

From: BIERY, PAUL KIM <PAUL.BIERY@scana.com>

Sent: Tuesday, October 15, 2019 4:31 PM

To: Cassidy, Greg <cassidga@dhec.sc.gov>

Cc: cthompson@thompsonsc.com <cthompson@thompsonsc.com>; Berresford, James <berresjl@dhec.sc.gov>; Taylor, G. Ken <taylorgk@dhec.sc.gov>; Siron, Don <sirondl@dhec.sc.gov>; Porter, Henry <porterhj@dhec.sc.gov>; Preston, Heather <PRESTOHS@dhec.sc.gov>; HAMILTON, J. HAGOOD JR (SEG Services - 6) <JHAMILTON@scana.com>; Rusty Contrael <rcontrael21@outlook.com>; Reece, Myra <reecemc@dhec.sc.gov>; Dennis A Slade (Services - 6) <dennis.a.slade@dominionenergy.com>; Congaree Riverkeeper <crk@congareriverkeeper.org>; EFFINGER, THOMAS (SEG Services - 6) <THOMAS.EFFINGER@DOMINIONENERGY.COM>; Amy Cappellino (Amy.e.Cappellino@usace.army.mil) <Amy.e.Cappellino@usace.army.mil>; RAFTERY, JOHN (SEG Services - 6) <JRAFTERY@scana.com>; Peter.B.McKoy@usace.army.mil <Peter.B.McKoy@usace.army.mil>; CADENA, JOHN A (SEG Services - 6) <JCADENA@scana.com>; HARRELL, MORGAN L (SEG Services - 6) <MORGAN.HARRELL@scana.com>; ASBILL, KIM EVERITT (SEG Services - 6) <KIM.ASBILL@scana.com>

Subject: Congaree River Project Update - QTR 3 2019

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Mr. Cassidy,

The attached document serves to provide an update (Third Quarter, 2019) of significant activities/milestones to SCDHEC and stakeholders as to the progress of Dominion Energy's permitting efforts of the stakeholder-developed Modified Removal Action (MRA).

As always, please do not hesitate to reach out to me if you have any questions, or if any item in the attached document requires clarification.

Paul Biery
Senior Project Manager

400 Otarre Parkway, Cayce, SC 29033
Mailing Address: 220 Operation Way, MC C221, Cayce, SC 29033
O: 803-217-5016 M: 803-465-7736



CONGAREE RIVER PROJECT

COLUMBIA, SOUTH CAROLINA

QUARTERLY REPORT – THIRD QUARTER 2019

SIGNIFICANT ACTIVITIES/MILESTONES

<u>Date</u>	<u>Milestone/Event</u>
July 2, 2019	DESC completed a routine river inspection and outfall inspection. No problems or issues were observed.
July 10, 2019	Paul Biery (DESC) called Amy Cappellino (USACE) and discussed the status of the Corps' review of the April 16, 2019 "No-Rise Certification" submittal and inform the Corps of DESC's intention to forward the April 16, 2019 "No-Rise" Submittal to the local floodplain coordinators, while the submittal was still under review by the Corps. A. Cappellino informed P. Biery that the Corps had not yet completed their internal discussions regarding the submittals.
July 10, 2019	DESC provided the Second Quarterly Report for 2019 to SCDHEC, the Stakeholders and the USACE. Included with this email submittal was a projected schedule of significant/milestone activities with targeted completion dates.
July 12, 2019	DESC provided the Hydraulic Backwater Analysis / 100-Year No-Rise Certification for the stakeholder-developed MRA cofferdam footprint to the local floodplain coordinators. A link to the computer-generated calculations and results was included in the email. SCDHEC and the USACE were copied on this email. In the cover text of the email, DESC indicated that the submittal was "still under review by the USACE" and that it was being provided to the local floodplain coordinators "in an effort to facilitate the review process".
July 17, 2019	DESC received the "Cellular Sheetpile Cofferdam Evaluation" prepared by WSP.
July 22, 2019	DESC received an approval letter from SCDHEC (dated July 19, 2019) regarding the Fourth Semi-Annual Surface Water Assessment Report. The Department also accepted the recommendation to modify the sampling program to an annual basis.
July 23, 2019	Paul Biery (DESC) and Lucas Berresford (SCDHEC) discussed the overall USACE permit submittal plan and current schedule.
July 24, 2019	Paul Biery (DESC) sent an email to Lucas Berresford (SCDHEC) with DESC's written permit submittal plan attached to the email, in preparation for a conference call to discuss in detail on this same date. On the conference call, the schedule delays and possible alternative approaches to the permit submittal plan were discussed. No decisions were made to adjust the approach presented in the permit submittal plan at this time.

