.00	0.00	6.09	2.1	329.7		0.22	0.00	0.00	2.01		10.35	18.92	83.84	86.68	17-Oct-19 11:00:00		**10.57**	**18.92**	**83.84**	**88.69**
17-Oct-19 12:00:00	17-Oct-19 13:00:00		15.83	0.00	0.00	5.91	2.1	329.7		5.22	0.00	0.00	1.95		10.35	18.92	83.84	86.68	17-Oct-19 12:00:00		**15.57**	**18.92**	**83.84**	**88.63**
17-Oct-19 13:00:00	17-Oct-19 14:00:00		1.88	0.00	0.00	5.72	2.1	329.7		0.62	0.00	0.00	1.89		10.35	18.92	83.84	86.68	17-Oct-19 13:00:00		**10.97**	**18.92**	**83.84**	**88.57**
17-Oct-19 14:00:00	17-Oct-19 15:00:00		3.14	0.00	0.00	5.60	2.1	329.7		1.03	0.00	0.00	1.85		10.35	18.92	83.84	86.68	17-Oct-19 14:00:00		**11.38**	**18.92**	**83.84**	**88.53**
17-Oct-19 15:00:00	17-Oct-19 16:00:00		13.48	0.00	0.00	5.55	2.1	329.7		4.44	0.00	0.00	1.83		10.35	18.92	83.84	86.68	17-Oct-19 15:00:00		**14.79**	**18.92**	**83.84**	**88.51**
17-Oct-19 16:00:00	17-Oct-19 17:00:00		33.84	0.00	0.00	5.50	2.1	329.7		11.16	0.00	0.00	1.81		10.35	18.92	83.84	86.68	17-Oct-19 16:00:00		**21.51**	**18.92**	**83.84**	**88.49**
17-Oct-19 17:00:00	17-Oct-19 18:00:00		46.57	0.00	0.00	5.45	2.1	329.7		15.35	0.00	0.00	1.80		10.35	18.92	83.84	86.68	17-Oct-19 17:00:00		**25.70**	**18.92**	**83.84**	**88.48**
17-Oct-19 18:00:00	17-Oct-19 19:00:00		46.51	0.00	0.00	5.36	2.1	329.7		15.33	0.00	0.00	1.77		10.35	18.92	83.84	86.68	17-Oct-19 18:00:00		**25.68**	**18.92**	**83.84**	**88.45**
17-Oct-19 19:00:00	17-Oct-19 20:00:00		27.85	0.00	0.00	5.49	2.1	329.7		9.18	0.00	0.00	1.81		10.35	18.92	83.84	86.68	17-Oct-19 19:00:00		**19.53**	**18.92**	**83.84**	**88.49**
17-Oct-19 20:00:00	17-Oct-19 21:00:00		11.11	0.00	0.00	5.65	2.1	329.7		3.66	0.00	0.00	1.86		10.35	18.92	83.84	86.68	17-Oct-19 20:00:00		**14.01**	**18.92**	**83.84**	**88.54**
17-Oct-19 21:00:00	17-Oct-19 22:00:00		8.94	0.00	0.00	5.80	2.1	329.7		2.95	0.00	0.00	1.91		10.35	18.92	83.84	86.68	17-Oct-19 21:00:00		**13.30**	**18.92**	**83.84**	**88.59**
17-Oct-19 22:00:00	17-Oct-19 23:00:00		3.24	0.00	0.00	5.91

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
20-Oct-19 00:00:00	20-Oct-19 01:00:00		0.00	0.00	0.00	5.84	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	20-Oct-19 00:00:00		10.35	18.92	83.84	88.61
20-Oct-19 01:00:00	20-Oct-19 02:00:00		0.00	0.00	0.00	5.73	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	20-Oct-19 01:00:00		10.35	18.92	83.84	88.57
20-Oct-19 02:00:00	20-Oct-19 03:00:00		2.10	0.00	0.00	5.60	2.1	329.7		0.69	0.00	0.00	1.85		10.35	18.92	83.84	86.68	20-Oct-19 02:00:00		11.04	18.92	83.84	88.53
20-Oct-19 03:00:00	20-Oct-19 04:00:00		1.61	0.00	0.00	5.46	2.1	329.7		0.53	0.00	0.00	1.80		10.35	18.92	83.84	86.68	20-Oct-19 03:00:00		10.88	18.92	83.84	88.48
20-Oct-19 04:00:00	20-Oct-19 05:00:00		5.61	0.00	0.00	5.33	2.1	329.7		1.85	0.00	0.00	1.76		10.35	18.92	83.84	86.68	20-Oct-19 04:00:00		12.20	18.92	83.84	88.44
20-Oct-19 05:00:00	20-Oct-19 06:00:00		33.96	0.00	0.00	5.46	2.1	329.7		11.20	0.00	0.00	1.80		10.35	18.92	83.84	86.68	20-Oct-19 05:00:00		21.55	18.92	83.84	88.48
20-Oct-19 06:00:00	20-Oct-19 07:00:00		34.20	0.00	0.00	5.44	2.1	329.7		11.28	0.00	0.00	1.79		10.35	18.92	83.84	86.68	20-Oct-19 06:00:00		21.63	18.92	83.84	88.47
20-Oct-19 07:00:00	20-Oct-19 08:00:00		34.07	0.00	0.00	5.40	2.1	329.7		11.23	0.00	0.00	1.78		10.35	18.92	83.84	86.68	20-Oct-19 07:00:00		21.58	18.92	83.84	88.46
20-Oct-19 08:00:00	20-Oct-19 09:00:00		33.94	0.00	0.00	5.36	2.1	329.7		11.19	0.00	0.00	1.77		10.35	18.92	83.84	86.68	20-Oct-19 08:00:00		21.54	18.92	83.84	88.45
20-Oct-19 09:00:00	20-Oct-19 10:00:00		33.99	0.00	0.00	5.55	2.1	329.7		11.21	0.00	0.00	1.83		10.35	18.92	83.84	86.68	20-Oct-19 09:00:00		21.56	18.92	83.84	88.51
20-Oct-19 10:00:00	20-Oct-19 11:00:00		35.73	0.00	0.00	5.57	2.1	329.7		11.78	0.00	0.00	1.84		10.35	18.92	83.84	86.68	20-Oct-19 10:00:00		22.13	18.92	83.84	88.52
20-Oct-19 11:00:00	20-Oct-19 12:00:00		35.61	0.00	0.00	5.58	2.1	329.7		11.74	0.00	0.00	1.84		10.35	18.92	83.84	86.68	20-Oct-19 11:00:00		22.09	18.92	83.84	88.52
20-Oct-19 12:00:00	20-Oct-19 13:00:00		9.21	0.00	0.00	5.58	2.1	329.7		3.04	0.00	0.00	1.84		10.35	18.92	83.84	86.68	20-Oct-19 12:00:00		13.39	18.92	83.84	88.52
20-Oct-19 13:00:00	20-Oct-19 14:00:00		15.28	0.00	0.00	5.25	2.1	329.7		5.04	0.00	0.00	1.73		10.35	18.92	83.84	86.68	20-Oct-19 13:00:00		15.39	18.92	83.84	88.41
20-Oct-19 14:00:00	20-Oct-19 15:00:00		7.04	0.00	0.00	5.01	2.1	329.7		2.32	0.00	0.00	1.65		10.35	18.92	83.84	86.68	20-Oct-19 14:00:00		12.67	18.92	83.84	88.33
20-Oct-19 15:00:00	20-Oct-19 16:00:00		3.22	0.00	0.00	4.80	2.1	329.7		1.06	0.00	0.00	1.58		10.35	18.92	83.84	86.68	20-Oct-19 15:00:00		11.41	18.92	83.84	88.26
20-Oct-19 16:00:00	20-Oct-19 17:00:00		0.00	0.00	0.00	4.59	2.1	329.7		0.00	0.00	0.00	1.51		10.35	18.92	83.84	86.68	20-Oct-19 16:00:00		10.35	18.92	83.84	88.19
20-Oct-19 17:00:00	20-Oct-19 18:00:00		0.00	0.00	0.00	4.21	2.1	329.7		0.00	0.00	0.00	1.39		10.35	18.92	83.84	86.68	20-Oct-19 17:00:00		10.35	18.92	83.84	88.07
20-Oct-19 18:00:00	20-Oct-19 19:00:00		0.00	0.00	0.00	4.36	2.1	329.7		0.00	0.00	0.00	1.44		10.35	18.92	83.84	86.68	20-Oct-19 18:00:00		10.35	18.92	83.84	88.12
20-Oct-19 19:00:00	20-Oct-19 20:00:00		0.04	0.00	0.00	4.57	2.1	329.7		0.01	0.00	0.00	1.51		10.35	18.92	83.84	86.68	20-Oct-19 19:00:00		10.36	18.92	83.84	88.19
20-Oct-19 20:00:00	20-Oct-19 21:00:00		0.63	0.00	0.00	4.77	2.1	329.7		0.21	0.00	0.00	1.57		10.35	18.92	83.84	86.68	20-Oct-19 20:00:00		10.56	18.92	83.84	88.25
20-Oct-19 21:00:00	20-Oct-19 22:00:00		1.39	0.00	0.00	4.95	2.1	329.7		0.46	0.00	0.00	1.63		10.35	18.92	83.84	86.68	20-Oct-19 21:00:00		10.81	18.92	83.84	88.31
20-Oct-19 22:00:00	20-Oct-19 23:00:00		2.15	0.00	0.00	5.16	2.1	329.7		0.71	0.00	0.00	1.70		10.35	18.92	83.84	86.68	20-Oct-19 22:00:00		11.06	18.92	83.84	88.38
20-Oct-19 23:00:00	21-Oct-19 00:00:00		3.50	0.00	0.00	5.38	2.1	329.7		1.15	0.00	0.00	1.77		10.35	18.92	83.84	86.68	20-Oct-19 23:00:00		11.50	18.92	83.84	88.45
21-Oct-19 00:00:00	21-Oct-19 01:00:00		4.13	0.00	0.00	5.59	2.1	329.7		1.36	0.00	0.00	1.84		10.35	18.92	83.84	86.68	21-Oct-19 00:00:00		11.71	18.92	83.84	88.52
21-Oct-19 01:00:00	21-Oct-19 02:00:00		4.46	0.00	0.00	5.84	2.1	329.7		1.47	0.00	0.00	1.93		10.35	18.92	83.84	86.68	21-Oct-19 01:00:00		11.82	18.92	83.84	88.61
21-Oct-19 02:00:00	21-Oct-19 03:00:00		11.02	0.00	0.00	5.89	2.1	329.7		3.63	0.00	0.00	1.94		10.35	18.92	83.84	86.68	21-Oct-19 02:00:00		13.98	18.92	83.84	88.62
21-Oct-19 03:00:00	21-Oct-19 04:00:00		10.09	0.00	0.00	5.92	2.1	329.7		3.33	0.00	0.00	1.95		10.35	18.92	83.84	86.68	21-Oct-19 03:00:00		13.68	18.92	83.84	88.63
21-Oct-19 04:00:00	21-Oct-19 05:00:00		14.88	0.00	0.00	5.96	2.1	329.7		4.91	0.00	0.00	1.96		10.35	18.92	83.84	86.68	21-Oct-19 04:00:00		15.26	18.92	83.84	88.64
21-Oct-19 05:00:00	21-Oct-19 06:00:00		14.39	0.00	0.00	5.85	2.1	329.7		4.75	0.00	0.00	1.93		10.35	18.92	83.84	86.68	21-Oct-19 05:00:00		15.10	18.92	83.84	88.61
21-Oct-19 06:00:00	21-Oct-19 07:00:00		4.32	0.00	0.00	5.81	2.1	329.7		1.43	0.00	0.00	1.92		10.35	18.92	83.84	86.68	21-Oct-19 06:00:00		11.78	18.92	83.84	88.60
21-Oct-19 07:00:00	21-Oct-19 08:00:00		4.34	0.00	0.00	5.79	2.1	329.7		1.43	0.00	0.00	1.91		10.35	18.92	83.84	86.68	21-Oct-19 07:00:00		11.78	18.92	83.84	88.59
21-Oct-19 08:00:00	21-Oct-19 09:00:00		4.36	0.00	0.00	5.77	2.1	329.7		1.44	0.00	0.00	1.90		10.35	18.92	83.84	86.68	21-Oct-19 08:00:00		11.79	18.92	83.84	88.58
21-Oct-19 09:00:00	21-Oct-19 10:00:00		4.38	0.00	0.00	5.69	2.1	329.7		1.44	0.00	0.00	1.88		10.35	18.92	83.84	86.68	21-Oct-19 09:00:00		11.79	18.92	83.84	88.56
21-Oct-19 10:00:00	21-Oct-19 11:00:00		4.68	0.00	0.00	5.52	2.1	329.7		1.54	0.00	0.00	1.82		10.35	18.92	83.84	86.68	21-Oct-19 10:00:00		11.89	18.92	83.84	88.50
21-Oct-19 11:00:00	21-Oct-19 12:00:00		5.25	0.00	0.00	5.35	2.1	329.7		1.73	0.00	0.00	1.76		10.35	18.92	83.84	86.68	21-Oct-19 11:00:00		12.08	18.92	83.84	88.44
21-Oct-19 12:00:00	21-Oct-19 13:00:00		6.72	0.00	0.00	53.13	2.1	329.7		2.22	0.00	0.00	17.52		10.35	18.92	83.84	86.68	21-Oct-19 12:00:00		12.57	18.92	83.84	104.20
21-Oct-19 13:00:00	21-Oct-19 14:00:00		8.59	0.00	0.00	4.99	2.1	329.7		2.83	0.00	0.00	1.65		10.35	18.92	83.84	86.68	21-Oct-19 13:00:00		13.18	18.92	83.84	88.33
21-Oct-19 14:00:00	21-Oct-19 15:00:00		0.61	0.00	0.00	24.55	2.1	329.7		0.20	0.00	0.00	8.10		10.35	18.92	83.84	86.68	21-Oct-19 14:00:00		10.55	18.92	83.84	94.78
21-Oct-19 15:00:00	21-Oct-19 16:00:00		0.41	0.00	0.00	175.17	2.1	329.7		0.14	0.00	0.00	57.75		10.35	18.92	83.84	86.68	21-Oct-19 15:00:00		10.49	18.92	83.84	144.43
21-Oct-19 16:00:00	21-Oct-19 17:00:00		0.22	0.00	0.00	4.83	2.1	329.7		0.07	0.00	0.00	1.59		10.35	18.92	83.84	86.68	21-Oct-19 16:00:00		10.42	18.92	83.84	88.27
21-Oct-19 17:00:00	21-Oct-19 18:00:00		0.03	0.00	0.00	4.94	2.1	329.7		0.01	0.00	0.00	1.63		10.35	18.92	83.84	86.68	21-Oct-19 17:00:00		10.36	18.92	83.84	88.31
21-Oct-19 18:00:00	21-Oct-19 19:00:00		0.00	0.00	0.00	5.05	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	21-Oct-19 18:00:00		10.35	18.92	83.84	88.34
21-Oct-19 19:00:00	21-Oct-19 20:00:00		0.00	0.00	0.00	5.15	2.1	329.7		0.00	0.00	0.00	1.70		10.35	18.92	83.84	86.68	21-Oct-19 19:00:00		10.35	18.92	83.84	88.38
21-Oct-19 20:00:00	21-Oct-19 21:00:00		0.00	0.00	0.00	157.15	2.1	329.7		0.00	0.00	0.00	51.81		10.35	18.92	83.84	86.68	21-Oct-19 20:00:00		10.35	18.92	83.84	138.49
21-Oct-19 21:00:00	21-Oct-19 22:00:00		0.00	0.00	0.00	5.40	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	21-Oct-19 21:00:00		10.35	18.92	83.84	88.46
21-Oct-19 22:00:00	21-Oct-19 23:00:00		0.00	0.00	0.00	5.40	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	21-Oct-19 22:00:00		10.35	18.92	83.84	88.46
21-Oct-19 23:00:00	22-Oct-19 00:00:00		0.00	0.00	0.00	5.39	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	21-Oct-19 23:00:00		10.35	18.92	83.84	88.46
22-Oct-19 00:00:00	22-Oct-19 01:00:00		0.00	0.00	0.00	5.38	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	22-Oct-19 00:00:00		10.35	18.92	83.84	88.45
22-Oct-19 01:00:00	22-Oct-19 02:00:00		0.00	0.00	0.00	28.23	2.1	329.7		0.00	0.00	0.00	9.31		10.35	18.92	83.84	86.68	22-Oct-19 01:00:00		10.35	18.92	83.84	95.99
22-Oct-19 02:00:00	22-Oct-19 03:00:00		0.00	0.00	0.00	5.88	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	22-Oct-19 02:00:00		10.35	18.92	83.84	88.62
22-Oct-19 03:00:00	22-Oct-19 04:00:00		0.00	0.00	0.00	5.81	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	22-Oct-19 03:00:00		10.35	18.92	83.84	88.60
22-Oct-19 04:00:00	22-Oct-19 05:00:00		0.00	0.00	0.00	5.74	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	22-Oct-19 04:00:00		10.35	18.92	83.84	88.57
22-Oct-19 05:00:00	22-Oct-19 06:00:00		0.00	0.00	0.00	5.67	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	22-Oct-19 05:00:00		10.35	18.92	83.84	88.55
22-Oct-19 06:00:00	22-Oct-19 07:00:00		0.00	0.00	0.00	5.53	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	22-Oct-19 06:00:00		10.35	18.92	83.84	88.50
22-Oct-19 07:00:00	22-Oct-19 08:00:00		0.00	0.00	0.00	216.28	2.1	329.7		0.00	0.00	0.00	71.31		10.35	18.92	83.84	86.68	22-Oct-19 07:00:00		10.35	18.92	83.84	157.99
22-Oct-19 08:00:00	22-Oct-19 09:00:00		0.00	0.00	0.00	5.22	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	22-Oct-19 08:00:00		10.35	18.92	83.84	88.40
22-Oct-19 09:00:00	22-Oct-19 10:00:00		0.00	0.00	0.00	5.07	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	22-Oct-19 09:00:00		10.35	18.92	83.84	88.35
22-Oct-19 10:00:00	22-Oct-19 11:00:00		0.00	0.00	0.00	4.92	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	22-Oct-19 10:00:00		10.35	18.92	83.84	88.30
22-Oct-19 11:00:00	22-Oct-19 12:00:00		0.00	0.00	0.00	4.72	2.1	329.7		0.00	0.00	0.00	1.56		10.35	18.92	83.84	86.68	22-Oct-19 11:00:00		10.35	18.92	83.84	88.24
22-Oct-19 12:00:00	22-Oct-19 13:00:00		0.00	0.00	0.00	164.63	2.1	329.7		0.00	0.00	0.00	54.28		10.35	18.92	83.84	86.68	22-Oct-19 12:00:00		10.35	18.92	83.84	140.96
22-Oct-19 13:00:00	22-Oct-19 14:00:00		10.12	0.00	0.00	4.82	2.1	329.7		3.34	0.00	0.00	1.59		10.35	18.92	83.84	86.68	22-Oct-19 13:00:00		13.69	18.92	83.84	88.27
22-Oct-19 14:00:00	22-Oct-19 15:00:00		5.23	0.00	0.00	4.96	2.1	329.7		1.73	0.00	0.00	1.64		10.35	18.92	83.84	86.68	22-Oct-19 14:00:00		12.08	18.92	83.84	88.32
22-Oct-19 15:00:00	22-Oct-19 16:00:00		8.33	0.00	0.00	5.10	2.1	329.7		2.75	0.00	0.00	1.68		10.35	18.92	83.84	86.68	22-Oct-19 15:00:00		13.10	18.92	83.84	88.36
22-Oct-19 16:00:00	22-Oct-19 17:00:00		18.92	0.00	0.00	5.23	2.1	329.7		6.24	0.00	0.00	1.72		10.35	18.92	83.84	86.68	22-Oct-19 16:00:00		16.59	18.92	83.84	88.40
22-Oct-19 17:00:00	22-Oct-19 18:00:00		0.73	0.00	0.00	5.05	2.1	329.7		0.24	0.00	0.00	1.66		10.35	18.92	83.84	86.68	22-Oct-19 17:00:00		10.59	18.92	83.84	88.34
22-Oct-19 18:00:00	22-Oct-19 19:00:00		0.38	0.00	0.00	17.04	2.1	329.7		0.12	0.00	0.00	5.62		10.35	18.92	83.84	86.68	22-Oct-19 18:00:00		10.47	18.92	83.84	92.30
22-Oct-19 19:00:00	22-Oct-19 20:00:00		1.16	0.00	0.00	5.36	2.1	329.7		0.38	0.00	0.00	1.77		10.35	18.92	83.84	86.68	22-Oct-19 19:00:00		10.73	18.92	83.84	88.45
22-Oct-19 20:00:00	22-Oct-19 21:00:00		2.47	0.00	0.00	5.52	2.1	329.7		0.82	0.00	0.00	1.82		10.35	18.92	83.84	86.68	22-Oct-19 20:00:00		11.17	18.92	83.84	88.50
22-Oct-19 21:00:00	22-Oct-19 22:00:00		8.41	0.00	0.00	5.68	2.1	329.7		2.77	0.00	0.00	1.87		10.35	18.92	83.84	86.68	22-Oct-19 21:00:00		13.12	18.92	83.84	88.55
22-Oct-19 22:00:00	22-Oct-19 23:00:00		2.26	0.00	0.00	5.81	2.1	329.7		0.74	0.00	0.00	1.91		10.35	18.92	83.84	86.68	22-Oct-19 22:00:00		11.09	18.92	83.84	88.59
22-Oct-19 23:00:00	23-Oct-19 00:00:00		3.10	0.00	0.00	9.15	2.1	329.7		1.02	0.00	0.00	3.02		10.35	18.92	83.84	86.68	22-Oct-19 23:00:00		11.37	18.92	83.84	89.70
23-Oct-19 00:00:00	23-Oct-19 01:00:00		10.25	0.00	0.00	65.05	2.1	329.7		3.38	0.00	0.00	21.45		10.35	18.92	83.84	86.68	23-Oct-19 00:00:00		13.73	18.92	83.84	108.13
23-Oct-19 01:00:00	23-Oct-19 02:00:00		17.39	0.00	0.00	6.25	2.1	329.7		5.74	0.00	0.00	2.06		10.35	18.92	83.84	86.68	23-Oct-19 01:00:00		16.09	18.92	83.84	88.74
23-Oct-19 02:00:00	23-Oct-19 03:00:00		5.32	0.00	0.00	6.29	2.1	329.7		1.75	0.00	0.00	2.07		10.35	18.92	83.84	86.68	23-Oct-19 02:00:00		12.10	18.92	83.84	88.75
23-Oct-19 03:00:00	23-Oct-19 04:00:00		8.07	0.00	0.00	6.33	2.1	329.7		2.66	0.00	0.00	2.09		10.35	18.92	83.84	86.68	23-Oct-19 03:00:00		13.01	18.92	83.84	88.77
23-Oct-19 04:00:00	23-Oct-19 05:00:00		11.10	0.00	0.00	6.38	2.1	329.7		3.66	0.00	0.00	2.10		10.35	18.92	83.84	86.68	23-Oct-19 04:00:00		14.01	18.92	83.84	88.78
23-Oct-19 05:00:00	23-Oct-19 06:00:00		16.49	0.00	0.00	45.27	2.1	329.7		5.44	0.00	0.00	14.93		10.35	18.92	83.84	86.68	23-Oct-19 05:00:00		15.79	18.92	83.84	101.61
23-Oct-19 06:00:00	23-Oct-19 07:00:00		22.44	0.00	0.00	6.35	2.1	329.7		7.40	0.00	0.00	2.09		10.35	18.92	83.84	86.68	23-Oct-19 06:00:00		17.75	18.92	83.84	88.77
23-Oct-19 07:00:00	23-Oct-19 08:00:00		35.08	0.00	0.00	6.26	2.1	329.7		11.56	0.00	0.00	2.07		10.35	18.92	83.84	86.68	23-Oct-19 07:00:00		21.91	18.92	83.84	88.75
23-Oct-19 08:00:00	23-Oct-19 09:00:00		37.50	0.00	0.00	6.18	2.1	329.7		12.36	0.00	0.00	2.04		10.35	18.92	83.84	86.68	23-Oct-19 08:00:00		22.71	18.92	83.84	88.72
23-Oct-19 09:00:00	23-Oct-19 10:00:00		37.69	0.00	0.00	104.60	2.1	329.7		12.43	0.00	0.00	34.49		10.35	18.92	83.84	86.68	23-Oct-19 09:00:00		22.78	18.92	83.84	121.17
23-Oct-19 10:00:00	23-Oct-19 11:00:00		6.37	0.00	0.00	5.71	2.1	329.7		2.10	0.00	0.00	1.88		10.35	18.92	83.84	86.68	23-Oct-19 10:00:00		12.45	18.92	83.84	88.56
23-Oct-19 11:00:00	23-Oct-19 12:00:00		2.58	0.00	0.00	76.12	2.1	329.7		0.85	0.00	0.00	25.10		10.35	18.92	83.84	86.68	23-Oct-19 11:00:00		11.20	18.92	83.84	111.78
23-Oct-19 12:00:00	23-Oct-19 13:00:00		2.99	0.00	0.00	5.85	2.1	329.7		0.98	0.00	0.00	1.93		10.35	18.92	83.84	86.68	23-Oct-19 12:00:00		11.33	18.92	83.84	88.61
23-Oct-19 13:00:00	23-Oct-19 14:00:00		3.11	0.00	0.00	5.47	2.1	329.7		1.02	0.00	0.00	1.80		10.35	18.92	83.84	86.68	23-Oct-19 13:00:00		11.37	18.92	83.84	88.48
23-Oct-19 14:00:00	23-Oct-19 15:00:00		3.16	0.00	0.00	5.09	2.1	329.7		1.04	0.00	0.00	1.68		10.35	18.92	83.84	86.68	23-Oct-19 14:00:00		11.39	18.92	83.84	88.36
23-Oct-19 15:00:00	23-Oct-19 16:00:00		3.21	0.00	0.00	4.85	2.1	329.7		1.06	0.00	0.00	1.60		10.35	18.92	83.84	86.68	23-Oct-19 15:00:00		11.41	18.92	83.84	88.28
23-Oct-19 16:00:00	23-Oct-19 17:00:00		3.26	0.00	0.00	92.62	2.1	329.7		1.07	0.00	0.00	30.54		10.35	18.92	83.84	86.68	23-Oct-19 16:00:00		11.42	18.92	83.84	117.22
23-Oct-19 17:00:00	23-Oct-19 18:00:00		0.95	0.00	0.00	4.96	2.1	329.7		0.31	0.00	0.00	1.63		10.35	18.92	83.84	86.68	23-Oct-19 17:00:00		10.66	18.92	83.84	88.31
23-Oct-19 18:00:00	23-Oct-19 19:00:00		0.00	0.00	0.00	5.31	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	23-Oct-19 18:00:00		10.35	18.92	83.84	88.43
23-Oct-19 19:00:00	23-Oct-19 20:00:00		0.00	0.00	0.00	5.67	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	23-Oct-19 19:00:00		10.35	18.92	83.84	88.55
23-Oct-19 20:00:00	23-Oct-19 21:00:00		9.66	0.00	0.00	6.02	2.1	329.7		3.18	0.00	0.00	1.98		10.35	18.92	83.84	86.68	23-Oct-19 20:00:00		13.53	18.92	83.84	88.66
23-Oct-19 21:00:00	23-Oct-19 22:00:00		7.90	0.00	0.00	6.13

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
25-Oct-19 23:00:00	26-Oct-19 00:00:00		0.00	0.00	0.00	5.22	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	25-Oct-19 23:00:00		**10.35**	**18.92**	**83.84**	**88.40**
26-Oct-19 00:00:00	26-Oct-19 01:00:00		0.06	0.00	0.00	5.35	2.1	329.7		0.02	0.00	0.00	1.77		10.35	18.92	83.84	86.68	26-Oct-19 00:00:00		**10.37**	**18.92**	**83.84**	**88.45**
26-Oct-19 01:00:00	26-Oct-19 02:00:00		0.00	0.00	0.00	5.40	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	26-Oct-19 01:00:00		**10.35**	**18.92**	**83.84**	**88.46**
26-Oct-19 02:00:00	26-Oct-19 03:00:00		2.42	0.00	0.00	23.03	2.1	329.7		0.80	0.00	0.00	7.59		10.35	18.92	83.84	86.68	26-Oct-19 02:00:00		**11.15**	**18.92**	**83.84**	**94.27**
26-Oct-19 03:00:00	26-Oct-19 04:00:00		5.58	0.00	0.00	5.60	2.1	329.7		1.84	0.00	0.00	1.84		10.35	18.92	83.84	86.68	26-Oct-19 03:00:00		**12.19**	**18.92**	**83.84**	**88.52**
26-Oct-19 04:00:00	26-Oct-19 05:00:00		7.87	0.00	0.00	5.61	2.1	329.7		2.59	0.00	0.00	1.85		10.35	18.92	83.84	86.68	26-Oct-19 04:00:00		**12.94**	**18.92**	**83.84**	**88.53**
26-Oct-19 05:00:00	26-Oct-19 06:00:00		1.08	0.00	0.00	5.62	2.1	329.7		0.36	0.00	0.00	1.85		10.35	18.92	83.84	86.68	26-Oct-19 05:00:00		**10.71**	**18.92**	**83.84**	**88.53**
26-Oct-19 06:00:00	26-Oct-19 07:00:00		0.10	0.00	0.00	5.64	2.1	329.7		0.03	0.00	0.00	1.86		10.35	18.92	83.84	86.68	26-Oct-19 06:00:00		**10.38**	**18.92**	**83.84**	**88.54**
26-Oct-19 07:00:00	26-Oct-19 08:00:00		0.06	0.00	0.00	52.05	2.1	329.7		0.02	0.00	0.00	17.16		10.35	18.92	83.84	86.68	26-Oct-19 07:00:00		**10.37**	**18.92**	**83.84**	**103.84**
26-Oct-19 08:00:00	26-Oct-19 09:00:00		0.02	0.00	0.00	5.69	2.1	329.7		0.01	0.00	0.00	1.88		10.35	18.92	83.84	86.68	26-Oct-19 08:00:00		**10.36**	**18.92**	**83.84**	**88.56**
26-Oct-19 09:00:00	26-Oct-19 10:00:00		0.18	0.00	0.00	5.52	2.1	329.7		0.06	0.00	0.00	1.82		10.35	18.92	83.84	86.68	26-Oct-19 09:00:00		**10.41**	**18.92**	**83.84**	**88.50**
26-Oct-19 10:00:00	26-Oct-19 11:00:00		0.62	0.00	0.00	5.35	2.1	329.7		0.21	0.00	0.00	1.76		10.35	18.92	83.84	86.68	26-Oct-19 10:00:00		**10.56**	**18.92**	**83.84**	**88.44**
26-Oct-19 11:00:00	26-Oct-19 12:00:00		3.46	0.00	0.00	5.20	2.1	329.7		1.14	0.00	0.00	1.71		10.35	18.92	83.84	86.68	26-Oct-19 11:00:00		**11.49**	**18.92**	**83.84**	**88.39**
26-Oct-19 12:00:00	26-Oct-19 13:00:00		0.23	0.00	0.00	46.95	2.1	329.7		0.08	0.00	0.00	15.48		10.35	18.92	83.84	86.68	26-Oct-19 12:00:00		**10.43**	**18.92**	**83.84**	**102.16**
26-Oct-19 13:00:00	26-Oct-19 14:00:00		0.24	0.00	0.00	5.14	2.1	329.7		0.08	0.00	0.00	1.69		10.35	18.92	83.84	86.68	26-Oct-19 13:00:00		**10.43**	**18.92**	**83.84**	**88.37**
26-Oct-19 14:00:00	26-Oct-19 15:00:00		0.69	0.00	0.00	5.04	2.1	329.7		0.23	0.00	0.00	1.66		10.35	18.92	83.84	86.68	26-Oct-19 14:00:00		**10.58**	**18.92**	**83.84**	**88.34**
26-Oct-19 15:00:00	26-Oct-19 16:00:00		2.53	0.00	0.00	4.95	2.1	329.7		0.83	0.00	0.00	1.63		10.35	18.92	83.84	86.68	26-Oct-19 15:00:00		**11.18**	**18.92**	**83.84**	**88.31**
26-Oct-19 16:00:00	26-Oct-19 17:00:00		7.84	0.00	0.00	4.87	2.1	329.7		2.58	0.00	0.00	1.60		10.35	18.92	83.84	86.68	26-Oct-19 16:00:00		**12.93**	**18.92**	**83.84**	**88.28**
26-Oct-19 17:00:00	26-Oct-19 18:00:00		5.21	0.00	0.00	25.85	2.1	329.7		1.72	0.00	0.00	8.52		10.35	18.92	83.84	86.68	26-Oct-19 17:00:00		**12.07**	**18.92**	**83.84**	**95.20**
26-Oct-19 18:00:00	26-Oct-19 19:00:00		1.11	0.00	0.00	5.21	2.1	329.7		0.37	0.00	0.00	1.72		10.35	18.92	83.84	86.68	26-Oct-19 18:00:00		**10.72**	**18.92**	**83.84**	**88.40**
26-Oct-19 19:00:00	26-Oct-19 20:00:00		1.39	0.00	0.00	5.27	2.1	329.7		0.46	0.00	0.00	1.74		10.35	18.92	83.84	86.68	26-Oct-19 19:00:00		**10.81**	**18.92**	**83.84**	**88.42**
26-Oct-19 20:00:00	26-Oct-19 21:00:00		0.00	0.00	0.00	5.33	2.1	329.7		0.00	0.00	0.00	1.76		10.35	18.92	83.84	86.68	26-Oct-19 20:00:00		**10.35**	**18.92**	**83.84**	**88.44**
26-Oct-19 21:00:00	26-Oct-19 22:00:00		0.33	0.00	0.00	5.37	2.1	329.7		0.11	0.00	0.00	1.77		10.35	18.92	83.84	86.68	26-Oct-19 21:00:00		**10.46**	**18.92**	**83.84**	**88.45**
26-Oct-19 22:00:00	26-Oct-19 23:00:00		2.00	0.00	0.00	90.62	2.1	329.7		0.66	0.00	0.00	29.88		10.35	18.92	83.84	86.68	26-Oct-19 22:00:00		**11.01**	**18.92**	**83.84**	**116.56**
26-Oct-19 23:00:00	27-Oct-19 00:00:00		3.13	0.00	0.00	5.57	2.1	329.7		1.03	0.00	0.00	1.84		10.35	18.92	83.84	86.68	26-Oct-19 23:00:00		**11.38**	**18.92**	**83.84**	**88.52**
27-Oct-19 00:00:00	27-Oct-19 01:00:00		2.29	0.00	0.00	5.49	2.1	329.7		0.76	0.00	0.00	1.81		10.35	18.92	83.84	86.68	27-Oct-19 00:00:00		**11.11**	**18.92**	**83.84**	**88.49**
27-Oct-19 01:00:00	27-Oct-19 02:00:00		0.45	0.00	0.00	5.41	2.1	329.7		0.15	0.00	0.00	1.78		10.35	18.92	83.84	86.68	27-Oct-19 01:00:00		**10.50**	**18.92**	**83.84**	**88.46**
27-Oct-19 02:00:00	27-Oct-19 03:00:00		0.58	0.00	0.00	5.31	2.1	329.7		0.19	0.00	0.00	1.75		10.35	18.92	83.84	86.68	27-Oct-19 02:00:00		**10.54**	**18.92**	**83.84**	**88.43**
27-Oct-19 03:00:00	27-Oct-19 04:00:00		0.00	0.00	0.00	6.75	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	27-Oct-19 03:00:00		**10.35**	**18.92**	**83.84**	**88.90**
27-Oct-19 04:00:00	27-Oct-19 05:00:00		0.00	0.00	0.00	4.96	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	27-Oct-19 04:00:00		**10.35**	**18.92**	**83.84**	**88.32**
27-Oct-19 05:00:00	27-Oct-19 06:00:00		0.00	0.00	0.00	4.92	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	27-Oct-19 05:00:00		**10.35**	**18.92**	**83.84**	**88.30**
27-Oct-19 06:00:00	27-Oct-19 07:00:00		0.00	0.00	0.00	4.88	2.1	329.7		0.00	0.00	0.00	1.61		10.35	18.92	83.84	86.68	27-Oct-19 06:00:00		**10.35**	**18.92**	**83.84**	**88.29**
27-Oct-19 07:00:00	27-Oct-19 08:00:00		0.00	0.00	0.00	4.83	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	27-Oct-19 07:00:00		**10.35**	**18.92**	**83.84**	**88.27**
27-Oct-19 08:00:00	27-Oct-19 09:00:00		0.00	0.00	0.00	39.74	2.1	329.7		0.00	0.00	0.00	13.10		10.35	18.92	83.84	86.68	27-Oct-19 08:00:00		**10.35**	**18.92**	**83.84**	**99.78**
27-Oct-19 09:00:00	27-Oct-19 10:00:00		0.00	0.00	0.00	4.94	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	27-Oct-19 09:00:00		**10.35**	**18.92**	**83.84**	**88.31**
27-Oct-19 10:00:00	27-Oct-19 11:00:00		0.00	0.00	0.00	5.05	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	27-Oct-19 10:00:00		**10.35**	**18.92**	**83.84**	**88.35**
27-Oct-19 11:00:00	27-Oct-19 12:00:00		0.00	0.00	0.00	6.34	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	27-Oct-19 11:00:00		**10.35**	**18.92**	**83.84**	**88.77**
27-Oct-19 12:00:00	27-Oct-19 13:00:00		0.00	0.00	0.00	5.09	2.1	329.7		0.00	0.00	0.00	1.68		10.35	18.92	83.84	86.68	27-Oct-19 12:00:00		**10.35**	**18.92**	**83.84**	**88.36**
27-Oct-19 13:00:00	27-Oct-19 14:00:00		2.02	0.00	0.00	34.63	2.1	329.7		0.67	0.00	0.00	11.42		10.35	18.92	83.84	86.68	27-Oct-19 13:00:00		**11.02**	**18.92**	**83.84**	**98.10**
27-Oct-19 14:00:00	27-Oct-19 15:00:00		1.34	0.00	0.00	4.81	2.1	329.7		0.44	0.00	0.00	1.59		10.35	18.92	83.84	86.68	27-Oct-19 14:00:00		**10.79**	**18.92**	**83.84**	**88.27**
27-Oct-19 15:00:00	27-Oct-19 16:00:00		6.61	0.00	0.00	4.79	2.1	329.7		2.18	0.00	0.00	1.58		10.35	18.92	83.84	86.68	27-Oct-19 15:00:00		**12.53**	**18.92**	**83.84**	**88.26**
27-Oct-19 16:00:00	27-Oct-19 17:00:00		20.59	0.00	0.00	4.78	2.1	329.7		6.79	0.00	0.00	1.57		10.35	18.92	83.84	86.68	27-Oct-19 16:00:00		**17.14**	**18.92**	**83.84**	**88.25**
27-Oct-19 17:00:00	27-Oct-19 18:00:00		25.03	0.00	0.00	4.75	2.1	329.7		8.25	0.00	0.00	1.57		10.35	18.92	83.84	86.68	27-Oct-19 17:00:00		**18.60**	**18.92**	**83.84**	**88.25**
27-Oct-19 18:00:00	27-Oct-19 19:00:00		18.53	0.00	0.00	42.55	2.1	329.7		6.11	0.00	0.00	14.03		10.35	18.92	83.84	86.68	27-Oct-19 18:00:00		**16.46**	**18.92**	**83.84**	**100.71**
27-Oct-19 19:00:00	27-Oct-19 20:00:00		4.86	0.00	0.00	4.78	2.1	329.7		1.60	0.00	0.00	1.57		10.35	18.92	83.84	86.68	27-Oct-19 19:00:00		**11.95**	**18.92**	**83.84**	**88.25**
27-Oct-19 20:00:00	27-Oct-19 21:00:00		1.27	0.00	0.00	4.95	2.1	329.7		0.42	0.00	0.00	1.63		10.35	18.92	83.84	86.68	27-Oct-19 20:00:00		**10.77**	**18.92**	**83.84**	**88.31**
27-Oct-19 21:00:00	27-Oct-19 22:00:00		0.04	0.00	0.00	5.12	2.1	329.7		0.01	0.00	0.00	1.69		10.35	18.92	83.84	86.68	27-Oct-19 21:00:00		**10.36**	**18.92**	**83.84**	**88.37**
27-Oct-19 22:00:00	27-Oct-19 23:00:00		7.92	0.00	0.00	5.30	2.1	329.7		2.61	0.00	0.00	1.75		10.35	18.92	83.84	86.68	27-Oct-19 22:00:00		**12.96**	**18.92**	**83.84**	**88.43**
27-Oct-19 23:00:00	28-Oct-19 00:00:00		0.81	0.00	0.00	33.04	2.1	329.7		0.27	0.00	0.00	10.89		10.35	18.92	83.84	86.68	27-Oct-19 23:00:00		**10.62**	**18.92**	**83.84**	**97.57**
28-Oct-19 00:00:00	28-Oct-19 01:00:00		0.00	0.00	0.00	6.97	2.1	329.7		0.00	0.00	0.00	2.30		10.35	18.92	83.84	86.68	28-Oct-19 00:00:00		**10.35**	**18.92**	**83.84**	**88.98**
28-Oct-19 01:00:00	28-Oct-19 02:00:00		0.00	0.00	0.00	5.82	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	28-Oct-19 01:00:00		**10.35**	**18.92**	**83.84**	**88.60**
28-Oct-19 02:00:00	28-Oct-19 03:00:00		0.00	0.00	0.00	5.82	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	28-Oct-19 02:00:00		**10.35**	**18.92**	**83.84**	**88.60**
28-Oct-19 03:00:00	28-Oct-19 04:00:00		0.13	0.00	0.00	5.82	2.1	329.7		0.04	0.00	0.00	1.92		10.35	18.92	83.84	86.68	28-Oct-19 03:00:00		**10.39**	**18.92**	**83.84**	**88.60**
28-Oct-19 04:00:00	28-Oct-19 05:00:00		0.62	0.00	0.00	13.93	2.1	329.7		0.20	0.00	0.00	4.59		10.35	18.92	83.84	86.68	28-Oct-19 04:00:00		**10.55**	**18.92**	**83.84**	**91.27**
28-Oct-19 05:00:00	28-Oct-19 06:00:00		1.01	0.00	0.00	29.69	2.1	329.7		0.33	0.00	0.00	9.79		10.35	18.92	83.84	86.68	28-Oct-19 05:00:00		**10.68**	**18.92**	**83.84**	**96.47**
28-Oct-19 06:00:00	28-Oct-19 07:00:00		2.44	0.00	0.00	6.10	2.1	329.7		0.80	0.00	0.00	2.01		10.35	18.92	83.84	86.68	28-Oct-19 06:00:00		**11.15**	**18.92**	**83.84**	**88.69**
28-Oct-19 07:00:00	28-Oct-19 08:00:00		7.09	0.00	0.00	5.99	2.1	329.7		2.34	0.00	0.00	1.97		10.35	18.92	83.84	86.68	28-Oct-19 07:00:00		**12.69**	**18.92**	**83.84**	**88.65**
28-Oct-19 08:00:00	28-Oct-19 09:00:00		6.94	0.00	0.00	5.87	2.1	329.7		2.29	0.00	0.00	1.94		10.35	18.92	83.84	86.68	28-Oct-19 08:00:00		**12.64**	**18.92**	**83.84**	**88.62**
28-Oct-19 09:00:00	28-Oct-19 10:00:00		6.60	0.00	0.00	5.86	2.1	329.7		2.18	0.00	0.00	1.93		10.35	18.92	83.84	86.68	28-Oct-19 09:00:00		**12.53**	**18.92**	**83.84**	**88.61**
28-Oct-19 10:00:00	28-Oct-19 11:00:00		6.26	0.00	0.00	60.97	2.1	329.7		2.06	0.00	0.00	20.10		10.35	18.92	83.84	86.68	28-Oct-19 10:00:00		**12.41**	**18.92**	**83.84**	**106.78**
28-Oct-19 11:00:00	28-Oct-19 12:00:00		4.14	0.00	0.00	5.41	2.1	329.7		1.37	0.00	0.00	1.78		10.35	18.92	83.84	86.68	28-Oct-19 11:00:00		**11.72**	**18.92**	**83.84**	**88.46**
28-Oct-19 12:00:00	28-Oct-19 13:00:00		2.81	0.00	0.00	5.13	2.1	329.7		0.93	0.00	0.00	1.69		10.35	18.92	83.84	86.68	28-Oct-19 12:00:00		**11.28**	**18.92**	**83.84**	**88.37**
28-Oct-19 13:00:00	28-Oct-19 14:00:00		1.93	0.00	0.00	4.86	2.1	329.7		0.64	0.00	0.00	1.60		10.35	18.92	83.84	86.68	28-Oct-19 13:00:00		**10.99**	**18.92**	**83.84**	**88.28**
28-Oct-19 14:00:00	28-Oct-19 15:00:00		1.87	0.00	0.00	4.68	2.1	329.7		0.61	0.00	0.00	1.54		10.35	18.92	83.84	86.68	28-Oct-19 14:00:00		**10.96**	**18.92**	**83.84**	**88.22**
28-Oct-19 15:00:00	28-Oct-19 16:00:00		8.54	0.00	0.00	20.30	2.1	329.7		2.82	0.00	0.00	6.69		10.35	18.92	83.84	86.68	28-Oct-19 15:00:00		**13.17**	**18.92**	**83.84**	**93.37**
28-Oct-19 16:00:00	28-Oct-19 17:00:00		1.13	0.00	0.00	4.89	2.1	329.7		0.37	0.00	0.00	1.61		10.35	18.92	83.84	86.68	28-Oct-19 16:00:00		**10.72**	**18.92**	**83.84**	**88.29**
28-Oct-19 17:00:00	28-Oct-19 18:00:00		0.66	0.00	0.00	4.98	2.1	329.7		0.22	0.00	0.00	1.64		10.35	18.92	83.84	86.68	28-Oct-19 17:00:00		**10.57**	**18.92**	**83.84**	**88.32**
28-Oct-19 18:00:00	28-Oct-19 19:00:00		0.43	0.00	0.00	5.07	2.1	329.7		0.14	0.00	0.00	1.67		10.35	18.92	83.84	86.68	28-Oct-19 18:00:00		**10.49**	**18.92**	**83.84**	**88.35**
28-Oct-19 19:00:00	28-Oct-19 20:00:00		0.20	0.00	0.00	5.15	2.1	329.7		0.06	0.00	0.00	1.70		10.35	18.92	83.84	86.68	28-Oct-19 19:00:00		**10.41**	**18.92**	**83.84**	**88.38**
28-Oct-19 20:00:00	28-Oct-19 21:00:00		0.43	0.00	0.00	12.22	2.1	329.7		0.14	0.00	0.00	4.03		10.35	18.92	83.84	86.68	28-Oct-19 20:00:00		**10.49**	**18.92**	**83.84**	**90.71**
28-Oct-19 21:00:00	28-Oct-19 22:00:00		6.39	0.00	0.00	5.34	2.1	329.7		2.11	0.00	0.00	1.76		10.35	18.92	83.84	86.68	28-Oct-19 21:00:00		**12.46**	**18.92**	**83.84**	**88.44**
28-Oct-19 22:00:00	28-Oct-19 23:00:00		2.16	0.00	0.00	5.47	2.1	329.7		0.71	0.00	0.00	1.80		10.35	18.92	83.84	86.68	28-Oct-19 22:00:00		**11.06**	**18.92**	**83.84**	**88.48**
28-Oct-19 23:00:00	29-Oct-19 00:00:00		1.48	0.00	0.00	5.60	2.1	329.7		0.49	0.00	0.00	1.85		10.35	18.92	83.84	86.68	28-Oct-19 23:00:00		**10.84**	**18.92**	**83.84**	**88.53**
29-Oct-19 00:00:00	29-Oct-19 01:00:00		0.80	0.00	0.00	5.70	2.1	329.7		0.27	0.00	0.00	1.88		10.35	18.92	83.84	86.68	29-Oct-19 00:00:00		**10.62**	**18.92**	**83.84**	**88.56**
29-Oct-19 01:00:00	29-Oct-19 02:00:00		0.16	0.00	0.00	61.59	2.1	329.7		0.05	0.00	0.00	20.31		10.35	18.92	83.84	86.68	29-Oct-19 01:00:00		**10.40**	**18.92**	**83.84**	**106.99**
29-Oct-19 02:00:00	29-Oct-19 03:00:00		0.00	0.00	0.00	7.51	2.1	329.7		0.00	0.00	0.00	2.48		10.35	18.92	83.84	86.68	29-Oct-19 02:00:00		**10.35**	**18.92**	**83.84**	**89.16**
29-Oct-19 03:00:00	29-Oct-19 04:00:00		0.00	0.00	0.00	6.99	2.1	329.7		0.00	0.00	0.00	2.30		10.35	18.92	83.84	86.68	29-Oct-19 03:00:00		**10.35**	**18.92**	**83.84**	**88.98**
29-Oct-19 04:00:00	29-Oct-19 05:00:00		0.00	0.00	0.00	6.46	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	29-Oct-19 04:00:00		**10.35**	**18.92**	**83.84**	**88.81**
29-Oct-19 05:00:00	29-Oct-19 06:00:00		0.00	0.00	0.00	6.03	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	29-Oct-19 05:00:00		**10.35**	**18.92**	**83.84**	**88.67**
29-Oct-19 06:00:00	29-Oct-19 07:00:00		0.00	0.00	0.00	22.59	2.1	329.7		0.00	0.00	0.00	7.45		10.35	18.92	83.84	86.68	29-Oct-19 06:00:00		**10.35**	**18.92**	**83.84**	**94.13**
29-Oct-19 07:00:00	29-Oct-19 08:00:00		0.00	0.00	0.00	5.84	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	29-Oct-19 07:00:00		**10.35**	**18.92**	**83.84**	**88.60**
29-Oct-19 08:00:00	29-Oct-19 09:00:00		0.00	0.00	0.00	5.84	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	29-Oct-19 08:00:00		**10.35**	**18.92**	**83.84**	**88.60**
29-Oct-19 09:00:00	29-Oct-19 10:00:00		0.00	0.00	0.00	5.84	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	29-Oct-19 09:00:00		**10.35**	**18.92**	**83.84**	**88.61**
29-Oct-19 10:00:00	29-Oct-19 11:00:00		0.00	0.00	0.00	5.85	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	29-Oct-19 10:00:00		**10.35**	**18.92**	**83.84**	**88.61**
29-Oct-19 11:00:00	29-Oct-19 12:00:00		0.00	0.00	0.00	127.28	2.1	329.7		0.00	0.00	0.00	41.96		10.35	18.92	83.84	86.68	29-Oct-19 11:00:00		**10.35**	**18.92**	**83.84**	**128.64**
29-Oct-19 12:00:00	29-Oct-19 13:00:00		0.00	0.00	0.00	5.64	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	29-Oct-19 12:00:00		**10.35**	**18.92**	**83.84**	**88.54**
29-Oct-19 13:00:00	29-Oct-19 14:00:00		0.00	0.00	0.00	5.52	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	29-Oct-19 13:00:00		**10.35**	**18.92**	**83.84**	**88.50**
29-Oct-19 14:00:00	29-Oct-19 15:00:00		0.00	0.00	0.00	5.40	2.1	329.7		0.00	0.00	0.00	1.78		10.35	18.92	83.84	86.68	29-Oct-19 14:00:00		**10.35**	**18.92**	**83.84**	**88.46**
29-Oct-19 15:00:00	29-Oct-19 16:00:00		0.00	0.00	0.00	5.31	2.1	329.7		0.00	0.00	0.00	1.75		10.35	18.92	83.84	86.68	29-Oct-19 15:00:00		**10.35**	**18.92**	**83.84**	**88.43**
29-Oct-19 16:00:00	29-Oct-19 17:00:00		0.00	0.00	0.00	21.12	2.1	329.7		0.00	0.00	0.00	6.96		10.35	18.92	83.84	86.68	29-Oct-19 16:00:00		**10.35**	**18.92**	**83.84**	**93.64**
29-Oct-19 17:00:00	29-Oct-19 18:00:00		0.00	0.00	0.00	282.63	2.1	329.7		0.00	0.00	0.00	93.18		10.35	18.92	83.84	86.68	29-Oct-19 17:00:00		**10.35**	**18.92**	**83.84**	**179.86**
29-Oct-19 18:00:00	29-Oct-19 19:00:00		0.00	0.00	0.00	44.22	2.1	329.7		0.00	0.00	0.00	14.58		10.35	18.92	83.84	86.68	29-Oct-19 18:00:00		**10.35**	**18.92**	**83.84**	**101.26**
29-Oct-19 19:00:00	29-Oct-19 20:00:00		0.00	0.00	0.00	5.69	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	29-Oct-19 19:00:00		**10.35**	**18.92**	**83.84**	**88.56**
29-Oct-19 20:00:00	29-Oct-19 21:00:00		0.00	0.00	0.00	5.73