- July 30, 2019 DESC provided the Cellular Sheetpile Cofferdam Evaluation completed by WSP to R. Nairn Ph.D., PE (Baird, [a Canadian company with experience with cellular sheet pile design and installation]) for peer review and comment.
- July 31, 2019 Paul Biery (DESC) called the floodplain coordinators [Heather Brown - Richland County, Chris Stone - Lexington County, Ali Kahn – City of Columbia and Maria Lamm – SCDNR] and left voicemails with each individual. DESC also discussed the status of the USACE review of the “No-Rise Certification” with Amy Cappellino (USACE) and DESC suggested a potential meeting during the week of August 19, 2019.
- August 1, 2019 Ali Kahn (City of Columbia, Flood Plain Coordinator) called Paul Biery (DESC) to discuss the USACE “No-Rise Certification” submittal of April 16, 2019 that was forwarded to Mr. Kahn on July 12, 2019. Mr. Kahn confirmed that once the USACE provides concurrence with the “No-Rise Certification”, then Mr. Kahn could provide the City’s approval. Mr. Kahn also recommended that the “other” floodplain coordinators (Richland and Lexington Counties) be kept informed.
- August 7, 2019 Greg Cassidy (SCDHEC) sent an email to Paul Biery (DESC) inquiring if there was “any update or progress on comments from the Corps”? A follow-up discussion occurred between G. Cassidy and P. Biery on August 12, as a result of the following developments.
- August 8, 2019 Paul Biery (DESC) received an email from Amy Cappellino (USACE) that contained 6 questions/comments regarding the April 16, 2019 submittal and supplemental Figures 5-8 provided on June 13, 2019.
- August 9, 2019 Heather Brown (Floodplain Manager - Richland County) provided an email response to Paul Biery (DESC) acknowledging receipt of the “Engineering No-Rise Certification” and that it was currently under review by the County Engineer. Ms. Brown also noted that “it appears the project is located in the City of Columbia’s jurisdiction”.
- August 12, 2019 Paul Biery (DESC) provided an initial response to the email from Amy Cappellino (USACE) received on August 8th regarding the Corps questions/comments on the “Engineering No-Rise Certifications” and “Backwater Analysis”.
- August 12, 2019 Paul Biery (DESC) provided an update to Greg Cassidy (SCDHEC) via a telephone call regarding recent communications with the USACE and the local floodplain coordinators.
- August 12, 2019 Paul Biery (DESC) provided a response to Heather Brown (Floodplain Manager - Richland County) informing her that DESC has also been in contact with Ali Kahn at the City of Columbia regarding the “Engineering No-Rise Certification”.
- August 13, 2019 DESC completed a routine river inspection. No problems or issues observed.



- August 13, 2019 Tom Effinger (DESC) forwarded an email [from August 12th between DESC and the USACE listed above] to Brice McKoy (USACE) to facilitate a conference call to discuss the “Engineering No-Rise Certifications” and “Backwater Analysis”.
- August 19, 2019 Paul Biery (DESC) provided an invitation to SCDHEC to participate in a conference call scheduled for August 22 with the USACE to discuss the “Engineering No-Rise Certifications” and “Backwater Analysis”.
- August 21, 2019 Paul Biery (DESC) forwarded a copy of the August 12, 2019 email containing DESC’s interim response to the USACE comments received on August 8th.
- August 22, 2019 Tom Effinger (DESC) sent an email to the USACE that provided DESC’s “overall objectives” for the impending conference call. The objectives included obtaining FEMA/ Floodplain Manager approval for the “Engineering No-Rise Certifications” and the “Backwater Analysis”.
- August 22, 2019 DESC conducted a conference call with the USACE and SCDHEC to discuss the “Engineering No-Rise Certifications” and “Backwater Analysis” dated April 12, 2019.
- September 3, 2019 DESC completed a routine river inspection. No problems or issues observed.
- September 5, 2019 DESC provided a detailed response to the comments received from the USACE on August 8th, 2019 and subsequent conference call. The email response included 5 attachments:
1. A letter dated, August 28, 2019 that provided detailed responses to the USACE’s comments.
 2. The “Lower Flow Sensitivity Analysis”
 3. A Figure depicting various river flow elevations considered in the studies
 4. The engineering “No-Rise Certification” for Richland County
 5. The engineering “No-Rise Certification” for Lexington County
- SCDHEC and various Floodplain Managers were copied on this email.
- September 6, 2019 Amy Cappellino (USACE) left a voicemail with Paul Biery (DESC) confirming receipt of the email from September 5, 2019 and the multiple attachments.
- September 18, 2019 DESC met with various members of the Midlands Business Leadership Group (MBLG) including Mayor Benjamin to discuss the current status of the Congaree River Project.

Dominion Energy South Carolina, Inc.
Congaree River Site
Columbia, South Carolina

Projected Schedule - Revised 09-26-19
Third Quarter - 2019

	Item Description		Targeted Completion Date	Notes
	Cofferdam "Riverside" Design/Permit Associated Work	1	Backwater Analysis / No-Rise Certification	3/31/2019
2		DHEC Public Meeting - Present Stakeholder-Developed MRA	4/2/2019	
3		USACE - Backwater / No Rise Analysis Review	7/30/2019	04/16/19 - Submitted; 08/08/19 DESC received 6 initial comments from USACE; 08/12/19 DESC provided interim responses; 08/22/19 - conference call discussing submittal & comments; 09/05/19 - DESC provided detailed responses to USACE comments, including providing the "Lower Flow Analysis" and re-submitting the "No-Rise Certifications"
4		Rock-filled Cofferdam vs. Cellular Sheetpile Evaluation	6/30/2019	On going. Draft evaluation completed 07/17/19. Cellular approach will likely reduce the overall footprint of cofferdam structure which may reduce/eliminate adverse effects associated with a rock-filled cofferdam. DESC is proceeding with permitting the rock-filled cofferdam at this point, while maintaining the option for the cellular sheetpile approach since it will likely be "less-obtrusive" than a rock-filled cofferdam - no permitting time will be lost. However, issues such as constructability, leakage, and removal of a cellular cofferdam remain to be considered / addressed.
			11/30/2019	After evaluation, selection of option to be included in permit submittal
5		Local Floodplain Review/Approvals	7/30/2019	06/03/19 - Provided Initial Notification to Floodplain Coordinators and advised of future submittal 07/12/19 - Provided the Backwater / No Rise Analysis to the local Floodplain Coordinators, via email and copied the USACE and SCDHEC 09/05/19 - Copied on the email response to USACE of this date, attachments included: USACE comment/response letter, Lower Flow Evaluation, Figure - Depicting River Level Scenarios, "No-
6		Develop Lower Flow Sensitivity Study	8/31/2019	Submitted on 09/05/19, awaiting USACE Review/Comment
7		USACE - Lower Flow Sensitivity Study Review	9/30/2019	Submitted on 09/05/19, awaiting USACE Review. Developed in an effort to expedite the schedule/review time, acknowledging that modifications to the modeling parameters may be necessary based on the USACE's review of the Backwater/No Rise Analysis.
8		Berm Height Evaluation/Final Cofferdam Design	11/30/2019	Need to confirm the final cofferdam approach to present in the permit application submittal, currently updating the 2014 Rock-filled cofferdam conceptual design drawings
9	Cofferdam Leakage Estimates/Stability Analysis	11/30/2019	Started 09/13/19 for rock-filled cofferdam. Developed in an effort to expedite the schedule/review time, acknowledging that modifications to the modeling parameters may be necessary based on the USACE's review of the Backwater/No Rise Analysis.	

	Item Description (Assumes Limited Access is Available)		Targeted Completion Date	Notes
	"Landside" Design/Permit Associated Work	10	Preliminary Utility Clearances	12/30/2019
11		Design Access Route	1/31/2020	To be completed AFTER "riverside" design/permit work has been "deemed sufficient"
12		Unnamed Tributary #2 Creek Crossing Design	1/31/2020	To be completed AFTER "riverside" design/permit work has been "deemed sufficient"

	Item Description		Targeted Completion Date	Notes
	"Completed" Permit Submittal / Review	13	Develop (Revise) Support Plans	3/31/2020
14		USACE - Joint Application Submittal	3/31/2020	Revised date for "completed" application submittal
15		USACE Application Review/Approval	10/1/2020	Receive USACE Permit (Assumed 6-month review period)
16		USACE UXO Review/Approval	10/1/2020	
17		SHPO Review/Approval	10/1/2020	
18		USCG Navigation Plan Review/Approval	5/30/2021	Can not be submitted until the USACE Permit has been Received

	Item Description		Targeted Completion Date	Notes
	MRA Work Plan - SCDHEC & Other Approvals	19	Final MRA Work Plan Submittal to SCDHEC	5/31/2020
20		Final DHEC Review/Approval (Includes Public Meeting)	11/30/2020	
21		Disposal Approvals	1/31/2021	
22		Access Agreement(s)	3/31/2020	
23		City Landside Approvals	5/31/2020	
24		Access Improvements Contractor Procurement	7/31/2020	
25		Central and South Access Improvements	12/31/2020	

	Item Description		Targeted Start Date	Targeted Completion Date
	Remediation Field Activities	26	Remediation Contractor Procurement	1/1/2021
27		Site Operations Set-up	4/1/2021	5/1/2021
28		Implementation Phase 1 (Area 1A)	5/1/2021	10/31/2021
29		Implementation Phase 2 (Area 1B)	5/1/2022	10/31/2022
30		Implementation Phase 3 (Area 2)	5/1/2023	10/31/2023
31		Implementation Phase 4 (Contingency)	5/1/2024	10/31/2024
32		Restoration	11/1/2024	12/31/2024
33		Documentation Report		6/30/2025

- Completed
 - In Progress