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
31-Oct-19 22:00:00	31-Oct-19 23:00:00		1.40	0.00	0.00	6.90	2.1	329.7		0.46	0.00	0.00	2.28		10.35	18.92	83.84	86.68	31-Oct-19 22:00:00		**10.81**	**18.92**	**83.84**	**88.96**
31-Oct-19 23:00:00	01-Nov-19 00:00:00		4.41	0.00	0.00	6.96	2.1	329.7		1.45	0.00	0.00	2.30		10.35	18.92	83.84	86.68	31-Oct-19 23:00:00		**11.80**	**18.92**	**83.84**	**88.98**
01-Nov-19 00:00:00	01-Nov-19 01:00:00		1.73	0.00	0.00	7.02	2.1	329.7		0.57	0.00	0.00	2.31		10.35	18.92	83.84	86.68	01-Nov-19 00:00:00		**10.92**	**18.92**	**83.84**	**88.99**
01-Nov-19 01:00:00	01-Nov-19 02:00:00		16.03	0.00	0.00	7.09	2.1	329.7		5.29	0.00	0.00	2.34		10.35	18.92	83.84	86.68	01-Nov-19 01:00:00		**15.64**	**18.92**	**83.84**	**89.02**
01-Nov-19 02:00:00	01-Nov-19 03:00:00		13.47	0.00	0.00	7.16	2.1	329.7		4.44	0.00	0.00	2.36		10.35	18.92	83.84	86.68	01-Nov-19 02:00:00		**14.79**	**18.92**	**83.84**	**89.04**
01-Nov-19 03:00:00	01-Nov-19 04:00:00		5.86	0.00	0.00	7.12	2.1	329.7		1.93	0.00	0.00	2.35		10.35	18.92	83.84	86.68	01-Nov-19 03:00:00		**12.28**	**18.92**	**83.84**	**89.03**
01-Nov-19 04:00:00	01-Nov-19 05:00:00		3.00	0.00	0.00	10.49	2.1	329.7		0.99	0.00	0.00	3.46		10.35	18.92	83.84	86.68	01-Nov-19 04:00:00		**11.34**	**18.92**	**83.84**	**90.14**
01-Nov-19 05:00:00	01-Nov-19 06:00:00		12.57	0.00	0.00	7.09	2.1	329.7		4.15	0.00	0.00	2.34		10.35	18.92	83.84	86.68	01-Nov-19 05:00:00		**14.50**	**18.92**	**83.84**	**89.02**
01-Nov-19 06:00:00	01-Nov-19 07:00:00		6.85	0.00	0.00	7.05	2.1	329.7		2.26	0.00	0.00	2.32		10.35	18.92	83.84	86.68	01-Nov-19 06:00:00		**12.61**	**18.92**	**83.84**	**89.00**
01-Nov-19 07:00:00	01-Nov-19 08:00:00		5.86	0.00	0.00	7.00	2.1	329.7		1.93	0.00	0.00	2.31		10.35	18.92	83.84	86.68	01-Nov-19 07:00:00		**12.28**	**18.92**	**83.84**	**88.99**
01-Nov-19 08:00:00	01-Nov-19 09:00:00		1.87	0.00	0.00	6.99	2.1	329.7		0.62	0.00	0.00	2.30		10.35	18.92	83.84	86.68	01-Nov-19 08:00:00		**10.97**	**18.92**	**83.84**	**88.98**
01-Nov-19 09:00:00	01-Nov-19 10:00:00		1.26	0.00	0.00	7.12	2.1	329.7		0.41	0.00	0.00	2.35		10.35	18.92	83.84	86.68	01-Nov-19 09:00:00		**10.76**	**18.92**	**83.84**	**89.03**
01-Nov-19 10:00:00	01-Nov-19 11:00:00		0.64	0.00	0.00	6.87	2.1	329.7		0.21	0.00	0.00	2.27		10.35	18.92	83.84	86.68	01-Nov-19 10:00:00		**10.56**	**18.92**	**83.84**	**88.95**
01-Nov-19 11:00:00	01-Nov-19 12:00:00		0.14	0.00	0.00	6.62	2.1	329.7		0.04	0.00	0.00	2.18		10.35	18.92	83.84	86.68	01-Nov-19 11:00:00		**10.39**	**18.92**	**83.84**	**88.86**
01-Nov-19 12:00:00	01-Nov-19 13:00:00		0.04	0.00	0.00	6.39	2.1	329.7		0.01	0.00	0.00	2.11		10.35	18.92	83.84	86.68	01-Nov-19 12:00:00		**10.36**	**18.92**	**83.84**	**88.79**
01-Nov-19 13:00:00	01-Nov-19 14:00:00		0.48	0.00	0.00	6.39	2.1	329.7		0.16	0.00	0.00	2.11		10.35	18.92	83.84	86.68	01-Nov-19 13:00:00		**10.51**	**18.92**	**83.84**	**88.79**
01-Nov-19 14:00:00	01-Nov-19 15:00:00		1.84	0.00	0.00	6.25	2.1	329.7		0.61	0.00	0.00	2.06		10.35	18.92	83.84	86.68	01-Nov-19 14:00:00		**10.96**	**18.92**	**83.84**	**88.74**
01-Nov-19 15:00:00	01-Nov-19 16:00:00		8.30	0.00	0.00	6.11	2.1	329.7		2.74	0.00	0.00	2.01		10.35	18.92	83.84	86.68	01-Nov-19 15:00:00		**13.09**	**18.92**	**83.84**	**88.69**
01-Nov-19 16:00:00	01-Nov-19 17:00:00		21.71	0.00	0.00	5.94	2.1	329.7		7.16	0.00	0.00	1.96		10.35	18.92	83.84	86.68	01-Nov-19 16:00:00		**17.51**	**18.92**	**83.84**	**88.64**
01-Nov-19 17:00:00	01-Nov-19 18:00:00		20.20	0.00	0.00	5.57	2.1	329.7		6.66	0.00	0.00	1.84		10.35	18.92	83.84	86.68	01-Nov-19 17:00:00		**17.01**	**18.92**	**83.84**	**88.52**
01-Nov-19 18:00:00	01-Nov-19 19:00:00		23.11	0.00	0.00	5.68	2.1	329.7		7.62	0.00	0.00	1.87		10.35	18.92	83.84	86.68	01-Nov-19 18:00:00		**17.97**	**18.92**	**83.84**	**88.55**
01-Nov-19 19:00:00	01-Nov-19 20:00:00		26.74	0.00	0.00	5.79	2.1	329.7		8.82	0.00	0.00	1.91		10.35	18.92	83.84	86.68	01-Nov-19 19:00:00		**19.17**	**18.92**	**83.84**	**88.59**
01-Nov-19 20:00:00	01-Nov-19 21:00:00		28.81	0.00	0.00	5.90	2.1	329.7		9.50	0.00	0.00	1.95		10.35	18.92	83.84	86.68	01-Nov-19 20:00:00		**19.85**	**18.92**	**83.84**	**88.63**
01-Nov-19 21:00:00	01-Nov-19 22:00:00		10.86	0.00	0.00	6.03	2.1	329.7		3.58	0.00	0.00	1.99		10.35	18.92	83.84	86.68	01-Nov-19 21:00:00		**13.93**	**18.92**	**83.84**	**88.67**
01-Nov-19 22:00:00	01-Nov-19 23:00:00		4.89	0.00	0.00	6.33	2.1	329.7		1.61	0.00	0.00	2.09		10.35	18.92	83.84	86.68	01-Nov-19 22:00:00		**11.96**	**18.92**	**83.84**	**88.77**
01-Nov-19 23:00:00	02-Nov-19 00:00:00		12.13	0.00	0.00	6.62	2.1	329.7		4.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	01-Nov-19 23:00:00		**14.35**	**18.92**	**83.84**	**88.86**
02-Nov-19 00:00:00	02-Nov-19 01:00:00		4.45	0.00	0.00	6.90	2.1	329.7		1.47	0.00	0.00	2.28		10.35	18.92	83.84	86.68	02-Nov-19 00:00:00		**11.82**	**18.92**	**83.84**	**88.96**
02-Nov-19 01:00:00	02-Nov-19 02:00:00		0.69	0.00	0.00	7.03	2.1	329.7		0.23	0.00	0.00	2.32		10.35	18.92	83.84	86.68	02-Nov-19 01:00:00		**10.58**	**18.92**	**83.84**	**89.00**
02-Nov-19 02:00:00	02-Nov-19 03:00:00		2.62	0.00	0.00	7.13	2.1	329.7		0.86	0.00	0.00	2.35		10.35	18.92	83.84	86.68	02-Nov-19 02:00:00		**11.21**	**18.92**	**83.84**	**89.03**
02-Nov-19 03:00:00	02-Nov-19 04:00:00		6.45	0.00	0.00	7.23	2.1	329.7		2.13	0.00	0.00	2.38		10.35	18.92	83.84	86.68	02-Nov-19 03:00:00		**12.48**	**18.92**	**83.84**	**89.06**
02-Nov-19 04:00:00	02-Nov-19 05:00:00		11.82	0.00	0.00	7.34	2.1	329.7		3.90	0.00	0.00	2.42		10.35	18.92	83.84	86.68	02-Nov-19 04:00:00		**14.25**	**18.92**	**83.84**	**89.10**
02-Nov-19 05:00:00	02-Nov-19 06:00:00		20.91	0.00	0.00	7.38	2.1	329.7		6.90	0.00	0.00	2.43		10.35	18.92	83.84	86.68	02-Nov-19 05:00:00		**17.25**	**18.92**	**83.84**	**89.11**
02-Nov-19 06:00:00	02-Nov-19 07:00:00		35.53	0.00	0.00	7.40	2.1	329.7		11.71	0.00	0.00	2.44		10.35	18.92	83.84	86.68	02-Nov-19 06:00:00		**22.06**	**18.92**	**83.84**	**89.12**
02-Nov-19 07:00:00	02-Nov-19 08:00:00		29.34	0.00	0.00	7.42	2.1	329.7		9.67	0.00	0.00	2.45		10.35	18.92	83.84	86.68	02-Nov-19 07:00:00		**20.02**	**18.92**	**83.84**	**89.13**
02-Nov-19 08:00:00	02-Nov-19 09:00:00		30.05	0.00	0.00	7.44	2.1	329.7		9.91	0.00	0.00	2.45		10.35	18.92	83.84	86.68	02-Nov-19 08:00:00		**20.26**	**18.92**	**83.84**	**89.13**
02-Nov-19 09:00:00	02-Nov-19 10:00:00		39.08	0.00	0.00	9.49	2.1	329.7		12.88	0.00	0.00	3.13		10.35	18.92	83.84	86.68	02-Nov-19 09:00:00		**23.23**	**18.92**	**83.84**	**89.81**
02-Nov-19 10:00:00	02-Nov-19 11:00:00		41.43	0.00	0.00	6.83	2.1	329.7		13.66	0.00	0.00	2.25		10.35	18.92	83.84	86.68	02-Nov-19 10:00:00		**24.01**	**18.92**	**83.84**	**88.93**
02-Nov-19 11:00:00	02-Nov-19 12:00:00		22.22	0.00	0.00	6.49	2.1	329.7		7.33	0.00	0.00	2.14		10.35	18.92	83.84	86.68	02-Nov-19 11:00:00		**17.68**	**18.92**	**83.84**	**88.82**
02-Nov-19 12:00:00	02-Nov-19 13:00:00		0.63	0.00	0.00	6.16	2.1	329.7		0.21	0.00	0.00	2.03		10.35	18.92	83.84	86.68	02-Nov-19 12:00:00		**10.56**	**18.92**	**83.84**	**88.71**
02-Nov-19 13:00:00	02-Nov-19 14:00:00		11.63	0.00	0.00	5.90	2.1	329.7		3.84	0.00	0.00	1.95		10.35	18.92	83.84	86.68	02-Nov-19 13:00:00		**14.19**	**18.92**	**83.84**	**88.63**
02-Nov-19 14:00:00	02-Nov-19 15:00:00		16.21	0.00	0.00	26.32	2.1	329.7		5.34	0.00	0.00	8.68		10.35	18.92	83.84	86.68	02-Nov-19 14:00:00		**15.69**	**18.92**	**83.84**	**95.36**
02-Nov-19 15:00:00	02-Nov-19 16:00:00		12.05	0.00	0.00	5.70	2.1	329.7		3.97	0.00	0.00	1.88		10.35	18.92	83.84	86.68	02-Nov-19 15:00:00		**14.32**	**18.92**	**83.84**	**88.56**
02-Nov-19 16:00:00	02-Nov-19 17:00:00		6.71	0.00	0.00	5.81	2.1	329.7		2.21	0.00	0.00	1.92		10.35	18.92	83.84	86.68	02-Nov-19 16:00:00		**12.56**	**18.92**	**83.84**	**88.60**
02-Nov-19 17:00:00	02-Nov-19 18:00:00		2.57	0.00	0.00	5.92	2.1	329.7		0.85	0.00	0.00	1.95		10.35	18.92	83.84	86.68	02-Nov-19 17:00:00		**11.20**	**18.92**	**83.84**	**88.63**
02-Nov-19 18:00:00	02-Nov-19 19:00:00		2.77	0.00	0.00	5.97	2.1	329.7		0.91	0.00	0.00	1.97		10.35	18.92	83.84	86.68	02-Nov-19 18:00:00		**11.26**	**18.92**	**83.84**	**88.65**
02-Nov-19 19:00:00	02-Nov-19 20:00:00		2.10	0.00	0.00	77.17	2.1	329.7		0.69	0.00	0.00	25.44		10.35	18.92	83.84	86.68	02-Nov-19 19:00:00		**11.04**	**18.92**	**83.84**	**112.12**
02-Nov-19 20:00:00	02-Nov-19 21:00:00		14.99	0.00	0.00	6.16	2.1	329.7		4.94	0.00	0.00	2.03		10.35	18.92	83.84	86.68	02-Nov-19 20:00:00		**15.29**	**18.92**	**83.84**	**88.71**
02-Nov-19 21:00:00	02-Nov-19 22:00:00		26.25	0.00	0.00	6.21	2.1	329.7		8.65	0.00	0.00	2.05		10.35	18.92	83.84	86.68	02-Nov-19 21:00:00		**19.00**	**18.92**	**83.84**	**88.73**
02-Nov-19 22:00:00	02-Nov-19 23:00:00		19.86	0.00	0.00	6.25	2.1	329.7		6.55	0.00	0.00	2.06		10.35	18.92	83.84	86.68	02-Nov-19 22:00:00		**16.90**	**18.92**	**83.84**	**88.74**
02-Nov-19 23:00:00	03-Nov-19 00:00:00		8.97	0.00	0.00	6.20	2.1	329.7		2.96	0.00	0.00	2.04		10.35	18.92	83.84	86.68	02-Nov-19 23:00:00		**13.31**	**18.92**	**83.84**	**88.72**
03-Nov-19 00:00:00	03-Nov-19 01:00:00		9.69	0.00	0.00	41.63	2.1	329.7		3.20	0.00	0.00	13.73		10.35	18.92	83.84	86.68	03-Nov-19 00:00:00		**13.55**	**18.92**	**83.84**	**100.41**
03-Nov-19 01:00:00	03-Nov-19 02:00:00		10.41	0.00	0.00	6.31	2.1	329.7		3.43	0.00	0.00	2.08		10.35	18.92	83.84	86.68	03-Nov-19 01:00:00		**13.78**	**18.92**	**83.84**	**88.76**
03-Nov-19 01:00:00	03-Nov-19 02:00:00		10.88	0.00	0.00	6.50	2.1	329.7		3.59	0.00	0.00	2.14		10.35	18.92	83.84	86.68	03-Nov-19 01:00:00		**13.94**	**18.92**	**83.84**	**88.82**
03-Nov-19 02:00:00	03-Nov-19 03:00:00		10.99	0.00	0.00	6.69	2.1	329.7		3.62	0.00	0.00	2.20		10.35	18.92	83.84	86.68	03-Nov-19 02:00:00		**13.97**	**18.92**	**83.84**	**88.88**
03-Nov-19 03:00:00	03-Nov-19 04:00:00		4.03	0.00	0.00	6.87	2.1	329.7		1.33	0.00	0.00	2.27		10.35	18.92	83.84	86.68	03-Nov-19 03:00:00		**11.68**	**18.92**	**83.84**	**88.95**
03-Nov-19 04:00:00	03-Nov-19 05:00:00		2.11	0.00	0.00	40.73	2.1	329.7		0.70	0.00	0.00	13.43		10.35	18.92	83.84	86.68	03-Nov-19 04:00:00		**11.05**	**18.92**	**83.84**	**100.11**
03-Nov-19 05:00:00	03-Nov-19 06:00:00		11.50	0.00	0.00	7.19	2.1	329.7		3.79	0.00	0.00	2.37		10.35	18.92	83.84	86.68	03-Nov-19 05:00:00		**14.14**	**18.92**	**83.84**	**89.05**
03-Nov-19 06:00:00	03-Nov-19 07:00:00		14.58	0.00	0.00	7.29	2.1	329.7		4.81	0.00	0.00	2.40		10.35	18.92	83.84	86.68	03-Nov-19 06:00:00		**15.16**	**18.92**	**83.84**	**89.08**
03-Nov-19 07:00:00	03-Nov-19 08:00:00		2.20	0.00	0.00	7.38	2.1	329.7		0.72	0.00	0.00	2.43		10.35	18.92	83.84	86.68	03-Nov-19 07:00:00		**11.07**	**18.92**	**83.84**	**89.11**
03-Nov-19 08:00:00	03-Nov-19 09:00:00		0.00	0.00	0.00	7.22	2.1	329.7		0.00	0.00	0.00	2.38		10.35	18.92	83.84	86.68	03-Nov-19 08:00:00		**10.35**	**18.92**	**83.84**	**89.06**
03-Nov-19 09:00:00	03-Nov-19 10:00:00		1.49	0.00	0.00	79.99	2.1	329.7		0.49	0.00	0.00	26.37		10.35	18.92	83.84	86.68	03-Nov-19 09:00:00		**10.84**	**18.92**	**83.84**	**113.05**
03-Nov-19 10:00:00	03-Nov-19 11:00:00		0.54	0.00	0.00	6.60	2.1	329.7		0.18	0.00	0.00	2.18		10.35	18.92	83.84	86.68	03-Nov-19 10:00:00		**10.53**	**18.92**	**83.84**	**88.86**
03-Nov-19 11:00:00	03-Nov-19 12:00:00		7.73	0.00	0.00	6.39	2.1	329.7		2.55	0.00	0.00	2.11		10.35	18.92	83.84	86.68	03-Nov-19 11:00:00		**12.90**	**18.92**	**83.84**	**88.79**
03-Nov-19 12:00:00	03-Nov-19 13:00:00		11.93	0.00	0.00	6.19	2.1	329.7		3.93	0.00	0.00	2.04		10.35	18.92	83.84	86.68	03-Nov-19 12:00:00		**14.28**	**18.92**	**83.84**	**88.72**
03-Nov-19 13:00:00	03-Nov-19 14:00:00		12.46	0.00	0.00	5.96	2.1	329.7		4.11	0.00	0.00	1.97		10.35	18.92	83.84	86.68	03-Nov-19 13:00:00		**14.46**	**18.92**	**83.84**	**88.65**
03-Nov-19 14:00:00	03-Nov-19 15:00:00		12.59	0.00	0.00	9.49	2.1	329.7		4.15	0.00	0.00	3.13		10.35	18.92	83.84	86.68	03-Nov-19 14:00:00		**14.50**	**18.92**	**83.84**	**89.81**
03-Nov-19 15:00:00	03-Nov-19 16:00:00		1.33	0.00	0.00	5.80	2.1	329.7		0.44	0.00	0.00	1.91		10.35	18.92	83.84	86.68	03-Nov-19 15:00:00		**10.79**	**18.92**	**83.84**	**88.59**
03-Nov-19 16:00:00	03-Nov-19 17:00:00		0.21	0.00	0.00	5.79	2.1	329.7		0.07	0.00	0.00	1.91		10.35	18.92	83.84	86.68	03-Nov-19 16:00:00		**10.42**	**18.92**	**83.84**	**88.59**
03-Nov-19 17:00:00	03-Nov-19 18:00:00		0.36	0.00	0.00	5.78	2.1	329.7		0.12	0.00	0.00	1.90		10.35	18.92	83.84	86.68	03-Nov-19 17:00:00		**10.47**	**18.92**	**83.84**	**88.58**
03-Nov-19 18:00:00	03-Nov-19 19:00:00		0.51	0.00	0.00	5.73	2.1	329.7		0.17	0.00	0.00	1.89		10.35	18.92	83.84	86.68	03-Nov-19 18:00:00		**10.52**	**18.92**	**83.84**	**88.57**
03-Nov-19 19:00:00	03-Nov-19 20:00:00		3.97	0.00	0.00	28.90	2.1	329.7		1.31	0.00	0.00	9.53		10.35	18.92	83.84	86.68	03-Nov-19 19:00:00		**11.66**	**18.92**	**83.84**	**96.21**
03-Nov-19 20:00:00	03-Nov-19 21:00:00		12.30	0.00	0.00	6.80	2.1	329.7		4.05	0.00	0.00	2.24		10.35	18.92	83.84	86.68	03-Nov-19 20:00:00		**14.40**	**18.92**	**83.84**	**88.92**
03-Nov-19 21:00:00	03-Nov-19 22:00:00		2.08	0.00	0.00	6.94	2.1	329.7		0.69	0.00	0.00	2.29		10.35	18.92	83.84	86.68	03-Nov-19 21:00:00		**11.04**	**18.92**	**83.84**	**88.97**
03-Nov-19 22:00:00	03-Nov-19 23:00:00		14.99	0.00	0.00	7.09	2.1	329.7		4.94	0.00	0.00	2.34		10.35	18.92	83.84	86.68	03-Nov-19 22:00:00		**15.29**	**18.92**	**83.84**	**89.02**
03-Nov-19 23:00:00	04-Nov-19 00:00:00		0.00	0.00	0.00	7.22	2.1	329.7		0.00	0.00	0.00	2.38		10.35	18.92	83.84	86.68	03-Nov-19 23:00:00		**10.35**	**18.92**	**83.84**	**89.06**
04-Nov-19 00:00:00	04-Nov-19 01:00:00		0.42	0.00	0.00	60.34	2.1	329.7		0.14	0.00	0.00	19.89		10.35	18.92	83.84	86.68	04-Nov-19 00:00:00		**10.49**	**18.92**	**83.84**	**106.57**
04-Nov-19 01:00:00	04-Nov-19 02:00:00		23.98	0.00	0.00	7.22	2.1	329.7		7.91	0.00	0.00	2.38		10.35	18.92	83.84	86.68	04-Nov-19 01:00:00		**18.26**	**18.92**	**83.84**	**89.06**
04-Nov-19 02:00:00	04-Nov-19 03:00:00		0.45	0.00	0.00	7.24	2.1	329.7		0.15	0.00	0.00	2.39		10.35	18.92	83.84	86.68	04-Nov-19 02:00:00		**10.50**	**18.92**	**83.84**	**89.07**
04-Nov-19 03:00:00	04-Nov-19 04:00:00		3.97	0.00	0.00	7.26	2.1	329.7		1.31	0.00	0.00	2.39		10.35	18.92	83.84	86.68	04-Nov-19 03:00:00		**11.66**	**18.92**	**83.84**	**89.07**
04-Nov-19 04:00:00	04-Nov-19 05:00:00		14.89	0.00	0.00	7.29	2.1	329.7		4.91	0.00	0.00	2.40		10.35	18.92	83.84	86.68	04-Nov-19 04:00:00		**15.26**	**18.92**	**83.84**	**89.08**
04-Nov-19 05:00:00	04-Nov-19 06:00:00		24.22	0.00	0.00	57.52	2.1	329.7		7.99	0.00	0.00	18.96		10.35	18.92	83.84	86.68	04-Nov-19 05:00:00		**18.34**	**18.92**	**83.84**	**105.64**
04-Nov-19 06:00:00	04-Nov-19 07:00:00		16.69	0.00	0.00	122.42	2.1	329.7		5.50	0.00	0.00	40.36		10.35	18.92	83.84	86.68	04-Nov-19 06:00:00		**15.85**	**18.92**	**83.84**	**127.04**
04-Nov-19 07:00:00	04-Nov-19 08:00:00		18.53	0.00	0.00	7.20	2.1	329.7		6.11	0.00	0.00	2.38		10.35	18.92	83.84	86.68	04-Nov-19 07:00:00		**16.46**	**18.92**	**83.84**	**89.06**
04-Nov-19 08:00:00	04-Nov-19 09:00:00		14.00	0.00	0.00	6.87	2.1	329.7		4.62	0.00	0.00	2.27		10.35	18.92	83.84	86.68	04-Nov-19 08:00:00		**14.97**	**18.92**	**83.84**	**88.95**
04-Nov-19 09:00:00	04-Nov-19 10:00:00		10.27	0.00	0.00	6.54	2.1	329.7		3.39	0.00	0.00	2.15		10.35	18.92	83.84	86.68	04-Nov-19 09:00:00		**13.74**	**18.92**	**83.84**	**88.83**
04-Nov-19 10:00:00	04-Nov-19 11:00:00		5.01	0.00	0.00	6.24	2.1	329.7		1.65	0.00	0.00	2.06		10.35	18.92	83.84	86.68	04-Nov-19 10:00:00		**12.00**	**18.92**	**83.84**	**88.74**
04-Nov-19 11:00:00	04-Nov-19 12:00:00		12.08	0.00	0.00	34.27	2.1	329.7		3.98	0.00	0.00	11.30		10.35	18.92	83.84	86.68	04-Nov-19 11:00:00		**14.33**	**18.92**	**83.84**	**97.98**
04-Nov-19 12:00:00	04-Nov-19 13:00:00		7.55	0.00	0.00	87.65	2.1	329.7		2.49	0.00	0.00	28.90		10.35	18.92	83.84	86.68	04-Nov-19 12:00:00		**12.84**	**18.92**	**83.84**	**115.58**
04-Nov-19 13:00:00	04-Nov-19 14:00:00		9.78	0.00	0.00	5.82	2.1	329.7		3.22	0.00	0.00	1.92		10.35	18.92	83.84	86.68	04-Nov-19 13:00:00		**13.57**	**18.92**	**83.84**	**88.60**
04-Nov-19 14:00:00	04-Nov-19 15:00:00		0.00	0.00	0.00	5.66	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	04-Nov-19 14:00:00		**10.35**	**18.92**	**83.84**	**88.55**
04-Nov-19 15:00:00	04-Nov-19 16:00:00		0.00	0.00	0.00	5.50	2.1	329.7		0.00	0.00	0.00	1.81		10.35	18.92	83.84	86.68	04-Nov-19 15:00:00		**10.35**	**18.92**	**83.84**	**88.49**
04-Nov-19 16:00:00	04-Nov-19 17:00:00		1.98	0.00	0.00	5.56	2.1	329.7		0.65	0.00	0.00	1.83		10.35	18.92	83.84	86.68	04-Nov-19 16:00:00		**11.00**	**18.92**	**83.84**	**88.51**
04-Nov-19 17:00:00	04-Nov-19 18:00:00		1.74	0.00	0.00	5.56	2.1	329.7		0.57	0.00	0.00	1.83		10.35	18.92	83.84	86.68	04-Nov-19 17:00:00		**10.92**	**18.92**	**83.84**	**88.51**
04-Nov-19 18:00:00	04-Nov-19 19:00:00		0.00	0.00	0.00	5.56

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
06-Nov-19 20:00:00	06-Nov-19 21:00:00		0.93	1,162.08	0.00	11.21	2.1	329.7		0.31	383.14	0.00	3.69		10.35	18.92	83.84	86.68	06-Nov-19 20:00:00		**10.66**	**402.06**	**83.84**	**90.37**
06-Nov-19 21:00:00	06-Nov-19 22:00:00		1.80	1,160.87	0.00	6.18	2.1	329.7		0.59	382.74	0.00	2.04		10.35	18.92	83.84	86.68	06-Nov-19 21:00:00		**10.94**	**401.66**	**83.84**	**88.72**
06-Nov-19 22:00:00	06-Nov-19 23:00:00		3.95	1,158.96	0.00	6.31	2.1	329.7		1.30	382.11	0.00	2.08		10.35	18.92	83.84	86.68	06-Nov-19 22:00:00		**11.65**	**401.03**	**83.84**	**88.76**
06-Nov-19 23:00:00	07-Nov-19 00:00:00		17.64	1,160.98	0.00	6.43	2.1	329.7		5.82	382.77	0.00	2.12		10.35	18.92	83.84	86.68	06-Nov-19 23:00:00		**16.17**	**401.69**	**83.84**	**88.80**
07-Nov-19 00:00:00	07-Nov-19 01:00:00		16.30	722.54	0.00	6.55	2.1	329.7		5.37	238.22	0.00	2.16		10.35	18.92	83.84	86.68	07-Nov-19 00:00:00		**15.72**	**257.14**	**83.84**	**88.84**
07-Nov-19 01:00:00	07-Nov-19 02:00:00		4.83	220.86	0.00	9.34	2.1	329.7		1.59	72.82	0.00	3.08		10.35	18.92	83.84	86.68	07-Nov-19 01:00:00		**11.94**	**91.74**	**83.84**	**89.76**
07-Nov-19 02:00:00	07-Nov-19 03:00:00		11.19	221.32	0.00	6.48	2.1	329.7		3.69	72.97	0.00	2.14		10.35	18.92	83.84	86.68	07-Nov-19 02:00:00		**14.04**	**91.89**	**83.84**	**88.82**
07-Nov-19 03:00:00	07-Nov-19 04:00:00		13.85	221.22	0.00	6.52	2.1	329.7		4.57	72.94	0.00	2.15		10.35	18.92	83.84	86.68	07-Nov-19 03:00:00		**14.92**	**91.86**	**83.84**	**88.83**
07-Nov-19 04:00:00	07-Nov-19 05:00:00		8.30	223.01	0.00	6.57	2.1	329.7		2.74	73.53	0.00	2.16		10.35	18.92	83.84	86.68	07-Nov-19 04:00:00		**13.09**	**92.45**	**83.84**	**88.84**
07-Nov-19 05:00:00	07-Nov-19 06:00:00		18.08	88.33	0.00	6.66	2.1	329.7		5.96	29.12	0.00	2.20		10.35	18.92	83.84	86.68	07-Nov-19 05:00:00		**16.31**	**48.04**	**83.84**	**88.88**
07-Nov-19 06:00:00	07-Nov-19 07:00:00		33.62	0.00	0.00	6.61	2.1	329.7		11.08	0.00	0.00	2.18		10.35	18.92	83.84	86.68	07-Nov-19 06:00:00		**21.43**	**18.92**	**83.84**	**88.86**
07-Nov-19 07:00:00	07-Nov-19 08:00:00		31.50	0.00	0.00	6.43	2.1	329.7		10.39	0.00	0.00	2.12		10.35	18.92	83.84	86.68	07-Nov-19 07:00:00		**20.74**	**18.92**	**83.84**	**88.80**
07-Nov-19 08:00:00	07-Nov-19 09:00:00		37.23	0.00	0.00	6.26	2.1	329.7		12.27	0.00	0.00	2.06		10.35	18.92	83.84	86.68	07-Nov-19 08:00:00		**22.62**	**18.92**	**83.84**	**88.74**
07-Nov-19 09:00:00	07-Nov-19 10:00:00		34.22	0.00	0.00	6.14	2.1	329.7		11.28	0.00	0.00	2.02		10.35	18.92	83.84	86.68	07-Nov-19 09:00:00		**21.63**	**18.92**	**83.84**	**88.70**
07-Nov-19 10:00:00	07-Nov-19 11:00:00		4.33	0.00	0.00	5.90	2.1	329.7		1.43	0.00	0.00	1.95		10.35	18.92	83.84	86.68	07-Nov-19 10:00:00		**11.78**	**18.92**	**83.84**	**88.63**
07-Nov-19 11:00:00	07-Nov-19 12:00:00		0.00	0.00	0.00	5.54	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	07-Nov-19 11:00:00		**10.35**	**18.92**	**83.84**	**88.51**
07-Nov-19 12:00:00	07-Nov-19 13:00:00		5.02	0.00	0.00	5.17	2.1	329.7		1.66	0.00	0.00	1.71		10.35	18.92	83.84	86.68	07-Nov-19 12:00:00		**12.01**	**18.92**	**83.84**	**88.39**
07-Nov-19 13:00:00	07-Nov-19 14:00:00		7.37	0.00	0.00	4.84	2.1	329.7		2.43	0.00	0.00	1.60		10.35	18.92	83.84	86.68	07-Nov-19 13:00:00		**12.78**	**18.92**	**83.84**	**88.28**
07-Nov-19 14:00:00	07-Nov-19 15:00:00		5.08	0.00	0.00	4.79	2.1	329.7		1.68	0.00	0.00	1.58		10.35	18.92	83.84	86.68	07-Nov-19 14:00:00		**12.03**	**18.92**	**83.84**	**88.26**
07-Nov-19 15:00:00	07-Nov-19 16:00:00		0.00	0.00	0.00	4.78	2.1	329.7		0.00	0.00	0.00	1.58		10.35	18.92	83.84	86.68	07-Nov-19 15:00:00		**10.35**	**18.92**	**83.84**	**88.26**
07-Nov-19 16:00:00	07-Nov-19 17:00:00		0.00	0.00	0.00	12.76	2.1	329.7		0.00	0.00	0.00	4.21		10.35	18.92	83.84	86.68	07-Nov-19 16:00:00		**10.35**	**18.92**	**83.84**	**90.89**
07-Nov-19 17:00:00	07-Nov-19 18:00:00		0.00	0.00	0.00	4.85	2.1	329.7		0.00	0.00	0.00	1.60		10.35	18.92	83.84	86.68	07-Nov-19 17:00:00		**10.35**	**18.92**	**83.84**	**88.28**
07-Nov-19 18:00:00	07-Nov-19 19:00:00		0.00	0.00	0.00	4.96	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	07-Nov-19 18:00:00		**10.35**	**18.92**	**83.84**	**88.32**
07-Nov-19 19:00:00	07-Nov-19 20:00:00		0.00	0.00	0.00	5.08	2.1	329.7		0.00	0.00	0.00	1.67		10.35	18.92	83.84	86.68	07-Nov-19 19:00:00		**10.35**	**18.92**	**83.84**	**88.35**
07-Nov-19 20:00:00	07-Nov-19 21:00:00		0.00	0.00	0.00	5.19	2.1	329.7		0.00	0.00	0.00	1.71		10.35	18.92	83.84	86.68	07-Nov-19 20:00:00		**10.35**	**18.92**	**83.84**	**88.39**
07-Nov-19 21:00:00	07-Nov-19 22:00:00		0.00	0.00	0.00	7.67	2.1	329.7		0.00	0.00	0.00	2.53		10.35	18.92	83.84	86.68	07-Nov-19 21:00:00		**10.35**	**18.92**	**83.84**	**89.21**
07-Nov-19 22:00:00	07-Nov-19 23:00:00		0.03	0.00	0.00	5.29	2.1	329.7		0.01	0.00	0.00	1.75		10.35	18.92	83.84	86.68	07-Nov-19 22:00:00		**10.36**	**18.92**	**83.84**	**88.43**
07-Nov-19 23:00:00	08-Nov-19 00:00:00		0.19	0.00	0.00	5.42	2.1	329.7		0.06	0.00	0.00	1.79		10.35	18.92	83.84	86.68	07-Nov-19 23:00:00		**10.41**	**18.92**	**83.84**	**88.47**
08-Nov-19 00:00:00	08-Nov-19 01:00:00		0.12	0.00	0.00	5.55	2.1	329.7		0.04	0.00	0.00	1.83		10.35	18.92	83.84	86.68	08-Nov-19 00:00:00		**10.39**	**18.92**	**83.84**	**88.51**
08-Nov-19 01:00:00	08-Nov-19 02:00:00		0.00	0.00	0.00	5.68	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	08-Nov-19 01:00:00		**10.35**	**18.92**	**83.84**	**88.55**
08-Nov-19 02:00:00	08-Nov-19 03:00:00		0.00	0.00	0.00	5.97	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	08-Nov-19 02:00:00		**10.35**	**18.92**	**83.84**	**88.65**
08-Nov-19 03:00:00	08-Nov-19 04:00:00		0.00	0.00	0.00	10.06	2.1	329.7		0.00	0.00	0.00	3.32		10.35	18.92	83.84	86.68	08-Nov-19 03:00:00		**10.35**	**18.92**	**83.84**	**90.00**
08-Nov-19 04:00:00	08-Nov-19 05:00:00		0.00	0.00	0.00	6.60	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	08-Nov-19 04:00:00		**10.35**	**18.92**	**83.84**	**88.85**
08-Nov-19 05:00:00	08-Nov-19 06:00:00		0.00	0.00	0.00	6.70	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	08-Nov-19 05:00:00		**10.35**	**18.92**	**83.84**	**88.89**
08-Nov-19 06:00:00	08-Nov-19 07:00:00		0.00	0.00	0.00	6.81	2.1	329.7		0.00	0.00	0.00	2.25		10.35	18.92	83.84	86.68	08-Nov-19 06:00:00		**10.35**	**18.92**	**83.84**	**88.93**
08-Nov-19 07:00:00	08-Nov-19 08:00:00		0.00	0.00	0.00	6.79	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	08-Nov-19 07:00:00		**10.35**	**18.92**	**83.84**	**88.92**
08-Nov-19 08:00:00	08-Nov-19 09:00:00		0.00	0.00	0.00	6.65	2.1	329.7		0.00	0.00	0.00	2.19		10.35	18.92	83.84	86.68	08-Nov-19 08:00:00		**10.35**	**18.92**	**83.84**	**88.87**
08-Nov-19 09:00:00	08-Nov-19 10:00:00		0.17	0.00	0.00	6.52	2.1	329.7		0.06	0.00	0.00	2.15		10.35	18.92	83.84	86.68	08-Nov-19 09:00:00		**10.41**	**18.92**	**83.84**	**88.83**
08-Nov-19 10:00:00	08-Nov-19 11:00:00		0.00	0.00	0.00	6.39	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	08-Nov-19 10:00:00		**10.35**	**18.92**	**83.84**	**88.79**
08-Nov-19 11:00:00	08-Nov-19 12:00:00		0.00	0.00	0.00	6.34	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	08-Nov-19 11:00:00		**10.35**	**18.92**	**83.84**	**88.77**
08-Nov-19 12:00:00	08-Nov-19 13:00:00		0.00	0.00	0.00	6.38	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	08-Nov-19 12:00:00		**10.35**	**18.92**	**83.84**	**88.78**
08-Nov-19 13:00:00	08-Nov-19 14:00:00		0.00	0.00	0.00	11.36	2.1	329.7		0.00	0.00	0.00	3.75		10.35	18.92	83.84	86.68	08-Nov-19 13:00:00		**10.35**	**18.92**	**83.84**	**90.43**
08-Nov-19 14:00:00	08-Nov-19 15:00:00		0.00	0.00	0.00	6.62	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	08-Nov-19 14:00:00		**10.35**	**18.92**	**83.84**	**88.86**
08-Nov-19 15:00:00	08-Nov-19 16:00:00		0.00	0.00	0.00	6.65	2.1	329.7		0.00	0.00	0.00	2.19		10.35	18.92	83.84	86.68	08-Nov-19 15:00:00		**10.35**	**18.92**	**83.84**	**88.87**
08-Nov-19 16:00:00	08-Nov-19 17:00:00		0.00	0.00	0.00	6.68	2.1	329.7		0.00	0.00	0.00	2.20		10.35	18.92	83.84	86.68	08-Nov-19 16:00:00		**10.35**	**18.92**	**83.84**	**88.88**
08-Nov-19 17:00:00	08-Nov-19 18:00:00		2.60	0.00	0.00	6.72	2.1	329.7		0.86	0.00	0.00	2.22		10.35	18.92	83.84	86.68	08-Nov-19 17:00:00		**11.21**	**18.92**	**83.84**	**88.90**
08-Nov-19 18:00:00	08-Nov-19 19:00:00		2.75	0.00	0.00	6.86	2.1	329.7		0.91	0.00	0.00	2.26		10.35	18.92	83.84	86.68	08-Nov-19 18:00:00		**11.26**	**18.92**	**83.84**	**88.94**
08-Nov-19 19:00:00	08-Nov-19 20:00:00		3.32	0.00	0.00	14.17	2.1	329.7		1.09	0.00	0.00	4.67		10.35	18.92	83.84	86.68	08-Nov-19 19:00:00		**11.44**	**18.92**	**83.84**	**91.35**
08-Nov-19 20:00:00	08-Nov-19 21:00:00		4.74	0.00	0.00	7.20	2.1	329.7		1.56	0.00	0.00	2.37		10.35	18.92	83.84	86.68	08-Nov-19 20:00:00		**11.91**	**18.92**	**83.84**	**89.05**
08-Nov-19 21:00:00	08-Nov-19 22:00:00		4.74	0.00	0.00	7.35	2.1	329.7		1.56	0.00	0.00	2.42		10.35	18.92	83.84	86.68	08-Nov-19 21:00:00		**11.91**	**18.92**	**83.84**	**89.10**
08-Nov-19 22:00:00	08-Nov-19 23:00:00		1.65	0.00	0.00	7.50	2.1	329.7		0.54	0.00	0.00	2.47		10.35	18.92	83.84	86.68	08-Nov-19 22:00:00		**10.89**	**18.92**	**83.84**	**89.15**
08-Nov-19 23:00:00	09-Nov-19 00:00:00		0.91	0.00	0.00	7.63	2.1	329.7		0.30	0.00	0.00	2.52		10.35	18.92	83.84	86.68	08-Nov-19 23:00:00		**10.65**	**18.92**	**83.84**	**89.20**
09-Nov-19 00:00:00	09-Nov-19 01:00:00		0.89	0.00	0.00	7.61	2.1	329.7		0.29	0.00	0.00	2.51		10.35	18.92	83.84	86.68	09-Nov-19 00:00:00		**10.64**	**18.92**	**83.84**	**89.19**
09-Nov-19 01:00:00	09-Nov-19 02:00:00		16.53	0.00	0.00	7.59	2.1	329.7		5.45	0.00	0.00	2.50		10.35	18.92	83.84	86.68	09-Nov-19 01:00:00		**15.80**	**18.92**	**83.84**	**89.18**
09-Nov-19 02:00:00	09-Nov-19 03:00:00		0.70	0.00	0.00	7.56	2.1	329.7		0.23	0.00	0.00	2.49		10.35	18.92	83.84	86.68	09-Nov-19 02:00:00		**10.58**	**18.92**	**83.84**	**89.17**
09-Nov-19 03:00:00	09-Nov-19 04:00:00		0.49	0.00	0.00	7.63	2.1	329.7		0.16	0.00	0.00	2.52		10.35	18.92	83.84	86.68	09-Nov-19 03:00:00		**10.51**	**18.92**	**83.84**	**89.20**
09-Nov-19 04:00:00	09-Nov-19 05:00:00		0.28	0.00	0.00	7.85	2.1	329.7		0.09	0.00	0.00	2.59		10.35	18.92	83.84	86.68	09-Nov-19 04:00:00		**10.44**	**18.92**	**83.84**	**89.27**
09-Nov-19 05:00:00	09-Nov-19 06:00:00		0.07	0.00	0.00	8.17	2.1	329.7		0.02	0.00	0.00	2.69		10.35	18.92	83.84	86.68	09-Nov-19 05:00:00		**10.37**	**18.92**	**83.84**	**89.37**
09-Nov-19 06:00:00	09-Nov-19 07:00:00		0.00	0.00	0.00	7.92	2.1	329.7		0.00	0.00	0.00	2.61		10.35	18.92	83.84	86.68	09-Nov-19 06:00:00		**10.35**	**18.92**	**83.84**	**89.29**
09-Nov-19 07:00:00	09-Nov-19 08:00:00		0.00	0.00	0.00	7.69	2.1	329.7		0.00	0.00	0.00	2.54		10.35	18.92	83.84	86.68	09-Nov-19 07:00:00		**10.35**	**18.92**	**83.84**	**89.22**
09-Nov-19 08:00:00	09-Nov-19 09:00:00		0.00	0.00	0.00	7.46	2.1	329.7		0.00	0.00	0.00	2.46		10.35	18.92	83.84	86.68	09-Nov-19 08:00:00		**10.35**	**18.92**	**83.84**	**89.14**
09-Nov-19 09:00:00	09-Nov-19 10:00:00		0.00	0.00	0.00	7.14	2.1	329.7		0.00	0.00	0.00	2.35		10.35	18.92	83.84	86.68	09-Nov-19 09:00:00		**10.35**	**18.92**	**83.84**	**89.03**
09-Nov-19 10:00:00	09-Nov-19 11:00:00		0.00	0.00	0.00	6.89	2.1	329.7		0.00	0.00	0.00	2.27		10.35	18.92	83.84	86.68	09-Nov-19 10:00:00		**10.35**	**18.92**	**83.84**	**88.95**
09-Nov-19 11:00:00	09-Nov-19 12:00:00		0.00	0.00	0.00	6.73	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	09-Nov-19 11:00:00		**10.35**	**18.92**	**83.84**	**88.90**
09-Nov-19 12:00:00	09-Nov-19 13:00:00		0.00	0.00	0.00	6.57	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	09-Nov-19 12:00:00		**10.35**	**18.92**	**83.84**	**88.85**
09-Nov-19 13:00:00	09-Nov-19 14:00:00		0.00	0.00	0.00	6.39	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	09-Nov-19 13:00:00		**10.35**	**18.92**	**83.84**	**88.79**
09-Nov-19 14:00:00	09-Nov-19 15:00:00		0.00	0.00	0.00	6.24	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	09-Nov-19 14:00:00		**10.35**	**18.92**	**83.84**	**88.74**
09-Nov-19 15:00:00	09-Nov-19 16:00:00		0.00	0.00	0.00	6.13	2.1	329.7		0.00	0.00	0.00	2.02		10.35	18.92	83.84	86.68	09-Nov-19 15:00:00		**10.35**	**18.92**	**83.84**	**88.70**
09-Nov-19 16:00:00	09-Nov-19 17:00:00		0.00	0.00	0.00	6.01	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	09-Nov-19 16:00:00		**10.35**	**18.92**	**83.84**	**88.66**
09-Nov-19 17:00:00	09-Nov-19 18:00:00		0.00	0.00	0.00	5.98	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	09-Nov-19 17:00:00		**10.35**	**18.92**	**83.84**	**88.65**
09-Nov-19 18:00:00	09-Nov-19 19:00:00		0.00	0.00	0.00	6.22	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	09-Nov-19 18:00:00		**10.35**	**18.92**	**83.84**	**88.73**
09-Nov-19 19:00:00	09-Nov-19 20:00:00		0.00	0.00	0.00	6.48	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	09-Nov-19 19:00:00		**10.35**	**18.92**	**83.84**	**88.82**
09-Nov-19 20:00:00	09-Nov-19 21:00:00		0.00	0.00	0.00	6.74	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	09-Nov-19 20:00:00		**10.35**	**18.92**	**83.84**	**88.90**
09-Nov-19 21:00:00	09-Nov-19 22:00:00		0.00	0.00	0.00	7.03	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	09-Nov-19 21:00:00		**10.35**	**18.92**	**83.84**	**89.00**
09-Nov-19 22:00:00	09-Nov-19 23:00:00		0.00	0.00	0.00	7.20	2.1	329.7		0.00	0.00	0.00	2.37		10.35	18.92	83.84	86.68	09-Nov-19 22:00:00		**10.35**	**18.92**	**83.84**	**89.05**
09-Nov-19 23:00:00	10-Nov-19 00:00:00		0.00	0.00	0.00	7.31	2.1	329.7		0.00	0.00	0.00	2.41		10.35	18.92	83.84	86.68	09-Nov-19 23:00:00		**10.35**	**18.92**	**83.84**	**89.09**
10-Nov-19 00:00:00	10-Nov-19 01:00:00		0.00	0.00	0.00	7.42	2.1	329.7		0.00	0.00	0.00	2.45		10.35	18.92	83.84	86.68	10-Nov-19 00:00:00		**10.35**	**18.92**	**83.84**	**89.13**
10-Nov-19 01:00:00	10-Nov-19 02:00:00		0.00	0.00	0.00	7.49	2.1	329.7		0.00	0.00	0.00	2.47		10.35	18.92	83.84	86.68	10-Nov-19 01:00:00		**10.35**	**18.92**	**83.84**	**89.15**
10-Nov-19 02:00:00	10-Nov-19 03:00:00		0.00	0.00	0.00	7.50	2.1	329.7		0.00	0.00	0.00	2.47		10.35	18.92	83.84	86.68	10-Nov-19 02:00:00		**10.35**	**18.92**	**83.84**	**89.15**
10-Nov-19 03:00:00	10-Nov-19 04:00:00		0.00	0.00	0.00	7.53	2.1	329.7		0.00	0.00	0.00	2.48		10.35	18.92	83.84	86.68	10-Nov-19 03:00:00		**10.35**	**18.92**	**83.84**	**89.16**
10-Nov-19 04:00:00	10-Nov-19 05:00:00		0.00	0.00	0.00	7.56	2.1	329.7		0.00	0.00	0.00	2.49		10.35	18.92	83.84	86.68	10-Nov-19 04:00:00		**10.35**	**18.92**	**83.84**	**89.17**
10-Nov-19 05:00:00	10-Nov-19 06:00:00		0.00	0.00	0.00	7.54	2.1	329.7		0.00	0.00	0.00	2.49		10.35	18.92	83.84	86.68	10-Nov-19 05:00:00		**10.35**	**18.92**	**83.84**	**89.17**
10-Nov-19 06:00:00	10-Nov-19 07:00:00		0.00	0.00	0.00	7.33	2.1	329.7		0.00	0.00	0.00	2.42		10.35	18.92	83.84	86.68	10-Nov-19 06:00:00		**10.35**	**18.92**	**83.84**	**89.10**
10-Nov-19 07:00:00	10-Nov-19 08:00:00		0.00	0.00	0.00	7.10	2.1	329.7		0.00	0.00	0.00	2.34		10.35	18.92	83.84	86.68	10-Nov-19 07:00:00		**10.35**	**18.92**	**83.84**	**89.02**
10-Nov-19 08:00:00	10-Nov-19 09:00:00		0.00	0.00	0.00	6.87	2.1	329.7		0.00	0.00	0.00	2.26		10.35	18.92	83.84	86.68	10-Nov-19 08:00:00		**10.35**	**18.92**	**83.84**	**88.94**
10-Nov-19 09:00:00	10-Nov-19 10:00:00		0.00	0.00	0.00	6.62	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	10-Nov-19 09:00:00		**10.35**	**18.92**	**83.84**	**88.86**
10-Nov-19 10:00:00	10-Nov-19 11:00:00		0.00	0.00	0.00	6.25	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	10-Nov-19 10:00:00		**10.35**	**18.92**	**83.84**	**88.74**
10-Nov-19 11:00:00	10-Nov-19 12:00:00		3.65	0.00	0.00	5.86	2.1	329.7		1.20	0.00	0.00	1.93		10.35	18.92	83.84	86.68	10-Nov-19 11:00:00		**11.55**	**18.92**	**83.84**	**88.61**
10-Nov-19 12:00:00	10-Nov-19 13:00:00		4.82	0.00	0.00	9.89	2.1	329.7		1.59	0.00	0.00	3.26		10.35	18.92	83.84	86.68	10-Nov-19 12:00:00		**11.94**	**18.92**	**83.84**	**89.94**
10-Nov-19 13:00:00	10-Nov-19 14:00:00		0.00	0.00	0.00	5.20	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	10-Nov-19 13:00:00		**10.35**	**18.92**	**83.84**	**88.40**
10-Nov-19 14:00:00	10-Nov-19 15:00:00		11.17	0.00	0.00	5.08	2.1	329.7		3.68	0.00	0.00	1.67		10.35	18.92	83.84	86.68	10-Nov-19 14:00:00		**14.03**	**18.92**	**83.84**	**88.35**
10-Nov-19 15:00:00	10-Nov-19 16:00:00		1.16	0.00	0.00	4.95	2.1	329.7		0.38	0.00	0.00	1.63		10.35	18.92	83.84	86.68	10-Nov-19 15:00:00		**10.73**	**18.92**	**83.84**	**88.31**
10-Nov-19 16:00:00	10-Nov-19 17:00:00		1.44	0.00	0.00	4.84	2.1	329.7		0.47	0.00	0.00	1.60		10.35	18.92	83.84	86.68	10-Nov-19 16:00:00		**10.82**	**18.92**	**83.84**	**88.28**
10-Nov-19 17:00:00	10-Nov-19 18:00:00		0.00	0.00	0.00

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
12-Nov-19 19:00:00	12-Nov-19 20:00:00		0.00	0.00	0.00	7.32	2.1	329.7		0.00	0.00	0.00	2.41		10.35	18.92	83.84	86.68	12-Nov-19 19:00:00		10.35	18.92	83.84	89.09
12-Nov-19 20:00:00	12-Nov-19 21:00:00		0.00	0.00	0.00	7.41	2.1	329.7		0.00	0.00	0.00	2.44		10.35	18.92	83.84	86.68	12-Nov-19 20:00:00		10.35	18.92	83.84	89.12
12-Nov-19 21:00:00	12-Nov-19 22:00:00		7.96	0.00	0.00	7.72	2.1	329.7		2.63	0.00	0.00	2.55		10.35	18.92	83.84	86.68	12-Nov-19 21:00:00		12.98	18.92	83.84	89.23
12-Nov-19 22:00:00	12-Nov-19 23:00:00		4.20	0.00	0.00	12.20	2.1	329.7		1.39	0.00	0.00	4.02		10.35	18.92	83.84	86.68	12-Nov-19 22:00:00		11.74	18.92	83.84	90.70
12-Nov-19 23:00:00	13-Nov-19 00:00:00		14.23	0.00	0.00	7.69	2.1	329.7		4.69	0.00	0.00	2.53		10.35	18.92	83.84	86.68	12-Nov-19 23:00:00		15.04	18.92	83.84	89.21
13-Nov-19 00:00:00	13-Nov-19 01:00:00		0.19	0.00	0.00	7.74	2.1	329.7		0.06	0.00	0.00	2.55		10.35	18.92	83.84	86.68	13-Nov-19 00:00:00		10.41	18.92	83.84	89.23
13-Nov-19 01:00:00	13-Nov-19 02:00:00		13.86	0.00	0.00	7.79	2.1	329.7		4.57	0.00	0.00	2.57		10.35	18.92	83.84	86.68	13-Nov-19 01:00:00		14.92	18.92	83.84	89.25
13-Nov-19 02:00:00	13-Nov-19 03:00:00		24.89	0.00	0.00	7.85	2.1	329.7		8.21	0.00	0.00	2.59		10.35	18.92	83.84	86.68	13-Nov-19 02:00:00		18.56	18.92	83.84	89.27
13-Nov-19 03:00:00	13-Nov-19 04:00:00		4.11	0.00	0.00	7.89	2.1	329.7		1.36	0.00	0.00	2.60		10.35	18.92	83.84	86.68	13-Nov-19 03:00:00		11.71	18.92	83.84	89.28
13-Nov-19 04:00:00	13-Nov-19 05:00:00		0.00	0.00	0.00	7.93	2.1	329.7		0.00	0.00	0.00	2.62		10.35	18.92	83.84	86.68	13-Nov-19 04:00:00		10.35	18.92	83.84	89.30
13-Nov-19 05:00:00	13-Nov-19 06:00:00		1.19	0.00	0.00	7.97	2.1	329.7		0.39	0.00	0.00	2.63		10.35	18.92	83.84	86.68	13-Nov-19 05:00:00		10.74	18.92	83.84	89.31
13-Nov-19 06:00:00	13-Nov-19 07:00:00		11.74	0.00	0.00	8.05	2.1	329.7		3.87	0.00	0.00	2.65		10.35	18.92	83.84	86.68	13-Nov-19 06:00:00		14.22	18.92	83.84	89.33
13-Nov-19 07:00:00	13-Nov-19 08:00:00		7.85	0.00	0.00	7.95	2.1	329.7		2.59	0.00	0.00	2.62		10.35	18.92	83.84	86.68	13-Nov-19 07:00:00		12.94	18.92	83.84	89.30
13-Nov-19 08:00:00	13-Nov-19 09:00:00		1.24	0.00	0.00	7.82	2.1	329.7		0.41	0.00	0.00	2.58		10.35	18.92	83.84	86.68	13-Nov-19 08:00:00		10.76	18.92	83.84	89.26
13-Nov-19 09:00:00	13-Nov-19 10:00:00		1.18	0.00	0.00	7.70	2.1	329.7		0.39	0.00	0.00	2.54		10.35	18.92	83.84	86.68	13-Nov-19 09:00:00		10.74	18.92	83.84	89.22
13-Nov-19 10:00:00	13-Nov-19 11:00:00		1.12	0.00	0.00	7.82	2.1	329.7		0.37	0.00	0.00	2.58		10.35	18.92	83.84	86.68	13-Nov-19 10:00:00		10.72	18.92	83.84	89.26
13-Nov-19 11:00:00	13-Nov-19 12:00:00		2.10	0.00	0.00	7.65	2.1	329.7		0.69	0.00	0.00	2.52		10.35	18.92	83.84	86.68	13-Nov-19 11:00:00		11.04	18.92	83.84	89.20
13-Nov-19 12:00:00	13-Nov-19 13:00:00		5.30	0.00	0.00	7.42	2.1	329.7		1.75	0.00	0.00	2.44		10.35	18.92	83.84	86.68	13-Nov-19 12:00:00		12.10	18.92	83.84	89.12
13-Nov-19 13:00:00	13-Nov-19 14:00:00		2.92	0.00	0.00	7.18	2.1	329.7		0.96	0.00	0.00	2.37		10.35	18.92	83.84	86.68	13-Nov-19 13:00:00		11.31	18.92	83.84	89.05
13-Nov-19 14:00:00	13-Nov-19 15:00:00		0.71	0.00	0.00	7.06	2.1	329.7		0.23	0.00	0.00	2.33		10.35	18.92	83.84	86.68	13-Nov-19 14:00:00		10.58	18.92	83.84	89.01
13-Nov-19 15:00:00	13-Nov-19 16:00:00		1.93	0.00	0.00	7.05	2.1	329.7		0.64	0.00	0.00	2.32		10.35	18.92	83.84	86.68	13-Nov-19 15:00:00		10.99	18.92	83.84	89.00
13-Nov-19 16:00:00	13-Nov-19 17:00:00		0.00	0.00	0.00	7.04	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	13-Nov-19 16:00:00		10.35	18.92	83.84	89.00
13-Nov-19 17:00:00	13-Nov-19 18:00:00		0.00	0.00	0.00	7.03	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	13-Nov-19 17:00:00		10.35	18.92	83.84	89.00
13-Nov-19 18:00:00	13-Nov-19 19:00:00		0.00	0.00	0.00	7.04	2.1	329.7		0.00	0.00	0.00	2.32		10.35	18.92	83.84	86.68	13-Nov-19 18:00:00		10.35	18.92	83.84	89.00
13-Nov-19 19:00:00	13-Nov-19 20:00:00		0.00	0.00	0.00	30.65	2.1	329.7		0.00	0.00	0.00	10.10		10.35	18.92	83.84	86.68	13-Nov-19 19:00:00		10.35	18.92	83.84	96.78
13-Nov-19 20:00:00	13-Nov-19 21:00:00		0.00	0.00	0.00	7.13	2.1	329.7		0.00	0.00	0.00	2.35		10.35	18.92	83.84	86.68	13-Nov-19 20:00:00		10.35	18.92	83.84	89.03
13-Nov-19 21:00:00	13-Nov-19 22:00:00		0.00	0.00	0.00	7.26	2.1	329.7		0.00	0.00	0.00	2.39		10.35	18.92	83.84	86.68	13-Nov-19 21:00:00		10.35	18.92	83.84	89.07
13-Nov-19 22:00:00	13-Nov-19 23:00:00		0.00	0.00	0.00	7.38	2.1	329.7		0.00	0.00	0.00	2.43		10.35	18.92	83.84	86.68	13-Nov-19 22:00:00		10.35	18.92	83.84	89.11
13-Nov-19 23:00:00	14-Nov-19 00:00:00		0.00	0.00	0.00	7.59	2.1	329.7		0.00	0.00	0.00	2.50		10.35	18.92	83.84	86.68	13-Nov-19 23:00:00		10.35	18.92	83.84	89.18
14-Nov-19 00:00:00	14-Nov-19 01:00:00		0.00	0.00	0.00	11.71	2.1	329.7		0.00	0.00	0.00	3.86		10.35	18.92	83.84	86.68	14-Nov-19 00:00:00		10.35	18.92	83.84	90.54
14-Nov-19 01:00:00	14-Nov-19 02:00:00		0.00	0.00	0.00	7.67	2.1	329.7		0.00	0.00	0.00	2.53		10.35	18.92	83.84	86.68	14-Nov-19 01:00:00		10.35	18.92	83.84	89.21
14-Nov-19 02:00:00	14-Nov-19 03:00:00		0.00	0.00	0.00	7.64	2.1	329.7		0.00	0.00	0.00	2.52		10.35	18.92	83.84	86.68	14-Nov-19 02:00:00		10.35	18.92	83.84	89.20
14-Nov-19 03:00:00	14-Nov-19 04:00:00		0.00	0.00	0.00	7.62	2.1	329.7		0.00	0.00	0.00	2.51		10.35	18.92	83.84	86.68	14-Nov-19 03:00:00		10.35	18.92	83.84	89.19
14-Nov-19 04:00:00	14-Nov-19 05:00:00		1.78	0.00	0.00	7.61	2.1	329.7		0.59	0.00	0.00	2.51		10.35	18.92	83.84	86.68	14-Nov-19 04:00:00		10.94	18.92	83.84	89.19
14-Nov-19 05:00:00	14-Nov-19 06:00:00		0.35	0.00	0.00	44.32	2.1	329.7		0.11	0.00	0.00	14.61		10.35	18.92	83.84	86.68	14-Nov-19 05:00:00		10.46	18.92	83.84	101.29
14-Nov-19 06:00:00	14-Nov-19 07:00:00		0.00	0.00	0.00	7.44	2.1	329.7		0.00	0.00	0.00	2.45		10.35	18.92	83.84	86.68	14-Nov-19 06:00:00		10.35	18.92	83.84	89.13
14-Nov-19 07:00:00	14-Nov-19 08:00:00		0.00	0.00	0.00	7.34	2.1	329.7		0.00	0.00	0.00	2.42		10.35	18.92	83.84	86.68	14-Nov-19 07:00:00		10.35	18.92	83.84	89.10
14-Nov-19 08:00:00	14-Nov-19 09:00:00		0.00	0.00	0.00	7.25	2.1	329.7		0.00	0.00	0.00	2.39		10.35	18.92	83.84	86.68	14-Nov-19 08:00:00		10.35	18.92	83.84	89.07
14-Nov-19 09:00:00	14-Nov-19 10:00:00		0.00	0.00	0.00	7.15	2.1	329.7		0.00	0.00	0.00	2.36		10.35	18.92	83.84	86.68	14-Nov-19 09:00:00		10.35	18.92	83.84	89.04
14-Nov-19 10:00:00	14-Nov-19 11:00:00		0.00	0.00	0.00	6.98	2.1	329.7		0.00	0.00	0.00	2.30		10.35	18.92	83.84	86.68	14-Nov-19 10:00:00		10.35	18.92	83.84	88.98
14-Nov-19 11:00:00	14-Nov-19 12:00:00		0.00	0.00	0.00	6.79	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	14-Nov-19 11:00:00		10.35	18.92	83.84	88.92
14-Nov-19 12:00:00	14-Nov-19 13:00:00		0.00	0.00	0.00	6.59	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	14-Nov-19 12:00:00		10.35	18.92	83.84	88.85
14-Nov-19 13:00:00	14-Nov-19 14:00:00		0.00	0.00	0.00	6.47	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	14-Nov-19 13:00:00		10.35	18.92	83.84	88.81
14-Nov-19 14:00:00	14-Nov-19 15:00:00		0.00	0.00	0.00	6.57	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	14-Nov-19 14:00:00		10.35	18.92	83.84	88.85
14-Nov-19 15:00:00	14-Nov-19 16:00:00		0.00	0.00	0.00	6.53	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	14-Nov-19 15:00:00		10.35	18.92	83.84	88.83
14-Nov-19 16:00:00	14-Nov-19 17:00:00		0.00	0.00	0.00	6.49	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	14-Nov-19 16:00:00		10.35	18.92	83.84	88.82
14-Nov-19 17:00:00	14-Nov-19 18:00:00		0.00	0.00	0.00	6.39	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	14-Nov-19 17:00:00		10.35	18.92	83.84	88.79
14-Nov-19 18:00:00	14-Nov-19 19:00:00		0.00	0.00	0.00	6.28	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	14-Nov-19 18:00:00		10.35	18.92	83.84	88.75
14-Nov-19 19:00:00	14-Nov-19 20:00:00		0.00	0.00	0.00	6.38	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	14-Nov-19 19:00:00		10.35	18.92	83.84	88.78
14-Nov-19 20:00:00	14-Nov-19 21:00:00		0.00	0.00	0.00	6.48	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	14-Nov-19 20:00:00		10.35	18.92	83.84	88.82
14-Nov-19 21:00:00	14-Nov-19 22:00:00		0.00	0.00	0.00	6.58	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	14-Nov-19 21:00:00		10.35	18.92	83.84	88.85
14-Nov-19 22:00:00	14-Nov-19 23:00:00		0.00	0.00	0.00	6.62	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	14-Nov-19 22:00:00		10.35	18.92	83.84	88.86
14-Nov-19 23:00:00	15-Nov-19 00:00:00		0.00	0.00	0.00	11.76	2.1	329.7		0.00	0.00	0.00	3.88		10.35	18.92	83.84	86.68	14-Nov-19 23:00:00		10.35	18.92	83.84	90.56
15-Nov-19 00:00:00	15-Nov-19 01:00:00		0.00	0.00	0.00	6.51	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	15-Nov-19 00:00:00		10.35	18.92	83.84	88.83
15-Nov-19 01:00:00	15-Nov-19 02:00:00		0.00	0.00	0.00	6.57	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	15-Nov-19 01:00:00		10.35	18.92	83.84	88.85
15-Nov-19 02:00:00	15-Nov-19 03:00:00		0.00	0.00	0.00	6.64	2.1	329.7		0.00	0.00	0.00	2.19		10.35	18.92	83.84	86.68	15-Nov-19 02:00:00		10.35	18.92	83.84	88.87
15-Nov-19 03:00:00	15-Nov-19 04:00:00		0.00	0.00	0.00	6.71	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	15-Nov-19 03:00:00		10.35	18.92	83.84	88.89
15-Nov-19 04:00:00	15-Nov-19 05:00:00		0.00	0.00	0.00	6.74	2.1	329.7		0.00	0.00	0.00	2.22		10.35	18.92	83.84	86.68	15-Nov-19 04:00:00		10.35	18.92	83.84	88.90
15-Nov-19 05:00:00	15-Nov-19 06:00:00		0.00	0.00	0.00	6.69	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	15-Nov-19 05:00:00		10.35	18.92	83.84	88.89
15-Nov-19 06:00:00	15-Nov-19 07:00:00		0.00	0.00	0.00	6.64	2.1	329.7		0.00	0.00	0.00	2.19		10.35	18.92	83.84	86.68	15-Nov-19 06:00:00		10.35	18.92	83.84	88.87
15-Nov-19 07:00:00	15-Nov-19 08:00:00		0.00	0.00	0.00	6.60	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	15-Nov-19 07:00:00		10.35	18.92	83.84	88.85
15-Nov-19 08:00:00	15-Nov-19 09:00:00		0.00	0.00	0.00	6.59	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	15-Nov-19 08:00:00		10.35	18.92	83.84	88.85
15-Nov-19 09:00:00	15-Nov-19 10:00:00		0.00	0.00	0.00	6.62	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	15-Nov-19 09:00:00		10.35	18.92	83.84	88.86
15-Nov-19 10:00:00	15-Nov-19 11:00:00		0.00	0.00	0.00	11.70	2.1	329.7		0.00	0.00	0.00	3.86		10.35	18.92	83.84	86.68	15-Nov-19 10:00:00		10.35	18.92	83.84	90.54
15-Nov-19 11:00:00	15-Nov-19 12:00:00		0.00	0.00	0.00	6.52	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	15-Nov-19 11:00:00		10.35	18.92	83.84	88.83
15-Nov-19 12:00:00	15-Nov-19 13:00:00		0.00	0.00	0.00	6.48	2.1	329.7		0.00	0.00	0.00	2.14		10.35	18.92	83.84	86.68	15-Nov-19 12:00:00		10.35	18.92	83.84	88.82
15-Nov-19 13:00:00	15-Nov-19 14:00:00		0.00	0.00	0.00	6.44	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	15-Nov-19 13:00:00		10.35	18.92	83.84	88.80
15-Nov-19 14:00:00	15-Nov-19 15:00:00		0.00	0.00	0.00	6.41	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	15-Nov-19 14:00:00		10.35	18.92	83.84	88.79
15-Nov-19 15:00:00	15-Nov-19 16:00:00		0.00	0.00	0.00	6.42	2.1	329.7		0.00	0.00	0.00	2.12		10.35	18.92	83.84	86.68	15-Nov-19 15:00:00		10.35	18.92	83.84	88.80
15-Nov-19 16:00:00	15-Nov-19 17:00:00		2.70	0.00	0.00	6.43	2.1	329.7		0.89	0.00	0.00	2.12		10.35	18.92	83.84	86.68	15-Nov-19 16:00:00		11.24	18.92	83.84	88.80
15-Nov-19 17:00:00	15-Nov-19 18:00:00		14.89	0.00	0.00	6.43	2.1	329.7		4.91	0.00	0.00	2.12		10.35	18.92	83.84	86.68	15-Nov-19 17:00:00		15.26	18.92	83.84	88.80
15-Nov-19 18:00:00	15-Nov-19 19:00:00		17.49	0.00	0.00	6.43	2.1	329.7		5.77	0.00	0.00	2.12		10.35	18.92	83.84	86.68	15-Nov-19 18:00:00		16.12	18.92	83.84	88.80
15-Nov-19 19:00:00	15-Nov-19 20:00:00		14.91	0.00	0.00	6.43	2.1	329.7		4.92	0.00	0.00	2.12		10.35	18.92	83.84	86.68	15-Nov-19 19:00:00		15.27	18.92	83.84	88.80
15-Nov-19 20:00:00	15-Nov-19 21:00:00		2.39	0.00	0.00	6.45	2.1	329.7		0.79	0.00	0.00	2.13		10.35	18.92	83.84	86.68	15-Nov-19 20:00:00		11.14	18.92	83.84	88.81
15-Nov-19 21:00:00	15-Nov-19 22:00:00		52.92	0.00	0.00	6.47	2.1	329.7		17.45	0.00	0.00	2.13		10.35	18.92	83.84	86.68	15-Nov-19 21:00:00		27.80	18.92	83.84	88.81
15-Nov-19 22:00:00	15-Nov-19 23:00:00		1,011.01	0.00	0.00	6.31	2.1	329.7		333.33	0.00	0.00	2.08		10.35	18.92	83.84	86.68	15-Nov-19 22:00:00		343.68	18.92	83.84	88.76
15-Nov-19 23:00:00	16-Nov-19 00:00:00		730.73	0.00	0.00	6.24	2.1	329.7		240.92	0.00	0.00	2.06		10.35	18.92	83.84	86.68	15-Nov-19 23:00:00		251.27	18.92	83.84	88.74
16-Nov-19 00:00:00	16-Nov-19 01:00:00		743.98	0.00	0.00	6.27	2.1	329.7		245.29	0.00	0.00	2.07		10.35	18.92	83.84	86.68	16-Nov-19 00:00:00		255.64	18.92	83.84	88.75
16-Nov-19 01:00:00	16-Nov-19 02:00:00		743.70	0.00	0.00	6.30	2.1	329.7		245.20	0.00	0.00	2.08		10.35	18.92	83.84	86.68	16-Nov-19 01:00:00		255.55	18.92	83.84	88.76
16-Nov-19 02:00:00	16-Nov-19 03:00:00		741.67	0.00	0.00	11.82	2.1	329.7		244.53	0.00	0.00	3.90		10.35	18.92	83.84	86.68	16-Nov-19 02:00:00		254.88	18.92	83.84	90.58
16-Nov-19 03:00:00	16-Nov-19 04:00:00		743.53	0.00	0.00	6.05	2.1	329.7		245.14	0.00	0.00	2.00		10.35	18.92	83.84	86.68	16-Nov-19 03:00:00		255.49	18.92	83.84	88.68
16-Nov-19 04:00:00	16-Nov-19 05:00:00		745.27	0.00	0.00	6.03	2.1	329.7		245.72	0.00	0.00	1.99		10.35	18.92	83.84	86.68	16-Nov-19 04:00:00		256.07	18.92	83.84	88.67
16-Nov-19 05:00:00	16-Nov-19 06:00:00		754.86	0.00	0.00	6.01	2.1	329.7		248.88	0.00	0.00	1.98		10.35	18.92	83.84	86.68	16-Nov-19 05:00:00		259.23	18.92	83.84	88.66
16-Nov-19 06:00:00	16-Nov-19 07:00:00		782.38	0.00	0.00	5.92	2.1	329.7		257.95	0.00	0.00	1.95		10.35	18.92	83.84	86.68	16-Nov-19 06:00:00		268.30	18.92	83.84	88.63
16-Nov-19 07:00:00	16-Nov-19 08:00:00		787.41	0.00	0.00	5.86	2.1	329.7		259.61	0.00	0.00	1.93		10.35	18.92	83.84	86.68	16-Nov-19 07:00:00		269.96	18.92	83.84	88.61
16-Nov-19 08:00:00	16-Nov-19 09:00:00		626.68	0.00	0.00	5.87	2.1	329.7		206.62	0.00	0.00	1.94		10.35	18.92	83.84	86.68	16-Nov-19 08:00:00		216.97	18.92	83.84	88.62
16-Nov-19 09:00:00	16-Nov-19 10:00:00		827.68	0.00	0.00	5.88	2.1	329.7		272.89	0.00	0.00	1.94		10.35	18.92	83.84	86.68	16-Nov-19 09:00:00		283.24	18.92	83.84	88.62
16-Nov-19 10:00:00	16-Nov-19 11:00:00		808.83	0.00	0.00	5.86	2.1	329.7		266.67	0.00	0.00	1.93		10.35	18.92	83.84	86.68	16-Nov-19 10:00:00		277.02	18.92	83.84	88.61
16-Nov-19 11:00:00	16-Nov-19 12:00:00		774.79	0.00	0.00	5.82	2.1	329.7		255.45	0.00	0.00	1.92		10.35	18.92	83.84	86.68	16-Nov-19 11:00:00		265.80	18.92	83.84	88.60
16-Nov-19 12:00:00	16-Nov-19 13:00:00		780.63	0.00	0.00	5.82	2.1	329.7		257.37	0.00	0.00	1.92		10.35	18.92	83.84	86.68	16-Nov-19 12:00:00		267.72	18.92	83.84	88.60
16-Nov-19 13:00:00	16-Nov-19 14:00:00		775.23	0.00	0.00	5.82	2.1	329.7		255.59	0.00	0.00	1.92		10.35	18.92	83.84	86.68	16-Nov-19 13:00:00		265.94	18.92	83.84	88.60
16-Nov-19 14:00:00	16-Nov-19 15:00:00		730.94	0.00	0.00	5.83	2.1	329.7		240.99	0.00	0.00	1.92		10.35	18.92	83.84	86.68	16-Nov-19 14:00:00		251.34	18.92	83.84	88.60
16-Nov-19 15:00:00	16-Nov-19 16:00:00		423.13	0.00	0.00	5.81	2.1	329.7		139.51	0.00	0.00	1.92		10.35	18.92	83.84	86.68	16-Nov-19 15:00:00		149.86	18.92	83.84	88.60
16-Nov-19 16:00:00	16-Nov-19 17:00:00		0.00	0.00	0.00	5.80

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
18-Nov-19 18:00:00	18-Nov-19 19:00:00		0.00	0.00	0.00	6.28	2.1	329.7		0.00	0.00	0.00	2.07		10.35	18.92	83.84	86.68	18-Nov-19 18:00:00		10.35	18.92	83.84	88.75
18-Nov-19 19:00:00	18-Nov-19 20:00:00		0.00	0.00	0.00	6.25	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	18-Nov-19 19:00:00		10.35	18.92	83.84	88.74
18-Nov-19 20:00:00	18-Nov-19 21:00:00		0.00	0.00	0.00	6.22	2.1	329.7		0.00	0.00	0.00	2.05		10.35	18.92	83.84	86.68	18-Nov-19 20:00:00		10.35	18.92	83.84	88.73
18-Nov-19 21:00:00	18-Nov-19 22:00:00		0.00	0.00	0.00	6.15	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	18-Nov-19 21:00:00		10.35	18.92	83.84	88.71
18-Nov-19 22:00:00	18-Nov-19 23:00:00		0.00	0.00	0.00	6.20	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	18-Nov-19 22:00:00		10.35	18.92	83.84	88.72
18-Nov-19 23:00:00	19-Nov-19 00:00:00		0.00	0.00	0.00	6.25	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	18-Nov-19 23:00:00		10.35	18.92	83.84	88.74
19-Nov-19 00:00:00	19-Nov-19 01:00:00		0.35	0.00	0.00	6.31	2.1	329.7		0.11	0.00	0.00	2.08		10.35	18.92	83.84	86.68	19-Nov-19 00:00:00		10.46	18.92	83.84	88.76
19-Nov-19 01:00:00	19-Nov-19 02:00:00		0.00	0.00	0.00	6.35	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	19-Nov-19 01:00:00		10.35	18.92	83.84	88.77
19-Nov-19 02:00:00	19-Nov-19 03:00:00		6.28	0.00	0.00	6.36	2.1	329.7		2.07	0.00	0.00	2.10		10.35	18.92	83.84	86.68	19-Nov-19 02:00:00		12.42	18.92	83.84	88.78
19-Nov-19 03:00:00	19-Nov-19 04:00:00		7.63	0.00	0.00	8.46	2.1	329.7		2.52	0.00	0.00	2.79		10.35	18.92	83.84	86.68	19-Nov-19 03:00:00		12.87	18.92	83.84	89.47
19-Nov-19 04:00:00	19-Nov-19 05:00:00		7.53	0.00	0.00	6.43	2.1	329.7		2.48	0.00	0.00	2.12		10.35	18.92	83.84	86.68	19-Nov-19 04:00:00		12.83	18.92	83.84	88.80
19-Nov-19 05:00:00	19-Nov-19 06:00:00		8.06	0.00	0.00	6.41	2.1	329.7		2.66	0.00	0.00	2.11		10.35	18.92	83.84	86.68	19-Nov-19 05:00:00		13.01	18.92	83.84	88.79
19-Nov-19 06:00:00	19-Nov-19 07:00:00		8.86	0.00	0.00	6.38	2.1	329.7		2.92	0.00	0.00	2.10		10.35	18.92	83.84	86.68	19-Nov-19 06:00:00		13.27	18.92	83.84	88.78
19-Nov-19 07:00:00	19-Nov-19 08:00:00		8.53	0.00	0.00	6.35	2.1	329.7		2.81	0.00	0.00	2.09		10.35	18.92	83.84	86.68	19-Nov-19 07:00:00		13.16	18.92	83.84	88.77
19-Nov-19 08:00:00	19-Nov-19 09:00:00		7.66	0.00	0.00	13.77	2.1	329.7		2.53	0.00	0.00	4.54		10.35	18.92	83.84	86.68	19-Nov-19 08:00:00		12.88	18.92	83.84	91.22
19-Nov-19 09:00:00	19-Nov-19 10:00:00		7.59	0.00	0.00	11.49	2.1	329.7		2.50	0.00	0.00	3.79		10.35	18.92	83.84	86.68	19-Nov-19 09:00:00		12.85	18.92	83.84	90.47
19-Nov-19 10:00:00	19-Nov-19 11:00:00		6.88	0.00	0.00	6.00	2.1	329.7		2.27	0.00	0.00	1.98		10.35	18.92	83.84	86.68	19-Nov-19 10:00:00		12.62	18.92	83.84	88.66
19-Nov-19 11:00:00	19-Nov-19 12:00:00		9.48	0.00	0.00	5.86	2.1	329.7		3.13	0.00	0.00	1.93		10.35	18.92	83.84	86.68	19-Nov-19 11:00:00		13.48	18.92	83.84	88.61
19-Nov-19 12:00:00	19-Nov-19 13:00:00		7.36	0.00	0.00	5.72	2.1	329.7		2.43	0.00	0.00	1.89		10.35	18.92	83.84	86.68	19-Nov-19 12:00:00		12.78	18.92	83.84	88.57
19-Nov-19 13:00:00	19-Nov-19 14:00:00		0.38	0.00	0.00	5.94	2.1	329.7		0.13	0.00	0.00	1.96		10.35	18.92	83.84	86.68	19-Nov-19 13:00:00		10.48	18.92	83.84	88.64
19-Nov-19 14:00:00	19-Nov-19 15:00:00		0.25	0.00	0.00	5.93	2.1	329.7		0.08	0.00	0.00	1.95		10.35	18.92	83.84	86.68	19-Nov-19 14:00:00		10.43	18.92	83.84	88.63
19-Nov-19 15:00:00	19-Nov-19 16:00:00		1.35	0.00	0.00	5.90	2.1	329.7		0.45	0.00	0.00	1.94		10.35	18.92	83.84	86.68	19-Nov-19 15:00:00		10.80	18.92	83.84	88.62
19-Nov-19 16:00:00	19-Nov-19 17:00:00		3.94	0.00	0.00	5.86	2.1	329.7		1.30	0.00	0.00	1.93		10.35	18.92	83.84	86.68	19-Nov-19 16:00:00		11.65	18.92	83.84	88.61
19-Nov-19 17:00:00	19-Nov-19 18:00:00		2.06	0.00	0.00	5.88	2.1	329.7		0.68	0.00	0.00	1.94		10.35	18.92	83.84	86.68	19-Nov-19 17:00:00		11.03	18.92	83.84	88.62
19-Nov-19 18:00:00	19-Nov-19 19:00:00		0.00	0.00	0.00	5.93	2.1	329.7		0.00	0.00	0.00	1.96		10.35	18.92	83.84	86.68	19-Nov-19 18:00:00		10.35	18.92	83.84	88.64
19-Nov-19 19:00:00	19-Nov-19 20:00:00		0.00	0.00	0.00	5.99	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	19-Nov-19 19:00:00		10.35	18.92	83.84	88.66
19-Nov-19 20:00:00	19-Nov-19 21:00:00		0.00	0.00	0.00	14.00	2.1	329.7		0.00	0.00	0.00	4.62		10.35	18.92	83.84	86.68	19-Nov-19 20:00:00		10.35	18.92	83.84	91.30
19-Nov-19 21:00:00	19-Nov-19 22:00:00		0.00	0.00	0.00	6.00	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	19-Nov-19 21:00:00		10.35	18.92	83.84	88.66
19-Nov-19 22:00:00	19-Nov-19 23:00:00		3.85	0.00	0.00	6.00	2.1	329.7		1.27	0.00	0.00	1.98		10.35	18.92	83.84	86.68	19-Nov-19 22:00:00		11.62	18.92	83.84	88.66
19-Nov-19 23:00:00	20-Nov-19 00:00:00		12.23	0.00	0.00	6.00	2.1	329.7		4.03	0.00	0.00	1.98		10.35	18.92	83.84	86.68	19-Nov-19 23:00:00		14.38	18.92	83.84	88.66
20-Nov-19 00:00:00	20-Nov-19 01:00:00		16.99	0.00	0.00	6.01	2.1	329.7		5.60	0.00	0.00	1.98		10.35	18.92	83.84	86.68	20-Nov-19 00:00:00		15.95	18.92	83.84	88.66
20-Nov-19 01:00:00	20-Nov-19 02:00:00		12.88	0.00	0.00	15.53	2.1	329.7		4.25	0.00	0.00	5.12		10.35	18.92	83.84	86.68	20-Nov-19 01:00:00		14.60	18.92	83.84	91.80
20-Nov-19 02:00:00	20-Nov-19 03:00:00		8.24	0.00	0.00	6.32	2.1	329.7		2.72	0.00	0.00	2.09		10.35	18.92	83.84	86.68	20-Nov-19 02:00:00		13.07	18.92	83.84	88.77
20-Nov-19 03:00:00	20-Nov-19 04:00:00		9.49	0.00	0.00	6.36	2.1	329.7		3.13	0.00	0.00	2.10		10.35	18.92	83.84	86.68	20-Nov-19 03:00:00		13.48	18.92	83.84	88.78
20-Nov-19 04:00:00	20-Nov-19 05:00:00		18.60	0.00	0.00	6.39	2.1	329.7		6.13	0.00	0.00	2.11		10.35	18.92	83.84	86.68	20-Nov-19 04:00:00		16.48	18.92	83.84	88.79
20-Nov-19 05:00:00	20-Nov-19 06:00:00		18.05	0.00	0.00	6.43	2.1	329.7		5.95	0.00	0.00	2.12		10.35	18.92	83.84	86.68	20-Nov-19 05:00:00		16.30	18.92	83.84	88.80
20-Nov-19 06:00:00	20-Nov-19 07:00:00		13.11	0.00	0.00	6.32	2.1	329.7		4.32	0.00	0.00	2.08		10.35	18.92	83.84	86.68	20-Nov-19 06:00:00		14.67	18.92	83.84	88.76
20-Nov-19 07:00:00	20-Nov-19 08:00:00		11.59	0.00	0.00	6.15	2.1	329.7		3.82	0.00	0.00	2.03		10.35	18.92	83.84	86.68	20-Nov-19 07:00:00		14.17	18.92	83.84	88.71
20-Nov-19 08:00:00	20-Nov-19 09:00:00		6.65	0.00	0.00	5.97	2.1	329.7		2.19	0.00	0.00	1.97		10.35	18.92	83.84	86.68	20-Nov-19 08:00:00		12.54	18.92	83.84	88.65
20-Nov-19 09:00:00	20-Nov-19 10:00:00		2.43	0.00	0.00	5.89	2.1	329.7		0.80	0.00	0.00	1.94		10.35	18.92	83.84	86.68	20-Nov-19 09:00:00		11.15	18.92	83.84	88.62
20-Nov-19 10:00:00	20-Nov-19 11:00:00		1.46	0.00	0.00	5.74	2.1	329.7		0.48	0.00	0.00	1.89		10.35	18.92	83.84	86.68	20-Nov-19 10:00:00		10.83	18.92	83.84	88.57
20-Nov-19 11:00:00	20-Nov-19 12:00:00		5.44	0.00	0.00	5.44	2.1	329.7		1.79	0.00	0.00	1.79		10.35	18.92	83.84	86.68	20-Nov-19 11:00:00		12.14	18.92	83.84	88.47
20-Nov-19 12:00:00	20-Nov-19 13:00:00		1.50	0.00	0.00	5.13	2.1	329.7		0.50	0.00	0.00	1.69		10.35	18.92	83.84	86.68	20-Nov-19 12:00:00		10.85	18.92	83.84	88.37
20-Nov-19 13:00:00	20-Nov-19 14:00:00		0.23	0.00	0.00	4.85	2.1	329.7		0.08	0.00	0.00	1.60		10.35	18.92	83.84	86.68	20-Nov-19 13:00:00		10.43	18.92	83.84	88.28
20-Nov-19 14:00:00	20-Nov-19 15:00:00		0.00	0.00	0.00	4.83	2.1	329.7		0.00	0.00	0.00	1.59		10.35	18.92	83.84	86.68	20-Nov-19 14:00:00		10.35	18.92	83.84	88.27
20-Nov-19 15:00:00	20-Nov-19 16:00:00		0.00	0.00	0.00	4.90	2.1	329.7		0.00	0.00	0.00	1.62		10.35	18.92	83.84	86.68	20-Nov-19 15:00:00		10.35	18.92	83.84	88.30
20-Nov-19 16:00:00	20-Nov-19 17:00:00		0.00	0.00	0.00	4.97	2.1	329.7		0.00	0.00	0.00	1.64		10.35	18.92	83.84	86.68	20-Nov-19 16:00:00		10.35	18.92	83.84	88.32
20-Nov-19 17:00:00	20-Nov-19 18:00:00		0.00	0.00	0.00	5.05	2.1	329.7		0.00	0.00	0.00	1.66		10.35	18.92	83.84	86.68	20-Nov-19 17:00:00		10.35	18.92	83.84	88.34
20-Nov-19 18:00:00	20-Nov-19 19:00:00		0.00	0.00	0.00	6.99	2.1	329.7		0.00	0.00	0.00	2.30		10.35	18.92	83.84	86.68	20-Nov-19 18:00:00		10.35	18.92	83.84	88.98
20-Nov-19 19:00:00	20-Nov-19 20:00:00		2.83	0.00	0.00	5.55	2.1	329.7		0.93	0.00	0.00	1.83		10.35	18.92	83.84	86.68	20-Nov-19 19:00:00		11.28	18.92	83.84	88.51
20-Nov-19 20:00:00	20-Nov-19 21:00:00		0.52	0.00	0.00	5.91	2.1	329.7		0.17	0.00	0.00	1.95		10.35	18.92	83.84	86.68	20-Nov-19 20:00:00		10.52	18.92	83.84	88.63
20-Nov-19 21:00:00	20-Nov-19 22:00:00		3.80	0.00	0.00	6.27	2.1	329.7		1.25	0.00	0.00	2.07		10.35	18.92	83.84	86.68	20-Nov-19 21:00:00		11.60	18.92	83.84	88.75
20-Nov-19 22:00:00	20-Nov-19 23:00:00		2.26	0.00	0.00	9.36	2.1	329.7		0.74	0.00	0.00	3.09		10.35	18.92	83.84	86.68	20-Nov-19 22:00:00		11.09	18.92	83.84	89.77
20-Nov-19 23:00:00	21-Nov-19 00:00:00		0.57	0.00	0.00	6.59	2.1	329.7		0.19	0.00	0.00	2.17		10.35	18.92	83.84	86.68	20-Nov-19 23:00:00		10.54	18.92	83.84	88.85
21-Nov-19 00:00:00	21-Nov-19 01:00:00		4.98	0.00	0.00	6.72	2.1	329.7		1.64	0.00	0.00	2.21		10.35	18.92	83.84	86.68	21-Nov-19 00:00:00		11.99	18.92	83.84	88.89
21-Nov-19 01:00:00	21-Nov-19 02:00:00		22.74	0.00	0.00	6.85	2.1	329.7		7.50	0.00	0.00	2.26		10.35	18.92	83.84	86.68	21-Nov-19 01:00:00		17.85	18.92	83.84	88.94
21-Nov-19 02:00:00	21-Nov-19 03:00:00		7.50	0.00	0.00	6.84	2.1	329.7		2.47	0.00	0.00	2.26		10.35	18.92	83.84	86.68	21-Nov-19 02:00:00		12.82	18.92	83.84	88.94
21-Nov-19 03:00:00	21-Nov-19 04:00:00		0.00	0.00	0.00	7.25	2.1	329.7		0.00	0.00	0.00	2.39		10.35	18.92	83.84	86.68	21-Nov-19 03:00:00		10.35	18.92	83.84	89.07
21-Nov-19 04:00:00	21-Nov-19 05:00:00		0.00	0.00	0.00	6.93	2.1	329.7		0.00	0.00	0.00	2.28		10.35	18.92	83.84	86.68	21-Nov-19 04:00:00		10.35	18.92	83.84	88.96
21-Nov-19 05:00:00	21-Nov-19 06:00:00		0.84	0.00	0.00	6.96	2.1	329.7		0.28	0.00	0.00	2.29		10.35	18.92	83.84	86.68	21-Nov-19 05:00:00		10.63	18.92	83.84	88.97
21-Nov-19 06:00:00	21-Nov-19 07:00:00		3.94	0.00	0.00	6.98	2.1	329.7		1.30	0.00	0.00	2.30		10.35	18.92	83.84	86.68	21-Nov-19 06:00:00		11.65	18.92	83.84	88.98
21-Nov-19 07:00:00	21-Nov-19 08:00:00		0.70	0.00	0.00	7.00	2.1	329.7		0.23	0.00	0.00	2.31		10.35	18.92	83.84	86.68	21-Nov-19 07:00:00		10.58	18.92	83.84	88.99
21-Nov-19 08:00:00	21-Nov-19 09:00:00		0.09	0.00	0.00	100.20	2.1	329.7		0.03	0.00	0.00	33.04		10.35	18.92	83.84	86.68	21-Nov-19 08:00:00		10.38	18.92	83.84	119.72
21-Nov-19 09:00:00	21-Nov-19 10:00:00		0.07	0.00	0.00	6.64	2.1	329.7		0.02	0.00	0.00	2.19		10.35	18.92	83.84	86.68	21-Nov-19 09:00:00		10.37	18.92	83.84	88.87
21-Nov-19 10:00:00	21-Nov-19 11:00:00		1.88	0.00	0.00	6.25	2.1	329.7		0.62	0.00	0.00	2.06		10.35	18.92	83.84	86.68	21-Nov-19 10:00:00		10.97	18.92	83.84	88.74
21-Nov-19 11:00:00	21-Nov-19 12:00:00		0.70	0.00	0.00	5.85	2.1	329.7		0.23	0.00	0.00	1.93		10.35	18.92	83.84	86.68	21-Nov-19 11:00:00		10.58	18.92	83.84	88.61
21-Nov-19 12:00:00	21-Nov-19 13:00:00		0.14	0.00	0.00	5.49	2.1	329.7		0.04	0.00	0.00	1.81		10.35	18.92	83.84	86.68	21-Nov-19 12:00:00		10.39	18.92	83.84	88.49
21-Nov-19 13:00:00	21-Nov-19 14:00:00		0.05	0.00	0.00	10.15	2.1	329.7		0.02	0.00	0.00	3.35		10.35	18.92	83.84	86.68	21-Nov-19 13:00:00		10.37	18.92	83.84	90.03
21-Nov-19 14:00:00	21-Nov-19 15:00:00		1.03	0.00	0.00	5.28	2.1	329.7		0.34	0.00	0.00	1.74		10.35	18.92	83.84	86.68	21-Nov-19 14:00:00		10.69	18.92	83.84	88.42
21-Nov-19 15:00:00	21-Nov-19 16:00:00		1.29	0.00	0.00	5.23	2.1	329.7		0.43	0.00	0.00	1.73		10.35	18.92	83.84	86.68	21-Nov-19 15:00:00		10.78	18.92	83.84	88.41
21-Nov-19 16:00:00	21-Nov-19 17:00:00		5.94	0.00	0.00	5.19	2.1	329.7		1.96	0.00	0.00	1.71		10.35	18.92	83.84	86.68	21-Nov-19 16:00:00		12.31	18.92	83.84	88.39
21-Nov-19 17:00:00	21-Nov-19 18:00:00		5.84	0.00	0.00	5.18	2.1	329.7		1.92	0.00	0.00	1.71		10.35	18.92	83.84	86.68	21-Nov-19 17:00:00		12.27	18.92	83.84	88.39
21-Nov-19 18:00:00	21-Nov-19 19:00:00		4.89	0.00	0.00	9.46	2.1	329.7		1.61	0.00	0.00	3.12		10.35	18.92	83.84	86.68	21-Nov-19 18:00:00		11.96	18.92	83.84	89.80
21-Nov-19 19:00:00	21-Nov-19 20:00:00		5.23	0.00	0.00	5.43	2.1	329.7		1.72	0.00	0.00	1.79		10.35	18.92	83.84	86.68	21-Nov-19 19:00:00		12.07	18.92	83.84	88.47
21-Nov-19 20:00:00	21-Nov-19 21:00:00		5.21	0.00	0.00	5.58	2.1	329.7		1.72	0.00	0.00	1.84		10.35	18.92	83.84	86.68	21-Nov-19 20:00:00		12.07	18.92	83.84	88.52
21-Nov-19 21:00:00	21-Nov-19 22:00:00		5.19	0.00	0.00	5.74	2.1	329.7		1.71	0.00	0.00	1.89		10.35	18.92	83.84	86.68	21-Nov-19 21:00:00		12.06	18.92	83.84	88.57
21-Nov-19 22:00:00	21-Nov-19 23:00:00		5.20	0.00	0.00	12.07	2.1	329.7		1.71	0.00	0.00	3.98		10.35	18.92	83.84	86.68	21-Nov-19 22:00:00		12.06	18.92	83.84	90.66
21-Nov-19 23:00:00	22-Nov-19 00:00:00		8.06	0.00	0.00	6.05	2.1	329.7		2.66	0.00	0.00	2.00		10.35	18.92	83.84	86.68	21-Nov-19 23:00:00		13.01	18.92	83.84	88.68
22-Nov-19 00:00:00	22-Nov-19 01:00:00		8.63	0.00	0.00	6.03	2.1	329.7		2.85	0.00	0.00	1.99		10.35	18.92	83.84	86.68	22-Nov-19 00:00:00		13.20	18.92	83.84	88.67
22-Nov-19 01:00:00	22-Nov-19 02:00:00		6.51	0.00	0.00	6.01	2.1	329.7		2.14	0.00	0.00	1.98		10.35	18.92	83.84	86.68	22-Nov-19 01:00:00		12.49	18.92	83.84	88.66
22-Nov-19 02:00:00	22-Nov-19 03:00:00		0.00	0.00	0.00	5.98	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	22-Nov-19 02:00:00		10.35	18.92	83.84	88.65
22-Nov-19 03:00:00	22-Nov-19 04:00:00		0.00	0.00	0.00	6.09	2.1	329.7		0.00	0.00	0.00	2.01		10.35	18.92	83.84	86.68	22-Nov-19 03:00:00		10.35	18.92	83.84	88.69
22-Nov-19 04:00:00	22-Nov-19 05:00:00		4.03	0.00	0.00	6.04	2.1	329.7		1.33	0.00	0.00	1.99		10.35	18.92	83.84	86.68	22-Nov-19 04:00:00		11.68	18.92	83.84	88.67
22-Nov-19 05:00:00	22-Nov-19 06:00:00		1.21	0.00	0.00	6.00	2.1	329.7		0.40	0.00	0.00	1.98		10.35	18.92	83.84	86.68	22-Nov-19 05:00:00		10.75	18.92	83.84	88.66
22-Nov-19 06:00:00	22-Nov-19 07:00:00		0.67	0.00	0.00	5.95	2.1	329.7		0.22	0.00	0.00	1.96		10.35	18.92	83.84	86.68	22-Nov-19 06:00:00		10.57	18.92	83.84	88.64
22-Nov-19 07:00:00	22-Nov-19 08:00:00		145.81	0.00	0.00	5.96	2.1	329.7		48.07	0.00	0.00	1.97		10.35	18.92	83.84	86.68	22-Nov-19 07:00:00		58.42	18.92	83.84	88.65
22-Nov-19 08:00:00	22-Nov-19 09:00:00		864.13	0.00	0.00	5.95	2.1	329.7		284.90	0.00	0.00	1.96		10.35	18.92	83.84	86.68	22-Nov-19 08:00:00		295.25	18.92	83.84	88.64
22-Nov-19 09:00:00	22-Nov-19 10:00:00		1,237.12	0.00	0.00	5.94	2.1	329.7		407.88	0.00	0.00	1.96		10.35	18.92	83.84	86.68	22-Nov-19 09:00:00		418.23	18.92	83.84	88.64
22-Nov-19 10:00:00	22-Nov-19 11:00:00		1,222.13	0.00	0.00	5.93	2.1	329.7		402.94	0.00	0.00	1.95		10.35	18.92	83.84	86.68	22-Nov-19 10:00:00		413.29	18.92	83.84	88.63
22-Nov-19 11:00:00	22-Nov-19 12:00:00		1,279.67	0.00	0.00	5.99	2.1	329.7		421.91	0.00	0.00	1.97		10.35	18.92	83.84	86.68	22-Nov-19 11:00:00		432.26	18.92	83.84	88.65
22-Nov-19 12:00:00	22-Nov-19 13:00:00		1,281.97	0.00	0.00	5.73	2.1	329.7		422.67	0.00	0.00	1.89		10.35	18.92	83.84	86.68	22-Nov-19 12:00:00		433.02	18.92	83.84	88.57
22-Nov-19 13:00:00	22-Nov-19 14:00:00		1,249.82	0.00	0.00	5.48	2.1	329.7		412.06	0.00	0.00	1.81		10.35	18.92	83.84	86.68	22-Nov-19 13:00:00		422.41	18.92	83.84	88.49
22-Nov-19 14:00:00	22-Nov-19 15:00:00		942.68	0.00	0.00	115.18	2.1	329.7		310.80	0.00	0.00	37.97		10.35	18.92	83.84	86.68	22-Nov-19 14:00:00		321.15	18.92	83.84	124.65
22-Nov-19 15:00:00	22-Nov-19 16:00:00		336.25	0.00	0

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
24-Nov-19 17:00:00	24-Nov-19 18:00:00		16.81	0.00	0.00	5.74	2.1	329.7		5.54	0.00	0.00	1.89		10.35	18.92	83.84	86.68	24-Nov-19 17:00:00		**15.89**	**18.92**	**83.84**	**88.57**
24-Nov-19 18:00:00	24-Nov-19 19:00:00		16.54	0.00	0.00	5.80	2.1	329.7		5.45	0.00	0.00	1.91		10.35	18.92	83.84	86.68	24-Nov-19 18:00:00		**15.80**	**18.92**	**83.84**	**88.59**
24-Nov-19 19:00:00	24-Nov-19 20:00:00		15.96	0.00	0.00	5.88	2.1	329.7		5.26	0.00	0.00	1.94		10.35	18.92	83.84	86.68	24-Nov-19 19:00:00		**15.61**	**18.92**	**83.84**	**88.62**
24-Nov-19 20:00:00	24-Nov-19 21:00:00		2.74	0.00	0.00	6.09	2.1	329.7		0.90	0.00	0.00	2.01		10.35	18.92	83.84	86.68	24-Nov-19 20:00:00		**11.25**	**18.92**	**83.84**	**88.69**
24-Nov-19 21:00:00	24-Nov-19 22:00:00		1.12	0.00	0.00	6.31	2.1	329.7		0.37	0.00	0.00	2.08		10.35	18.92	83.84	86.68	24-Nov-19 21:00:00		**10.72**	**18.92**	**83.84**	**88.76**
24-Nov-19 22:00:00	24-Nov-19 23:00:00		2.46	0.00	0.00	6.53	2.1	329.7		0.81	0.00	0.00	2.15		10.35	18.92	83.84	86.68	24-Nov-19 22:00:00		**11.16**	**18.92**	**83.84**	**88.83**
24-Nov-19 23:00:00	25-Nov-19 00:00:00		4.93	0.00	0.00	6.69	2.1	329.7		1.63	0.00	0.00	2.21		10.35	18.92	83.84	86.68	24-Nov-19 23:00:00		**11.98**	**18.92**	**83.84**	**88.89**
25-Nov-19 00:00:00	25-Nov-19 01:00:00		12.62	0.00	0.00	6.76	2.1	329.7		4.16	0.00	0.00	2.23		10.35	18.92	83.84	86.68	25-Nov-19 00:00:00		**14.51**	**18.92**	**83.84**	**88.91**
25-Nov-19 01:00:00	25-Nov-19 02:00:00		3.83	0.00	0.00	6.87	2.1	329.7		1.26	0.00	0.00	2.27		10.35	18.92	83.84	86.68	25-Nov-19 01:00:00		**11.61**	**18.92**	**83.84**	**88.95**
25-Nov-19 02:00:00	25-Nov-19 03:00:00		10.46	0.00	0.00	6.99	2.1	329.7		3.45	0.00	0.00	2.30		10.35	18.92	83.84	86.68	25-Nov-19 02:00:00		**13.80**	**18.92**	**83.84**	**88.98**
25-Nov-19 03:00:00	25-Nov-19 04:00:00		18.16	0.00	0.00	7.09	2.1	329.7		5.99	0.00	0.00	2.34		10.35	18.92	83.84	86.68	25-Nov-19 03:00:00		**16.34**	**18.92**	**83.84**	**89.02**
25-Nov-19 04:00:00	25-Nov-19 05:00:00		25.85	0.00	0.00	7.16	2.1	329.7		8.52	0.00	0.00	2.36		10.35	18.92	83.84	86.68	25-Nov-19 04:00:00		**18.87**	**18.92**	**83.84**	**89.04**
25-Nov-19 05:00:00	25-Nov-19 06:00:00		20.21	0.00	0.00	28.84	2.1	329.7		6.66	0.00	0.00	9.51		10.35	18.92	83.84	86.68	25-Nov-19 05:00:00		**17.01**	**18.92**	**83.84**	**96.19**
25-Nov-19 06:00:00	25-Nov-19 07:00:00		19.84	0.00	0.00	7.03	2.1	329.7		6.54	0.00	0.00	2.32		10.35	18.92	83.84	86.68	25-Nov-19 06:00:00		**16.89**	**18.92**	**83.84**	**89.00**
25-Nov-19 07:00:00	25-Nov-19 08:00:00		48.16	0.00	0.00	6.93	2.1	329.7		15.88	0.00	0.00	2.28		10.35	18.92	83.84	86.68	25-Nov-19 07:00:00		**26.23**	**18.92**	**83.84**	**88.96**
25-Nov-19 08:00:00	25-Nov-19 09:00:00		2.78	0.00	0.00	6.83	2.1	329.7		0.92	0.00	0.00	2.25		10.35	18.92	83.84	86.68	25-Nov-19 08:00:00		**11.27**	**18.92**	**83.84**	**88.93**
25-Nov-19 09:00:00	25-Nov-19 10:00:00		1.70	0.00	0.00	6.73	2.1	329.7		0.56	0.00	0.00	2.22		10.35	18.92	83.84	86.68	25-Nov-19 09:00:00		**10.91**	**18.92**	**83.84**	**88.90**
25-Nov-19 10:00:00	25-Nov-19 11:00:00		9.40	0.00	0.00	14.27	2.1	329.7		3.10	0.00	0.00	4.70		10.35	18.92	83.84	86.68	25-Nov-19 10:00:00		**13.45**	**18.92**	**83.84**	**91.38**
25-Nov-19 11:00:00	25-Nov-19 12:00:00		6.93	0.00	0.00	6.07	2.1	329.7		2.29	0.00	0.00	2.00		10.35	18.92	83.84	86.68	25-Nov-19 11:00:00		**12.64**	**18.92**	**83.84**	**88.68**
25-Nov-19 12:00:00	25-Nov-19 13:00:00		1.91	0.00	0.00	5.79	2.1	329.7		0.63	0.00	0.00	1.91		10.35	18.92	83.84	86.68	25-Nov-19 12:00:00		**10.98**	**18.92**	**83.84**	**88.59**
25-Nov-19 13:00:00	25-Nov-19 14:00:00		0.83	0.00	0.00	5.50	2.1	329.7		0.27	0.00	0.00	1.81		10.35	18.92	83.84	86.68	25-Nov-19 13:00:00		**10.62**	**18.92**	**83.84**	**88.49**
25-Nov-19 14:00:00	25-Nov-19 15:00:00		0.77	0.00	0.00	5.25	2.1	329.7		0.25	0.00	0.00	1.73		10.35	18.92	83.84	86.68	25-Nov-19 14:00:00		**10.60**	**18.92**	**83.84**	**88.41**
25-Nov-19 15:00:00	25-Nov-19 16:00:00		3.48	0.00	0.00	15.79	2.1	329.7		1.15	0.00	0.00	5.21		10.35	18.92	83.84	86.68	25-Nov-19 15:00:00		**11.50**	**18.92**	**83.84**	**91.89**
25-Nov-19 16:00:00	25-Nov-19 17:00:00		2.76	0.00	0.00	5.46	2.1	329.7		0.91	0.00	0.00	1.80		10.35	18.92	83.84	86.68	25-Nov-19 16:00:00		**11.26**	**18.92**	**83.84**	**88.48**
25-Nov-19 17:00:00	25-Nov-19 18:00:00		2.43	0.00	0.00	5.52	2.1	329.7		0.80	0.00	0.00	1.82		10.35	18.92	83.84	86.68	25-Nov-19 17:00:00		**11.15**	**18.92**	**83.84**	**88.50**
25-Nov-19 18:00:00	25-Nov-19 19:00:00		1.99	0.00	0.00	5.58	2.1	329.7		0.66	0.00	0.00	1.84		10.35	18.92	83.84	86.68	25-Nov-19 18:00:00		**11.01**	**18.92**	**83.84**	**88.52**
25-Nov-19 19:00:00	25-Nov-19 20:00:00		1.29	0.00	0.00	5.74	2.1	329.7		0.42	0.00	0.00	1.89		10.35	18.92	83.84	86.68	25-Nov-19 19:00:00		**10.77**	**18.92**	**83.84**	**88.57**
25-Nov-19 20:00:00	25-Nov-19 21:00:00		0.91	0.00	0.00	81.85	2.1	329.7		0.30	0.00	0.00	26.99		10.35	18.92	83.84	86.68	25-Nov-19 20:00:00		**10.65**	**18.92**	**83.84**	**113.67**
25-Nov-19 21:00:00	25-Nov-19 22:00:00		0.47	0.00	0.00	6.85	2.1	329.7		0.16	0.00	0.00	2.26		10.35	18.92	83.84	86.68	25-Nov-19 21:00:00		**10.51**	**18.92**	**83.84**	**88.94**
25-Nov-19 22:00:00	25-Nov-19 23:00:00		5.52	0.00	0.00	6.84	2.1	329.7		1.82	0.00	0.00	2.26		10.35	18.92	83.84	86.68	25-Nov-19 22:00:00		**12.17**	**18.92**	**83.84**	**88.94**
25-Nov-19 23:00:00	26-Nov-19 00:00:00		4.45	0.00	0.00	6.84	2.1	329.7		1.47	0.00	0.00	2.25		10.35	18.92	83.84	86.68	25-Nov-19 23:00:00		**11.82**	**18.92**	**83.84**	**88.93**
26-Nov-19 00:00:00	26-Nov-19 01:00:00		1.19	0.00	0.00	11.18	2.1	329.7		0.39	0.00	0.00	3.69		10.35	18.92	83.84	86.68	26-Nov-19 00:00:00		**10.74**	**18.92**	**83.84**	**90.37**
26-Nov-19 01:00:00	26-Nov-19 02:00:00		1.38	0.00	0.00	19.94	2.1	329.7		0.46	0.00	0.00	6.57		10.35	18.92	83.84	86.68	26-Nov-19 01:00:00		**10.81**	**18.92**	**83.84**	**93.25**
26-Nov-19 02:00:00	26-Nov-19 03:00:00		4.29	0.00	0.00	6.97	2.1	329.7		1.42	0.00	0.00	2.30		10.35	18.92	83.84	86.68	26-Nov-19 02:00:00		**11.77**	**18.92**	**83.84**	**88.98**
26-Nov-19 03:00:00	26-Nov-19 04:00:00		13.59	0.00	0.00	6.98	2.1	329.7		4.48	0.00	0.00	2.30		10.35	18.92	83.84	86.68	26-Nov-19 03:00:00		**14.83**	**18.92**	**83.84**	**88.98**
26-Nov-19 04:00:00	26-Nov-19 05:00:00		7.63	0.00	0.00	7.00	2.1	329.7		2.52	0.00	0.00	2.31		10.35	18.92	83.84	86.68	26-Nov-19 04:00:00		**12.87**	**18.92**	**83.84**	**88.99**
26-Nov-19 05:00:00	26-Nov-19 06:00:00		5.09	0.00	0.00	116.98	2.1	329.7		1.68	0.00	0.00	38.57		10.35	18.92	83.84	86.68	26-Nov-19 05:00:00		**12.03**	**18.92**	**83.84**	**125.25**
26-Nov-19 06:00:00	26-Nov-19 07:00:00		0.66	0.00	0.00	7.43	2.1	329.7		0.22	0.00	0.00	2.45		10.35	18.92	83.84	86.68	26-Nov-19 06:00:00		**10.57**	**18.92**	**83.84**	**89.13**
26-Nov-19 07:00:00	26-Nov-19 08:00:00		4.45	0.00	0.00	7.13	2.1	329.7		1.47	0.00	0.00	2.35		10.35	18.92	83.84	86.68	26-Nov-19 07:00:00		**11.82**	**18.92**	**83.84**	**89.03**
26-Nov-19 08:00:00	26-Nov-19 09:00:00		5.87	0.00	0.00	6.82	2.1	329.7		1.93	0.00	0.00	2.25		10.35	18.92	83.84	86.68	26-Nov-19 08:00:00		**12.28**	**18.92**	**83.84**	**88.93**
26-Nov-19 09:00:00	26-Nov-19 10:00:00		4.52	0.00	0.00	6.52	2.1	329.7		1.49	0.00	0.00	2.15		10.35	18.92	83.84	86.68	26-Nov-19 09:00:00		**11.84**	**18.92**	**83.84**	**88.83**
26-Nov-19 10:00:00	26-Nov-19 11:00:00		3.57	0.00	0.00	116.05	2.1	329.7		1.18	0.00	0.00	38.26		10.35	18.92	83.84	86.68	26-Nov-19 10:00:00		**11.53**	**18.92**	**83.84**	**124.94**
26-Nov-19 11:00:00	26-Nov-19 12:00:00		2.80	0.00	0.00	5.82	2.1	329.7		0.92	0.00	0.00	1.92		10.35	18.92	83.84	86.68	26-Nov-19 11:00:00		**11.27**	**18.92**	**83.84**	**88.60**
26-Nov-19 12:00:00	26-Nov-19 13:00:00		5.99	0.00	0.00	5.53	2.1	329.7		1.97	0.00	0.00	1.82		10.35	18.92	83.84	86.68	26-Nov-19 12:00:00		**12.32**	**18.92**	**83.84**	**88.50**
26-Nov-19 13:00:00	26-Nov-19 14:00:00		4.52	0.00	0.00	5.24	2.1	329.7		1.49	0.00	0.00	1.73		10.35	18.92	83.84	86.68	26-Nov-19 13:00:00		**11.84**	**18.92**	**83.84**	**88.41**
26-Nov-19 14:00:00	26-Nov-19 15:00:00		13.42	0.00	0.00	4.96	2.1	329.7		4.42	0.00	0.00	1.63		10.35	18.92	83.84	86.68	26-Nov-19 14:00:00		**14.77**	**18.92**	**83.84**	**88.31**
26-Nov-19 15:00:00	26-Nov-19 16:00:00		3.30	0.00	0.00	4.98	2.1	329.7		1.09	0.00	0.00	1.64		10.35	18.92	83.84	86.68	26-Nov-19 15:00:00		**11.44**	**18.92**	**83.84**	**88.32**
26-Nov-19 16:00:00	26-Nov-19 17:00:00		1.37	0.00	0.00	5.09	2.1	329.7		0.45	0.00	0.00	1.68		10.35	18.92	83.84	86.68	26-Nov-19 16:00:00		**10.80**	**18.92**	**83.84**	**88.36**
26-Nov-19 17:00:00	26-Nov-19 18:00:00		0.85	0.00	0.00	5.19	2.1	329.7		0.28	0.00	0.00	1.71		10.35	18.92	83.84	86.68	26-Nov-19 17:00:00		**10.63**	**18.92**	**83.84**	**88.39**
26-Nov-19 18:00:00	26-Nov-19 19:00:00		0.34	0.00	0.00	5.37	2.1	329.7		0.11	0.00	0.00	1.77		10.35	18.92	83.84	86.68	26-Nov-19 18:00:00		**10.46**	**18.92**	**83.84**	**88.45**
26-Nov-19 19:00:00	26-Nov-19 20:00:00		0.01	0.00	0.00	5.56	2.1	329.7		0.00	0.00	0.00	1.83		10.35	18.92	83.84	86.68	26-Nov-19 19:00:00		**10.35**	**18.92**	**83.84**	**88.51**
26-Nov-19 20:00:00	26-Nov-19 21:00:00		1.03	0.00	0.00	5.69	2.1	329.7		0.34	0.00	0.00	1.88		10.35	18.92	83.84	86.68	26-Nov-19 20:00:00		**10.69**	**18.92**	**83.84**	**88.56**
26-Nov-19 21:00:00	26-Nov-19 22:00:00		1.10	0.00	0.00	5.82	2.1	329.7		0.36	0.00	0.00	1.92		10.35	18.92	83.84	86.68	26-Nov-19 21:00:00		**10.71**	**18.92**	**83.84**	**88.60**
26-Nov-19 22:00:00	26-Nov-19 23:00:00		2.86	0.00	0.00	5.97	2.1	329.7		0.94	0.00	0.00	1.97		10.35	18.92	83.84	86.68	26-Nov-19 22:00:00		**11.29**	**18.92**	**83.84**	**88.65**
26-Nov-19 23:00:00	27-Nov-19 00:00:00		2.56	0.00	0.00	9.87	2.1	329.7		0.85	0.00	0.00	3.25		10.35	18.92	83.84	86.68	26-Nov-19 23:00:00		**11.20**	**18.92**	**83.84**	**89.93**
27-Nov-19 00:00:00	27-Nov-19 01:00:00		2.47	0.00	0.00	6.91	2.1	329.7		0.81	0.00	0.00	2.28		10.35	18.92	83.84	86.68	27-Nov-19 00:00:00		**11.16**	**18.92**	**83.84**	**88.96**
27-Nov-19 01:00:00	27-Nov-19 02:00:00		2.73	0.00	0.00	6.66	2.1	329.7		0.90	0.00	0.00	2.20		10.35	18.92	83.84	86.68	27-Nov-19 01:00:00		**11.25**	**18.92**	**83.84**	**88.88**
27-Nov-19 02:00:00	27-Nov-19 03:00:00		0.12	0.00	0.00	6.42	2.1	329.7		0.04	0.00	0.00	2.12		10.35	18.92	83.84	86.68	27-Nov-19 02:00:00		**10.39**	**18.92**	**83.84**	**88.80**
27-Nov-19 03:00:00	27-Nov-19 04:00:00		6.14	0.00	0.00	6.17	2.1	329.7		2.03	0.00	0.00	2.03		10.35	18.92	83.84	86.68	27-Nov-19 03:00:00		**12.38**	**18.92**	**83.84**	**88.71**
27-Nov-19 04:00:00	27-Nov-19 05:00:00		102.49	0.00	0.00	28.95	2.1	329.7		33.79	0.00	0.00	9.55		10.35	18.92	83.84	86.68	27-Nov-19 04:00:00		**44.14**	**18.92**	**83.84**	**96.23**
27-Nov-19 05:00:00	27-Nov-19 06:00:00		1,585.36	0.00	0.00	5.93	2.1	329.7		522.69	0.00	0.00	1.96		10.35	18.92	83.84	86.68	27-Nov-19 05:00:00		**533.04**	**18.92**	**83.84**	**88.64**
27-Nov-19 06:00:00	27-Nov-19 07:00:00		1,499.78	0.00	0.00	5.88	2.1	329.7		494.48	0.00	0.00	1.94		10.35	18.92	83.84	86.68	27-Nov-19 06:00:00		**504.83**	**18.92**	**83.84**	**88.62**
27-Nov-19 07:00:00	27-Nov-19 08:00:00		1,534.74	0.00	0.00	5.84	2.1	329.7		506.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	27-Nov-19 07:00:00		**516.35**	**18.92**	**83.84**	**88.60**
27-Nov-19 08:00:00	27-Nov-19 09:00:00		1,423.36	0.00	0.00	8.85	2.1	329.7		469.28	0.00	0.00	2.92		10.35	18.92	83.84	86.68	27-Nov-19 08:00:00		**479.63**	**18.92**	**83.84**	**89.60**
27-Nov-19 09:00:00	27-Nov-19 10:00:00		1,629.80	0.00	0.00	17.64	2.1	329.7		537.34	0.00	0.00	5.82		10.35	18.92	83.84	86.68	27-Nov-19 09:00:00		**547.69**	**18.92**	**83.84**	**92.50**
27-Nov-19 10:00:00	27-Nov-19 11:00:00		1,627.64	0.00	0.00	7.41	2.1	329.7		536.63	0.00	0.00	2.44		10.35	18.92	83.84	86.68	27-Nov-19 10:00:00		**546.98**	**18.92**	**83.84**	**89.12**
27-Nov-19 11:00:00	27-Nov-19 12:00:00		1,625.47	0.00	0.00	6.61	2.1	329.7		535.92	0.00	0.00	2.18		10.35	18.92	83.84	86.68	27-Nov-19 11:00:00		**546.27**	**18.92**	**83.84**	**88.86**
27-Nov-19 12:00:00	27-Nov-19 13:00:00		1,611.76	0.00	0.00	5.82	2.1	329.7		531.40	0.00	0.00	1.92		10.35	18.92	83.84	86.68	27-Nov-19 12:00:00		**541.75**	**18.92**	**83.84**	**88.60**
27-Nov-19 13:00:00	27-Nov-19 14:00:00		732.64	0.00	0.00	5.25	2.1	329.7		241.55	0.00	0.00	1.73		10.35	18.92	83.84	86.68	27-Nov-19 13:00:00		**251.90**	**18.92**	**83.84**	**88.41**
27-Nov-19 14:00:00	27-Nov-19 15:00:00		58.48	0.00	0.00	5.13	2.1	329.7		19.28	0.00	0.00	1.69		10.35	18.92	83.84	86.68	27-Nov-19 14:00:00		**29.63**	**18.92**	**83.84**	**88.37**
27-Nov-19 15:00:00	27-Nov-19 16:00:00		4.04	0.00	0.00	5.02	2.1	329.7		1.33	0.00	0.00	1.65		10.35	18.92	83.84	86.68	27-Nov-19 15:00:00		**11.68**	**18.92**	**83.84**	**88.33**
27-Nov-19 16:00:00	27-Nov-19 17:00:00		0.64	0.00	0.00	4.91	2.1	329.7		0.21	0.00	0.00	1.62		10.35	18.92	83.84	86.68	27-Nov-19 16:00:00		**10.56**	**18.92**	**83.84**	**88.30**
27-Nov-19 17:00:00	27-Nov-19 18:00:00		3.23	0.00	0.00	4.83	2.1	329.7		1.07	0.00	0.00	1.59		10.35	18.92	83.84	86.68	27-Nov-19 17:00:00		**11.42**	**18.92**	**83.84**	**88.27**
27-Nov-19 18:00:00	27-Nov-19 19:00:00		0.00	0.00	0.00	67.96	2.1	329.7		0.00	0.00	0.00	22.41		10.35	18.92	83.84	86.68	27-Nov-19 18:00:00		**10.35**	**18.92**	**83.84**	**109.09**
27-Nov-19 19:00:00	27-Nov-19 20:00:00		0.00	0.00	0.00	5.36	2.1	329.7		0.00	0.00	0.00	1.77		10.35	18.92	83.84	86.68	27-Nov-19 19:00:00		**10.35**	**18.92**	**83.84**	**88.45**
27-Nov-19 20:00:00	27-Nov-19 21:00:00		0.00	0.00	0.00	5.52	2.1	329.7		0.00	0.00	0.00	1.82		10.35	18.92	83.84	86.68	27-Nov-19 20:00:00		**10.35**	**18.92**	**83.84**	**88.50**
27-Nov-19 21:00:00	27-Nov-19 22:00:00		0.00	0.00	0.00	5.68	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	27-Nov-19 21:00:00		**10.35**	**18.92**	**83.84**	**88.55**
27-Nov-19 22:00:00	27-Nov-19 23:00:00		1.00	0.00	0.00	5.82	2.1	329.7		0.33	0.00	0.00	1.92		10.35	18.92	83.84	86.68	27-Nov-19 22:00:00		**10.68**	**18.92**	**83.84**	**88.60**
27-Nov-19 23:00:00	28-Nov-19 00:00:00		10.85	0.00	0.00	5.95	2.1	329.7		3.58	0.00	0.00	1.96		10.35	18.92	83.84	86.68	27-Nov-19 23:00:00		**13.93**	**18.92**	**83.84**	**88.64**
28-Nov-19 00:00:00	28-Nov-19 01:00:00		4.51	0.00	0.00	6.09	2.1	329.7		1.49	0.00	0.00	2.01		10.35	18.92	83.84	86.68	28-Nov-19 00:00:00		**11.84**	**18.92**	**83.84**	**88.69**
28-Nov-19 01:00:00	28-Nov-19 02:00:00		14.68	0.00	0.00	6.24	2.1	329.7		4.84	0.00	0.00	2.06		10.35	18.92	83.84	86.68	28-Nov-19 01:00:00		**15.19**	**18.92**	**83.84**	**88.74**
28-Nov-19 02:00:00	28-Nov-19 03:00:00		0.13	0.00	0.00	6.41	2.1	329.7		0.04	0.00	0.00	2.11		10.35	18.92	83.84	86.68	28-Nov-19 02:00:00		**10.39**	**18.92**	**83.84**	**88.79**
28-Nov-19 03:00:00	28-Nov-19 04:00:00		2.79	0.00	0.00	6.53	2.1	329.7		0.92	0.00	0.00	2.15		10.35	18.92	83.84	86.68	28-Nov-19 03:00:00		**11.27**	**18.92**	**83.84**	**88.83**
28-Nov-19 04:00:00	28-Nov-19 05:00:00		9.98	0.00	0.00	6.62	2.1	329.7		3.29	0.00	0.00	2.18		10.35	18.92	83.84	86.68	28-Nov-19 04:00:00		**13.64**	**18.92**	**83.84**	**88.86**
28-Nov-19 05:00:00	28-Nov-19 06:00:00		3.67	0.00	0.00	6.71	2.1	329.7		1.21	0.00	0.00	2.21		10.35	18.92	83.84	86.68	28-Nov-19 05:00:00		**11.56**	**18.92**	**83.84**	**88.89**
28-Nov-19 06:00:00	28-Nov-19 07:00:00		0.21	0.00	0.00	6.78	2.1	329.7		0.07	0.00	0.00	2.23		10.35	18.92	83.84	86.68	28-Nov-19 06:00:00		**10.42**	**18.92**	**83.84**	**88.91**
28-Nov-19 07:00:00	28-Nov-19 08:00:00		0.14	0.00	0.00	6.71	2.1	329.7		0.05	0.00	0.00	2.21		10.35	18.92	83.84	86.68	28-Nov-19 07:00:00		**10.40**	**18.92**	**83.84**	**88.89**
28-Nov-19 08:00:00	28-Nov-19 09:00:00		0.08	0.00	0.00	17.60	2.1	329.7		0.03	0.00	0.00	5.80		10.35	18.92	83.84	86.68	28-Nov-19 08:00:00		**10.38**	**18.92**	**83.84**	**92.48**
28-Nov-19 09:00:00	28-Nov-19 10:00:00		0.02	0.00	0.00	6.32	2.1	329.7		0.01	0.00	0.00	2.09		10.35	18.92	83.84	86.68	28-Nov-19 09:00:00		**10.36**	**18.92**	**83.84**	**88.77**
28-Nov-19 10:00:00	28-Nov-19 11:00:00		3.06	0.00	0.00	5.99	2.1	329.7		1.01	0.00	0.00	1.98		10.35	18.92	83.84	86.68	28-Nov-19 10:00:00		**11.36**	**18.92**	**83.84**	**88.66**
28-Nov-19 11:00:00	28-Nov-19 12:00:00		17.46	0.00	0.00	5.66	2.1	329.7		5.76	0.00	0.00	1.87		10.35	18.92	83.84	86.68	28-Nov-19 11:00:00		**16.11**	**18.92**	**83.84**	**88.55**
28-Nov-19 12:00:00	28-Nov-19 13:00:00		3.52	0.00	0.00	5.33	2.1	329.7		1.16	0.00	0.00	1.76		10.35	18.92	83.84	86.68	28-Nov-19 12:00:00		**11.51**	**18.92**	**83.84**	**88.44**
28-Nov-19 13:00:00	28-Nov-19 14:00:00		11.61	0.00	0.00	5.13	2.1	329.7		3.83	0.00	0.00	1.69		10.35	18.92	83.84	86.68	28-Nov-19 13:00:00		**14.18**	**18.92**	**83.84**	**88.37**
28-Nov-19 14:00:00	28-Nov-19 15:00:00		16.94	0

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	$lb/10^3$ gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
30-Nov-19 16:00:00	30-Nov-19 17:00:00		4.19	0.00	0.00	5.78	2.1	329.7		1.38	0.00	0.00	1.90		10.35	18.92	83.84	86.68	30-Nov-19 16:00:00		11.73	18.92	83.84	88.58
30-Nov-19 17:00:00	30-Nov-19 18:00:00		5.68	0.00	0.00	5.88	2.1	329.7		1.87	0.00	0.00	1.94		10.35	18.92	83.84	86.68	30-Nov-19 17:00:00		12.22	18.92	83.84	88.62
30-Nov-19 18:00:00	30-Nov-19 19:00:00		6.05	0.00	0.00	5.83	2.1	329.7		1.99	0.00	0.00	1.92		10.35	18.92	83.84	86.68	30-Nov-19 18:00:00		12.34	18.92	83.84	88.60
30-Nov-19 19:00:00	30-Nov-19 20:00:00		6.20	0.00	0.00	9.29	2.1	329.7		2.04	0.00	0.00	3.06		10.35	18.92	83.84	86.68	30-Nov-19 19:00:00		12.39	18.92	83.84	89.74
30-Nov-19 20:00:00	30-Nov-19 21:00:00		6.36	0.00	0.00	5.95	2.1	329.7		2.10	0.00	0.00	1.96		10.35	18.92	83.84	86.68	30-Nov-19 20:00:00		12.45	18.92	83.84	88.64
30-Nov-19 21:00:00	30-Nov-19 22:00:00		6.59	0.00	0.00	6.04	2.1	329.7		2.17	0.00	0.00	1.99		10.35	18.92	83.84	86.68	30-Nov-19 21:00:00		12.52	18.92	83.84	88.67
30-Nov-19 22:00:00	30-Nov-19 23:00:00		7.04	0.00	0.00	6.12	2.1	329.7		2.32	0.00	0.00	2.02		10.35	18.92	83.84	86.68	30-Nov-19 22:00:00		12.67	18.92	83.84	88.70
30-Nov-19 23:00:00	01-Dec-19 00:00:00		7.51	0.00	0.00	52.20	2.1	329.7		2.47	0.00	0.00	17.21		10.35	18.92	83.84	86.68	30-Nov-19 23:00:00		12.82	18.92	83.84	103.89
01-Dec-19 00:00:00	01-Dec-19 01:00:00		7.97	0.00	0.00	5.93	2.1	329.7		2.63	0.00	0.00	1.96		10.35	18.92	83.84	86.68	01-Dec-19 00:00:00		12.98	18.92	83.84	88.64
01-Dec-19 01:00:00	01-Dec-19 02:00:00		8.33	0.00	0.00	6.05	2.1	329.7		2.75	0.00	0.00	1.99		10.35	18.92	83.84	86.68	01-Dec-19 01:00:00		13.10	18.92	83.84	88.67
01-Dec-19 02:00:00	01-Dec-19 03:00:00		8.29	0.00	0.00	6.17	2.1	329.7		2.73	0.00	0.00	2.03		10.35	18.92	83.84	86.68	01-Dec-19 02:00:00		13.08	18.92	83.84	88.71
01-Dec-19 03:00:00	01-Dec-19 04:00:00		8.21	0.00	0.00	6.28	2.1	329.7		2.71	0.00	0.00	2.07		10.35	18.92	83.84	86.68	01-Dec-19 03:00:00		13.06	18.92	83.84	88.75
01-Dec-19 04:00:00	01-Dec-19 05:00:00		8.14	0.00	0.00	6.30	2.1	329.7		2.68	0.00	0.00	2.08		10.35	18.92	83.84	86.68	01-Dec-19 04:00:00		13.03	18.92	83.84	88.76
01-Dec-19 05:00:00	01-Dec-19 06:00:00		8.21	0.00	0.00	6.26	2.1	329.7		2.71	0.00	0.00	2.06		10.35	18.92	83.84	86.68	01-Dec-19 05:00:00		13.06	18.92	83.84	88.74
01-Dec-19 06:00:00	01-Dec-19 07:00:00		8.70	0.00	0.00	6.22	2.1	329.7		2.87	0.00	0.00	2.05		10.35	18.92	83.84	86.68	01-Dec-19 06:00:00		13.22	18.92	83.84	88.73
01-Dec-19 07:00:00	01-Dec-19 08:00:00		9.22	0.00	0.00	6.19	2.1	329.7		3.04	0.00	0.00	2.04		10.35	18.92	83.84	86.68	01-Dec-19 07:00:00		13.39	18.92	83.84	88.72
01-Dec-19 08:00:00	01-Dec-19 09:00:00		10.53	0.00	0.00	6.04	2.1	329.7		3.47	0.00	0.00	1.99		10.35	18.92	83.84	86.68	01-Dec-19 08:00:00		13.82	18.92	83.84	88.67
01-Dec-19 09:00:00	01-Dec-19 10:00:00		13.40	0.00	0.00	5.76	2.1	329.7		4.42	0.00	0.00	1.90		10.35	18.92	83.84	86.68	01-Dec-19 09:00:00		14.77	18.92	83.84	88.58
01-Dec-19 10:00:00	01-Dec-19 11:00:00		0.88	0.00	0.00	5.49	2.1	329.7		0.29	0.00	0.00	1.81		10.35	18.92	83.84	86.68	01-Dec-19 10:00:00		10.64	18.92	83.84	88.49
01-Dec-19 11:00:00	01-Dec-19 12:00:00		0.39	0.00	0.00	5.23	2.1	329.7		0.13	0.00	0.00	1.72		10.35	18.92	83.84	86.68	01-Dec-19 11:00:00		10.48	18.92	83.84	88.40
01-Dec-19 12:00:00	01-Dec-19 13:00:00		0.10	0.00	0.00	5.20	2.1	329.7		0.03	0.00	0.00	1.71		10.35	18.92	83.84	86.68	01-Dec-19 12:00:00		10.38	18.92	83.84	88.39
01-Dec-19 13:00:00	01-Dec-19 14:00:00		12.95	0.00	0.00	5.30	2.1	329.7		4.27	0.00	0.00	1.75		10.35	18.92	83.84	86.68	01-Dec-19 13:00:00		14.62	18.92	83.84	88.43
01-Dec-19 14:00:00	01-Dec-19 15:00:00		5.44	0.00	0.00	19.79	2.1	329.7		1.79	0.00	0.00	6.53		10.35	18.92	83.84	86.68	01-Dec-19 14:00:00		12.14	18.92	83.84	93.21
01-Dec-19 15:00:00	01-Dec-19 16:00:00		2.14	0.00	0.00	5.42	2.1	329.7		0.71	0.00	0.00	1.79		10.35	18.92	83.84	86.68	01-Dec-19 15:00:00		11.06	18.92	83.84	88.47
01-Dec-19 16:00:00	01-Dec-19 17:00:00		1.10	0.00	0.00	5.52	2.1	329.7		0.36	0.00	0.00	1.82		10.35	18.92	83.84	86.68	01-Dec-19 16:00:00		10.71	18.92	83.84	88.50
01-Dec-19 17:00:00	01-Dec-19 18:00:00		0.79	0.00	0.00	5.62	2.1	329.7		0.26	0.00	0.00	1.85		10.35	18.92	83.84	86.68	01-Dec-19 17:00:00		10.61	18.92	83.84	88.53
01-Dec-19 18:00:00	01-Dec-19 19:00:00		0.32	0.00	0.00	18.08	2.1	329.7		0.10	0.00	0.00	5.96		10.35	18.92	83.84	86.68	01-Dec-19 18:00:00		10.45	18.92	83.84	92.64
01-Dec-19 19:00:00	01-Dec-19 20:00:00		22.82	0.00	0.00	5.80	2.1	329.7		7.53	0.00	0.00	1.91		10.35	18.92	83.84	86.68	01-Dec-19 19:00:00		17.88	18.92	83.84	88.59
01-Dec-19 20:00:00	01-Dec-19 21:00:00		19.73	0.00	0.00	5.98	2.1	329.7		6.50	0.00	0.00	1.97		10.35	18.92	83.84	86.68	01-Dec-19 20:00:00		16.85	18.92	83.84	88.65
01-Dec-19 21:00:00	01-Dec-19 22:00:00		19.24	0.00	0.00	6.17	2.1	329.7		6.34	0.00	0.00	2.03		10.35	18.92	83.84	86.68	01-Dec-19 21:00:00		16.69	18.92	83.84	88.71
01-Dec-19 22:00:00	01-Dec-19 23:00:00		11.58	0.00	0.00	6.35	2.1	329.7		3.82	0.00	0.00	2.09		10.35	18.92	83.84	86.68	01-Dec-19 22:00:00		14.17	18.92	83.84	88.77
01-Dec-19 23:00:00	02-Dec-19 00:00:00		4.71	0.00	0.00	11.74	2.1	329.7		1.55	0.00	0.00	3.87		10.35	18.92	83.84	86.68	01-Dec-19 23:00:00		11.90	18.92	83.84	90.55
02-Dec-19 00:00:00	02-Dec-19 01:00:00		26.32	0.00	0.00	6.40	2.1	329.7		8.68	0.00	0.00	2.11		10.35	18.92	83.84	86.68	02-Dec-19 00:00:00		19.03	18.92	83.84	88.79
02-Dec-19 01:00:00	02-Dec-19 02:00:00		17.51	0.00	0.00	6.45	2.1	329.7		5.77	0.00	0.00	2.13		10.35	18.92	83.84	86.68	02-Dec-19 01:00:00		16.12	18.92	83.84	88.81
02-Dec-19 02:00:00	02-Dec-19 03:00:00		35.33	0.00	0.00	6.50	2.1	329.7		11.65	0.00	0.00	2.14		10.35	18.92	83.84	86.68	02-Dec-19 02:00:00		22.00	18.92	83.84	88.82
02-Dec-19 03:00:00	02-Dec-19 04:00:00		35.48	0.00	0.00	6.52	2.1	329.7		11.70	0.00	0.00	2.15		10.35	18.92	83.84	86.68	02-Dec-19 03:00:00		22.05	18.92	83.84	88.83
02-Dec-19 04:00:00	02-Dec-19 05:00:00		22.32	0.00	0.00	8.14	2.1	329.7		7.36	0.00	0.00	2.69		10.35	18.92	83.84	86.68	02-Dec-19 04:00:00		17.71	18.92	83.84	89.37
02-Dec-19 05:00:00	02-Dec-19 06:00:00		19.14	0.00	0.00	6.48	2.1	329.7		6.31	0.00	0.00	2.14		10.35	18.92	83.84	86.68	02-Dec-19 05:00:00		16.66	18.92	83.84	88.82
02-Dec-19 06:00:00	02-Dec-19 07:00:00		7.15	0.00	0.00	6.60	2.1	329.7		2.36	0.00	0.00	2.18		10.35	18.92	83.84	86.68	02-Dec-19 06:00:00		12.71	18.92	83.84	88.86
02-Dec-19 07:00:00	02-Dec-19 08:00:00		4.30	0.00	0.00	6.73	2.1	329.7		1.42	0.00	0.00	2.22		10.35	18.92	83.84	86.68	02-Dec-19 07:00:00		11.77	18.92	83.84	88.90
02-Dec-19 08:00:00	02-Dec-19 09:00:00		1.33	0.00	0.00	6.89	2.1	329.7		0.44	0.00	0.00	2.27		10.35	18.92	83.84	86.68	02-Dec-19 08:00:00		10.79	18.92	83.84	88.95
02-Dec-19 09:00:00	02-Dec-19 10:00:00		0.84	0.00	0.00	7.30	2.1	329.7		0.28	0.00	0.00	2.41		10.35	18.92	83.84	86.68	02-Dec-19 09:00:00		10.63	18.92	83.84	89.09
02-Dec-19 10:00:00	02-Dec-19 11:00:00		0.34	0.00	0.00	6.88	2.1	329.7		0.11	0.00	0.00	2.27		10.35	18.92	83.84	86.68	02-Dec-19 10:00:00		10.46	18.92	83.84	88.95
02-Dec-19 11:00:00	02-Dec-19 12:00:00		2.52	0.00	0.00	6.80	2.1	329.7		0.83	0.00	0.00	2.24		10.35	18.92	83.84	86.68	02-Dec-19 11:00:00		11.18	18.92	83.84	88.92
02-Dec-19 12:00:00	02-Dec-19 13:00:00		8.06	0.00	0.00	6.72	2.1	329.7		2.66	0.00	0.00	2.22		10.35	18.92	83.84	86.68	02-Dec-19 12:00:00		13.01	18.92	83.84	88.90
02-Dec-19 13:00:00	02-Dec-19 14:00:00		19.25	0.00	0.00	6.43	2.1	329.7		6.35	0.00	0.00	2.12		10.35	18.92	83.84	86.68	02-Dec-19 13:00:00		16.70	18.92	83.84	88.80
02-Dec-19 14:00:00	02-Dec-19 15:00:00		20.67	0.00	0.00	6.22	2.1	329.7		6.82	0.00	0.00	2.05		10.35	18.92	83.84	86.68	02-Dec-19 14:00:00		17.17	18.92	83.84	88.73
02-Dec-19 15:00:00	02-Dec-19 16:00:00		20.90	0.00	0.00	6.07	2.1	329.7		6.89	0.00	0.00	2.00		10.35	18.92	83.84	86.68	02-Dec-19 15:00:00		17.24	18.92	83.84	88.68
02-Dec-19 16:00:00	02-Dec-19 17:00:00		21.13	0.00	0.00	5.92	2.1	329.7		6.97	0.00	0.00	1.95		10.35	18.92	83.84	86.68	02-Dec-19 16:00:00		17.32	18.92	83.84	88.63
02-Dec-19 17:00:00	02-Dec-19 18:00:00		20.77	0.00	0.00	5.85	2.1	329.7		6.85	0.00	0.00	1.93		10.35	18.92	83.84	86.68	02-Dec-19 17:00:00		17.20	18.92	83.84	88.61
02-Dec-19 18:00:00	02-Dec-19 19:00:00		3.92	0.00	0.00	11.42	2.1	329.7		1.29	0.00	0.00	3.77		10.35	18.92	83.84	86.68	02-Dec-19 18:00:00		11.64	18.92	83.84	90.45
02-Dec-19 19:00:00	02-Dec-19 20:00:00		2.24	0.00	0.00	8.30	2.1	329.7		0.74	0.00	0.00	2.74		10.35	18.92	83.84	86.68	02-Dec-19 19:00:00		11.09	18.92	83.84	89.42
02-Dec-19 20:00:00	02-Dec-19 21:00:00		12.30	0.00	0.00	6.77	2.1	329.7		4.05	0.00	0.00	2.23		10.35	18.92	83.84	86.68	02-Dec-19 20:00:00		14.40	18.92	83.84	88.91
02-Dec-19 21:00:00	02-Dec-19 22:00:00		1.34	0.00	0.00	16.75	2.1	329.7		0.44	0.00	0.00	5.52		10.35	18.92	83.84	86.68	02-Dec-19 21:00:00		10.79	18.92	83.84	92.20
02-Dec-19 22:00:00	02-Dec-19 23:00:00		35.80	0.00	0.00	7.18	2.1	329.7		11.80	0.00	0.00	2.37		10.35	18.92	83.84	86.68	02-Dec-19 22:00:00		22.15	18.92	83.84	89.05
02-Dec-19 23:00:00	03-Dec-19 00:00:00		14.04	0.00	0.00	7.17	2.1	329.7		4.63	0.00	0.00	2.36		10.35	18.92	83.84	86.68	02-Dec-19 23:00:00		14.98	18.92	83.84	89.04
03-Dec-19 00:00:00	03-Dec-19 01:00:00		35.04	0.00	0.00	7.15	2.1	329.7		11.55	0.00	0.00	2.36		10.35	18.92	83.84	86.68	03-Dec-19 00:00:00		21.90	18.92	83.84	89.04
03-Dec-19 01:00:00	03-Dec-19 02:00:00		22.31	0.00	0.00	7.12	2.1	329.7		7.36	0.00	0.00	2.35		10.35	18.92	83.84	86.68	03-Dec-19 01:00:00		17.71	18.92	83.84	89.03
03-Dec-19 02:00:00	03-Dec-19 03:00:00		0.00	0.00	0.00	7.28	2.1	329.7		0.00	0.00	0.00	2.40		10.35	18.92	83.84	86.68	03-Dec-19 02:00:00		10.35	18.92	83.84	89.08
03-Dec-19 03:00:00	03-Dec-19 04:00:00		0.00	0.00	0.00	29.34	2.1	329.7		0.00	0.00	0.00	9.67		10.35	18.92	83.84	86.68	03-Dec-19 03:00:00		10.35	18.92	83.84	96.35
03-Dec-19 04:00:00	03-Dec-19 05:00:00		14.78	0.00	0.00	7.51	2.1	329.7		4.87	0.00	0.00	2.47		10.35	18.92	83.84	86.68	03-Dec-19 04:00:00		15.22	18.92	83.84	89.15
03-Dec-19 05:00:00	03-Dec-19 06:00:00		20.83	0.00	0.00	7.53	2.1	329.7		6.87	0.00	0.00	2.48		10.35	18.92	83.84	86.68	03-Dec-19 05:00:00		17.22	18.92	83.84	89.16
03-Dec-19 06:00:00	03-Dec-19 07:00:00		20.85	0.00	0.00	7.56	2.1	329.7		6.87	0.00	0.00	2.49		10.35	18.92	83.84	86.68	03-Dec-19 06:00:00		17.22	18.92	83.84	89.17
03-Dec-19 07:00:00	03-Dec-19 08:00:00		21.52	0.00	0.00	7.57	2.1	329.7		7.10	0.00	0.00	2.50		10.35	18.92	83.84	86.68	03-Dec-19 07:00:00		17.45	18.92	83.84	89.18
03-Dec-19 08:00:00	03-Dec-19 09:00:00		616.62	0.00	0.00	117.39	2.1	329.7		203.30	0.00	0.00	38.70		10.35	18.92	83.84	86.68	03-Dec-19 08:00:00		213.65	18.92	83.84	125.38
03-Dec-19 09:00:00	03-Dec-19 10:00:00		657.76	0.00	0.00	7.28	2.1	329.7		216.86	0.00	0.00	2.40		10.35	18.92	83.84	86.68	03-Dec-19 09:00:00		227.21	18.92	83.84	89.08
03-Dec-19 10:00:00	03-Dec-19 11:00:00		389.10	0.00	0.00	6.96	2.1	329.7		128.29	0.00	0.00	2.30		10.35	18.92	83.84	86.68	03-Dec-19 10:00:00		138.64	18.92	83.84	88.98
03-Dec-19 11:00:00	03-Dec-19 12:00:00		389.98	0.00	0.00	49.81	2.1	329.7		128.58	0.00	0.00	16.42		10.35	18.92	83.84	86.68	03-Dec-19 11:00:00		138.93	18.92	83.84	103.10
03-Dec-19 12:00:00	03-Dec-19 13:00:00		215.84	0.00	0.00	6.50	2.1	329.7		71.16	0.00	0.00	2.14		10.35	18.92	83.84	86.68	03-Dec-19 12:00:00		81.51	18.92	83.84	88.82
03-Dec-19 13:00:00	03-Dec-19 14:00:00		243.40	0.00	0.00	6.44	2.1	329.7		80.25	0.00	0.00	2.12		10.35	18.92	83.84	86.68	03-Dec-19 13:00:00		90.60	18.92	83.84	88.80
03-Dec-19 14:00:00	03-Dec-19 15:00:00		245.40	0.00	0.00	117.34	2.1	329.7		80.91	0.00	0.00	38.69		10.35	18.92	83.84	86.68	03-Dec-19 14:00:00		91.26	18.92	83.84	125.37
03-Dec-19 15:00:00	03-Dec-19 16:00:00		0.00	0.00	0.00	6.31	2.1	329.7		0.00	0.00	0.00	2.08		10.35	18.92	83.84	86.68	03-Dec-19 15:00:00		10.35	18.92	83.84	88.76
03-Dec-19 16:00:00	03-Dec-19 17:00:00		0.00	0.00	0.00	6.06	2.1	329.7		0.00	0.00	0.00	2.00		10.35	18.92	83.84	86.68	03-Dec-19 16:00:00		10.35	18.92	83.84	88.68
03-Dec-19 17:00:00	03-Dec-19 18:00:00		0.00	0.00	0.00	9.33	2.1	329.7		0.00	0.00	0.00	3.07		10.35	18.92	83.84	86.68	03-Dec-19 17:00:00		10.35	18.92	83.84	89.75
03-Dec-19 18:00:00	03-Dec-19 19:00:00		0.00	0.00	0.00	6.02	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	03-Dec-19 18:00:00		10.35	18.92	83.84	88.67
03-Dec-19 19:00:00	03-Dec-19 20:00:00		0.00	0.00	0.00	112.23	2.1	329.7		0.00	0.00	0.00	37.00		10.35	18.92	83.84	86.68	03-Dec-19 19:00:00		10.35	18.92	83.84	123.68
03-Dec-19 20:00:00	03-Dec-19 21:00:00		0.00	0.00	0.00	11.06	2.1	329.7		0.00	0.00	0.00	3.65		10.35	18.92	83.84	86.68	03-Dec-19 20:00:00		10.35	18.92	83.84	90.33
03-Dec-19 21:00:00	03-Dec-19 22:00:00		0.00	0.00	0.00	6.18	2.1	329.7		0.00	0.00	0.00	2.04		10.35	18.92	83.84	86.68	03-Dec-19 21:00:00		10.35	18.92	83.84	88.72
03-Dec-19 22:00:00	03-Dec-19 23:00:00		0.00	0.00	0.00	6.25	2.1	329.7		0.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	03-Dec-19 22:00:00		10.35	18.92	83.84	88.74
03-Dec-19 23:00:00	04-Dec-19 00:00:00		0.00	0.00	0.00	6.33	2.1	329.7		0.00	0.00	0.00	2.09		10.35	18.92	83.84	86.68	03-Dec-19 23:00:00		10.35	18.92	83.84	88.77
04-Dec-19 00:00:00	04-Dec-19 01:00:00		0.00	0.00	0.00	6.39	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	04-Dec-19 00:00:00		10.35	18.92	83.84	88.79
04-Dec-19 01:00:00	04-Dec-19 02:00:00		0.00	0.00	0.00	6.47	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	04-Dec-19 01:00:00		10.35	18.92	83.84	88.81
04-Dec-19 02:00:00	04-Dec-19 03:00:00		0.00	0.00	0.00	6.55	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	04-Dec-19 02:00:00		10.35	18.92	83.84	88.84
04-Dec-19 03:00:00	04-Dec-19 04:00:00		0.00	0.00	0.00	6.63	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	04-Dec-19 03:00:00		10.35	18.92	83.84	88.86
04-Dec-19 04:00:00	04-Dec-19 05:00:00		0.00	0.00	0.00	6.71	2.1	329.7		0.00	0.00	0.00	2.21		10.35	18.92	83.84	86.68	04-Dec-19 04:00:00		10.35	18.92	83.84	88.89
04-Dec-19 05:00:00	04-Dec-19 06:00:00		2.06	0.00	0.00	6.80	2.1	329.7		0.68	0.00	0.00	2.24		10.35	18.92	83.84	86.68	04-Dec-19 05:00:00		11.03	18.92	83.84	88.92
04-Dec-19 06:00:00	04-Dec-19 07:00:00		0.00	0.00	0.00	39.23	2.1	329.7		0.00	0.00	0.00	12.94		10.35	18.92	83.84	86.68	04-Dec-19 06:00:00		10.35	18.92	83.84	99.62
04-Dec-19 07:00:00	04-Dec-19 08:00:00		0.00	0.00	0.00	7.00	2.1	329.7		0.00	0.00	0.00	2.31		10.35	18.92	83.84	86.68	04-Dec-19 07:00:00		10.35	18.92	83.84	88.99
04-Dec-19 08:00:00	04-Dec-19 09:00:00		0.00	0.00	0.00	6.99	2.1	329.7		0.00	0.00	0.00	2.31		10.35	18.92	83.84	86.68	04-Dec-19 08:00:00		10.35	18.92	83.84	88.99
04-Dec-19 09:00:00	04-Dec-19 10:00:00		0.00	0.00	0.00	14.31	2.1	329.7		0.00	0.00	0.00	4.72		10.35	18.92	83.84	86.68	04-Dec-19 09:00:00		10.35	18.92	83.84	91.40
04-Dec-19 10:00:00	04-Dec-19 11:00:00		1.12	0.00	0.00	6.84	2.1	329.7		0.37	0.00	0.00	2.26		10.35	18.92	83.84	86.68	04-Dec-19 10:00:00		10.72	18.92	83.84	88.94
04-Dec-19 11:00:00	04-Dec-19 12:00:00		0.58	0.00	0.00	6.56	2.1	329.7		0.19	0.00	0.00	2.16		10.35	18.92	83.84	86.68	04-Dec-19 11:00:00		10.54	18.92	83.84	88.84
04-Dec-19 12:00:00	04-Dec-19 13:00:00		18.03	0.00	0.00	6.27	2.1	329.7		5.94	0.00	0.00	2.07		10.35	18.92	83.84	86.68	04-Dec-19 12:00:00		16.29	18.92	83.84	88.75
04-Dec-19 13:00:00	04-Dec-19 14:00:00		4.42	0.00	0.00	6.00

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
06-Dec-19 15:00:00	06-Dec-19 16:00:00		10.59	0.00	0.00	4.85	2.1	329.7		3.49	0.00	0.00	1.60		10.35	18.92	83.84	86.68	06-Dec-19 15:00:00		13.84	18.92	83.84	88.28
06-Dec-19 16:00:00	06-Dec-19 17:00:00		9.85	0.00	0.00	4.70	2.1	329.7		3.25	0.00	0.00	1.55		10.35	18.92	83.84	86.68	06-Dec-19 16:00:00		13.60	18.92	83.84	88.23
06-Dec-19 17:00:00	06-Dec-19 18:00:00		10.14	0.00	0.00	35.19	2.1	329.7		3.34	0.00	0.00	11.60		10.35	18.92	83.84	86.68	06-Dec-19 17:00:00		13.69	18.92	83.84	98.28
06-Dec-19 18:00:00	06-Dec-19 19:00:00		10.44	0.00	0.00	4.90	2.1	329.7		3.44	0.00	0.00	1.62		10.35	18.92	83.84	86.68	06-Dec-19 18:00:00		13.79	18.92	83.84	88.30
06-Dec-19 19:00:00	06-Dec-19 20:00:00		10.89	0.00	0.00	5.00	2.1	329.7		3.59	0.00	0.00	1.65		10.35	18.92	83.84	86.68	06-Dec-19 19:00:00		13.94	18.92	83.84	88.33
06-Dec-19 20:00:00	06-Dec-19 21:00:00		11.06	0.00	0.00	5.37	2.1	329.7		3.65	0.00	0.00	1.77		10.35	18.92	83.84	86.68	06-Dec-19 20:00:00		14.00	18.92	83.84	88.45
06-Dec-19 21:00:00	06-Dec-19 22:00:00		11.01	0.00	0.00	5.08	2.1	329.7		3.63	0.00	0.00	1.68		10.35	18.92	83.84	86.68	06-Dec-19 21:00:00		13.98	18.92	83.84	88.36
06-Dec-19 22:00:00	06-Dec-19 23:00:00		10.95	0.00	0.00	5.08	2.1	329.7		3.61	0.00	0.00	1.68		10.35	18.92	83.84	86.68	06-Dec-19 22:00:00		13.96	18.92	83.84	88.36
06-Dec-19 23:00:00	07-Dec-19 00:00:00		11.08	0.00	0.00	11.43	2.1	329.7		3.65	0.00	0.00	3.77		10.35	18.92	83.84	86.68	06-Dec-19 23:00:00		14.00	18.92	83.84	90.45
07-Dec-19 00:00:00	07-Dec-19 01:00:00		12.44	0.00	0.00	5.16	2.1	329.7		4.10	0.00	0.00	1.70		10.35	18.92	83.84	86.68	07-Dec-19 00:00:00		14.45	18.92	83.84	88.38
07-Dec-19 01:00:00	07-Dec-19 02:00:00		9.61	0.00	0.00	5.31	2.1	329.7		3.17	0.00	0.00	1.75		10.35	18.92	83.84	86.68	07-Dec-19 01:00:00		13.52	18.92	83.84	88.43
07-Dec-19 02:00:00	07-Dec-19 03:00:00		18.98	0.00	0.00	5.47	2.1	329.7		6.26	0.00	0.00	1.80		10.35	18.92	83.84	86.68	07-Dec-19 02:00:00		16.61	18.92	83.84	88.48
07-Dec-19 03:00:00	07-Dec-19 04:00:00		30.83	0.00	0.00	5.62	2.1	329.7		10.16	0.00	0.00	1.85		10.35	18.92	83.84	86.68	07-Dec-19 03:00:00		20.51	18.92	83.84	88.53
07-Dec-19 04:00:00	07-Dec-19 05:00:00		21.89	0.00	0.00	5.82	2.1	329.7		7.22	0.00	0.00	1.92		10.35	18.92	83.84	86.68	07-Dec-19 04:00:00		17.57	18.92	83.84	88.60
07-Dec-19 05:00:00	07-Dec-19 06:00:00		0.00	0.00	0.00	9.97	2.1	329.7		0.00	0.00	0.00	3.29		10.35	18.92	83.84	86.68	07-Dec-19 05:00:00		10.35	18.92	83.84	89.97
07-Dec-19 06:00:00	07-Dec-19 07:00:00		0.00	0.00	0.00	6.16	2.1	329.7		0.00	0.00	0.00	2.03		10.35	18.92	83.84	86.68	07-Dec-19 06:00:00		10.35	18.92	83.84	88.71
07-Dec-19 07:00:00	07-Dec-19 08:00:00		2.28	0.00	0.00	6.18	2.1	329.7		0.75	0.00	0.00	2.04		10.35	18.92	83.84	86.68	07-Dec-19 07:00:00		11.10	18.92	83.84	88.72
07-Dec-19 08:00:00	07-Dec-19 09:00:00		1.59	0.00	0.00	31.98	2.1	329.7		0.53	0.00	0.00	10.54		10.35	18.92	83.84	86.68	07-Dec-19 08:00:00		10.88	18.92	83.84	97.22
07-Dec-19 09:00:00	07-Dec-19 10:00:00		0.68	0.00	0.00	5.73	2.1	329.7		0.22	0.00	0.00	1.89		10.35	18.92	83.84	86.68	07-Dec-19 09:00:00		10.57	18.92	83.84	88.57
07-Dec-19 10:00:00	07-Dec-19 11:00:00		1.88	0.00	0.00	9.68	2.1	329.7		0.62	0.00	0.00	3.19		10.35	18.92	83.84	86.68	07-Dec-19 10:00:00		10.97	18.92	83.84	89.87
07-Dec-19 11:00:00	07-Dec-19 12:00:00		4.53	0.00	0.00	4.99	2.1	329.7		1.49	0.00	0.00	1.65		10.35	18.92	83.84	86.68	07-Dec-19 11:00:00		11.84	18.92	83.84	88.33
07-Dec-19 12:00:00	07-Dec-19 13:00:00		1.51	0.00	0.00	4.85	2.1	329.7		0.50	0.00	0.00	1.60		10.35	18.92	83.84	86.68	07-Dec-19 12:00:00		10.85	18.92	83.84	88.28
07-Dec-19 13:00:00	07-Dec-19 14:00:00		1.65	0.00	0.00	4.71	2.1	329.7		0.55	0.00	0.00	1.55		10.35	18.92	83.84	86.68	07-Dec-19 13:00:00		10.90	18.92	83.84	88.23
07-Dec-19 14:00:00	07-Dec-19 15:00:00		1.76	0.00	0.00	4.57	2.1	329.7		0.58	0.00	0.00	1.51		10.35	18.92	83.84	86.68	07-Dec-19 14:00:00		10.93	18.92	83.84	88.19
07-Dec-19 15:00:00	07-Dec-19 16:00:00		1.58	0.00	0.00	4.53	2.1	329.7		0.52	0.00	0.00	1.49		10.35	18.92	83.84	86.68	07-Dec-19 15:00:00		10.87	18.92	83.84	88.17
07-Dec-19 16:00:00	07-Dec-19 17:00:00		1.12	0.00	0.00	4.79	2.1	329.7		0.37	0.00	0.00	1.58		10.35	18.92	83.84	86.68	07-Dec-19 16:00:00		10.72	18.92	83.84	88.26
07-Dec-19 17:00:00	07-Dec-19 18:00:00		0.00	0.00	0.00	4.93	2.1	329.7		0.00	0.00	0.00	1.63		10.35	18.92	83.84	86.68	07-Dec-19 17:00:00		10.35	18.92	83.84	88.31
07-Dec-19 18:00:00	07-Dec-19 19:00:00		0.00	0.00	0.00	5.23	2.1	329.7		0.00	0.00	0.00	1.72		10.35	18.92	83.84	86.68	07-Dec-19 18:00:00		10.35	18.92	83.84	88.40
07-Dec-19 19:00:00	07-Dec-19 20:00:00		0.00	0.00	0.00	8.77	2.1	329.7		0.00	0.00	0.00	2.89		10.35	18.92	83.84	86.68	07-Dec-19 19:00:00		10.35	18.92	83.84	89.57
07-Dec-19 20:00:00	07-Dec-19 21:00:00		1.78	0.00	0.00	5.44	2.1	329.7		0.59	0.00	0.00	1.79		10.35	18.92	83.84	86.68	07-Dec-19 20:00:00		10.94	18.92	83.84	88.47
07-Dec-19 21:00:00	07-Dec-19 22:00:00		1.08	0.00	0.00	5.56	2.1	329.7		0.36	0.00	0.00	1.83		10.35	18.92	83.84	86.68	07-Dec-19 21:00:00		10.71	18.92	83.84	88.51
07-Dec-19 22:00:00	07-Dec-19 23:00:00		0.70	0.00	0.00	9.43	2.1	329.7		0.23	0.00	0.00	3.11		10.35	18.92	83.84	86.68	07-Dec-19 22:00:00		10.58	18.92	83.84	89.79
07-Dec-19 23:00:00	08-Dec-19 00:00:00		2.14	0.00	0.00	5.82	2.1	329.7		0.71	0.00	0.00	1.92		10.35	18.92	83.84	86.68	07-Dec-19 23:00:00		11.06	18.92	83.84	88.60
08-Dec-19 00:00:00	08-Dec-19 01:00:00		15.19	0.00	0.00	5.96	2.1	329.7		5.01	0.00	0.00	1.96		10.35	18.92	83.84	86.68	08-Dec-19 00:00:00		15.36	18.92	83.84	88.64
08-Dec-19 01:00:00	08-Dec-19 02:00:00		5.87	0.00	0.00	6.10	2.1	329.7		1.94	0.00	0.00	2.01		10.35	18.92	83.84	86.68	08-Dec-19 01:00:00		12.29	18.92	83.84	88.69
08-Dec-19 02:00:00	08-Dec-19 03:00:00		12.89	0.00	0.00	6.31	2.1	329.7		4.25	0.00	0.00	2.08		10.35	18.92	83.84	86.68	08-Dec-19 02:00:00		14.60	18.92	83.84	88.76
08-Dec-19 03:00:00	08-Dec-19 04:00:00		6.15	0.00	0.00	6.83	2.1	329.7		2.03	0.00	0.00	2.25		10.35	18.92	83.84	86.68	08-Dec-19 03:00:00		12.38	18.92	83.84	88.93
08-Dec-19 04:00:00	08-Dec-19 05:00:00		1.77	0.00	0.00	6.76	2.1	329.7		0.58	0.00	0.00	2.23		10.35	18.92	83.84	86.68	08-Dec-19 04:00:00		10.93	18.92	83.84	88.91
08-Dec-19 05:00:00	08-Dec-19 06:00:00		4.05	0.00	0.00	6.74	2.1	329.7		1.33	0.00	0.00	2.22		10.35	18.92	83.84	86.68	08-Dec-19 05:00:00		11.68	18.92	83.84	88.90
08-Dec-19 06:00:00	08-Dec-19 07:00:00		1.49	0.00	0.00	6.73	2.1	329.7		0.49	0.00	0.00	2.22		10.35	18.92	83.84	86.68	08-Dec-19 06:00:00		10.84	18.92	83.84	88.90
08-Dec-19 07:00:00	08-Dec-19 08:00:00		1.02	0.00	0.00	6.66	2.1	329.7		0.34	0.00	0.00	2.20		10.35	18.92	83.84	86.68	08-Dec-19 07:00:00		10.69	18.92	83.84	88.88
08-Dec-19 08:00:00	08-Dec-19 09:00:00		0.62	0.00	0.00	8.02	2.1	329.7		0.20	0.00	0.00	2.64		10.35	18.92	83.84	86.68	08-Dec-19 08:00:00		10.55	18.92	83.84	89.32
08-Dec-19 09:00:00	08-Dec-19 10:00:00		0.21	0.00	0.00	14.15	2.1	329.7		0.07	0.00	0.00	4.67		10.35	18.92	83.84	86.68	08-Dec-19 09:00:00		10.42	18.92	83.84	91.35
08-Dec-19 10:00:00	08-Dec-19 11:00:00		0.55	0.00	0.00	6.20	2.1	329.7		0.18	0.00	0.00	2.04		10.35	18.92	83.84	86.68	08-Dec-19 10:00:00		10.53	18.92	83.84	88.72
08-Dec-19 11:00:00	08-Dec-19 12:00:00		1.66	0.00	0.00	5.94	2.1	329.7		0.55	0.00	0.00	1.96		10.35	18.92	83.84	86.68	08-Dec-19 11:00:00		10.90	18.92	83.84	88.64
08-Dec-19 12:00:00	08-Dec-19 13:00:00		6.17	0.00	0.00	97.09	2.1	329.7		2.03	0.00	0.00	32.01		10.35	18.92	83.84	86.68	08-Dec-19 12:00:00		12.38	18.92	83.84	118.69
08-Dec-19 13:00:00	08-Dec-19 14:00:00		13.22	0.00	0.00	5.52	2.1	329.7		4.36	0.00	0.00	1.82		10.35	18.92	83.84	86.68	08-Dec-19 13:00:00		14.71	18.92	83.84	88.50
08-Dec-19 14:00:00	08-Dec-19 15:00:00		15.57	0.00	0.00	5.36	2.1	329.7		5.13	0.00	0.00	1.77		10.35	18.92	83.84	86.68	08-Dec-19 14:00:00		15.48	18.92	83.84	88.45
08-Dec-19 15:00:00	08-Dec-19 16:00:00		24.30	0.00	7.78	5.20	2.1	329.7		8.01	0.00	2.57	1.71		10.35	18.92	83.84	86.68	08-Dec-19 15:00:00		18.36	18.92	86.41	88.39
08-Dec-19 16:00:00	08-Dec-19 17:00:00		29.95	0.00	0.00	5.04	2.1	329.7		9.87	0.00	0.00	1.66		10.35	18.92	83.84	86.68	08-Dec-19 16:00:00		20.22	18.92	83.84	88.34
08-Dec-19 17:00:00	08-Dec-19 18:00:00		25.59	0.00	0.00	5.04	2.1	329.7		8.44	0.00	0.00	1.66		10.35	18.92	83.84	86.68	08-Dec-19 17:00:00		18.79	18.92	83.84	88.34
08-Dec-19 18:00:00	08-Dec-19 19:00:00		23.47	0.00	0.00	5.31	2.1	329.7		7.74	0.00	0.00	1.75		10.35	18.92	83.84	86.68	08-Dec-19 18:00:00		18.09	18.92	83.84	88.43
08-Dec-19 19:00:00	08-Dec-19 20:00:00		24.50	0.00	0.00	5.22	2.1	329.7		8.08	0.00	0.00	1.72		10.35	18.92	83.84	86.68	08-Dec-19 19:00:00		18.43	18.92	83.84	88.40
08-Dec-19 20:00:00	08-Dec-19 21:00:00		25.85	0.00	0.00	5.32	2.1	329.7		8.52	0.00	0.00	1.75		10.35	18.92	83.84	86.68	08-Dec-19 20:00:00		18.87	18.92	83.84	88.43
08-Dec-19 21:00:00	08-Dec-19 22:00:00		25.10	0.00	0.00	5.42	2.1	329.7		8.28	0.00	0.00	1.79		10.35	18.92	83.84	86.68	08-Dec-19 21:00:00		18.63	18.92	83.84	88.47
08-Dec-19 22:00:00	08-Dec-19 23:00:00		22.14	0.00	0.00	5.51	2.1	329.7		7.30	0.00	0.00	1.82		10.35	18.92	83.84	86.68	08-Dec-19 22:00:00		17.65	18.92	83.84	88.50
08-Dec-19 23:00:00	09-Dec-19 00:00:00		23.35	0.00	0.00	5.55	2.1	329.7		7.70	0.00	0.00	1.83		10.35	18.92	83.84	86.68	08-Dec-19 23:00:00		18.05	18.92	83.84	88.51
09-Dec-19 00:00:00	09-Dec-19 01:00:00		21.74	0.00	0.00	5.58	2.1	329.7		7.17	0.00	0.00	1.84		10.35	18.92	83.84	86.68	09-Dec-19 00:00:00		17.52	18.92	83.84	88.52
09-Dec-19 01:00:00	09-Dec-19 02:00:00		27.71	0.00	0.00	5.62	2.1	329.7		9.14	0.00	0.00	1.85		10.35	18.92	83.84	86.68	09-Dec-19 01:00:00		19.49	18.92	83.84	88.53
09-Dec-19 02:00:00	09-Dec-19 03:00:00		27.70	0.00	0.00	53.66	2.1	329.7		9.13	0.00	0.00	17.69		10.35	18.92	83.84	86.68	09-Dec-19 02:00:00		19.48	18.92	83.84	104.37
09-Dec-19 03:00:00	09-Dec-19 04:00:00		27.69	0.00	0.00	5.65	2.1	329.7		9.13	0.00	0.00	1.86		10.35	18.92	83.84	86.68	09-Dec-19 03:00:00		19.48	18.92	83.84	88.54
09-Dec-19 04:00:00	09-Dec-19 05:00:00		27.70	0.00	0.00	5.65	2.1	329.7		9.13	0.00	0.00	1.86		10.35	18.92	83.84	86.68	09-Dec-19 04:00:00		19.48	18.92	83.84	88.54
09-Dec-19 05:00:00	09-Dec-19 06:00:00		25.01	0.00	0.00	5.65	2.1	329.7		8.24	0.00	0.00	1.86		10.35	18.92	83.84	86.68	09-Dec-19 05:00:00		18.59	18.92	83.84	88.54
09-Dec-19 06:00:00	09-Dec-19 07:00:00		24.48	0.00	0.00	5.64	2.1	329.7		8.07	0.00	0.00	1.86		10.35	18.92	83.84	86.68	09-Dec-19 06:00:00		18.42	18.92	83.84	88.54
09-Dec-19 07:00:00	09-Dec-19 08:00:00		24.80	0.00	0.00	5.61	2.1	329.7		8.18	0.00	0.00	1.85		10.35	18.92	83.84	86.68	09-Dec-19 07:00:00		18.53	18.92	83.84	88.53
09-Dec-19 08:00:00	09-Dec-19 09:00:00		25.12	0.00	0.00	14.18	2.1	329.7		8.28	0.00	0.00	4.67		10.35	18.92	83.84	86.68	09-Dec-19 08:00:00		18.63	18.92	83.84	91.35
09-Dec-19 09:00:00	09-Dec-19 10:00:00		25.57	0.00	0.00	5.45	2.1	329.7		8.43	0.00	0.00	1.80		10.35	18.92	83.84	86.68	09-Dec-19 09:00:00		18.78	18.92	83.84	88.48
09-Dec-19 10:00:00	09-Dec-19 11:00:00		26.35	0.00	0.00	5.35	2.1	329.7		8.69	0.00	0.00	1.76		10.35	18.92	83.84	86.68	09-Dec-19 10:00:00		19.04	18.92	83.84	88.44
09-Dec-19 11:00:00	09-Dec-19 12:00:00		27.16	0.00	0.00	8.94	2.1	329.7		8.95	0.00	0.00	2.95		10.35	18.92	83.84	86.68	09-Dec-19 11:00:00		19.30	18.92	83.84	89.63
09-Dec-19 12:00:00	09-Dec-19 13:00:00		24.10	0.00	0.00	4.98	2.1	329.7		7.95	0.00	0.00	1.64		10.35	18.92	83.84	86.68	09-Dec-19 12:00:00		18.30	18.92	83.84	88.32
09-Dec-19 13:00:00	09-Dec-19 14:00:00		19.72	0.00	0.00	4.74	2.1	329.7		6.50	0.00	0.00	1.56		10.35	18.92	83.84	86.68	09-Dec-19 13:00:00		16.85	18.92	83.84	88.24
09-Dec-19 14:00:00	09-Dec-19 15:00:00		6.00	0.00	0.00	17.85	2.1	329.7		1.98	0.00	0.00	5.88		10.35	18.92	83.84	86.68	09-Dec-19 14:00:00		12.33	18.92	83.84	92.56
09-Dec-19 15:00:00	09-Dec-19 16:00:00		19.09	0.00	0.00	4.73	2.1	329.7		6.29	0.00	0.00	1.56		10.35	18.92	83.84	86.68	09-Dec-19 15:00:00		16.64	18.92	83.84	88.24
09-Dec-19 16:00:00	09-Dec-19 17:00:00		10.14	0.00	0.00	4.95	2.1	329.7		3.34	0.00	0.00	1.63		10.35	18.92	83.84	86.68	09-Dec-19 16:00:00		13.69	18.92	83.84	88.31
09-Dec-19 17:00:00	09-Dec-19 18:00:00		0.31	0.00	0.00	6.30	2.1	329.7		0.10	0.00	0.00	2.08		10.35	18.92	83.84	86.68	09-Dec-19 17:00:00		10.45	18.92	83.84	88.76
09-Dec-19 18:00:00	09-Dec-19 19:00:00		0.57	0.00	0.00	5.08	2.1	329.7		0.19	0.00	0.00	1.68		10.35	18.92	83.84	86.68	09-Dec-19 18:00:00		10.54	18.92	83.84	88.36
09-Dec-19 19:00:00	09-Dec-19 20:00:00		1.48	0.00	0.00	5.08	2.1	329.7		0.49	0.00	0.00	1.68		10.35	18.92	83.84	86.68	09-Dec-19 19:00:00		10.84	18.92	83.84	88.36
09-Dec-19 20:00:00	09-Dec-19 21:00:00		24.90	0.00	0.00	9.07	2.1	329.7		8.21	0.00	0.00	2.99		10.35	18.92	83.84	86.68	09-Dec-19 20:00:00		18.56	18.92	83.84	89.67
09-Dec-19 21:00:00	09-Dec-19 22:00:00		33.93	0.00	0.00	5.11	2.1	329.7		11.19	0.00	0.00	1.69		10.35	18.92	83.84	86.68	09-Dec-19 21:00:00		21.54	18.92	83.84	88.37
09-Dec-19 22:00:00	09-Dec-19 23:00:00		35.10	0.00	0.00	7.13	2.1	329.7		11.57	0.00	0.00	2.35		10.35	18.92	83.84	86.68	09-Dec-19 22:00:00		21.92	18.92	83.84	89.03
09-Dec-19 23:00:00	10-Dec-19 00:00:00		31.98	0.00	0.00	5.18	2.1	329.7		10.54	0.00	0.00	1.71		10.35	18.92	83.84	86.68	09-Dec-19 23:00:00		20.89	18.92	83.84	88.39
10-Dec-19 00:00:00	10-Dec-19 01:00:00		31.84	0.00	0.00	5.10	2.1	329.7		10.50	0.00	0.00	1.68		10.35	18.92	83.84	86.68	10-Dec-19 00:00:00		20.85	18.92	83.84	88.36
10-Dec-19 01:00:00	10-Dec-19 02:00:00		35.60	0.00	0.00	5.12	2.1	329.7		11.74	0.00	0.00	1.69		10.35	18.92	83.84	86.68	10-Dec-19 01:00:00		22.09	18.92	83.84	88.37
10-Dec-19 02:00:00	10-Dec-19 03:00:00		19.54	0.00	0.00	5.13	2.1	329.7		6.44	0.00	0.00	1.69		10.35	18.92	83.84	86.68	10-Dec-19 02:00:00		16.79	18.92	83.84	88.37
10-Dec-19 03:00:00	10-Dec-19 04:00:00		18.62	0.00	0.00	5.25	2.1	329.7		6.14	0.00	0.00	1.73		10.35	18.92	83.84	86.68	10-Dec-19 03:00:00		16.49	18.92	83.84	88.41
10-Dec-19 04:00:00	10-Dec-19 05:00:00		18.29	0.00	0.00	5.21	2.1	329.7		6.03	0.00	0.00	1.72		10.35	18.92	83.84	86.68	10-Dec-19 04:00:00		16.38	18.92	83.84	88.40
10-Dec-19 05:00:00	10-Dec-19 06:00:00		13.44	0.00	0.00	5.16	2.1	329.7		4.43	0.00	0.00	1.70		10.35	18.92	83.84	86.68	10-Dec-19 05:00:00		14.78	18.92	83.84	88.38
10-Dec-19 06:00:00	10-Dec-19 07:00:00		14.23	0.00	0.00	5.11	2.1	329.7		4.69	0.00	0.00	1.68		10.35	18.92	83.84	86.68	10-Dec-19 06:00:00		15.04	18.92	83.84	88.36
10-Dec-19 07:00:00	10-Dec-19 08:00:00		15.02	0.00	0.00	8.07	2.1	329.7		4.95	0.00	0.00	2.66		10.35	18.92	83.84	86.68	10-Dec-19 07:00:00		15.30	18.92	83.84	89.34
10-Dec-19 08:00:00	10-Dec-19 09:00:00		12.94	0.00	0.00	4.57	2.1	329.7		4.27	0.00	0.00	1.51		10.35	18.92	83.84	86.68	10-Dec-19 08:00:00		14.62	18.92	83.84	88.19
10-Dec-19 09:00:00	10-Dec-19 10:00:00		12.96	0.00	0.00	4.20	2.1	329.7		4.27	0.00	0.00	1.38		10.35	18.92	83.84	86.68	10-Dec-19 09:00:00		14.62	18.92	83.84	88.06
10-Dec-19 10:00:00	10-Dec-19 11:00:00		13.25	0.00	0.00	7.12	2.1	329.7		4.37	0.00	0.00	2.35		10.35	18.92	83.84	86.68	10-Dec-19 10:00:00		14.72	18.92	83.84	89.03
10-Dec-19 11:00:00	10-Dec-19 12:00:00		11.10	0.00	0.00	3.89	2.1	329.7		3.66	0.00	0.00	1.28		10.35	18.92	83.84	86.68	10-Dec-19 11:00:00		14.01	18.92	83.84	87.96
10-Dec-19 12:00:00	10-Dec-19 13:00:00		6.34	0.00	0.00	14.28

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
12-Dec-19 14:00:00	12-Dec-19 15:00:00		0.00	0.00	0.00	5.82	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	12-Dec-19 14:00:00		**10.35**	**18.92**	**83.84**	**88.60**
12-Dec-19 15:00:00	12-Dec-19 16:00:00		0.00	0.00	0.00	5.73	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	12-Dec-19 15:00:00		**10.35**	**18.92**	**83.84**	**88.57**
12-Dec-19 16:00:00	12-Dec-19 17:00:00		0.00	0.00	0.00	5.91	2.1	329.7		0.00	0.00	0.00	1.95		10.35	18.92	83.84	86.68	12-Dec-19 16:00:00		**10.35**	**18.92**	**83.84**	**88.63**
12-Dec-19 17:00:00	12-Dec-19 18:00:00		0.00	0.00	0.00	5.67	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	12-Dec-19 17:00:00		**10.35**	**18.92**	**83.84**	**88.55**
12-Dec-19 18:00:00	12-Dec-19 19:00:00		0.00	0.00	0.00	5.70	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	12-Dec-19 18:00:00		**10.35**	**18.92**	**83.84**	**88.56**
12-Dec-19 19:00:00	12-Dec-19 20:00:00		0.54	0.00	0.00	5.72	2.1	329.7		0.18	0.00	0.00	1.89		10.35	18.92	83.84	86.68	12-Dec-19 19:00:00		**10.53**	**18.92**	**83.84**	**88.57**
12-Dec-19 20:00:00	12-Dec-19 21:00:00		1.34	0.00	0.00	5.76	2.1	329.7		0.44	0.00	0.00	1.90		10.35	18.92	83.84	86.68	12-Dec-19 20:00:00		**10.79**	**18.92**	**83.84**	**88.58**
12-Dec-19 21:00:00	12-Dec-19 22:00:00		0.00	0.00	0.00	12.22	2.1	329.7		0.00	0.00	0.00	4.03		10.35	18.92	83.84	86.68	12-Dec-19 21:00:00		**10.35**	**18.92**	**83.84**	**90.71**
12-Dec-19 22:00:00	12-Dec-19 23:00:00		0.66	0.00	0.00	20.89	2.1	329.7		0.22	0.00	0.00	6.89		10.35	18.92	83.84	86.68	12-Dec-19 22:00:00		**10.57**	**18.92**	**83.84**	**93.57**
12-Dec-19 23:00:00	13-Dec-19 00:00:00		10.20	0.00	0.00	6.07	2.1	329.7		3.36	0.00	0.00	2.00		10.35	18.92	83.84	86.68	12-Dec-19 23:00:00		**13.71**	**18.92**	**83.84**	**88.68**
13-Dec-19 00:00:00	13-Dec-19 01:00:00		3.01	0.00	0.00	9.93	2.1	329.7		0.99	0.00	0.00	3.27		10.35	18.92	83.84	86.68	13-Dec-19 00:00:00		**11.34**	**18.92**	**83.84**	**89.95**
13-Dec-19 01:00:00	13-Dec-19 02:00:00		0.25	0.00	0.00	6.22	2.1	329.7		0.08	0.00	0.00	2.05		10.35	18.92	83.84	86.68	13-Dec-19 01:00:00		**10.43**	**18.92**	**83.84**	**88.73**
13-Dec-19 02:00:00	13-Dec-19 03:00:00		0.44	0.00	0.00	6.22	2.1	329.7		0.15	0.00	0.00	2.05		10.35	18.92	83.84	86.68	13-Dec-19 02:00:00		**10.50**	**18.92**	**83.84**	**88.73**
13-Dec-19 03:00:00	13-Dec-19 04:00:00		0.95	0.00	0.00	6.23	2.1	329.7		0.31	0.00	0.00	2.05		10.35	18.92	83.84	86.68	13-Dec-19 03:00:00		**10.66**	**18.92**	**83.84**	**88.73**
13-Dec-19 04:00:00	13-Dec-19 05:00:00		1.58	0.00	0.00	6.27	2.1	329.7		0.52	0.00	0.00	2.07		10.35	18.92	83.84	86.68	13-Dec-19 04:00:00		**10.87**	**18.92**	**83.84**	**88.75**
13-Dec-19 05:00:00	13-Dec-19 06:00:00		0.00	0.00	0.00	6.47	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	13-Dec-19 05:00:00		**10.35**	**18.92**	**83.84**	**88.81**
13-Dec-19 06:00:00	13-Dec-19 07:00:00		0.00	0.00	0.00	15.81	2.1	329.7		0.00	0.00	0.00	5.21		10.35	18.92	83.84	86.68	13-Dec-19 06:00:00		**10.35**	**18.92**	**83.84**	**91.89**
13-Dec-19 07:00:00	13-Dec-19 08:00:00		0.00	0.00	0.00	6.56	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	13-Dec-19 07:00:00		**10.35**	**18.92**	**83.84**	**88.84**
13-Dec-19 08:00:00	13-Dec-19 09:00:00		0.00	0.00	0.00	84.16	2.1	329.7		0.00	0.00	0.00	27.75		10.35	18.92	83.84	86.68	13-Dec-19 08:00:00		**10.35**	**18.92**	**83.84**	**114.43**
13-Dec-19 09:00:00	13-Dec-19 10:00:00		0.00	0.00	0.00	6.60	2.1	329.7		0.00	0.00	0.00	2.18		10.35	18.92	83.84	86.68	13-Dec-19 09:00:00		**10.35**	**18.92**	**83.84**	**88.86**
13-Dec-19 10:00:00	13-Dec-19 11:00:00		0.00	0.00	0.00	6.56	2.1	329.7		0.00	0.00	0.00	2.16		10.35	18.92	83.84	86.68	13-Dec-19 10:00:00		**10.35**	**18.92**	**83.84**	**88.84**
13-Dec-19 11:00:00	13-Dec-19 12:00:00		0.00	0.00	0.00	6.51	2.1	329.7		0.00	0.00	0.00	2.15		10.35	18.92	83.84	86.68	13-Dec-19 11:00:00		**10.35**	**18.92**	**83.84**	**88.83**
13-Dec-19 12:00:00	13-Dec-19 13:00:00		0.00	0.00	0.00	6.46	2.1	329.7		0.00	0.00	0.00	2.13		10.35	18.92	83.84	86.68	13-Dec-19 12:00:00		**10.35**	**18.92**	**83.84**	**88.81**
13-Dec-19 13:00:00	13-Dec-19 14:00:00		0.00	0.00	0.00	6.37	2.1	329.7		0.00	0.00	0.00	2.10		10.35	18.92	83.84	86.68	13-Dec-19 13:00:00		**10.35**	**18.92**	**83.84**	**88.78**
13-Dec-19 14:00:00	13-Dec-19 15:00:00		0.00	0.94	0.00	16.13	2.1	329.7		0.00	0.31	0.00	5.32		10.35	18.92	83.84	86.68	13-Dec-19 14:00:00		**10.35**	**19.23**	**83.84**	**92.00**
13-Dec-19 15:00:00	13-Dec-19 16:00:00		0.00	0.00	0.00	6.00	2.1	329.7		0.00	0.00	0.00	1.98		10.35	18.92	83.84	86.68	13-Dec-19 15:00:00		**10.35**	**18.92**	**83.84**	**88.66**
13-Dec-19 16:00:00	13-Dec-19 17:00:00		0.00	0.00	0.00	5.82	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	13-Dec-19 16:00:00		**10.35**	**18.92**	**83.84**	**88.60**
13-Dec-19 17:00:00	13-Dec-19 18:00:00		0.00	0.00	0.00	119.72	2.1	329.7		0.00	0.00	0.00	39.47		10.35	18.92	83.84	86.68	13-Dec-19 17:00:00		**10.35**	**18.92**	**83.84**	**126.15**
13-Dec-19 18:00:00	13-Dec-19 19:00:00		0.00	0.00	0.00	5.85	2.1	329.7		0.00	0.00	0.00	1.93		10.35	18.92	83.84	86.68	13-Dec-19 18:00:00		**10.35**	**18.92**	**83.84**	**88.61**
13-Dec-19 19:00:00	13-Dec-19 20:00:00		0.00	0.00	0.00	5.78	2.1	329.7		0.00	0.00	0.00	1.91		10.35	18.92	83.84	86.68	13-Dec-19 19:00:00		**10.35**	**18.92**	**83.84**	**88.59**
13-Dec-19 20:00:00	13-Dec-19 21:00:00		0.00	0.00	0.00	5.72	2.1	329.7		0.00	0.00	0.00	1.89		10.35	18.92	83.84	86.68	13-Dec-19 20:00:00		**10.35**	**18.92**	**83.84**	**88.57**
13-Dec-19 21:00:00	13-Dec-19 22:00:00		0.00	0.00	0.00	5.66	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	13-Dec-19 21:00:00		**10.35**	**18.92**	**83.84**	**88.55**
13-Dec-19 22:00:00	13-Dec-19 23:00:00		0.00	0.00	0.00	5.65	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	13-Dec-19 22:00:00		**10.35**	**18.92**	**83.84**	**88.54**
13-Dec-19 23:00:00	14-Dec-19 00:00:00		0.00	0.00	0.00	26.71	2.1	329.7		0.00	0.00	0.00	8.81		10.35	18.92	83.84	86.68	13-Dec-19 23:00:00		**10.35**	**18.92**	**83.84**	**95.49**
14-Dec-19 00:00:00	14-Dec-19 01:00:00		0.00	0.00	0.00	5.81	2.1	329.7		0.00	0.00	0.00	1.92		10.35	18.92	83.84	86.68	14-Dec-19 00:00:00		**10.35**	**18.92**	**83.84**	**88.60**
14-Dec-19 01:00:00	14-Dec-19 02:00:00		0.42	0.00	0.00	5.94	2.1	329.7		0.14	0.00	0.00	1.96		10.35	18.92	83.84	86.68	14-Dec-19 01:00:00		**10.49**	**18.92**	**83.84**	**88.64**
14-Dec-19 02:00:00	14-Dec-19 03:00:00		1.11	0.00	0.00	6.07	2.1	329.7		0.37	0.00	0.00	2.00		10.35	18.92	83.84	86.68	14-Dec-19 02:00:00		**10.72**	**18.92**	**83.84**	**88.68**
14-Dec-19 03:00:00	14-Dec-19 04:00:00		1.80	0.00	0.00	5.97	2.1	329.7		0.59	0.00	0.00	1.97		10.35	18.92	83.84	86.68	14-Dec-19 03:00:00		**10.94**	**18.92**	**83.84**	**88.65**
14-Dec-19 04:00:00	14-Dec-19 05:00:00		1.64	0.00	0.00	5.82	2.1	329.7		0.54	0.00	0.00	1.92		10.35	18.92	83.84	86.68	14-Dec-19 04:00:00		**10.89**	**18.92**	**83.84**	**88.60**
14-Dec-19 05:00:00	14-Dec-19 06:00:00		0.81	0.00	0.00	5.72	2.1	329.7		0.27	0.00	0.00	1.88		10.35	18.92	83.84	86.68	14-Dec-19 05:00:00		**10.62**	**18.92**	**83.84**	**88.56**
14-Dec-19 06:00:00	14-Dec-19 07:00:00		1.28	0.00	0.00	5.61	2.1	329.7		0.42	0.00	0.00	1.85		10.35	18.92	83.84	86.68	14-Dec-19 06:00:00		**10.77**	**18.92**	**83.84**	**88.53**
14-Dec-19 07:00:00	14-Dec-19 08:00:00		0.72	0.00	0.00	10.78	2.1	329.7		0.24	0.00	0.00	3.55		10.35	18.92	83.84	86.68	14-Dec-19 07:00:00		**10.59**	**18.92**	**83.84**	**90.23**
14-Dec-19 08:00:00	14-Dec-19 09:00:00		1.24	0.00	0.00	5.62	2.1	329.7		0.41	0.00	0.00	1.85		10.35	18.92	83.84	86.68	14-Dec-19 08:00:00		**10.76**	**18.92**	**83.84**	**88.53**
14-Dec-19 09:00:00	14-Dec-19 10:00:00		0.00	0.00	0.00	5.63	2.1	329.7		0.00	0.00	0.00	1.86		10.35	18.92	83.84	86.68	14-Dec-19 09:00:00		**10.35**	**18.92**	**83.84**	**88.54**
14-Dec-19 10:00:00	14-Dec-19 11:00:00		4.38	0.00	0.00	5.77	2.1	329.7		1.44	0.00	0.00	1.90		10.35	18.92	83.84	86.68	14-Dec-19 10:00:00		**11.79**	**18.92**	**83.84**	**88.58**
14-Dec-19 11:00:00	14-Dec-19 12:00:00		17.65	0.00	0.00	5.44	2.1	329.7		5.82	0.00	0.00	1.79		10.35	18.92	83.84	86.68	14-Dec-19 11:00:00		**16.17**	**18.92**	**83.84**	**88.47**
14-Dec-19 12:00:00	14-Dec-19 13:00:00		12.83	0.00	0.00	14.40	2.1	329.7		4.23	0.00	0.00	4.75		10.35	18.92	83.84	86.68	14-Dec-19 12:00:00		**14.58**	**18.92**	**83.84**	**91.43**
14-Dec-19 13:00:00	14-Dec-19 14:00:00		5.36	0.00	0.00	5.27	2.1	329.7		1.77	0.00	0.00	1.74		10.35	18.92	83.84	86.68	14-Dec-19 13:00:00		**12.12**	**18.92**	**83.84**	**88.42**
14-Dec-19 14:00:00	14-Dec-19 15:00:00		9.89	0.00	0.00	5.03	2.1	329.7		3.26	0.00	0.00	1.66		10.35	18.92	83.84	86.68	14-Dec-19 14:00:00		**13.61**	**18.92**	**83.84**	**88.34**
14-Dec-19 15:00:00	14-Dec-19 16:00:00		31.37	0.00	0.00	25.66	2.1	329.7		10.34	0.00	0.00	8.46		10.35	18.92	83.84	86.68	14-Dec-19 15:00:00		**20.69**	**18.92**	**83.84**	**95.14**
14-Dec-19 16:00:00	14-Dec-19 17:00:00		5.26	0.00	0.00	5.08	2.1	329.7		1.73	0.00	0.00	1.67		10.35	18.92	83.84	86.68	14-Dec-19 16:00:00		**12.08**	**18.92**	**83.84**	**88.35**
14-Dec-19 17:00:00	14-Dec-19 18:00:00		7.08	0.00	0.00	5.07	2.1	329.7		2.33	0.00	0.00	1.67		10.35	18.92	83.84	86.68	14-Dec-19 17:00:00		**12.68**	**18.92**	**83.84**	**88.35**
14-Dec-19 18:00:00	14-Dec-19 19:00:00		9.89	0.00	0.00	115.00	2.1	329.7		3.26	0.00	0.00	37.92		10.35	18.92	83.84	86.68	14-Dec-19 18:00:00		**13.61**	**18.92**	**83.84**	**124.60**
14-Dec-19 19:00:00	14-Dec-19 20:00:00		26.21	0.00	0.00	5.09	2.1	329.7		8.64	0.00	0.00	1.68		10.35	18.92	83.84	86.68	14-Dec-19 19:00:00		**18.99**	**18.92**	**83.84**	**88.36**
14-Dec-19 20:00:00	14-Dec-19 21:00:00		16.03	0.00	0.00	5.09	2.1	329.7		5.28	0.00	0.00	1.68		10.35	18.92	83.84	86.68	14-Dec-19 20:00:00		**15.63**	**18.92**	**83.84**	**88.36**
14-Dec-19 21:00:00	14-Dec-19 22:00:00		10.69	0.00	0.00	13.13	2.1	329.7		3.53	0.00	0.00	4.33		10.35	18.92	83.84	86.68	14-Dec-19 21:00:00		**13.88**	**18.92**	**83.84**	**91.01**
14-Dec-19 22:00:00	14-Dec-19 23:00:00		13.04	0.00	0.00	5.25	2.1	329.7		4.30	0.00	0.00	1.73		10.35	18.92	83.84	86.68	14-Dec-19 22:00:00		**14.65**	**18.92**	**83.84**	**88.41**
14-Dec-19 23:00:00	15-Dec-19 00:00:00		0.10	0.00	0.00	5.47	2.1	329.7		0.03	0.00	0.00	1.80		10.35	18.92	83.84	86.68	14-Dec-19 23:00:00		**10.38**	**18.92**	**83.84**	**88.48**
15-Dec-19 00:00:00	15-Dec-19 01:00:00		16.80	0.00	0.00	5.55	2.1	329.7		5.54	0.00	0.00	1.83		10.35	18.92	83.84	86.68	15-Dec-19 00:00:00		**15.89**	**18.92**	**83.84**	**88.51**
15-Dec-19 01:00:00	15-Dec-19 02:00:00		30.25	0.00	0.00	5.69	2.1	329.7		9.97	0.00	0.00	1.88		10.35	18.92	83.84	86.68	15-Dec-19 01:00:00		**20.32**	**18.92**	**83.84**	**88.56**
15-Dec-19 02:00:00	15-Dec-19 03:00:00		40.99	0.00	0.00	5.83	2.1	329.7		13.52	0.00	0.00	1.92		10.35	18.92	83.84	86.68	15-Dec-19 02:00:00		**23.87**	**18.92**	**83.84**	**88.60**
15-Dec-19 03:00:00	15-Dec-19 04:00:00		48.46	0.00	0.00	5.96	2.1	329.7		15.98	0.00	0.00	1.97		10.35	18.92	83.84	86.68	15-Dec-19 03:00:00		**26.33**	**18.92**	**83.84**	**88.65**
15-Dec-19 04:00:00	15-Dec-19 05:00:00		49.00	0.00	0.00	5.88	2.1	329.7		16.16	0.00	0.00	1.94		10.35	18.92	83.84	86.68	15-Dec-19 04:00:00		**26.51**	**18.92**	**83.84**	**88.62**
15-Dec-19 05:00:00	15-Dec-19 06:00:00		39.93	0.00	0.00	6.03	2.1	329.7		13.16	0.00	0.00	1.99		10.35	18.92	83.84	86.68	15-Dec-19 05:00:00		**23.51**	**18.92**	**83.84**	**88.67**
15-Dec-19 06:00:00	15-Dec-19 07:00:00		31.46	0.00	0.00	5.72	2.1	329.7		10.37	0.00	0.00	1.89		10.35	18.92	83.84	86.68	15-Dec-19 06:00:00		**20.72**	**18.92**	**83.84**	**88.57**
15-Dec-19 07:00:00	15-Dec-19 08:00:00		1.60	0.00	0.00	189.09	2.1	329.7		0.53	0.00	0.00	62.34		10.35	18.92	83.84	86.68	15-Dec-19 07:00:00		**10.88**	**18.92**	**83.84**	**149.02**
15-Dec-19 08:00:00	15-Dec-19 09:00:00		0.36	0.00	0.00	5.93	2.1	329.7		0.12	0.00	0.00	1.96		10.35	18.92	83.84	86.68	15-Dec-19 08:00:00		**10.47**	**18.92**	**83.84**	**88.64**
15-Dec-19 09:00:00	15-Dec-19 10:00:00		0.73	0.00	0.00	5.63	2.1	329.7		0.24	0.00	0.00	1.86		10.35	18.92	83.84	86.68	15-Dec-19 09:00:00		**10.59**	**18.92**	**83.84**	**88.54**
15-Dec-19 10:00:00	15-Dec-19 11:00:00		0.95	0.00	0.00	5.33	2.1	329.7		0.31	0.00	0.00	1.76		10.35	18.92	83.84	86.68	15-Dec-19 10:00:00		**10.66**	**18.92**	**83.84**	**88.44**
15-Dec-19 11:00:00	15-Dec-19 12:00:00		7.74	0.00	0.00	63.55	2.1	329.7		2.55	0.00	0.00	20.95		10.35	18.92	83.84	86.68	15-Dec-19 11:00:00		**12.90**	**18.92**	**83.84**	**107.63**
15-Dec-19 12:00:00	15-Dec-19 13:00:00		6.88	0.00	0.00	163.60	2.1	329.7		2.27	0.00	0.00	53.94		10.35	18.92	83.84	86.68	15-Dec-19 12:00:00		**12.62**	**18.92**	**83.84**	**140.62**
15-Dec-19 13:00:00	15-Dec-19 14:00:00		9.24	0.00	0.00	11.50	2.1	329.7		3.05	0.00	0.00	3.79		10.35	18.92	83.84	86.68	15-Dec-19 13:00:00		**13.40**	**18.92**	**83.84**	**90.47**
15-Dec-19 14:00:00	15-Dec-19 15:00:00		9.15	0.00	0.00	4.53	2.1	329.7		3.02	0.00	0.00	1.49		10.35	18.92	83.84	86.68	15-Dec-19 14:00:00		**13.37**	**18.92**	**83.84**	**88.17**
15-Dec-19 15:00:00	15-Dec-19 16:00:00		17.59	0.00	0.00	4.49	2.1	329.7		5.80	0.00	0.00	1.48		10.35	18.92	83.84	86.68	15-Dec-19 15:00:00		**16.15**	**18.92**	**83.84**	**88.16**
15-Dec-19 16:00:00	15-Dec-19 17:00:00		16.82	0.00	0.00	4.45	2.1	329.7		5.54	0.00	0.00	1.47		10.35	18.92	83.84	86.68	15-Dec-19 16:00:00		**15.89**	**18.92**	**83.84**	**88.15**
15-Dec-19 17:00:00	15-Dec-19 18:00:00		8.14	0.00	0.00	4.42	2.1	329.7		2.69	0.00	0.00	1.46		10.35	18.92	83.84	86.68	15-Dec-19 17:00:00		**13.04**	**18.92**	**83.84**	**88.14**
15-Dec-19 18:00:00	15-Dec-19 19:00:00		15.50	0.00	0.00	120.64	2.1	329.7		5.11	0.00	0.00	39.78		10.35	18.92	83.84	86.68	15-Dec-19 18:00:00		**15.46**	**18.92**	**83.84**	**126.46**
15-Dec-19 19:00:00	15-Dec-19 20:00:00		15.83	0.00	0.00	4.99	2.1	329.7		5.22	0.00	0.00	1.65		10.35	18.92	83.84	86.68	15-Dec-19 19:00:00		**15.57**	**18.92**	**83.84**	**88.33**
15-Dec-19 20:00:00	15-Dec-19 21:00:00		16.17	0.00	0.00	5.04	2.1	329.7		5.33	0.00	0.00	1.66		10.35	18.92	83.84	86.68	15-Dec-19 20:00:00		**15.68**	**18.92**	**83.84**	**88.34**
15-Dec-19 21:00:00	15-Dec-19 22:00:00		14.08	0.00	0.00	6.36	2.1	329.7		4.64	0.00	0.00	2.10		10.35	18.92	83.84	86.68	15-Dec-19 21:00:00		**14.99**	**18.92**	**83.84**	**88.78**
15-Dec-19 22:00:00	15-Dec-19 23:00:00		11.64	0.00	0.00	6.37	2.1	329.7		3.84	0.00	0.00	2.10		10.35	18.92	83.84	86.68	15-Dec-19 22:00:00		**14.19**	**18.92**	**83.84**	**88.78**
15-Dec-19 23:00:00	16-Dec-19 00:00:00		2.54	0.00	0.00	8.31	2.1	329.7		0.84	0.00	0.00	2.74		10.35	18.92	83.84	86.68	15-Dec-19 23:00:00		**11.19**	**18.92**	**83.84**	**89.42**
16-Dec-19 00:00:00	16-Dec-19 01:00:00		14.56	0.00	0.00	5.56	2.1	329.7		4.80	0.00	0.00	1.83		10.35	18.92	83.84	86.68	16-Dec-19 00:00:00		**15.15**	**18.92**	**83.84**	**88.51**
16-Dec-19 01:00:00	16-Dec-19 02:00:00		15.49	0.00	0.00	5.68	2.1	329.7		5.11	0.00	0.00	1.87		10.35	18.92	83.84	86.68	16-Dec-19 01:00:00		**15.46**	**18.92**	**83.84**	**88.55**
16-Dec-19 02:00:00	16-Dec-19 03:00:00		15.84	0.00	0.00	5.62	2.1	329.7		5.22	0.00	0.00	1.85		10.35	18.92	83.84	86.68	16-Dec-19 02:00:00		**15.57**	**18.92**	**83.84**	**88.53**
16-Dec-19 03:00:00	16-Dec-19 04:00:00		16.19	0.00	0.00	25.92	2.1	329.7		5.34	0.00	0.00	8.55		10.35	18.92	83.84	86.68	16-Dec-19 03:00:00		**15.69**	**18.92**	**83.84**	**95.23**
16-Dec-19 04:00:00	16-Dec-19 05:00:00		16.69	0.00	0.00	5.53	2.1	329.7		5.50	0.00	0.00	1.82		10.35	18.92	83.84	86.68	16-Dec-19 04:00:00		**15.85**	**18.92**	**83.84**	**88.50**
16-Dec-19 05:00:00	16-Dec-19 06:00:00		17.54	0.00	0.00	123.85	2.1	329.7		5.78	0.00	0.00	40.83		10.35	18.92	83.84	86.68	16-Dec-19 05:00:00		**16.13**	**18.92**	**83.84**	**127.51**
16-Dec-19 06:00:00	16-Dec-19 07:00:00		18.40	0.00	0.00	5.14	2.1	329.7		6.07	0.00	0.00	1.70		10.35	18.92	83.84	86.68	16-Dec-19 06:00:00		**16.42**	**18.92**	**83.84**	**88.38**
16-Dec-19 07:00:00	16-Dec-19 08:00:00		19.26	0.00	0.00	12.15	2.1	329.7		6.35	0.00	0.00	4.00		10.35	18.92	83.84	86.68	16-Dec-19 07:00:00		**16.70**	**18.92**	**83.84**	**90.68**
16-Dec-19 08:00:00	16-Dec-19 09:00:00		20.11	0.00	0.00	5.04	2.1	329.7		6.63	0.00	0.00	1.66		10.35	18.92	83.84	86.68	16-Dec-19 08:00:00		**16.98**	**18.92**	**83.84**	**88.34**
16-Dec-19 09:00:00	16-Dec-19 10:00:00		21.89	0.00	0.00	67.09	2.1	329.7		7.22	0.00	0.00	22.12		10.35	18.92	83.84	86.68	16-Dec-19 09:00:00		**17.57**	**18.92**	**83.84**	**108.80**
16-Dec-19 10:00:00	16-Dec-19 11:00:00		11.49	0.00	0.00	4.88	2.1	329.7		3.79	0.00	0.00	1.61		10.35	18.92	83.84	86.68	16-Dec-19 10:00:00		**14.14**	**18.92**	**83.84**	**88.29**
16-Dec-19 11:00:00	16-Dec-19 12:00:00		16.85	0.00	0.00	6.21

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
18-Dec-19 13:00:00	18-Dec-19 14:00:00		630.52	0.00	0.00	5.80	2.1	329.7		207.88	0.00	0.00	1.91		10.35	18.92	83.84	86.68	18-Dec-19 13:00:00		218.23	18.92	83.84	88.59
18-Dec-19 14:00:00	18-Dec-19 15:00:00		805.51	0.00	0.00	5.90	2.1	329.7		265.58	0.00	0.00	1.95		10.35	18.92	83.84	86.68	18-Dec-19 14:00:00		275.93	18.92	83.84	88.63
18-Dec-19 15:00:00	18-Dec-19 16:00:00		1,043.11	0.00	0.00	6.00	2.1	329.7		343.91	0.00	0.00	1.98		10.35	18.92	83.84	86.68	18-Dec-19 15:00:00		354.26	18.92	83.84	88.66
18-Dec-19 16:00:00	18-Dec-19 17:00:00		1,118.07	0.00	0.00	6.03	2.1	329.7		368.63	0.00	0.00	1.99		10.35	18.92	83.84	86.68	18-Dec-19 16:00:00		378.98	18.92	83.84	88.67
18-Dec-19 17:00:00	18-Dec-19 18:00:00		1,329.38	0.00	0.00	5.98	2.1	329.7		438.30	0.00	0.00	1.97		10.35	18.92	83.84	86.68	18-Dec-19 17:00:00		448.65	18.92	83.84	88.65
18-Dec-19 18:00:00	18-Dec-19 19:00:00		1,268.49	0.00	0.00	5.92	2.1	329.7		418.22	0.00	0.00	1.95		10.35	18.92	83.84	86.68	18-Dec-19 18:00:00		428.57	18.92	83.84	88.63
18-Dec-19 19:00:00	18-Dec-19 20:00:00		555.11	0.00	0.00	5.87	2.1	329.7		183.02	0.00	0.00	1.93		10.35	18.92	83.84	86.68	18-Dec-19 19:00:00		193.37	18.92	83.84	88.61
18-Dec-19 20:00:00	18-Dec-19 21:00:00		0.00	0.00	0.00	5.97	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	18-Dec-19 20:00:00		10.35	18.92	83.84	88.65
18-Dec-19 21:00:00	18-Dec-19 22:00:00		0.00	0.00	0.00	72.15	2.1	329.7		0.00	0.00	0.00	23.79		10.35	18.92	83.84	86.68	18-Dec-19 21:00:00		10.35	18.92	83.84	110.47
18-Dec-19 22:00:00	18-Dec-19 23:00:00		0.00	0.00	0.00	6.40	2.1	329.7		0.00	0.00	0.00	2.11		10.35	18.92	83.84	86.68	18-Dec-19 22:00:00		10.35	18.92	83.84	88.79
18-Dec-19 23:00:00	19-Dec-19 00:00:00		0.00	0.00	0.00	6.58	2.1	329.7		0.00	0.00	0.00	2.17		10.35	18.92	83.84	86.68	18-Dec-19 23:00:00		10.35	18.92	83.84	88.85
19-Dec-19 00:00:00	19-Dec-19 01:00:00		0.00	0.00	0.00	24.85	2.1	329.7		0.00	0.00	0.00	8.19		10.35	18.92	83.84	86.68	19-Dec-19 00:00:00		10.35	18.92	83.84	94.87
19-Dec-19 01:00:00	19-Dec-19 02:00:00		0.00	0.00	0.00	6.80	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	19-Dec-19 01:00:00		10.35	18.92	83.84	88.92
19-Dec-19 02:00:00	19-Dec-19 03:00:00		0.00	0.00	0.00	6.78	2.1	329.7		0.00	0.00	0.00	2.24		10.35	18.92	83.84	86.68	19-Dec-19 02:00:00		10.35	18.92	83.84	88.92
19-Dec-19 03:00:00	19-Dec-19 04:00:00		0.00	0.00	0.00	17.78	2.1	329.7		0.00	0.00	0.00	5.86		10.35	18.92	83.84	86.68	19-Dec-19 03:00:00		10.35	18.92	83.84	92.54
19-Dec-19 04:00:00	19-Dec-19 05:00:00		0.00	0.00	0.00	6.95	2.1	329.7		0.00	0.00	0.00	2.29		10.35	18.92	83.84	86.68	19-Dec-19 04:00:00		10.35	18.92	83.84	88.97
19-Dec-19 05:00:00	19-Dec-19 06:00:00		0.00	0.00	0.00	7.15	2.1	329.7		0.00	0.00	0.00	2.36		10.35	18.92	83.84	86.68	19-Dec-19 05:00:00		10.35	18.92	83.84	89.04
19-Dec-19 06:00:00	19-Dec-19 07:00:00		0.00	0.00	0.00	15.84	2.1	329.7		0.00	0.00	0.00	5.22		10.35	18.92	83.84	86.68	19-Dec-19 06:00:00		10.35	18.92	83.84	91.90
19-Dec-19 07:00:00	19-Dec-19 08:00:00		107.74	0.00	0.00	6.78	2.1	329.7		35.52	0.00	0.00	2.23		10.35	18.92	83.84	86.68	19-Dec-19 07:00:00		45.87	18.92	83.84	88.91
19-Dec-19 08:00:00	19-Dec-19 09:00:00		98.69	0.00	0.00	6.78	2.1	329.7		32.54	0.00	0.00	2.23		10.35	18.92	83.84	86.68	19-Dec-19 08:00:00		42.89	18.92	83.84	88.91
19-Dec-19 09:00:00	19-Dec-19 10:00:00		90.79	0.00	0.00	6.78	2.1	329.7		29.93	0.00	0.00	2.23		10.35	18.92	83.84	86.68	19-Dec-19 09:00:00		40.28	18.92	83.84	88.91
19-Dec-19 10:00:00	19-Dec-19 11:00:00		70.89	0.00	0.00	6.74	2.1	329.7		23.37	0.00	0.00	2.22		10.35	18.92	83.84	86.68	19-Dec-19 10:00:00		33.72	18.92	83.84	88.90
19-Dec-19 11:00:00	19-Dec-19 12:00:00		58.13	0.00	0.00	6.50	2.1	329.7		19.17	0.00	0.00	2.14		10.35	18.92	83.84	86.68	19-Dec-19 11:00:00		29.52	18.92	83.84	88.82
19-Dec-19 12:00:00	19-Dec-19 13:00:00		75.92	0.00	0.00	6.21	2.1	329.7		25.03	0.00	0.00	2.05		10.35	18.92	83.84	86.68	19-Dec-19 12:00:00		35.38	18.92	83.84	88.73
19-Dec-19 13:00:00	19-Dec-19 14:00:00		12.04	0.00	0.00	5.92	2.1	329.7		3.97	0.00	0.00	1.95		10.35	18.92	83.84	86.68	19-Dec-19 13:00:00		14.32	18.92	83.84	88.63
19-Dec-19 14:00:00	19-Dec-19 15:00:00		0.06	0.00	0.00	7.23	2.1	329.7		0.02	0.00	0.00	2.38		10.35	18.92	83.84	86.68	19-Dec-19 14:00:00		10.37	18.92	83.84	89.06
19-Dec-19 15:00:00	19-Dec-19 16:00:00		0.00	0.00	0.00	5.67	2.1	329.7		0.00	0.00	0.00	1.87		10.35	18.92	83.84	86.68	19-Dec-19 15:00:00		10.35	18.92	83.84	88.55
19-Dec-19 16:00:00	19-Dec-19 17:00:00		0.00	0.00	0.00	5.69	2.1	329.7		0.00	0.00	0.00	1.88		10.35	18.92	83.84	86.68	19-Dec-19 16:00:00		10.35	18.92	83.84	88.56
19-Dec-19 17:00:00	19-Dec-19 18:00:00		0.00	0.00	0.00	12.79	2.1	329.7		0.00	0.00	0.00	4.22		10.35	18.92	83.84	86.68	19-Dec-19 17:00:00		10.35	18.92	83.84	90.90
19-Dec-19 18:00:00	19-Dec-19 19:00:00		0.04	0.00	0.00	6.19	2.1	329.7		0.01	0.00	0.00	2.04		10.35	18.92	83.84	86.68	19-Dec-19 18:00:00		10.36	18.92	83.84	88.72
19-Dec-19 19:00:00	19-Dec-19 20:00:00		0.13	0.00	0.00	6.22	2.1	329.7		0.04	0.00	0.00	2.05		10.35	18.92	83.84	86.68	19-Dec-19 19:00:00		10.39	18.92	83.84	88.73
19-Dec-19 20:00:00	19-Dec-19 21:00:00		0.22	0.00	0.00	8.07	2.1	329.7		0.07	0.00	0.00	2.66		10.35	18.92	83.84	86.68	19-Dec-19 20:00:00		10.42	18.92	83.84	89.34
19-Dec-19 21:00:00	19-Dec-19 22:00:00		7.97	0.00	0.00	6.45	2.1	329.7		2.63	0.00	0.00	2.13		10.35	18.92	83.84	86.68	19-Dec-19 21:00:00		12.98	18.92	83.84	88.81
19-Dec-19 22:00:00	19-Dec-19 23:00:00		3.80	0.00	0.00	8.34	2.1	329.7		1.25	0.00	0.00	2.75		10.35	18.92	83.84	86.68	19-Dec-19 22:00:00		11.60	18.92	83.84	89.43
19-Dec-19 23:00:00	20-Dec-19 00:00:00		2.21	0.00	0.00	6.81	2.1	329.7		0.73	0.00	0.00	2.24		10.35	18.92	83.84	86.68	19-Dec-19 23:00:00		11.08	18.92	83.84	88.92
20-Dec-19 00:00:00	20-Dec-19 01:00:00		1.66	0.00	0.00	6.79	2.1	329.7		0.55	0.00	0.00	2.24		10.35	18.92	83.84	86.68	20-Dec-19 00:00:00		10.90	18.92	83.84	88.92
20-Dec-19 01:00:00	20-Dec-19 02:00:00		1.92	0.00	7.74	48.44	2.1	329.7		0.63	0.00	2.55	15.97		10.35	18.92	83.84	86.68	20-Dec-19 01:00:00		10.98	18.92	86.39	102.65
20-Dec-19 02:00:00	20-Dec-19 03:00:00		1.44	0.00	0.00	6.90	2.1	329.7		0.48	0.00	0.00	2.28		10.35	18.92	83.84	86.68	20-Dec-19 02:00:00		10.83	18.92	83.84	88.96
20-Dec-19 03:00:00	20-Dec-19 04:00:00		2.11	0.00	0.00	7.97	2.1	329.7		0.70	0.00	0.00	2.63		10.35	18.92	83.84	86.68	20-Dec-19 03:00:00		11.05	18.92	83.84	89.31
20-Dec-19 04:00:00	20-Dec-19 05:00:00		7.08	0.00	0.00	6.99	2.1	329.7		2.33	0.00	0.00	2.30		10.35	18.92	83.84	86.68	20-Dec-19 04:00:00		12.68	18.92	83.84	88.98
20-Dec-19 05:00:00	20-Dec-19 06:00:00		12.07	0.00	0.00	7.18	2.1	329.7		3.98	0.00	0.00	2.37		10.35	18.92	83.84	86.68	20-Dec-19 05:00:00		14.33	18.92	83.84	89.05
20-Dec-19 06:00:00	20-Dec-19 07:00:00		13.72	0.00	0.00	18.24	2.1	329.7		4.52	0.00	0.00	6.01		10.35	18.92	83.84	86.68	20-Dec-19 06:00:00		14.87	18.92	83.84	92.69
20-Dec-19 07:00:00	20-Dec-19 08:00:00		13.65	0.00	0.00	6.86	2.1	329.7		4.50	0.00	0.00	2.26		10.35	18.92	83.84	86.68	20-Dec-19 07:00:00		14.85	18.92	83.84	88.94
20-Dec-19 08:00:00	20-Dec-19 09:00:00		13.59	0.00	0.00	6.81	2.1	329.7		4.48	0.00	0.00	2.25		10.35	18.92	83.84	86.68	20-Dec-19 08:00:00		14.83	18.92	83.84	88.93
20-Dec-19 09:00:00	20-Dec-19 10:00:00		13.45	0.00	0.00	116.65	2.1	329.7		4.44	0.00	0.00	38.46		10.35	18.92	83.84	86.68	20-Dec-19 09:00:00		14.79	18.92	83.84	125.14
20-Dec-19 10:00:00	20-Dec-19 11:00:00		3.05	0.00	0.00	6.26	2.1	329.7		1.00	0.00	0.00	2.06		10.35	18.92	83.84	86.68	20-Dec-19 10:00:00		11.35	18.92	83.84	88.74
20-Dec-19 11:00:00	20-Dec-19 12:00:00		3.34	0.00	0.00	144.29	2.1	329.7		1.10	0.00	0.00	47.57		10.35	18.92	83.84	86.68	20-Dec-19 11:00:00		11.45	18.92	83.84	134.25
20-Dec-19 12:00:00	20-Dec-19 13:00:00		5.13	0.00	0.00	5.42	2.1	329.7		1.69	0.00	0.00	1.79		10.35	18.92	83.84	86.68	20-Dec-19 12:00:00		12.04	18.92	83.84	88.47
20-Dec-19 13:00:00	20-Dec-19 14:00:00		29.11	0.00	0.00	5.16	2.1	329.7		9.60	0.00	0.00	1.70		10.35	18.92	83.84	86.68	20-Dec-19 13:00:00		19.95	18.92	83.84	88.38
20-Dec-19 14:00:00	20-Dec-19 15:00:00		56.14	0.00	0.00	4.90	2.1	329.7		18.51	0.00	0.00	1.61		10.35	18.92	83.84	86.68	20-Dec-19 14:00:00		28.86	18.92	83.84	88.29
20-Dec-19 15:00:00	20-Dec-19 16:00:00		52.44	0.00	0.00	4.64	2.1	329.7		17.29	0.00	0.00	1.53		10.35	18.92	83.84	86.68	20-Dec-19 15:00:00		27.64	18.92	83.84	88.21
20-Dec-19 16:00:00	20-Dec-19 17:00:00		69.92	0.00	0.00	21.27	2.1	329.7		23.05	0.00	0.00	7.01		10.35	18.92	83.84	86.68	20-Dec-19 16:00:00		33.40	18.92	83.84	93.69
20-Dec-19 17:00:00	20-Dec-19 18:00:00		84.44	0.00	0.00	4.88	2.1	329.7		27.84	0.00	0.00	1.61		10.35	18.92	83.84	86.68	20-Dec-19 17:00:00		38.19	18.92	83.84	88.29
20-Dec-19 18:00:00	20-Dec-19 19:00:00		85.39	0.00	0.00	5.26	2.1	329.7		28.15	0.00	0.00	1.74		10.35	18.92	83.84	86.68	20-Dec-19 18:00:00		38.50	18.92	83.84	88.42
20-Dec-19 19:00:00	20-Dec-19 20:00:00		60.21	0.00	0.00	133.86	2.1	329.7		19.85	0.00	0.00	44.13		10.35	18.92	83.84	86.68	20-Dec-19 19:00:00		30.20	18.92	83.84	130.81
20-Dec-19 20:00:00	20-Dec-19 21:00:00		40.93	0.00	0.00	5.74	2.1	329.7		13.49	0.00	0.00	1.89		10.35	18.92	83.84	86.68	20-Dec-19 20:00:00		23.84	18.92	83.84	88.57
20-Dec-19 21:00:00	20-Dec-19 22:00:00		58.33	0.00	0.00	5.85	2.1	329.7		19.23	0.00	0.00	1.93		10.35	18.92	83.84	86.68	20-Dec-19 21:00:00		29.58	18.92	83.84	88.61
20-Dec-19 22:00:00	20-Dec-19 23:00:00		58.31	0.00	0.00	5.95	2.1	329.7		19.23	0.00	0.00	1.96		10.35	18.92	83.84	86.68	20-Dec-19 22:00:00		29.58	18.92	83.84	88.64
20-Dec-19 23:00:00	21-Dec-19 00:00:00		62.65	0.00	0.00	6.05	2.1	329.7		20.66	0.00	0.00	1.99		10.35	18.92	83.84	86.68	20-Dec-19 23:00:00		31.01	18.92	83.84	88.67
21-Dec-19 00:00:00	21-Dec-19 01:00:00		61.99	0.00	0.00	6.06	2.1	329.7		20.44	0.00	0.00	2.00		10.35	18.92	83.84	86.68	21-Dec-19 00:00:00		30.79	18.92	83.84	88.68
21-Dec-19 01:00:00	21-Dec-19 02:00:00		61.33	0.00	0.00	6.03	2.1	329.7		20.22	0.00	0.00	1.99		10.35	18.92	83.84	86.68	21-Dec-19 01:00:00		30.57	18.92	83.84	88.67
21-Dec-19 02:00:00	21-Dec-19 03:00:00		22.69	0.00	0.00	6.01	2.1	329.7		7.48	0.00	0.00	1.98		10.35	18.92	83.84	86.68	21-Dec-19 02:00:00		17.83	18.92	83.84	88.66
21-Dec-19 03:00:00	21-Dec-19 04:00:00		66.86	0.00	0.00	6.02	2.1	329.7		22.04	0.00	0.00	1.99		10.35	18.92	83.84	86.68	21-Dec-19 03:00:00		32.39	18.92	83.84	88.67
21-Dec-19 04:00:00	21-Dec-19 05:00:00		82.80	0.00	0.00	6.08	2.1	329.7		27.30	0.00	0.00	2.01		10.35	18.92	83.84	86.68	21-Dec-19 04:00:00		37.65	18.92	83.84	88.69
21-Dec-19 05:00:00	21-Dec-19 06:00:00		11.39	0.00	0.00	6.10	2.1	329.7		3.75	0.00	0.00	2.01		10.35	18.92	83.84	86.68	21-Dec-19 05:00:00		14.10	18.92	83.84	88.69
21-Dec-19 06:00:00	21-Dec-19 07:00:00		1.20	0.00	0.00	6.12	2.1	329.7		0.39	0.00	0.00	2.02		10.35	18.92	83.84	86.68	21-Dec-19 06:00:00		10.74	18.92	83.84	88.70
21-Dec-19 07:00:00	21-Dec-19 08:00:00		0.77	0.00	0.00	6.14	2.1	329.7		0.25	0.00	0.00	2.03		10.35	18.92	83.84	86.68	21-Dec-19 07:00:00		10.60	18.92	83.84	88.71
21-Dec-19 08:00:00	21-Dec-19 09:00:00		0.35	0.00	0.00	6.18	2.1	329.7		0.11	0.00	0.00	2.04		10.35	18.92	83.84	86.68	21-Dec-19 08:00:00		10.46	18.92	83.84	88.72
21-Dec-19 09:00:00	21-Dec-19 10:00:00		0.02	0.00	0.00	99.48	2.1	329.7		0.01	0.00	0.00	32.80		10.35	18.92	83.84	86.68	21-Dec-19 09:00:00		10.36	18.92	83.84	119.48
21-Dec-19 10:00:00	21-Dec-19 11:00:00		0.00	0.00	0.00	6.03	2.1	329.7		0.00	0.00	0.00	1.99		10.35	18.92	83.84	86.68	21-Dec-19 10:00:00		10.35	18.92	83.84	88.67
21-Dec-19 11:00:00	21-Dec-19 12:00:00		0.00	0.00	0.00	5.89	2.1	329.7		0.00	0.00	0.00	1.94		10.35	18.92	83.84	86.68	21-Dec-19 11:00:00		10.35	18.92	83.84	88.62
21-Dec-19 12:00:00	21-Dec-19 13:00:00		0.00	0.00	0.00	5.75	2.1	329.7		0.00	0.00	0.00	1.90		10.35	18.92	83.84	86.68	21-Dec-19 12:00:00		10.35	18.92	83.84	88.58
21-Dec-19 13:00:00	21-Dec-19 14:00:00		0.36	0.00	0.00	5.57	2.1	329.7		0.12	0.00	0.00	1.84		10.35	18.92	83.84	86.68	21-Dec-19 13:00:00		10.47	18.92	83.84	88.52
21-Dec-19 14:00:00	21-Dec-19 15:00:00		3.47	0.00	0.00	10.09	2.1	329.7		1.14	0.00	0.00	3.33		10.35	18.92	83.84	86.68	21-Dec-19 14:00:00		11.49	18.92	83.84	90.01
21-Dec-19 15:00:00	21-Dec-19 16:00:00		65.51	0.00	0.00	5.29	2.1	329.7		21.60	0.00	0.00	1.74		10.35	18.92	83.84	86.68	21-Dec-19 15:00:00		31.95	18.92	83.84	88.42
21-Dec-19 16:00:00	21-Dec-19 17:00:00		66.57	0.00	0.00	5.16	2.1	329.7		21.95	0.00	0.00	1.70		10.35	18.92	83.84	86.68	21-Dec-19 16:00:00		32.30	18.92	83.84	88.38
21-Dec-19 17:00:00	21-Dec-19 18:00:00		65.53	0.00	0.00	115.65	2.1	329.7		21.61	0.00	0.00	38.13		10.35	18.92	83.84	86.68	21-Dec-19 17:00:00		31.96	18.92	83.84	124.81
21-Dec-19 18:00:00	21-Dec-19 19:00:00		71.58	0.00	0.00	5.24	2.1	329.7		23.60	0.00	0.00	1.73		10.35	18.92	83.84	86.68	21-Dec-19 18:00:00		33.95	18.92	83.84	88.41
21-Dec-19 19:00:00	21-Dec-19 20:00:00		140.12	0.00	0.00	5.36	2.1	329.7		46.20	0.00	0.00	1.77		10.35	18.92	83.84	86.68	21-Dec-19 19:00:00		56.55	18.92	83.84	88.45
21-Dec-19 20:00:00	21-Dec-19 21:00:00		490.49	0.00	0.00	5.47	2.1	329.7		161.72	0.00	0.00	1.80		10.35	18.92	83.84	86.68	21-Dec-19 20:00:00		172.07	18.92	83.84	88.48
21-Dec-19 21:00:00	21-Dec-19 22:00:00		78.64	0.00	0.00	5.57	2.1	329.7		25.93	0.00	0.00	1.84		10.35	18.92	83.84	86.68	21-Dec-19 21:00:00		36.28	18.92	83.84	88.52
21-Dec-19 22:00:00	21-Dec-19 23:00:00		71.23	0.00	0.00	7.87	2.1	329.7		23.48	0.00	0.00	2.59		10.35	18.92	83.84	86.68	21-Dec-19 22:00:00		33.83	18.92	83.84	89.27
21-Dec-19 23:00:00	22-Dec-19 00:00:00		72.24	0.00	0.00	5.80	2.1	329.7		23.82	0.00	0.00	1.91		10.35	18.92	83.84	86.68	21-Dec-19 23:00:00		34.17	18.92	83.84	88.59
22-Dec-19 00:00:00	22-Dec-19 01:00:00		75.71	0.00	0.00	5.94	2.1	329.7		24.96	0.00	0.00	1.96		10.35	18.92	83.84	86.68	22-Dec-19 00:00:00		35.31	18.92	83.84	88.64
22-Dec-19 01:00:00	22-Dec-19 02:00:00		57.06	0.00	0.00	6.08	2.1	329.7		18.81	0.00	0.00	2.00		10.35	18.92	83.84	86.68	22-Dec-19 01:00:00		29.16	18.92	83.84	88.68
22-Dec-19 02:00:00	22-Dec-19 03:00:00		43.54	0.00	0.00	6.19	2.1	329.7		14.36	0.00	0.00	2.04		10.35	18.92	83.84	86.68	22-Dec-19 02:00:00		24.71	18.92	83.84	88.72
22-Dec-19 03:00:00	22-Dec-19 04:00:00		64.12	0.00	0.00	6.18	2.1	329.7		21.14	0.00	0.00	2.04		10.35	18.92	83.84	86.68	22-Dec-19 03:00:00		31.49	18.92	83.84	88.72
22-Dec-19 04:00:00	22-Dec-19 05:00:00		67.72	0.00	0.00	6.16	2.1	329.7		22.33	0.00	0.00	2.03		10.35	18.92	83.84	86.68	22-Dec-19 04:00:00		32.68	18.92	83.84	88.71
22-Dec-19 05:00:00	22-Dec-19 06:00:00		36.81	0.00	0.00	6.13	2.1	329.7		12.14	0.00	0.00	2.02		10.35	18.92	83.84	86.68	22-Dec-19 05:00:00		22.49	18.92	83.84	88.70
22-Dec-19 06:00:00	22-Dec-19 07:00:00		9.68	0.00	0.00	120.18	2.1	329.7		3.19	0.00	0.00	39.62		10.35	18.92	83.84	86.68	22-Dec-19 06:00:00		13.54	18.92	83.84	126.30
22-Dec-19 07:00:00	22-Dec-19 08:00:00		13.55	0.00	0.00	6.13	2.1	329.7		4.47	0.00	0.00	2.02		10.35	18.92	83.84	86.68	22-Dec-19 07:00:00		14.82	18.92	83.84	88.70
22-Dec-19 08:00:00	22-Dec-19 09:00:00		6.42	0.00	0.00	6.06	2.1	329.7		2.12	0.00	0.00	2.00		10.35	18.92	83.84	86.68	22-Dec-19 08:00:00		12.47	18.92	83.84	88.68
22-Dec-19 09:00:00	22-Dec-19 10:00:00		0.00	0.00	0.00	5.99	2.1	329.7		0.00	0.00	0.00	1.97		10.35	18.92	83.84	86.68	22-Dec-19 09:00:00		10.35	18.92	83.84	88.65
22-Dec-19 10:00:00	22-Dec-19 11:00:00		0.00	0.00	0.00

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
24-Dec-19 12:00:00	24-Dec-19 13:00:00		20.55	0.00	0.00	4.18	2.1	329.7		6.78	0.00	0.00	1.38		10.35	18.92	83.84	86.68	24-Dec-19 12:00:00		17.13	18.92	83.84	88.06
24-Dec-19 13:00:00	24-Dec-19 14:00:00		33.63	0.00	0.00	4.04	2.1	329.7		11.09	0.00	0.00	1.33		10.35	18.92	83.84	86.68	24-Dec-19 13:00:00		21.44	18.92	83.84	88.01
24-Dec-19 14:00:00	24-Dec-19 15:00:00		34.02	0.00	0.00	4.07	2.1	329.7		11.22	0.00	0.00	1.34		10.35	18.92	83.84	86.68	24-Dec-19 14:00:00		21.57	18.92	83.84	88.02
24-Dec-19 15:00:00	24-Dec-19 16:00:00		32.90	0.00	0.00	4.19	2.1	329.7		10.85	0.00	0.00	1.38		10.35	18.92	83.84	86.68	24-Dec-19 15:00:00		21.20	18.92	83.84	88.06
24-Dec-19 16:00:00	24-Dec-19 17:00:00		27.21	0.00	0.00	4.30	2.1	329.7		8.97	0.00	0.00	1.42		10.35	18.92	83.84	86.68	24-Dec-19 16:00:00		19.32	18.92	83.84	88.10
24-Dec-19 17:00:00	24-Dec-19 18:00:00		27.00	0.00	0.00	4.41	2.1	329.7		8.90	0.00	0.00	1.45		10.35	18.92	83.84	86.68	24-Dec-19 17:00:00		19.25	18.92	83.84	88.13
24-Dec-19 18:00:00	24-Dec-19 19:00:00		34.93	0.00	0.00	4.50	2.1	329.7		11.52	0.00	0.00	1.49		10.35	18.92	83.84	86.68	24-Dec-19 18:00:00		21.87	18.92	83.84	88.17
24-Dec-19 19:00:00	24-Dec-19 20:00:00		26.26	0.00	0.00	4.77	2.1	329.7		8.66	0.00	0.00	1.57		10.35	18.92	83.84	86.68	24-Dec-19 19:00:00		19.01	18.92	83.84	88.25
24-Dec-19 20:00:00	24-Dec-19 21:00:00		24.19	0.00	0.00	5.04	2.1	329.7		7.98	0.00	0.00	1.66		10.35	18.92	83.84	86.68	24-Dec-19 20:00:00		18.33	18.92	83.84	88.34
24-Dec-19 21:00:00	24-Dec-19 22:00:00		55.63	0.00	0.00	5.32	2.1	329.7		18.34	0.00	0.00	1.75		10.35	18.92	83.84	86.68	24-Dec-19 21:00:00		28.69	18.92	83.84	88.43
24-Dec-19 22:00:00	24-Dec-19 23:00:00		43.05	0.00	0.00	5.55	2.1	329.7		14.19	0.00	0.00	1.83		10.35	18.92	83.84	86.68	24-Dec-19 22:00:00		24.54	18.92	83.84	88.51
24-Dec-19 23:00:00	25-Dec-19 00:00:00		46.60	0.00	0.00	5.59	2.1	329.7		15.36	0.00	0.00	1.84		10.35	18.92	83.84	86.68	24-Dec-19 23:00:00		25.71	18.92	83.84	88.52
25-Dec-19 00:00:00	25-Dec-19 01:00:00		67.82	0.00	0.00	5.61	2.1	329.7		22.36	0.00	0.00	1.85		10.35	18.92	83.84	86.68	25-Dec-19 00:00:00		32.71	18.92	83.84	88.53
25-Dec-19 01:00:00	25-Dec-19 02:00:00		34.71	0.00	0.00	5.63	2.1	329.7		11.45	0.00	0.00	1.86		10.35	18.92	83.84	86.68	25-Dec-19 01:00:00		21.80	18.92	83.84	88.54
25-Dec-19 02:00:00	25-Dec-19 03:00:00		24.47	0.00	0.00	5.59	2.1	329.7		8.07	0.00	0.00	1.84		10.35	18.92	83.84	86.68	25-Dec-19 02:00:00		18.42	18.92	83.84	88.52
25-Dec-19 03:00:00	25-Dec-19 04:00:00		21.81	0.00	0.00	5.63	2.1	329.7		7.19	0.00	0.00	1.86		10.35	18.92	83.84	86.68	25-Dec-19 03:00:00		17.54	18.92	83.84	88.54
25-Dec-19 04:00:00	25-Dec-19 05:00:00		25.66	0.00	0.00	5.67	2.1	329.7		8.46	0.00	0.00	1.87		10.35	18.92	83.84	86.68	25-Dec-19 04:00:00		18.81	18.92	83.84	88.55
25-Dec-19 05:00:00	25-Dec-19 06:00:00		44.59	0.00	0.00	5.72	2.1	329.7		14.70	0.00	0.00	1.89		10.35	18.92	83.84	86.68	25-Dec-19 05:00:00		25.05	18.92	83.84	88.57
25-Dec-19 06:00:00	25-Dec-19 07:00:00		57.88	0.00	0.00	5.87	2.1	329.7		19.08	0.00	0.00	1.94		10.35	18.92	83.84	86.68	25-Dec-19 06:00:00		29.43	18.92	83.84	88.62
25-Dec-19 07:00:00	25-Dec-19 08:00:00		65.52	0.00	0.00	5.85	2.1	329.7		21.60	0.00	0.00	1.93		10.35	18.92	83.84	86.68	25-Dec-19 07:00:00		31.95	18.92	83.84	88.61
25-Dec-19 08:00:00	25-Dec-19 09:00:00		67.67	0.00	0.00	5.80	2.1	329.7		22.31	0.00	0.00	1.91		10.35	18.92	83.84	86.68	25-Dec-19 08:00:00		32.66	18.92	83.84	88.59
25-Dec-19 09:00:00	25-Dec-19 10:00:00		17.23	0.00	0.00	5.75	2.1	329.7		5.68	0.00	0.00	1.90		10.35	18.92	83.84	86.68	25-Dec-19 09:00:00		16.03	18.92	83.84	88.58
25-Dec-19 10:00:00	25-Dec-19 11:00:00		13.00	0.00	0.00	5.63	2.1	329.7		4.29	0.00	0.00	1.86		10.35	18.92	83.84	86.68	25-Dec-19 10:00:00		14.64	18.92	83.84	88.54
25-Dec-19 11:00:00	25-Dec-19 12:00:00		6.35	0.00	0.00	5.34	2.1	329.7		2.10	0.00	0.00	1.76		10.35	18.92	83.84	86.68	25-Dec-19 11:00:00		12.45	18.92	83.84	88.44
25-Dec-19 12:00:00	25-Dec-19 13:00:00		35.83	0.00	0.00	5.04	2.1	329.7		11.81	0.00	0.00	1.66		10.35	18.92	83.84	86.68	25-Dec-19 12:00:00		22.16	18.92	83.84	88.34
25-Dec-19 13:00:00	25-Dec-19 14:00:00		48.16	0.00	0.00	4.74	2.1	329.7		15.88	0.00	0.00	1.56		10.35	18.92	83.84	86.68	25-Dec-19 13:00:00		26.23	18.92	83.84	88.24
25-Dec-19 14:00:00	25-Dec-19 15:00:00		63.39	0.00	0.00	4.54	2.1	329.7		20.90	0.00	0.00	1.50		10.35	18.92	83.84	86.68	25-Dec-19 14:00:00		31.25	18.92	83.84	88.18
25-Dec-19 15:00:00	25-Dec-19 16:00:00		50.33	0.00	0.00	4.56	2.1	329.7		16.59	0.00	0.00	1.50		10.35	18.92	83.84	86.68	25-Dec-19 15:00:00		26.94	18.92	83.84	88.18
25-Dec-19 16:00:00	25-Dec-19 17:00:00		26.14	0.00	0.00	4.58	2.1	329.7		8.62	0.00	0.00	1.51		10.35	18.92	83.84	86.68	25-Dec-19 16:00:00		18.97	18.92	83.84	88.19
25-Dec-19 17:00:00	25-Dec-19 18:00:00		17.12	0.00	0.00	4.61	2.1	329.7		5.65	0.00	0.00	1.52		10.35	18.92	83.84	86.68	25-Dec-19 17:00:00		16.00	18.92	83.84	88.20
25-Dec-19 18:00:00	25-Dec-19 19:00:00		17.25	0.00	0.00	4.66	2.1	329.7		5.69	0.00	0.00	1.54		10.35	18.92	83.84	86.68	25-Dec-19 18:00:00		16.04	18.92	83.84	88.22
25-Dec-19 19:00:00	25-Dec-19 20:00:00		33.39	0.00	0.00	4.95	2.1	329.7		11.01	0.00	0.00	1.63		10.35	18.92	83.84	86.68	25-Dec-19 19:00:00		21.36	18.92	83.84	88.31
25-Dec-19 20:00:00	25-Dec-19 21:00:00		39.44	0.00	0.00	5.27	2.1	329.7		13.00	0.00	0.00	1.74		10.35	18.92	83.84	86.68	25-Dec-19 20:00:00		23.35	18.92	83.84	88.42
25-Dec-19 21:00:00	25-Dec-19 22:00:00		47.95	0.00	0.00	5.58	2.1	329.7		15.81	0.00	0.00	1.84		10.35	18.92	83.84	86.68	25-Dec-19 21:00:00		26.16	18.92	83.84	88.52
25-Dec-19 22:00:00	25-Dec-19 23:00:00		20.65	0.00	0.00	5.84	2.1	329.7		6.81	0.00	0.00	1.93		10.35	18.92	83.84	86.68	25-Dec-19 22:00:00		17.16	18.92	83.84	88.61
25-Dec-19 23:00:00	26-Dec-19 00:00:00		20.12	0.00	0.00	5.96	2.1	329.7		6.63	0.00	0.00	1.96		10.35	18.92	83.84	86.68	25-Dec-19 23:00:00		16.98	18.92	83.84	88.64
26-Dec-19 00:00:00	26-Dec-19 01:00:00		16.48	0.00	0.00	6.06	2.1	329.7		5.43	0.00	0.00	2.00		10.35	18.92	83.84	86.68	26-Dec-19 00:00:00		15.78	18.92	83.84	88.68
26-Dec-19 01:00:00	26-Dec-19 02:00:00		14.40	0.00	0.00	6.17	2.1	329.7		4.75	0.00	0.00	2.03		10.35	18.92	83.84	86.68	26-Dec-19 01:00:00		15.10	18.92	83.84	88.71
26-Dec-19 02:00:00	26-Dec-19 03:00:00		7.51	0.00	0.00	6.23	2.1	329.7		2.48	0.00	0.00	2.05		10.35	18.92	83.84	86.68	26-Dec-19 02:00:00		12.83	18.92	83.84	88.73
26-Dec-19 03:00:00	26-Dec-19 04:00:00		6.51	0.00	0.00	6.28	2.1	329.7		2.15	0.00	0.00	2.07		10.35	18.92	83.84	86.68	26-Dec-19 03:00:00		12.50	18.92	83.84	88.75
26-Dec-19 04:00:00	26-Dec-19 05:00:00		3.60	0.00	0.00	6.33	2.1	329.7		1.19	0.00	0.00	2.09		10.35	18.92	83.84	86.68	26-Dec-19 04:00:00		11.54	18.92	83.84	88.77
26-Dec-19 05:00:00	26-Dec-19 06:00:00		6.18	0.00	0.00	6.38	2.1	329.7		2.04	0.00	0.00	2.10		10.35	18.92	83.84	86.68	26-Dec-19 05:00:00		12.39	18.92	83.84	88.78
26-Dec-19 06:00:00	26-Dec-19 07:00:00		2.80	0.00	0.00	6.24	2.1	329.7		0.92	0.00	0.00	2.06		10.35	18.92	83.84	86.68	26-Dec-19 06:00:00		11.27	18.92	83.84	88.74
26-Dec-19 07:00:00	26-Dec-19 08:00:00		1.94	0.00	0.00	6.09	2.1	329.7		0.64	0.00	0.00	2.01		10.35	18.92	83.84	86.68	26-Dec-19 07:00:00		10.99	18.92	83.84	88.69
26-Dec-19 08:00:00	26-Dec-19 09:00:00		0.54	0.00	0.00	5.96	2.1	329.7		0.18	0.00	0.00	1.97		10.35	18.92	83.84	86.68	26-Dec-19 08:00:00		10.53	18.92	83.84	88.65
26-Dec-19 09:00:00	26-Dec-19 10:00:00		1.11	0.00	0.00	5.84	2.1	329.7		0.37	0.00	0.00	1.93		10.35	18.92	83.84	86.68	26-Dec-19 09:00:00		10.72	18.92	83.84	88.61
26-Dec-19 10:00:00	26-Dec-19 11:00:00		1.87	0.00	0.00	5.59	2.1	329.7		0.62	0.00	0.00	1.84		10.35	18.92	83.84	86.68	26-Dec-19 10:00:00		10.97	18.92	83.84	88.52
26-Dec-19 11:00:00	26-Dec-19 12:00:00		13.19	0.00	0.00	5.21	2.1	329.7		4.35	0.00	0.00	1.72		10.35	18.92	83.84	86.68	26-Dec-19 11:00:00		14.70	18.92	83.84	88.40
26-Dec-19 12:00:00	26-Dec-19 13:00:00		37.28	0.00	0.00	4.84	2.1	329.7		12.29	0.00	0.00	1.60		10.35	18.92	83.84	86.68	26-Dec-19 12:00:00		22.64	18.92	83.84	88.28
26-Dec-19 13:00:00	26-Dec-19 14:00:00		42.49	0.00	0.00	4.48	2.1	329.7		14.01	0.00	0.00	1.48		10.35	18.92	83.84	86.68	26-Dec-19 13:00:00		24.36	18.92	83.84	88.16
26-Dec-19 14:00:00	26-Dec-19 15:00:00		45.83	0.00	0.00	4.13	2.1	329.7		15.11	0.00	0.00	1.36		10.35	18.92	83.84	86.68	26-Dec-19 14:00:00		25.46	18.92	83.84	88.04
26-Dec-19 15:00:00	26-Dec-19 16:00:00		79.24	0.00	0.00	4.20	2.1	329.7		26.13	0.00	0.00	1.39		10.35	18.92	83.84	86.68	26-Dec-19 15:00:00		36.48	18.92	83.84	88.07
26-Dec-19 16:00:00	26-Dec-19 17:00:00		77.58	0.00	0.00	4.32	2.1	329.7		25.58	0.00	0.00	1.42		10.35	18.92	83.84	86.68	26-Dec-19 16:00:00		35.93	18.92	83.84	88.10
26-Dec-19 17:00:00	26-Dec-19 18:00:00		82.28	0.00	0.00	4.44	2.1	329.7		27.13	0.00	0.00	1.46		10.35	18.92	83.84	86.68	26-Dec-19 17:00:00		37.48	18.92	83.84	88.14
26-Dec-19 18:00:00	26-Dec-19 19:00:00		81.71	0.00	0.00	4.60	2.1	329.7		26.94	0.00	0.00	1.52		10.35	18.92	83.84	86.68	26-Dec-19 18:00:00		37.29	18.92	83.84	88.20
26-Dec-19 19:00:00	26-Dec-19 20:00:00		75.52	0.00	0.00	4.88	2.1	329.7		24.90	0.00	0.00	1.61		10.35	18.92	83.84	86.68	26-Dec-19 19:00:00		35.25	18.92	83.84	88.29
26-Dec-19 20:00:00	26-Dec-19 21:00:00		31.79	0.00	0.00	5.16	2.1	329.7		10.48	0.00	0.00	1.70		10.35	18.92	83.84	86.68	26-Dec-19 20:00:00		20.83	18.92	83.84	88.38
26-Dec-19 21:00:00	26-Dec-19 22:00:00		34.36	0.00	0.00	5.44	2.1	329.7		11.33	0.00	0.00	1.79		10.35	18.92	83.84	86.68	26-Dec-19 21:00:00		21.68	18.92	83.84	88.47
26-Dec-19 22:00:00	26-Dec-19 23:00:00		40.03	0.00	0.00	5.64	2.1	329.7		13.20	0.00	0.00	1.86		10.35	18.92	83.84	86.68	26-Dec-19 22:00:00		23.55	18.92	83.84	88.54
26-Dec-19 23:00:00	27-Dec-19 00:00:00		48.51	0.00	0.00	5.65	2.1	329.7		15.99	0.00	0.00	1.86		10.35	18.92	83.84	86.68	26-Dec-19 23:00:00		26.34	18.92	83.84	88.54
27-Dec-19 00:00:00	27-Dec-19 01:00:00		58.93	0.00	0.00	5.65	2.1	329.7		19.43	0.00	0.00	1.86		10.35	18.92	83.84	86.68	27-Dec-19 00:00:00		29.78	18.92	83.84	88.54
27-Dec-19 01:00:00	27-Dec-19 02:00:00		70.67	0.00	0.00	5.65	2.1	329.7		23.30	0.00	0.00	1.86		10.35	18.92	83.84	86.68	27-Dec-19 01:00:00		33.65	18.92	83.84	88.54
27-Dec-19 02:00:00	27-Dec-19 03:00:00		43.68	0.00	0.00	5.65	2.1	329.7		14.40	0.00	0.00	1.86		10.35	18.92	83.84	86.68	27-Dec-19 02:00:00		24.75	18.92	83.84	88.54
27-Dec-19 03:00:00	27-Dec-19 04:00:00		43.07	0.00	0.00	5.65	2.1	329.7		14.20	0.00	0.00	1.86		10.35	18.92	83.84	86.68	27-Dec-19 03:00:00		24.55	18.92	83.84	88.54
27-Dec-19 04:00:00	27-Dec-19 05:00:00		28.77	0.00	0.00	5.73	2.1	329.7		9.49	0.00	0.00	1.89		10.35	18.92	83.84	86.68	27-Dec-19 04:00:00		19.84	18.92	83.84	88.57
27-Dec-19 05:00:00	27-Dec-19 06:00:00		38.74	0.00	0.00	5.73	2.1	329.7		12.77	0.00	0.00	1.89		10.35	18.92	83.84	86.68	27-Dec-19 05:00:00		23.12	18.92	83.84	88.57
27-Dec-19 06:00:00	27-Dec-19 07:00:00		64.23	0.00	0.00	5.72	2.1	329.7		21.18	0.00	0.00	1.89		10.35	18.92	83.84	86.68	27-Dec-19 06:00:00		31.53	18.92	83.84	88.57
27-Dec-19 07:00:00	27-Dec-19 08:00:00		42.84	0.00	0.00	5.71	2.1	329.7		14.13	0.00	0.00	1.88		10.35	18.92	83.84	86.68	27-Dec-19 07:00:00		24.48	18.92	83.84	88.56
27-Dec-19 08:00:00	27-Dec-19 09:00:00		70.14	0.00	0.00	5.56	2.1	329.7		23.12	0.00	0.00	1.83		10.35	18.92	83.84	86.68	27-Dec-19 08:00:00		33.47	18.92	83.84	88.51
27-Dec-19 09:00:00	27-Dec-19 10:00:00		64.89	0.00	0.00	5.27	2.1	329.7		21.40	0.00	0.00	1.74		10.35	18.92	83.84	86.68	27-Dec-19 09:00:00		31.75	18.92	83.84	88.42
27-Dec-19 10:00:00	27-Dec-19 11:00:00		55.00	0.00	0.00	4.99	2.1	329.7		18.13	0.00	0.00	1.64		10.35	18.92	83.84	86.68	27-Dec-19 10:00:00		28.48	18.92	83.84	88.32
27-Dec-19 11:00:00	27-Dec-19 12:00:00		25.17	0.00	0.00	4.70	2.1	329.7		8.30	0.00	0.00	1.55		10.35	18.92	83.84	86.68	27-Dec-19 11:00:00		18.65	18.92	83.84	88.23
27-Dec-19 12:00:00	27-Dec-19 13:00:00		32.76	0.00	0.00	4.50	2.1	329.7		10.80	0.00	0.00	1.48		10.35	18.92	83.84	86.68	27-Dec-19 12:00:00		21.15	18.92	83.84	88.16
27-Dec-19 13:00:00	27-Dec-19 14:00:00		30.75	0.00	0.00	4.37	2.1	329.7		10.14	0.00	0.00	1.44		10.35	18.92	83.84	86.68	27-Dec-19 13:00:00		20.49	18.92	83.84	88.12
27-Dec-19 14:00:00	27-Dec-19 15:00:00		45.52	0.00	0.00	4.22	2.1	329.7		15.01	0.00	0.00	1.39		10.35	18.92	83.84	86.68	27-Dec-19 14:00:00		25.36	18.92	83.84	88.07
27-Dec-19 15:00:00	27-Dec-19 16:00:00		22.16	0.00	0.00	4.08	2.1	329.7		7.31	0.00	0.00	1.35		10.35	18.92	83.84	86.68	27-Dec-19 15:00:00		17.66	18.92	83.84	88.03
27-Dec-19 16:00:00	27-Dec-19 17:00:00		14.60	0.00	0.00	3.99	2.1	329.7		4.81	0.00	0.00	1.32		10.35	18.92	83.84	86.68	27-Dec-19 16:00:00		15.16	18.92	83.84	88.00
27-Dec-19 17:00:00	27-Dec-19 18:00:00		15.32	0.00	0.00	4.12	2.1	329.7		5.05	0.00	0.00	1.36		10.35	18.92	83.84	86.68	27-Dec-19 17:00:00		15.40	18.92	83.84	88.04
27-Dec-19 18:00:00	27-Dec-19 19:00:00		16.04	0.00	0.00	4.27	2.1	329.7		5.29	0.00	0.00	1.41		10.35	18.92	83.84	86.68	27-Dec-19 18:00:00		15.64	18.92	83.84	88.09
27-Dec-19 19:00:00	27-Dec-19 20:00:00		16.77	0.00	0.00	4.43	2.1	329.7		5.53	0.00	0.00	1.46		10.35	18.92	83.84	86.68	27-Dec-19 19:00:00		15.88	18.92	83.84	88.14
27-Dec-19 20:00:00	27-Dec-19 21:00:00		17.29	0.00	0.00	4.60	2.1	329.7		5.70	0.00	0.00	1.52		10.35	18.92	83.84	86.68	27-Dec-19 20:00:00		16.05	18.92	83.84	88.20
27-Dec-19 21:00:00	27-Dec-19 22:00:00		17.50	0.00	0.00	4.66	2.1	329.7		5.77	0.00	0.00	1.54		10.35	18.92	83.84	86.68	27-Dec-19 21:00:00		16.12	18.92	83.84	88.22
27-Dec-19 22:00:00	27-Dec-19 23:00:00		17.72	0.00	0.00	4.68	2.1	329.7		5.84	0.00	0.00	1.54		10.35	18.92	83.84	86.68	27-Dec-19 22:00:00		16.19	18.92	83.84	88.22
27-Dec-19 23:00:00	28-Dec-19 00:00:00		17.93	0.00	0.00	4.70	2.1	329.7		5.91	0.00	0.00	1.55		10.35	18.92	83.84	86.68	27-Dec-19 23:00:00		16.26	18.92	83.84	88.23
28-Dec-19 00:00:00	28-Dec-19 01:00:00		17.98	0.00	0.00	4.67	2.1	329.7		5.93	0.00	0.00	1.54		10.35	18.92	83.84	86.68	28-Dec-19 00:00:00		16.28	18.92	83.84	88.22
28-Dec-19 01:00:00	28-Dec-19 02:00:00		17.73	0.00	0.00	4.72	2.1	329.7		5.84	0.00	0.00	1.56		10.35	18.92	83.84	86.68	28-Dec-19 01:00:00		16.19	18.92	83.84	88.24
28-Dec-19 02:00:00	28-Dec-19 03:00:00		17.47	0.00	0.00	4.84	2.1	329.7		5.76	0.00	0.00	1.60		10.35	18.92	83.84	86.68	28-Dec-19 02:00:00		16.11	18.92	83.84	88.28
28-Dec-19 03:00:00	28-Dec-19 04:00:00		17.22	0.00	0.00	4.97	2.1	329.7		5.68	0.00	0.00	1.64		10.35	18.92	83.84	86.68	28-Dec-19 03:00:00		16.03	18.92	83.84	88.32
28-Dec-19 04:00:00	28-Dec-19 05:00:00		17.62	0.00	0.00	5.07	2.1	329.7		5.81	0.00	0.00	1.67		10.35	18.92	83.84	86.68	28-Dec-19 04:00:00		16.16	18.92	83.84	88.35
28-Dec-19 05:00:00	28-Dec-19 06:00:00		18.71	0.00	0.00	5.10	2.1	329.7		6.17	0.00	0.00	1.68		10.35	18.92	83.84	86.68	28-Dec-19 05:00:00		16.52	18.92	83.84	88.36
28-Dec-19 06:00:00	28-Dec-19 07:00:00		18.23	0.00	0.00	5.12	2.1	329.7		6.01	0.00	0.00	1.69		10.35	18.92	83.84	86.68	28-Dec-19 06:00:00		16.36	18.92	83.84	88.37
28-Dec-19 07:00:00	28-Dec-19 08:00:00		11.91	0.00	0.00	5.14	2.1	329.7		3.93	0.00	0.00	1.69		10.35	18.92	83.84	86.68	28-Dec-19 07:00:00		14.28	18.92	83.84	88.37
28-Dec-19 08:00:00	28-Dec-19 09:00:00		47.76	0.00	0.00	5.19	2.1	329.7		15.75	0.00	0.00	1.71		10.35	18.92	83.84	86.68	28-Dec-19 08:00:00		26.10	18.92	83.84	88.39
28-Dec-19 09:00:00	28-Dec-19 10:00:00		51.21	0.00	0.00	4.97

Table A-45
Hourly SO_2 Emissions Rates - 2019
New-Indy Catawba - Catawba, SC

2019 HOURLY EMISSIONS		ACTUAL No. 6 FUEL OIL USAGE (gallons/hour)					ACTUAL No. 6 FUEL OIL SO_2 EMISSIONS (lb/hr)							MAXIMUM SO_2 EMISSIONS FROM ALL OTHER FUELS (lb/hr)						TOTAL HOURLY MODELED SO_2 EMISSIONS (lb/hr)				
		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	Maximum Sulfur Content	AP-42 Emission Factor	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2	RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2		RB1 / Swing / Power Boiler	RB2	RB3	CB1	CB2
		PI Tag 25FY127.pv	PI Tag 25FY304.pv	PI Tag 51FY304.PV	PI Tag 26FC143.pv	PI Tag 37FC280.pv	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	#6 Fuel Oil	Natural Gas	Black Liquor	Black Liquor + Natural Gas	Biomass + TDF + Natural Gas	Biomass + TDF + Natural Gas		FUTSB	FUTRF2	FUTRF3	FUTCB1	FUTCB2
Start	End	gal/hr	gal/hr	gal/hr	gal/hr	gal/hr	percent	lb/10^3 gal	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	Start Time	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
30-Dec-19 11:00:00	30-Dec-19 12:00:00		84.86	2,166.22	0.00	5.01	2.1	329.7		27.98	714.20	0.00	1.65		10.35	18.92	83.84	86.68	30-Dec-19 11:00:00		**38.33**	**733.12**	**83.84**	**88.33**
30-Dec-19 12:00:00	30-Dec-19 13:00:00		85.07	2,171.00	0.00	5.12	2.1	329.7		28.05	715.78	0.00	1.69		10.35	18.92	83.84	86.68	30-Dec-19 12:00:00		**38.40**	**734.70**	**83.84**	**88.37**
30-Dec-19 13:00:00	30-Dec-19 14:00:00		30.98	2,163.45	0.00	5.10	2.1	329.7		10.21	713.29	0.00	1.68		10.35	18.92	83.84	86.68	30-Dec-19 13:00:00		**20.56**	**732.21**	**83.84**	**88.36**
30-Dec-19 14:00:00	30-Dec-19 15:00:00		15.42	2,163.81	0.00	5.12	2.1	329.7		5.09	713.41	0.00	1.69		10.35	18.92	83.84	86.68	30-Dec-19 14:00:00		**15.44**	**732.33**	**83.84**	**88.37**
30-Dec-19 15:00:00	30-Dec-19 16:00:00		54.56	2,164.71	0.00	5.13	2.1	329.7		17.99	713.70	0.00	1.69		10.35	18.92	83.84	86.68	30-Dec-19 15:00:00		**28.34**	**732.62**	**83.84**	**88.37**
30-Dec-19 16:00:00	30-Dec-19 17:00:00		37.82	2,161.51	0.00	5.18	2.1	329.7		12.47	712.65	0.00	1.71		10.35	18.92	83.84	86.68	30-Dec-19 16:00:00		**22.82**	**731.57**	**83.84**	**88.39**
30-Dec-19 17:00:00	30-Dec-19 18:00:00		33.95	2,167.62	0.00	5.33	2.1	329.7		11.19	714.67	0.00	1.76		10.35	18.92	83.84	86.68	30-Dec-19 17:00:00		**21.54**	**733.59**	**83.84**	**88.44**
30-Dec-19 18:00:00	30-Dec-19 19:00:00		23.31	2,167.99	0.00	5.48	2.1	329.7		7.69	714.79	0.00	1.81		10.35	18.92	83.84	86.68	30-Dec-19 18:00:00		**18.04**	**733.71**	**83.84**	**88.49**
30-Dec-19 19:00:00	30-Dec-19 20:00:00		53.04	2,166.56	0.00	5.63	2.1	329.7		17.49	714.31	0.00	1.86		10.35	18.92	83.84	86.68	30-Dec-19 19:00:00		**27.84**	**733.23**	**83.84**	**88.54**
30-Dec-19 20:00:00	30-Dec-19 21:00:00		49.96	2,165.23	0.00	5.78	2.1	329.7		16.47	713.88	0.00	1.90		10.35	18.92	83.84	86.68	30-Dec-19 20:00:00		**26.82**	**732.80**	**83.84**	**88.58**
30-Dec-19 21:00:00	30-Dec-19 22:00:00		49.78	2,165.36	0.00	5.88	2.1	329.7		16.41	713.92	0.00	1.94		10.35	18.92	83.84	86.68	30-Dec-19 21:00:00		**26.76**	**732.84**	**83.84**	**88.62**
30-Dec-19 22:00:00	30-Dec-19 23:00:00		39.60	2,164.82	0.00	5.98	2.1	329.7		13.06	713.74	0.00	1.97		10.35	18.92	83.84	86.68	30-Dec-19 22:00:00		**23.41**	**732.66**	**83.84**	**88.65**
30-Dec-19 23:00:00	31-Dec-19 00:00:00		30.77	2,165.30	0.00	6.09	2.1	329.7		10.14	713.90	0.00	2.01		10.35	18.92	83.84	86.68	30-Dec-19 23:00:00		**20.49**	**732.82**	**83.84**	**88.69**
31-Dec-19 00:00:00	31-Dec-19 01:00:00		38.80	2,163.70	0.00	6.19	2.1	329.7		12.79	713.37	0.00	2.04		10.35	18.92	83.84	86.68	31-Dec-19 00:00:00		**23.14**	**732.29**	**83.84**	**88.72**
31-Dec-19 01:00:00	31-Dec-19 02:00:00		83.19	2,163.25	0.00	6.31	2.1	329.7		27.43	713.22	0.00	2.08		10.35	18.92	83.84	86.68	31-Dec-19 01:00:00		**37.78**	**732.14**	**83.84**	**88.76**
31-Dec-19 02:00:00	31-Dec-19 03:00:00		73.66	2,161.67	0.00	6.42	2.1	329.7		24.28	712.70	0.00	2.12		10.35	18.92	83.84	86.68	31-Dec-19 02:00:00		**34.63**	**731.62**	**83.84**	**88.80**
31-Dec-19 03:00:00	31-Dec-19 04:00:00		45.51	2,162.65	0.00	6.54	2.1	329.7		15.00	713.03	0.00	2.16		10.35	18.92	83.84	86.68	31-Dec-19 03:00:00		**25.35**	**731.95**	**83.84**	**88.84**
31-Dec-19 04:00:00	31-Dec-19 05:00:00		51.22	2,163.18	0.00	6.64	2.1	329.7		16.89	713.20	0.00	2.19		10.35	18.92	83.84	86.68	31-Dec-19 04:00:00		**27.24**	**732.12**	**83.84**	**88.87**
31-Dec-19 05:00:00	31-Dec-19 06:00:00		61.37	2,162.67	0.00	6.56	2.1	329.7		20.23	713.03	0.00	2.16		10.35	18.92	83.84	86.68	31-Dec-19 05:00:00		**30.58**	**731.95**	**83.84**	**88.84**
31-Dec-19 06:00:00	31-Dec-19 07:00:00		53.25	2,161.64	0.00	6.45	2.1	329.7		17.56	712.69	0.00	2.13		10.35	18.92	83.84	86.68	31-Dec-19 06:00:00		**27.91**	**731.61**	**83.84**	**88.81**
31-Dec-19 07:00:00	31-Dec-19 08:00:00		78.39	2,161.70	0.00	6.35	2.1	329.7		25.85	712.71	0.00	2.09		10.35	18.92	83.84	86.68	31-Dec-19 07:00:00		**36.20**	**731.63**	**83.84**	**88.77**
31-Dec-19 08:00:00	31-Dec-19 09:00:00		81.88	2,155.29	0.00	6.35	2.1	329.7		27.00	710.60	0.00	2.09		10.35	18.92	83.84	86.68	31-Dec-19 08:00:00		**37.35**	**729.52**	**83.84**	**88.77**
31-Dec-19 09:00:00	31-Dec-19 10:00:00		72.04	2,161.40	0.00	6.42	2.1	329.7		23.75	712.61	0.00	2.12		10.35	18.92	83.84	86.68	31-Dec-19 09:00:00		**34.10**	**731.53**	**83.84**	**88.80**
31-Dec-19 10:00:00	31-Dec-19 11:00:00		69.00	2,162.85	0.00	6.33	2.1	329.7		22.75	713.09	0.00	2.09		10.35	18.92	83.84	86.68	31-Dec-19 10:00:00		**33.10**	**732.01**	**83.84**	**88.77**
31-Dec-19 11:00:00	31-Dec-19 12:00:00		53.63	2,161.20	0.00	6.24	2.1	329.7		17.68	712.55	0.00	2.06		10.35	18.92	83.84	86.68	31-Dec-19 11:00:00		**28.03**	**731.47**	**83.84**	**88.74**
31-Dec-19 12:00:00	31-Dec-19 13:00:00		39.35	2,163.15	0.00	6.11	2.1	329.7		12.97	713.19	0.00	2.02		10.35	18.92	83.84	86.68	31-Dec-19 12:00:00		**23.32**	**732.11**	**83.84**	**88.70**
31-Dec-19 13:00:00	31-Dec-19 14:00:00		55.50	2,161.65	0.00	5.90	2.1	329.7		18.30	712.70	0.00	1.94		10.35	18.92	83.84	86.68	31-Dec-19 13:00:00		**28.65**	**731.62**	**83.84**	**88.62**
31-Dec-19 14:00:00	31-Dec-19 15:00:00		60.78	2,163.08	0.00	5.73	2.1	329.7		20.04	713.17	0.00	1.89		10.35	18.92	83.84	86.68	31-Dec-19 14:00:00		**30.39**	**732.09**	**83.84**	**88.57**
31-Dec-19 15:00:00	31-Dec-19 16:00:00		62.08	2,164.63	0.00	5.56	2.1	329.7		20.47	713.68	0.00	1.83		10.35	18.92	83.84	86.68	31-Dec-19 15:00:00		**30.82**	**732.60**	**83.84**	**88.51**
31-Dec-19 16:00:00	31-Dec-19 17:00:00		30.96	2,162.30	0.00	5.41	2.1	329.7		10.21	712.91	0.00	1.78		10.35	18.92	83.84	86.68	31-Dec-19 16:00:00		**20.56**	**731.83**	**83.84**	**88.46**
31-Dec-19 17:00:00	31-Dec-19 18:00:00		31.02	2,161.82	0.00	5.51	2.1	329.7		10.23	712.75	0.00	1.82		10.35	18.92	83.84	86.68	31-Dec-19 17:00:00		**20.58**	**731.67**	**83.84**	**88.50**
31-Dec-19 18:00:00	31-Dec-19 19:00:00		33.98	2,163.31	0.00	5.67	2.1	329.7		11.20	713.24	0.00	1.87		10.35	18.92	83.84	86.68	31-Dec-19 18:00:00		**21.55**	**732.16**	**83.84**	**88.55**
31-Dec-19 19:00:00	31-Dec-19 20:00:00		36.13	2,163.32	0.00	5.84	2.1	329.7		11.91	713.25	0.00	1.92		10.35	18.92	83.84	86.68	31-Dec-19 19:00:00		**22.26**	**732.17**	**83.84**	**88.60**
31-Dec-19 20:00:00	31-Dec-19 21:00:00		49.84	2,161.57	0.00	5.97	2.1	329.7		16.43	712.67	0.00	1.97		10.35	18.92	83.84	86.68	31-Dec-19 20:00:00		**26.78**	**731.59**	**83.84**	**88.65**
31-Dec-19 21:00:00	31-Dec-19 22:00:00		41.74	2,160.86	0.00	6.10	2.1	329.7		13.76	712.44	0.00	2.01		10.35	18.92	83.84	86.68	31-Dec-19 21:00:00		**24.11**	**731.36**	**83.84**	**88.69**
31-Dec-19 22:00:00	31-Dec-19 23:00:00		23.33	2,161.11	0.00	6.31	2.1	329.7		7.69	712.52	0.00	2.08		10.35	18.92	83.84	86.68	31-Dec-19 22:00:00		**18.04**	**731.44**	**83.84**	**88.76**
31-Dec-19 23:00:00	01-Jan-20 00:00:00		31.89	2,159.55	0.00	6.52	2.1	329.7		10.51	712.00	0.00	2.15		10.35	18.92	83.84	86.68	31-Dec-19 23:00:00		**20.86**	**730.92**	**83.84**	**88.83**

Table A-46

Hourly Emissions Calculations for Sulfur Dioxide Emissions from Fuel Oil Combustion Sources

New-Indy Catawba - Catawba, SC

Example Calculation for No. 6 Fuel Oil Combustion:
lb SO2/hr = 31.89 gal/hr × (157 × 2.1) lb SO2/1000 gal = 10.51 lb SO2/hr

Other Fuels:
The SO2 DRR emissions rates originally modeled in 2016 are intended to be conservative. This conservative approach was followed with the intention of modeling sufficiently conservative emission rates that the annual emissions assessment/review would be simplified and re-modeling every year would not be necessary.

In the case of Recovery Furnace 2 and 3, the Title V inventory uses the most recent NCASI emissions factor (2013) to calculate SO2 from burning black liquor solids. As a conservative assumption in the SO2 DRR modeling, a now obsolete higher NCASI emissions factor (2004) was used resulting in a higher SO2 emission rate from burning black liquor solids.

In the case of Combination Boiler 1 and 2, the Title V inventory uses an EPA emissions factor to calculate the SO2 emissions from burning TDF. As a conservative assumption in the SO2 DRR modeling, the TDF sulfur content listed by EPA was converted stoichiometrically into SO2 resulting in a much higher SO2 emissions rate from burning TDF.

Table A-47
Smelt Dissolving Tank 2 Emissions Calculations from Title V Operating Permit Application TV-2440-0005
New-Indy Catawba - Catawba, SC

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Smelt Dissolving Tank 2	1,129	Ton BLS/Day	1,119	Ton BLS/Day	24	7	365	365
AEI Group ID = 007, Process Unit ID = 8								
Title V Unit ID = 07. Equipment ID = 2510								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY FACTOR	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE			(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Sulfur dioxide	7446095	Criteria	6.00E-03	#/T BLS	F	1		**0.28**	**1.24**	**0.28**	**1.24**	**0.28**	**1.23**

8. REFERENCES:
A) Emission factors from NCASI Technical Bulletin 858, Table 17A.
B) Emission factors from NCASI Technical Bulletin 858, Table 17B.
C) Sum of dimethyl disulfide, dimethyl sulfide, hydrogen sulfide, and methyl mercaptan emissions.
D) Assumed TRS (as S) converted to H2S based on molecular weight.
E) Emission factor from NCASI Technical Bulletin 884, Table 4.15.
F) Emission factors from NCASI Technical Bulletin 1020, Table 4.15.
G) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.
H) VOC emissions are sum of individual speciated VOC.
I) Sum of speciated POM and PAH.

9. NOTES:
lb SO2/hr = 6.00e-03 lb SO2/T BLS x 1,129 T BLS/day x 1 day/24 hr = 0.28 lb SO2/hr

Actual production during Weston source test runs conducted on June 27, 2021
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

Table A-48
Smelt Dissolving Tank 2 Emissions Calculations from Title V Operating Permit Application TV-2440-0005
New-Indy Catawba - Catawba, SC

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Smelt Tank 3	2,040	Ton BLS/Day	1,712	Ton BLS/Day	24	7	365	365
AEI Group ID = 007, Process Unit ID = 9								
Title V Unit ID = 07. Equipment ID = 5110								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	NOTE	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Sulfur dioxide	7446095	Criteria	6.00E-03	#/T BLS	F	1		**0.51**	**2.23**	**0.51**	**2.23**	**0.43**	**1.87**

8. REFERENCES:
A) Emission factors from NCASI Technical Bulletin 858, Table 17A.
B) Emission factors from NCASI Technical Bulletin 858, Table 17B.
C) Sum of dimethyl disulfide, dimethyl sulfide, hydrogen sulfide, and methyl mercaptan emissions.
D) Assumed TRS (as S) converted to H2S based on molecular weight.
E) Emission factor from NCASI Technical Bulletin 884, Table 4.15.
F) Emission factors from NCASI Technical Bulletin 1020, Table 4.15.
G) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.
H) VOC emissions are sum of individual speciated VOC.
I) Sum of speciated POM and PAH.

9. NOTES:
lb SO2/hr = 6.00e-03 lb SO2/T BLS x 1,712 T BLS/day x 1 day/24 hr = 0.51 lb SO2/hr

Actual production during Weston source test runs conducted on June 27, 2021
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

Table A-49
Lime Kiln 2 Emissions Calculations from Title V Operating Permit Application TV-2440-0005
New-Indy Catawba - Catawba, SC

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Lime Kiln 2	465	Ton CaO/Day	415	Ton CaO/Day	24	7	365	365
AEI Group ID = 007, Process Unit ID = 10								
Title V Unit ID = 07. Equipment ID = 2723								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	FACTOR	UNITS	REFERENCE	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Sulfur dioxide	7446095	Criteria	3.00E-02	#/T CaO	F	1		**0.58**	**2.55**	**0.58**	**2.55**	**0.52**	**2.27**

8. REFERENCES:
A) Emission factors from NCASI Technical Bulletin 858, Table 16A.
B) Emission factors from NCASI Technical Bulletin 858, Table 16B.
C) Sum of dimethyl disulfide, dimethyl sulfide, hydrogen sulfide, and methyl mercaptan emissions.
D) Assumed TRS (as S) converted to H2S based on molecular weight.
E) Emission factor from NCASI Technical Bulletin 884, Table 4.13 - Oil-fired Lime Kiln with ESP.
F) Emission factors from NCASI Technical Bulletin 1020, Table 4.13 - Oil-fired Lime Kiln with ESP.
G) VOC emissions are sum of individual speciated VOC.
H) Sum of speciated POM and PAH.
I) Emission factor adjusted from VOC as carbon to total VOC based on molecular weight of predominate VOC species.
J) Emission limit from permit 2440-0005-CI, Condition II.A. converted from ppm into lb/hr and tpy (maximum emissions only).
K) Emission factor calculated using Bowater stack testing on 3/30/2010 (159 ppm) and 9/13/2011 (162 ppm).
L) Emission factor from 8/28/2008 Bowater stack test.

Q) Emission factor for natural gas combustion in EPA MRR, Table C-1 and C-2.
R) Emission factor based on GWP in EPA MRR, Table A-1.
S) Average heat input based on maximum heat input and lime production.

9. NOTES:
lb SO2/hr = 3.00e-02 lb SO2/T CaO x 465 T CaO/day x 1 day/24 hr = 0.58 lb SO2/hr

Emission Factors for reference K converted from #/ADTP to #/T CaO assuming 550 # CaO/ADTP.
Actual production ratioed to Smelt Dissolving Tank production during Weston source test runs conducted on June 27, 2021
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

Table A-50
Paper Mill Air Make-Up Units Emissions Calculations from Title V Operating Permit Application TV-2440-0005
New-Indy Catawba - Catawba, SC

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Mill Air Make-Up Units - Natural Gas Firing	126	MM Btu/hr	0.0	MM Btu/hr	24	7	365	365
AEI Group ID = 006, Process Unit ID = 5								
Title V Unit ID = 06, Equipment ID = 9900								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	VALUE	UNITS	BASIS	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Sulfur dioxide	7446095	Criteria	6.00E-04	#/MM Btu	B	1		**0.076**	**0.33**	**0.076**	**0.33**	**0.000**	**0.00**

8. REFERENCES:
A) Emission factors from AP-42 for Uncontrolled Natural Gas-fired Small Boilers - Table 1.4-1.
B) Emission factors from AP-42 for Uncontrolled Natural Gas-fired Boilers - Table 1.4-2.
C) Emission factors from AP-42 for Uncontrolled Natural Gas-fired Boilers - Table 1.4-3.
D) Highest emission factors from NCASI Technical Bulletin No. 650 (Table 4c), Natural Gas-fired Boilers.
E) Emission limit from permit 2440-0005-CM, Condition II.A.
F) All particulte matter assumed to be less than 2.5, per AP-42.
G) Primary VOC assumed to be formaldehyde.
H) Emission factors from AP-42 for Uncontrolled Natural Gas-fired Boilers - Table 1.4-4.
I) Emission factor for natural gas combustion in EPA MRR, Table C-1 and C-2.
J) Emission factor based on GWP in EPA MRR, Table A-1.
K) VOC emissions are sum of individual speciated VOC.
L) Sum of speciated POM and PAH.

9. NOTES:
Natural gas heating value 1,000 Btu/cf.
lb SO2/hr = 6.00e-04 lb SO2/MM Btu x 126 MM Btu/hr = 0.076 lb SO2/hr
Actual production is zero during the summer months, air make-up units are used for space heating during the winter months.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

Table A-51
Paper Mill Air Make-Up Units Emissions Calculations from Title V Operating Permit Application TV-2440-0005
New-Indy Catawba - Catawba, SC

1. & 2. PROCESS EMISSION SOURCE	MAXIMUM PRODUCTION	PRODUCTION UNITS	ACTUAL PRODUCTION	PRODUCTION UNITS	MAXIMUM HOURS PER DAY	MAXIMUM DAYS PER WEEK	MAXIMUM DAYS PER YEAR	ACTUAL DAYS PER YEAR
Paper Machine Air Make-Up Units - Propane Firing	126	MM Btu/hr	0.0	MM Btu/hr	24	7	365.0	365.0
AEI Group ID = 006, Process Unit ID = 6								
Title V Unit ID = 06, Equipment ID = 9900								

			8. EMISSION FACTOR INFORMATION			PROCESS VARIABILITY	CONTROL EFFICIENCY	6. MAXIMUM UNCONTROLLED EMISSIONS		7. MAXIMUM CONTROLLED EMISSIONS		ACTUAL EMISSIONS	
3. POLLUTANT	4. CAS #	5. TYPE	VALUE	UNITS	BASIS	FACTOR		(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Sulfur dioxide	7446095	Criteria	1.99E-04	#/MM Btu	A	1		**0.025**	**0.11**	**0.025**	**0.11**	**0.000**	**0.00**

8. REFERENCES:
A) Emission factors from AP-42 for Uncontrolled Propane-fired Industrial Boilers - Table 1.5-1.
B) All particulate matter assumed tro be less than 2.5, consistent with AP-42..
C) Primary VOC assumed to be propane.
D) Emission factor for propane combustion in EPA MRR, Table C-1 and C-2.
E) Emission factor based on GWP in EPA MRR, Table A-1.
F) VOC emissions are sum of individual speciated VOC.
G) Sum of speciated POM and PAH.

9. NOTES:
Propane heating value 90,500 Btu/gal.
lb SO2/hr = 1.99e-04 lb SO2/MM Btu x 126 MM Btu/hr = 0.025 lb SO2/hr
Actual production is zero during the summer months, air make-up units are used for space heating during the winter months.
Maximum production is permitted production rate.
Total reduced sulfur emission are the sum of emissions of hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide.
Process variablity factors for metal compounds assume conversion of elemental metal to lowest state metal oxide, except HF.

APPENDIX B – MODELING FILES

MODELING FILES

TERRAIN

NIC_DHEC_Base_20210915.api
NIC_DHEC_Base_20210915.ast
NED_n35w082_1.tif
usgs_ned_1_n36w082_gridfloat.tif
NED_n35w081_1.tif
NED_n36w081_1.tif

METEOROLOGY

SCDHEC_AERMET_19191_KUZA-KGSO_U_2015-2019.PFL
SCDHEC_AERMET_19191_KUZA-KGSO_U_2015-2019.SFC

SO2 1-HOUR

NIC_DHEC_S_NH1519_07M.ADI
NIC_DHEC_S_NH1519_07M.ADO
NIC_DHEC_S_NH1519_07M.bpi
NIC_DHEC_S_NH1519_07M.pro
NIC_DHEC_S_NH1519_07M.sum
NIC_DHEC_S_NH1519_07M.sup
CONFIDENTIAL_DHEC_S_SNH1519_07M-ALL-H4.PLT

SO2 3-HOUR

NIC_DHEC_S_NT1519_07M.ADI
NIC_DHEC_S_NT1519_07M.ADO
NIC_DHEC_S_NT1519_07M.bpi
NIC_DHEC_S_NT1519_07M.pro
NIC_DHEC_S_NT1519_07M.sum
NIC_DHEC_S_NT1519_07M.sup
CONFIDENTIAL_DHEC_S_SNT1519_07M-ALL-T1.PLT

TRS

NIC_DHEC_TRS_07M.ADI
NIC_DHEC_TRS_07M.out
NIC_DHEC_TRS_07M.bpi
NIC_DHEC_TRS_07M.pro
NIC_DHEC_TRS_07M.sum
NIC_DHEC_TRS_07M.sup
CONFIDENTIAL_DHEC_TRS_07M_1519-ALL-H1.PLT
CONFIDENTIAL_DHEC_TRS_07M_1519-ALL-D1.PLT

H2S

NIC_DHEC_H2S_07M.ADI
NIC_DHEC_H2S_07M.out
NIC_DHEC_H2S_07M.bpi
NIC_DHEC_H2S_07M.pro
NIC_DHEC_H2S_07M.sum
NIC_DHEC_H2S_07M.sup

CONFIDENTIAL_DHEC_H2S_07M_1519-ALL-H1.PLT
CONFIDENTIAL_DHEC_H2S_07M_1519-ALL-D1.PLT

HOUREMIS

NIC_DHEC_S_NHT1519_HOUREMIS.txt

APPENDIX C – NEW-INDY RESPONSES TO COMMENTS

October 27, 2021

John P. Glass Jr.
Bureau of Air Quality, Modeling Section Manager
South Carolina Department of
Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Re: Responses to Corrective Action Plan Air Dispersion Modeling Comments

Dear John:

New-Indy Catawba LLC (New-Indy Catawba) appreciates the South Carolina Department of Health and Environmental Control (SCDHEC or DHEC) and the United States Environmental Protection Agency's (USEPA or EPA) review of the Mill's ambient air dispersion modeling report. As requested in your letter dated October 6, 2021, New-Indy Catawba has updated the ambient air dispersion modeling report and is providing the below responses to each of the comments. The updated modeling report can be downloaded from the link provided by email.

October 6, 2021 Comments from SCDHEC and USEPA:

1. Section 3.2 and Appendix A, TRS and H2S Emissions: The following excepts from the New-Indy Modeling Report provide a brief, general description of how the emissions used in the modeling were calculated:

"The emissions from each test were divided by the pulp production during the test to establish the emissions factor in pounds of H2S and TRS (as H2S) per ton of pulp production. The average emissions factor from the June 2021 tests was multiplied by the future production rates in the February 2021 Title V permit modification request to incorporate Construction Permit DF."

The July 2021 liquid sample results are coupled with the National Council for Air and Stream Improvement (NCASI) wastewater Hydrogen Sulfide Emissions Simulator (H2SSIM) emissions model for H2S emissions from the primary clarifier and the aeration stabilization basin (ASB) and the U.S. EPA WATER9 air emissions model for other sources. The post aeration basin H2S emissions were measured at the outlet of the vent covering the basin. The average emissions from the wastewater treatment system were divided by the average pulp production during the July 2021 tests and multiplied by the future pulp production rate in the February 2021 Title V permit modification request to incorporate Construction Permit DF.

We have been unable to replicate or find calculation examples of the highlighted description above for H2S. We have verified that the maximum emissions listed in the table on page A- 243 were used in the air dispersion model.

- Please provide example calculations to calculate the average and maximum emissions for all the sources.

New-Indy Catawba Response 1A: Example calculations are provided in Appendix A of the Air Dispersion Modeling Report showing development of the H2S and TRS (as H2S) emissions factors and the maximum H2S and TRS (as H2S) emissions. Example calculations are provided for average TRS (as H2S) emissions (not modeled) and the H2S emissions. Note the emissions factor is the same for average and maximum emissions. Also note Appendix A has been revised and the page numbers are different from the August 30, 2021 report. The maximum emissions for H2S and TRS (as H2S) are now listed in Table A-1 of Appendix A of the Air Dispersion Modeling Report.

- Please provide the detailed calculations, spreadsheets, assumptions, supporting documentation, factor derivations, NCASI references and document, justifications as to why the factor is appropriate for the source, etc., for the wastewater fugitives sources on the summary page A-243 of the modeling submittal document. Note that this should also include information on the ditch missing in the modeling that connects the equalization basin (EQLBASIN) with the ditch that empties into the aeration stabilization basin (DITCH1). Note also there appear to be discrepancies between the area used in the emissions calculations and the area of the area sources in the modeling for Ditch0+Splitter, Ditch1, and Ditch2. In addition, the emission rates obtained for Ditch 1 and Ditch 2, using the information provided on pages A-362 and A-364, result in rates that are higher than presented. Please explain all these discrepancies.

New-Indy Catawba Response 1B: Detailed calculations, spreadsheets, assumptions, supporting documentation, factor derivations, NCASI references and justifications are provided electronically and in Appendix A of the Air Dispersion Modeling Report.

There is not a separate open ditch connecting the Equalization Basin (EQ Basin) to Ditch 1. There is, however, a channel along the northern edge of the EQ Basin from the open surface area on the western side of the EQ Basin to Ditch 1 on the eastern end of the EQ Basin. The area of the channel has been added to the surface area of the EQ Basin.

The areas for Ditch 0, Ditch 1, and Ditch 2 in the air dispersion modeling have been revised to more closely match the areas used to calculate the emissions. The modeled emissions rates in grams per second-meter squared are based on the areas used to calculate the emissions. In general, the model source areas appear slightly larger in a visual representation of the model, but the modeled rates are based on the areas used to calculate the emissions.

The emissions rates for Ditch 0, Ditch 1 and Ditch 2 have been revised and are included in Tables A-8, A-11 and A-15, respectively, in Appendix A of the Air Dispersion Modeling Report.

- Please provide a spreadsheet and example calculation detailing how the actual and maximum H2S emissions were calculated for the following sources:

  Recovery Furnace No. 2 and 3
  Smelt Dissolving Tank No. 2 and 3
  Lime Kiln No. 2
  Weak Black liquor Storage Tanks
  Strong Black Liquor Storage Tanks
  White Liquor Storage Tank
  Precipitator Mix Tanks
  Causticizing Area
  Holding Pond

New-Indy Catawba Response 1C: The actual and maximum H2S and TRS (as H2S) emissions were calculated using the emissions factors approved by the SCDHEC Permitting Section during previous Title V Operating Permit and Construction Permit Applications. The emissions calculation spreadsheets, with

an example calculation showing the maximum H2S and TRS (as H2S) emissions for each source, are provided electronically and included in Appendix A of the Air Dispersion Modeling Report. The same example calculations can be followed for average TRS (as H2S) emissions (not modeled) and the H2S emissions. Note the emissions factor is the same for average and maximum emissions.

The actual emissions for the Recovery Furnaces No. 2 and No. 3, Smelt Dissolving Tanks No. 2 and No. 3, and Precipitator Mix Tanks are based on the production during the June 23, 2021 source test of Smelt Dissolving Tanks No. 2 and No. 3. The maximum emissions are based on the maximum production rates listed in the Title V Operating Permit.

The Lime Kiln No. 2 and Causticizing Area actual emissions are based on the actual to maximum production ratio during the Smelt Dissolving Tank source test on June 23, 2021. The maximum emissions are based on the maximum production rates listed in the Title V Operating Permit.

The emissions from the Weak Black Liquor Tanks, Strong Black Liquor Tanks, and White Liquor Tanks are based on the total number of each tank type. The emissions from the weak and strong black liquor tanks collected in the NCG system are excluded from the calculations because the emissions from these tanks are combusted in the No. 1 and No. 2 Combination Boilers. Those emissions are provided in the June 2021 stack test report for the Combination Boilers.

The holding pond emissions are described in the response below. An example calculation is provided in Table A-16 of Appendix A of the Air Dispersion Modeling Report.

- Please justify the emission factor used to estimate emissions from the Holding Pond. This emission factor is referenced as coming from NCASI TB 956, Table 9.12. However: This factor is based on a 62-acre pond. Are any corrections necessary since New- Indy's Holding Pond is about twice the size at 123.62 acres?

The TB explains the derivation of the emission factor. Two of the eleven basins sampled had detections. Mill B's basin had issues with solids and the basin level during the sampling and resulted in a factor of 0.04 g/s and was noted as being lower than expected. Mill T had foul condensates hard piped to ASB#2, somewhat similar to New-Indy. The sampling results yielded an emission factor of 1.0 g/s. Thus, is 0.04 g/s an adequate emission factor to use for the New-Indy Holding Pond?

New-Indy Catawba Response 1D: The 0.04 g/s is an adequate emissions factor for the Holding Pond. Eleven post-aeration basins (i.e., holding or retention ponds) were tested as part of the North Carolina study published by NCASI in Technical Bulletin (TB) 956. Testing at two of the eleven post-aeration basins resulted in reported H2S emissions (all others were not significant based on the screening study results). Based on the site-specific H2SSIM Model results for the New-Indy Catawba ASB, the Holding Pond emissions are assumed to be equal to Mill B reported H2S emissions (0.04 g/s). This H2S rate is consistent with ASB Zones 2 and 3 emissions calculated using H2SSIM (0.040 g/s and 0.024 g/s, respectively). The Holding Pond is aerated and dissolved oxygen levels were measured at an average of 1.1 across the Holding Pond during the July 2021 test, compared to 0.2 measured in ASB Zone 2 and 1.5 in ASB Zone 3.

- Please also provide information detailing how the dimensions of the surface areas were determined and how the areas for the sources in Table 5-4 of the Modeling Report (plus the missing ditch) were calculated. Also, please provide a figure showing each of the area sources, their vertices and dimensions used in the air dispersion model.

New-Indy Catawba Response 1E: Dimensions of the model area sources were based on the free liquid surface areas as documented by the drone images captured on July 8, 2021, one day prior to the ASB testing conducted July 9-11, 2021. Free liquid surface areas were calculated by Geographic Information

Systems (GIS) software using a shapefile boundary of the free water area. Visual representation of the emission model sources were imported into Lakes AERMOD View software and modified to approximate the emissions areas. As an exact match was not possible, the model areas sources represented are slightly larger than the actual emissions sources. As previously detailed, the model emissions rate was based on the area used in the emissions model. A figure showing each of the area sources as set up in the dispersion model is presented in Attachment 1 to this response. A second figure showing the drone image of the ASB as of July 8, 2021 is also included in Attachment 1.

2. **Section 5.3: Air Quality Modeling Results:** No maps or diagrams are provided to show where the maximum modeled concentrations are occurring.

- Please provide maps showing isopleths of the modeling outputs for the SO2, H2S, and TRS modeling results. The maps should clearly show the locations of maximum modeled concentrations.

New-Indy Catawba Response 2: New-Indy Catawba has included maps showing isopleths and maximum concentrations for SO2, H2S, and TRS (as H2S) in the Air Dispersion Modeling Report.

3. **Section 5.3.2: South Carolina Standard No. 8 Results:** For the H2S Modeling, the AERMOD modeling results are only provided for 24-hr average concentrations and compared to the SCDHEC MAAC air toxics standard. For evaluating the ambient H2S monitoring data being collected at the New-Indy Fence line, EPA's action levels are 600 ppb/837 ug/m3 (30-minute) and 70 ppb/98 ug/m3 (7-day rolling average). EPA's regulatory version of AERMOD is not able to provide output for either 30-minute or 7-day rolling averages. However, we request that, in addition to the maximum 24-hr results, AERMOD modeling be provided to compare maximum 1-hour modeled concentrations to the 30-minute action level.

New-Indy Catawba Response 3: New-Indy Catawba has included the maximum 1-hour concentrations as requested for comparison to the EPA 30-minute action level of 837 ug/m3 (600 ppb) in the Air Dispersion Modeling Report.

4. **Emission rates for test results below the method detection limit (MDL):** The emission rates for several sources included in the H2S and TRS modeling are based on stack tests where test runs resulted in values that were below the MDL. SCDHEC and EPA both agree that using a value of zero in the calculations for these situations is inappropriate. We also agree that an appropriate approach is to use an emission rate in the modeling that is derived from the full MDL and request that New-Indy update both the H2S and TRS modeling based on this more conservative approach.

New-Indy Catawba Response 4: New-Indy Catawba used values of one-half the MDL, not a value of zero, for H2S values shown below the MDL in the July 2021 Emissions Test Report, consistent with the EPA policy memorandum included as Attachment 2 to this response. The TRS as H2S values reported in the July 2021 Emissions Test Report were composed of values for the four individual TRS compounds both above and below the MDL, therefore the TRS as H2S emissions were not modeled as a value of zero. New-Indy Catawba does not agree that using the full MDL is appropriate for sources tested with values below the MDL. However, as requested, New-Indy Catawba has revised the Emissions Test Report and the H2S and TRS (as H2S) emissions calculations utilizing the full MDL for the air dispersion modeling analysis. The revised Emissions Test Report was submitted to SCDHEC and EPA on October 5, 2021.

September 10, 2021 SCDHEC Email Comments from Katharine Buckner and New-Indy Catawba Response:

1. Estimates for the Paper Machine No.2 were based on the emission factors calculated for Paper Machine No. 3, which were derived from the June 2021 stack test results. The emission factors for Paper Machine No. 3 were in units of lb/ADTFP/day. However, when these were used for Paper Machine No. 2, it appears the units were changed to lb/ODTP and converted again to lb/ADTFP. Please check and

provide revised calculations, if necessary, for the Paper Machine No. 2 emissions rates. (See page A-242 of the modeling submittal.)

2. Please provide the information necessary to review and verify the emission factors and emission rates for the Post Aeration Basin Vent. (Page A-242)

3. Please verify the stack IDs for the Combination No. 1 and Combination No. 2 Boilers. The Title V OP and application list these as:

Combination Boiler No. 1 – stack ID 2610S2, Combination Boiler No. 2 – stack ID 2610S1

4. We found that there are several parcels inside the fence line for New-Indy which do not appear to be owned by the facility. The parcel data comes from the York County GIS page. Notes in parenthesis are notes from BAQ and were not part of the York County parcel information. Please explain why receptors were not included for these parcels. If the facility does not own them, we request that the modeling be updated to include them.

Parcel 7640000005; Kim Sonya K Kim Eugene S (north side)(large)
Parcel 7640000031; KMS Financial Corporation Shah Rajen Shah Gita (north side)(medium)
Parcel 7640000030; United Steelworkers Union (north side)(medium)
Parcel 7570000001; Leonard Chemical Co Inc (WNW side)(medium)
Parcel 7560000097; Ingram Elaine (WNW side)(small)
Parcel 7590000012; Walker Theodore S Etal. (WNW side)(small)
Parcel 7590000011; Ingram Massey JR Ingram Margaret Ann % Ingram Deborah (WNW side)(small)
Parcel 7590000013.002; Lee Rebekah E (WNW side)(medium)
Parcel 7590000001; Singh Ganesh (WNW side)(small)
Parcel 7590000014; Sacco Alecander (NWN side)(medium)

5. One other item I missed covering in the meeting. I have received the requested pages from NCASI SARA Handbook for the wastewater fugitives. However, please provide any other information to assist in verifying these emission factors/rates.

New-Indy Catawba Response to September 10 Comments: The September 10, 2021 SCDHEC comments and the September 17, 2021 New-Indy Catawba response to SCDHEC's comments are presented in Attachment 3 to this response.

September 14, 2021 SCDHEC Email Comments from John Glass:

I need to clarify the answer to the question during the call concerning where to place receptors on the parcels of land not owned by New Indy. As according to our modeling guidelines, those receptors should be placed at no greater than 50 m spacing at the boundary between the parcels in question and New Indy property. If there are any boundaries that are less than 50 m in length, receptors should be placed at the parcel corners. On the interior of the parcels, the spacing of receptors should be no greater than 100 m. Thus, if a parcel is narrow enough, it may be sufficient for receptors to be placed along the boundaries with none interior to the parcel. Note that contiguous parcels should be treated as one larger parcel (i.e., it is not necessary to place receptors along the interior shared boundaries between these contiguous parcels, but receptors should be placed such that the combined interior is covered by receptors no greater than 100 m apart.

New-Indy Catawba Response to September 14 Comments: Additional model receptors have been placed on outlying parcels of land not owned by New-Indy Catawba in the H2S and TRS as H2S modeling files. No changes were required to the model receptor grid for SO2. The additional receptors are depicted in Figure 5-2 of the Air Dispersion Modeling Report.

September 17, 2021 SCDHEC Comments from John Glass:

We have discovered another issue concerning the H2S/TRS modeling. The area sources that represent the aeration stabilization basin appear to be incomplete. That area has been divided into three separate area sources, which should be fine as long as the appropriate area and emissions have been accounted for. It appears that the area sources are representing those areas where aeration is occurring. However, the area representing the northern portion appears to be incomplete in that there is a large hole on the western side of the upper section. It appears that aeration does occur in that western part of that upper section and should be included within the area source designated as ASB1.

In addition, it appears there is a ditch that connects the equalization basin with the ditch that empties into the aeration stabilization basin that is not included in the modeling.

I have attached a figure from the model for reference that includes the equilibration basin (designated EQLBASIN) the ditch that empties into the aeration stabilization basin (designated as DITCH1) as well as the area sources representing the aeration stabilization basin (ASB1, ASB2, and ASB3).

Please address these issues with the revised modeling you are working on. If you have any questions about this information, please let me know.

New-Indy Catawba Response to September 17, 2021 Comments: The area of the ASB used for the emissions calculations and the air dispersion modeling encompasses the free liquid surface area of the ASB based on drone images captured on July 8, 2021, one day prior to the ASB testing conducted July 9-11, 2021. The western side of the upper section (ASB Zone 1) was filled in with material, so it was excluded from both the emissions calculations and the air dispersion modeling. Attachment 1 of this response shows the free water surface of the ASB on July 8, 2021.

The area of the Equalization Basin (EQ Basin) has been updated to include a channel from the free surface water along the western edge of the EQ Basin across the northern edge to the eastern edge where the EQ Basin meets Ditch 1. The emissions calculations and air dispersion modeling have been updated for the increased surface area to include the channel. Attachment 1 of this response shows the free water surface of the EQ Basin and the channel between the free water surface and Ditch 1.

Please feel free to contact me via phone at 803-981-8010 or email at dan.mallett@new-indycb.com if you have any additional questions.

Sincerely,

Daniel J. Mallett
Environmental Manager

Enclosures

Legend

Plant Boundary

Area Sources

0 250 500 750 m

Aerial imagery obtained from Google Satellite

New-Indy Catawba, LLC
Catawba, SC Mill
Air Dispersion Modeling Analysis

Attachment 1
Area Source Locations

Legend

- Zone 1 Free Water
- Zone 2 Free Water
- Zone 3 Free Water
- Non-operational during IPT
- Aerators Running at Night (5:30 pm - 7:00 am)
- Operational but not included in the model

0 75 150 225 300 m

New-Indy Catawba
Catawba, SC

Attachment 1
Aerator Status during 7/9-11/2021 IPT

Aerial Imagery courtesy of Google Satellite © Maxar Technologies, Orbis Inc, USDA Farm Service Agency, York County Government, SC
Drone Imagery of ASB taken 7/7/2021 courtesy of Arcadis

Interim VOC Measurement Protocol for the Wood Products Industry – July 2007

1.0 Background and Introduction

On July 12, 2006, Mr. William Wehrum, EPA Acting Assistant Administrator, sent a letter to Mr. Timothy G. Hunt, Senior Director, Air Quality Programs, at the American Forest and Paper Association outlining a path forward for the complex issue of measuring and reporting volatile organic compounds (VOCs) in the forest products industry. In this letter, EPA discussed their desire for the forest products industry to report VOCs as the total mass of the individual organic compounds comprising the VOCs to determine major source applicability of federal programs such as NSR and Title V. EPA recognized, however, that the existing test methods fall short of this goal, and that "…*it is impracticable to identify and quantify every compound*…" EPA recognized that it will take some time to develop practical methods to accurately characterize VOC mass in forest products industry emissions. Therefore, EPA endorsed the use of interim VOC measurement approaches to estimate the total mass of VOC emissions while more appropriate methods and additional information are being developed. EPA stated that a "…*reasonable approximation (of total mass) will be sufficient for assessing the applicability of several regulatory programs*." VOC measurements for existing SIP, NESHAPS, and NSPS requirements and permit limits should continue to use the specified methods.

This interim protocol establishes calculation procedures and emission measurement methods to approximate VOC emissions for determining applicability with federal programs (particularly for NSR and Title V) and to establish consistency across state programs for the forest products industry. For purposes of this protocol, "reasonable approximation" of total VOC mass means expressing VOC as propane and requiring individual measurements of methanol and formaldehyde at sources for which these compounds are significant, as listed in Appendix 1. Historically, the forest products industry has reported its VOC emissions in terms of the mass of carbon atoms in the VOC compounds because the analytical methods measured the VOCs in those terms. For many facilities, therefore, this interim protocol will substantially increase the reported total mass of VOCs to be used in applicability determinations.

2.0 Interim Protocol Overview

In general, VOC is to be calculated as Total Hydrocarbons (THC) expressed as propane plus methanol and formaldehyde expressed as compound, minus adjustments. In specific cases THC may be expressed as alpha-pinene and measurement of formaldehyde and methanol may be omitted. Further details are provided in subsequent sections of this protocol.

In an effort to reduce confusion, VOC as measured and calculated by this protocol is referred to as "WPP1 VOC" (Wood Products Protocol 1 VOC). It is suggested that the industry and sampling companies use this terminology to identify VOC measured by this protocol as differentiated from VOC measured by other protocols.

3.0 THC Measurement

EPA Method 25A shall be used for THC measurement with the following specifications or modifications:

- The THC portion of the VOCs shall be expressed as propane.
- For some facilities, in states where it is the current practice, it may be appropriate to report the THC portion of the VOCs as terpenes (as alpha-pinene) rather than propane.
- The reporting basis for VOC should be clearly identified.

4.0 Methanol and Formaldehyde Measurement

Methanol and formaldehyde may be measured by any of the approved methods listed in the Plywood and Composite Panel MACT (40 CFR 63 Subpart DDDD).

- Appendix 1 provides a list of sources for which formaldehyde and methanol testing must be conducted concurrently with VOC testing. For sources not listed, formaldehyde and methanol testing are not required and WPP1 VOC is the THC as propane measurement minus adjustments for non-VOCs.
- Separate measurement methods may be used for formaldehyde and methanol.

5.0 Response Factors

For the purposes of this document, response factor is defined as the Flame Ionization Analyzer (FIA) response divided by the actual compound concentration, both expressed on the same basis, and expressed as a percentage. For example, an EPA Protocol 1 methane gas with a tag value of 300 ppmvd is measured by a FIA as 315 ppmvd expressed as carbon (315 ppmvd expressed as methane or 105 ppmvd as expressed as propane). The response factor is 315/300 = 105%.

This protocol provides the following default response factors:

- Formaldehyde RF = 0%
- Methanol RF = 65%
- Alkanes, alkenes, and arenes RF = 100% (includes methane and ethane)
- Acetone RF = 65%

If desired, instrument specific response factors can be developed and used. Response factors must be developed according to procedures provided in Appendix 3.

Some compounds, such as methane, can have response factors exceeding 100%. For sources for which methane emissions are a significant fraction of the FIA measurement, the testing company may determine a response factor for methane. Similarly, if methanol represents a relatively large fraction of WPP1 VOC, response factor determination may be prudent.

6.0 Treatment of Values Below Detection Limits (Non-Detects)

This section applies to individual compounds required for measurement by this protocol (e.g., methanol) as well as compounds that may be measured as an option. Emissions of these individual compounds may be treated as zero if all of the test runs result in a non-detect measurement and the detection limit is less than or equal to one part per million by volume. Otherwise, non-detect sample runs should be treated as one-half of the detection limit. Compounds measured at concentrations between the detection limit and the practical limit of quantitation should be flagged, but used in calculations as a fully detected value.

7.0 WPP1 VOC Adjustments

This protocol allows users to make adjustments for methanol and non-VOC compounds measured by the FIA. Adjustments are discussed in the following sub-sections. Equations and examples are provided in later sections.

7.1 Adjustments for Methanol

The flame ionization analyzer (FIA) used to measure THC partially measures methanol, resulting in partial “double counting” since methanol is also measured individually according to this protocol. To avoid double-counting, a percentage of the methanol measured independently is subtracted from the THC measurement. The percentage subtracted is either 65% (based on the default response factor provided in Section 5) or a percentage based on an instrument specific response factor. Methanol must be converted to the same basis as THC before subtraction, as shown in Equation 1. This approximately corrects double-counting. The 65% response factor (or instrument specific response factor) represents the amount of methanol measured by the FIA divided by the amount present in the gas stream (both on a carbon basis or common basis).

7.2 Exempt VOCs or non-VOCs

This protocol does not require separate or individual measurement of exempt VOCs or non-VOCs but allows measurement and adjustment for non-VOCs, if desired. Any listed non-VOC compound may be measured independently and the value subtracted from the THC measurement, with appropriate adjustments (proper basis and response factor). An equation and example calculations are provided in later sections of this protocol. Methane, ethane, and acetone are the non-VOCs most commonly sampled in the wood products industry. Methane emissions can sometimes be significant from natural gas fired sources such as direct-natural-gas-fired dryers and RTOs. Typically, acetone and ethane emissions are relatively small, but may vary by source. EPA provides a list of non-VOCs in 40 CFR 51.100(s).

8.0 Calculation of Total VOC Emissions

Total VOC emissions may be calculated by using Equation 1 or by using the "VOC Worksheet." A spreadsheet for conducting the calculations is also available at www.ncasi.org.

WPP1 VOC emissions are calculated by subtracting (b) from (a) where (a) equals the sum of THC expressed as propane, methanol expressed as methanol (if applicable), and formaldehyde expressed as formaldehyde (if applicable) and (b) equals the sum of methanol and all measured non-VOC compounds, all expressed as propane with each compound multiplied by the appropriate response factor. Units for the calculations should be mass basis (lb/hr or other mass emission rate unit such as lb/ODT or grams/second). Concentration units (e.g., ppm) cannot be used. If, according to Section 3, VOCs are expressed as terpenes, then the term "alpha-pinene" may be substituted for "propane" in Equation 1.

Equation 1

$$\text{VOC} = \left[\begin{array}{l} \begin{pmatrix} \text{Method 25A VOC} \\ \textit{expressed as propane} \end{pmatrix} \\ + \begin{pmatrix} \text{Methanol} \\ \textit{expressed as methanol} \end{pmatrix} \\ + \begin{pmatrix} \text{Formaldehyde} \\ \textit{expressed as formaldehyde} \end{pmatrix} \end{array} \right] - \begin{pmatrix} \sum_{i=1}^{n} \left(\text{RF}_i \text{ x Compound}_i \right) \\ \textit{expressed as propane} \end{pmatrix}$$

Where: RF_i = response factor of $_i$th compound (expressed as a decimal)

$Compound_i$ includes methanol and any individually measured, listed, non-VOC compound but does not include formaldehyde.

Units for all expressions are lb/hr or other mass emission rate unit. Units cannot be concentration units.

Methanol and formaldehyde measurements are required only for sources listed in Appendix 1.

Appendix 1

Dryers
Presses
Board Coolers
Blenders
Formers
Pressurized refiners
Fiber washers

(Includes control devices for the above listed process units. For example, a RTO controlling a dryer would be a listed source.)

Appendix 2

(1) VOC Worksheet – Page 7
(2) Sample Calculation – Pages 8-9
(3) Example VOC Worksheet – Page 10

VOC Worksheet

	Run 1	Run 2	Run 3
Measurements – VOC, formaldehyde, and methanol			
lb/hr VOC expressed as propane	1a _____	1a _____	1a _____
lb/hr Formaldehyde expressed as formaldehyde	2b _____	2b _____	2b _____
lb/hr Methanol expressed as methanol	3c _____	3c _____	3c _____
(1a + 2b + 3c) lb/hr	4_____	4_____	4_____
Adjustments - methane, ethane, and methanol			
Methanol expressed as methanol, lb/hr	5a _____	5a _____	5a _____
(5a x 0.458 x RF) lb/hr	6_____	6_____	6_____
Methane expressed as methane, lb/hr	7a _____	7a _____	7a _____
(7a x 0.917 x RF) lb/hr	8_____	8_____	8_____
Ethane expressed as ethane, lb/hr	9a _____	9a _____	9a _____
(9a x 0.976 x RF) lb/hr	10_____	10_____	10_____
Non-VOC compounds other than methane and ethane			
Response factor for non-VOC Compound 1	11a _____	11a _____	11a _____
Molecular weight of non-VOC Compound 1	12b _____	12b _____	12b _____
Number of carbon atoms in non-VOC Compound 1	13c _____	13c _____	13c _____
Mass ER non-VOC Compound 1	14d _____	14d _____	14d _____
[(14d x 13c x 11a x 14.667) ÷ (12b)] =	15_____	15_____	15_____
Response factor for non-VOC Compound 2	16a _____	16a _____	16a _____
Molecular weight of non-VOC Compound 2	17b _____	17b _____	17b _____
Number of carbon atoms in non-VOC Compound 2	18c _____	18c _____	18c _____
Mass ER non-VOC Compound 2	19d _____	19d _____	19d _____
[(19d x 18c x 16a x 14.667) ÷ (17b)] =	20_____	20_____	20_____
Final Calculations			
Enter value from line 4	21_____	21_____	21_____
Enter sum of lines 6, 8, 10, 15 and 20	22_____	22_____	22_____
Subtract line 22 from line 21	23_____	23_____	23_____

Sample Calculation
This example follows the VOC worksheet but provides equations and additional detail. Calculations are provided and discussed, corresponding with the line number on the VOC Worksheet.

Example - A sampling company provides the following results from concurrent sampling at a wood products source:

Compound	Value	Units
VOC as propane (from FIA)	50	lb/hr
Methanol as methanol	10	lb/hr
Formaldehyde as formaldehyde	5	lb/hr
Methane as methane	2	lb/hr
Ethane as ethane	2	lb/hr
Acetone as acetone	2	lb/hr

Acetone, methane, and ethane are listed non-VOCs. The sampling company does not conduct response factor work but uses the default response factors provided in Section 5. Calculate the WPP1 VOC value for this example problem?

Line 4 – This is simply a sum of the mass emission rates of formaldehyde, methanol, and VOCs. 50 lb/hr VOCs as propane + 10 lb/hr methanol as methanol + 5 lb/hr formaldehyde as formaldehyde = 65 lb/hr.

Line 6 – In order for the methanol to be subtracted from the FIA THC measurement, methanol must first be converted to a propane basis. This can be done by using Equation 2 as shown below:

Equation 2

$$\text{Mass}_{\text{VOC expressed as X}} = \text{Mass}_{\text{VOC expressed as Y}} \text{ x} \left(\frac{\text{molecular weight of X}}{\text{molecular weight of Y}} \right) \text{x} \left(\frac{\text{number of carbon atoms in compound Y}}{\text{number of carbon atoms in compound X}} \right)$$

For this example converting 10 lb/hr of methanol, measured as methanol, to a mass rate of methanol expressed as propane yields 4.89 lb/hr of methanol expressed as propane as shown below.

$$\text{methanol}_{\text{expressed as propane}} = 10 \text{ lb/hr methanol}_{\text{expressed as methanol}} \text{ x} \left(\frac{44}{32} \right) \text{x} \left(\frac{1}{3} \right)$$

$$= 4.89 \text{ lb/hr methanol}_{\text{expressed as propane}}$$

This value requires a second adjustment since less than 100% of the methanol responds in a FIA. The response factor set by this protocol is 65%.

0.65 x 4.89 = 2.98 lb/hr methanol expressed as propane

Line 8 – Methane must be converted to a propane basis prior to adjustment. Equation 2 may be used as shown below. A response factor adjustment is not needed for methane.

$$\text{methane}_{\text{expressed as propane}} = 2\ \text{lb/hr methane}_{\text{expressed as methane}}\ \text{x}\left(\frac{44}{16}\right)\text{x}\left(\frac{1}{3}\right)$$

$$= 1.83\ \text{lb/hr methane}_{\text{expressed as propane}}$$

Line 10 – Ethane must be converted to a propane basis prior to adjustment. Equation 2 may be used as shown below. A response factor adjustment is not needed for ethane.

$$\text{ethane}_{\text{expressed as propane}} = 2\ \text{lb/hr ethane}_{\text{expressed as ethane}}\ \text{x}\left(\frac{44}{30}\right)\text{x}\left(\frac{2}{3}\right)$$

$$= 1.95\ \text{lb/hr ethane}_{\text{expressed as propane}}$$

Lines 15 and 20 - For this example, two non-VOC compounds were included – acetone and methyl acetate. The example assumes the sampling company developed response factors of 65% for both compounds. Equation 2 is used, followed by a response factor correction, as shown below.

Line 15 -

$$\text{acetone}_{\text{expressed as propane}} = 2\ \text{lb/hr acetone}_{\text{expressed as acetone}}\ \text{x}\left(\frac{44}{58.1}\right)\text{x}\left(\frac{3}{3}\right)$$

$$= 1.52\ \text{lb/hr acetone}_{\text{expressed as propane}}$$

This value requires a second adjustment since the example response factor for acetone is 65%.

0.65 x 1.52 = 0.98 lb/hr acetone expressed as propane

Line 20 – Not required for this example problem.

Line 21 – This is the sum of VOCs as propane, formaldehyde, and methanol and is copied from Line 4. For this example the value is 65 lb/hr.

Line 22 – The sum of lines 6, 8,10, 15 and 20 is the sum of the adjustments. 2.98 + 1.83 + 1.95 + 0.98 = 7.75 lb/hr of VOCs that may be adjusted or subtracted from the total from Line 4.

Line 23 – The adjustments are subtracted from Line 21 to provide the adjusted Total VOC value. 65 – 7.75 **= 57.3 lb/hr of VOCs.**

Example VOC Worksheet

	Run 1	Run 2	Run 3
Measurements – VOC, formaldehyde, and methanol			
lb/hr VOC expressed as propane	1a ____50___	1a _____	1a _____
lb/hr Formaldehyde expressed as formaldehyde	2b ____5____	2b _____	2b _____
lb/hr Methanol expressed as methanol	3c ____10___	3c _____	3c _____
(1a + 2b + 3c) lb/hr	4____65__	4_____	4_____
Adjustments - methane, ethane, and methanol			
Methanol expressed as methanol, lb/hr	5a ____10___	5a _____	5a _____
(5a x .458 x 0.65) lb/hr	6___2.98_	6_____	6_____
Methane expressed as methane, lb/hr	7a ____2____	7a _____	7a _____
(7a x 0.917 x 1.0) lb/hr	8___1.83_	8_____	8_____
Ethane expressed as ethane, lb/hr	9a ____2____	9a _____	9a _____
(9a x 0.976 x 1.0) lb/hr	10__1.95_	10_____	10_____
Non-VOC compounds other than methane and ethane			
Response factor for non-VOC Compound 1	11a ___65%__	11a _____	11a _____
Molecular weight of non-VOC Compound 1	12b ___58.1_	12b _____	12b _____
Number of carbon atoms in non-VOC Compound 1	13c ____3___	13c _____	13c _____
Mass ER non-VOC Compound 1	14d ____2___	14d _____	14d _____
[(14d x 13c x 11a x 14.667) ÷ (12b)] =	15__0.98_	15_____	15_____
Response factor for non-VOC Compound 2	16a _____	16a _____	16a _____
Molecular weight of non-VOC Compound 2	17b _____	17b _____	17b _____
Number of carbon atoms in non-VOC Compound 2	18c _____	18c _____	18c _____
Mass ER non-VOC Compound 2	19d _____	19d _____	19d _____
[(19d x 18c x 16a x 14.667) ÷ (17b)] =	20_____	20_____	20_____
Final Calculations			
Enter value from line 4	21__65___	21_____	21_____
Enter sum of lines 6, 8, 10, 15 and 20	22__7.75_	22_____	22_____
Subtract line 22 from line 21	23__57.3_	23_____	23_____

Appendix 3

Procedure for Response Factor Determination for the Interim VOC Measurement Protocol for the Wood Products Industry

Introduction and Definitions -

The Interim VOC Measurement Protocol for the Wood Products Industry (referred to herein as the Protocol) provides the following default response factors (RFs):

- Formaldehyde RF = 0%
- Methanol RF = 65%
- Alkanes, alkenes, and arenes RF = 100% (includes methane and ethane)
- Acetone RF = 65%

These default response factors may be used in Protocol calculations or, if desired, response factors can be determined for methane, ethane, methanol, and acetone by following the measurement procedures established in this Appendix. EPA Protocol 1 gases with air as a diluent must be used for response factor determination for methane and ethane. If methanol and acetone EPA Protocol 1 gases can be obtained with air as a diluent, they may also be used. Otherwise, methanol and acetone standard gases must be prepared in Tedlar or Teflon sampling bags using air as a diluent. Flame ionization analyzers (FIAs) used to determine response factors must be calibrated with propane in an air diluent. If response factors are determined, then the WPP1 VOC testing must be conducted with the same Flame Ionization Analyzer (FIA) calibrated with the same type hydrocarbon gas used during response factor determination and the gas must be in an air diluent. (If response factors are determined, VOC calibration gases with nitrogen diluents cannot be used either during RF determination or during testing.)

Procedures for preparing challenge gases and determining response factors, other than those provided in this Appendix (e.g. permeation tubes or syringe pumps), may be used if approved by the administrator or regulatory authority.

For the purposes of this document:

Response factor is defined as the flame ionization analyzer (FIA) response divided by the “actual compound concentration”, both expressed on the same basis, and expressed as a percentage. Examples are provided near the end of this Appendix.

Actual compound concentration is defined as the tag or bottle value of the EPA Protocol 1 gas or as the concentration of gas in a Tedlar or Teflon sampling bag. The concentration in the bag is determined by dividing the mass of compound by the volume of total dry gas in the bag and using appropriate conversion factors. Examples are provided near the end of this Appendix.

Challenge gas is defined as the gas used to determine a response factor. Challenge gases must be purchased or prepared as specified in this Appendix.

Determining Response Factors Using EPA Protocol 1 Gases – Prior to introduction of the Protocol 1 challenge gas, the VOC analyzer (Flame Ionization Analyzer or FIA) must be successfully calibrated according to EPA Method 25A procedures with EPA Protocol 1 gases in an air diluent. Once calibrated, the instrument may be challenged with the challenge gas to determine the response factor of the compound in the gas. The challenge-compound concentration should be near the mid range of the FIA span and may not be less than 30% of span or more than 70% of span. For example, a 150 ppmvd methane gas (expressed as methane or as carbon and equivalent to 50 ppmvd expressed as propane) would be an appropriate challenge gas for use on an instrument calibrated with propane with a 0 to 100 ppmvd span (expressed as propane).

The EPA Protocol 1 challenge gas must be introduced to the analyzer in the same manner as the calibration gases were introduced. The gas must be introduced until the response stabilizes and remains stable for at least a five-minute period. One-minute averages or less must be recorded during the five-minute period. Any single one-minute average within the five-minute period must not differ from the overall five-minute-average by more than 10%. The five-minute average concentration of the challenge gas is used to determine the response factor as defined in the Introduction and Definitions section of this document. Documentation of challenge gas introduction and measurement as well as the FIA calibration must be included in the VOC test report.

Determining Response Factors Using Standard Gases Prepared in Tedlar or Teflon Sampling Bags – Methanol and acetone standard gases may be prepared in Tedlar or Teflon sampling bags using the procedures specified in EPA Method 18. Three or more separate bag samples must be prepared. Air must be used as the diluent gas. The mass of methanol or acetone and the volume of gas in the bag must be measured and recorded in the VOC report. Measurements of the compound mass and gas volume must be made by devices traceable to a primary standard and the sampling company must describe how the volume of gas and the mass of compound was measured or determined. The means of introducing the compound into the bag must also be described in the test report.

If the compound is introduced as an aqueous solution the amount of water introduced may not exceed water vapor saturation in the air at 50°F (a moisture content of about 1.2%). The testing company must report the concentration of compound in the water, the amount of solution introduced into the bag, measures taken to assure that all water was converted into water vapor within the bag, the amount of dry air in the bag, and the moisture content of the final gas in the bag. (Because the bag will contain water vapor, the FIA reading will be on a wet basis. The actual compound concentration should also be calculated on a wet basis or both values should be converted to a dry basis before calculation of the response factor. See “Actual Compound Concentration – Example 2” below.)

Prior to introduction of the Teflon or Tedlar bag challenge gas, the VOC analyzer (Flame Ionization Analyzer or FIA) must be successfully calibrated according to EPA Method 25A procedures with EPA Protocol 1 gases in an air diluent. Propane in nitrogen gases cannot be used. Once calibrated, the instrument may be challenged with the bag challenge gas to determine the response factor of the compound in the gas. The challenge-compound concentration should be near the mid range of the FIA span and may not be less than 30% of span or more than 70% of span (measured on an equivalent basis). For example, a 230 ppmvd methanol gas would be appropriate for use on an instrument calibrated with propane with a 0 to 100 ppmvd span (expressed as propane). (The example assumes a 65% response factor for methanol.)

The Tedlar or Teflon sampling bag challenge gas must be introduced to the analyzer in the same manner as the calibration gases. The gas must be introduced until the response stabilizes. Three or more separate bag samples must be introduced. A single bag sample may not be introduced three times. The results from the three or more samples must be averaged and the average used to determine the response factor as defined in the Introduction and Definitions section of this Appendix. The results from any one of the bag samples may not vary from the average by more than 10%. Documentation must be provided to show that the FIA reading stabilized on each of the three bag samples. Additionally, the VOC test report must contain a discussion of the means by which bag challenge gases and FIA calibration gases were introduced to the FIA. Evidence of a successful FIA calibration must also be provided.

Applicability – The response factors developed via the above described procedures may be used in conjunction with the Interim VOC Measurement Protocol for the Wood Products Industry only for the instrument on which the response factors were determined. The response factors determined via these procedures are not valid for the instrument if (1) adjustments have been made that would affect the fuel or air flow rates to the instrument, (2) the instrument has undergone repair, or (3) adjustments to the instrument other than those required for calibrations have been made. Further, the determined response factors may only be used within 30 days of the date on which they were determined. Response factors may be, but are not required to be, determined in the field during the testing event. Response factors determined in the laboratory may be determined under better controlled conditions but response factors determined in the field may be determined under conditions more representative of the testing.

Response factors determined via these procedures are not applicable to FIAs calibrated with nitrogen diluent gases.

Example Calculations Intended to Illustrate the Definitions of "Response Factor" and "Actual Compound Concentration"

Actual Compound Concentration – Example 1

Fifteen milligrams of methanol is introduced into a Tedlar bag containing 45.0 liters of dry air (corrected to 68°F and one atmosphere). The 15 mg of methanol occupies 0.01 liters at standard conditions. The total Tedlar bag volume is 45.01 liters. The actual compound concentration is

$$\left(\frac{15\text{ mg methanol}}{45.0113\text{ liters}}\right)\text{x}\left(\frac{24.05\text{ liters}}{\text{gram - mole}}\right)\text{x}\left(\frac{\text{gram - mole}}{32.04\text{ grams methanol}}\right)\text{x}\left(\frac{\text{gram}}{1000\text{ mg}}\right)=0.00025=250\text{ ppmvd methanol}$$

Actual Compound Concentration – Example 2

Four milliliters of a 5,000 mg/L solution of methanol in water is introduced into a Tedlar bag containing 50 liters of dry air (corrected to 68°F and one atmosphere). The water and 20 mg of methanol

introduced occupy 0.53 and 0.015 liters, respectively. The total Tedlar bag volume is 50.55 liters. The moisture content of the bag is 1.05%. The actual compound concentration is

$$\left(\frac{20\text{ mg methanol}}{50.545\text{ liters}}\right)\text{x}\left(\frac{24.05\text{ liters}}{\text{gram - mole}}\right)\text{x}\left(\frac{\text{gram - mole}}{32.04\text{ grams methanol}}\right)\text{x}\left(\frac{\text{gram}}{1000\text{ mg}}\right)=297\text{ ppmvw methanol}$$

Note that the methanol concentration is expressed on a wet basis.

Response Factor – Example 3

A FIA calibrated with propane in air measures an EPA Protocol 1 methane in air cylinder gas with a tag value of 150 ppmvd, as methane. The FIA measures the gas as 57 ppmvd, expressed as propane, or 171 ppmvd expressed as methane. The response factor is the measured concentration divided by the actual compound concentration or 171/150 = 114%.

Response Factor – Example 4

A FIA calibrated with propane in air measures the Tedlar bag in Example 2 above. The actual compound concentration is 297 ppmvw, expressed as methanol or expressed as carbon. The FIA measures the bag gas as 59 ppmvw, expressed as propane, or 177 ppmvw expressed as carbon. The response factor is the measured compound concentration divided by the actual compound concentration or 177/297 = 59.6%.

NEW INDY
CONTAINERBOARD

September 17, 2021

Katharine Buckner
Bureau of Air Quality- Air Permitting Division
South Carolina Department of
Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Re: Response to DHEC comments on New-Indy Catawba, LLC's Air Dispersion Modeling Analysis

Dear Katharine:

New-Indy Catawba LLC (New-Indy Catawba) submits this information in response to questions and comments by the South Carolina Department of Health and Environmental Control (DHEC) received via electronic mail on September 10, 2021. The DHEC questions pertain to the air dispersion modeling submittal from New-Indy Catawba to DHEC on August 30, 2021. The DHEC questions and New-Indy Catawba responses are discussed below.

DHEC Question 1: Estimates for the Paper Machine No.2 were based on the emission factors calculated for Paper Machine No. 3, which were derived from the June 2021 stack test results. The emission factors for Paper Machine No. 3 were in units of lb/ADTFP/day. However, when these were used for Paper Machine No. 2, it appears the units were changed to lb/ODTP and converted again to lb/ADTFP. Please check and provide revised calculations, if necessary, for the Paper Machine No. 2 emissions rates. (See page A-242 of the modeling submittal.)

New-Indy Catawba Response 1: The Paper Machine No. 2 estimated emissions calculations have been updated to remove the conversion from oven dried ton pulp to air dried ton pulp. The emissions calculations will be re-submitted following resolution of the Paper Machine No. 3 emission factors for TRS as H_2S presented in the Weston stack test report.

DHEC Question 2: Please provide the information necessary to review and verify the emission factors and emission rates for the Post Aeration Basin Vent. (Page A-242)

New-Indy Catawba Response 2: The emission factors and emission rates from the Post Aeration Basin Vent for hydrogen sulfide (H_2S) were calculated using weekly field measurements taken from the outlet vent during July 2021. New-Indy Catawba used a Scentroid TR8+ PolluTracker manufactured by IDEC Canada Inc. to measure emissions at the outlet vent. The lowest detection threshold of the instrument is 7 ppb. The measured H_2S concentrations in the outlet vent ranged between 38 and 68 ppb. The measured H_2S concentrations were converted into emissions rates based on the vent flow rate and emissions factors based on the pulp production on the days the

vent was sampled. Those calculations were previously submitted to DHEC. The Scentroid Operation and Maintenance Manual is attached.

DHEC Question 3: Please verify the stack IDs for the Combination No. 1 and Combination No. 2 Boilers. The Title V OP and application list these as:

Combination Boiler No. 1 – stack ID 2610S2, Combination Boiler No. 2 – stack ID 2610S1

New-Indy Catawba Response 3: The updated Title V application forms submitted on March 6, 2017, renumbered the stack IDs for Combination Boiler No. 1 to 2610S1 and for Combination Boiler No. 2 to 3710S2 to eliminate confusion caused by the previous numbering convention. This change is not reflected in the July 1, 2019 Title V permit. However, it should be noted the air dispersion modeling analyses do not use the Title V stack ID numbers for Combination Boilers No. 1 and No. 2.

DHEC Question 4: We found that there are several parcels inside the fence line for New-Indy Catawba which do not appear to be owned by the facility. The parcel data comes from the York County GIS page. Notes in parenthesis are notes from BAQ and were not part of the York County parcel information. Please explain why receptors were not included for these parcels. If the facility does not own them, we request that the modeling be updated to include them.

Parcel 7640000005; Kim Sonya K Kim Eugene S (north side)(large)

Parcel 7640000031; KMS Financial Corporation Shah Rajen Shah Gita (north side)(medium)

Parcel 7640000030; United Steelworkers Union (north side)(medium)

Parcel 7570000001; Leonard Chemical Co Inc (WNW side)(medium)

Parcel 7560000097; Ingram Elaine (WNW side)(small)

Parcel 7590000012; Walker Theodore S Etal. (WNW side)(small)

Parcel 7590000011; Ingram Massey JR Ingram Margaret Ann % Ingram Deborah (WNW side)(small)

Parcel 7590000013.002; Lee Rebekah E (WNW side)(medium)

Parcel 7590000001; Singh Ganesh (WNW side)(small)

Parcel 7590000014; Sacco Alecander (NWN side)(medium)

New-Indy Catawba Response 4: The model receptor grid for H_2S and total reduced sulfur (TRS) has been updated to include the parcels within the New-Indy Catawba property boundary listed above, following the additional guidance received from DHEC via email on September 14, 2021. The model receptor grid for sulfur dioxide (SO_2) does not require updates because the parcels listed above are outside the New-Indy Catawba ambient air boundary used for the SO_2 modeling. The United States Environmental Protection Agency (USEPA or EPA) also contacted New-Indy

Catawba on September 13, 2021, to clarify that EPA modelers are reviewing the August 30, 2021 submission and will be contacting DHEC to coordinate any additional comments regarding the modeling submittal. New-Indy Catawba will resubmit the H_2S and TRS modeling analyses following resolution of additional EPA and DHEC comments.

DHEC Question 5: One other item I missed covering in the meeting. I have received the requested pages from NCASI SARA Handbook for the wastewater fugitives. However, please provide any other information to assist in verifying these emission factors/rates.

New-Indy Catawba Response 5: The figure below shows the free water surface of the Equalization Basin and the active disposal areas of the #4 Sludge Lagoon. These areas were used to determine the acreage for calculating the H_2S emissions using the emissions factor from the NCASI SARA Handbook.

Additionally, earlier today New-Indy Catawba received a follow-up request related to the wastewater fugitive emissions. That request, and any additional comments or information requests received from DHEC or USEPA, will be addressed in a revised modeling report to be completed once all requested revisions have been communicated to New-Indy Catawba.

Please feel free to contact me if you have any additional questions.

Sincerely,

Daniel J. Mallett
Environmental Manager