



STATEMENT OF BASIS
Page 1 of 3
 BAQ Air Permitting Division

Company Name:	Silfab Solar	Permit Writer:	David D. Nasol
Agency Air Number:	2440-0293	Date:	July 30, 2024
Permit Number:	EX-50000162 v1.0		

DATE APPLICATION RECEIVED: June 25, 2024

PROJECT DESCRIPTION

This project is a construction permit exemption notification regarding construction of four (4) 8.0 MMBtu/hr natural gas-fired boilers. The boilers are considered exempt from construction permitting since their maximum heat input capacity is less than 10 MM Btu/hr each and burn only virgin fuels per SC Regulation 61-62.10, Section II(B)(2)(b).

- Phase 1 Boiler (BLR-1) 8.0 MMBtu/hr
- Phase 1 Boiler (BLR-2) 8.0 MMBtu/hr
- Phase 2 Boiler (BLR-3) 8.0 MMBtu/hr
- Phase 2 Boiler (BLR-4) 8.0 MMBtu/hr

FACILITY DESCRIPTION

SIC CODE: 3674 – Semiconductors and Related Devices

NAICS CODE: 334413 – Semiconductor and Related Device Manufacturing

Silfab Solar is a proposed facility for the manufacturing of solar cells and panels. The facility will be located in Fort Mill, South Carolina.

EMISSIONS

Emission factors were obtained from AP-42, Chapter 1.4, Tables 1.4-1 and 1.4-2 for Natural Gas Combustion.

PROJECT EMISSIONS						
Pollutant	Uncontrolled		Controlled		PTE	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
PM	0.2384	1.0443	--	--	0.2384	1.0443
PM ₁₀	0.2384	1.0443	--	--	0.2384	1.0443
PM _{2.5}	0.2384	1.0443	--	--	0.2384	1.0443
NO _x	3.373	13.7412	--	--	3.373	13.7412
SO _x	0.0188	0.0824	--	--	0.0188	0.0824
CO	2.6353	11.5426	--	--	2.6353	11.5426
VOC	0.1725	0.7558	--	--	0.1725	0.7558
Lead	0.0000	0.000069	--	--	0.0000	0.000069
Single Highest HAP: Hexane	0.0565	0.2476	--	--	0.0565	0.2476
Total HAP	0.0592	0.2592	--	--	0.0592	0.2592



STATEMENT OF BASIS
Page 2 of 3
BAQ Air Permitting Division

Company Name:	Silfab Solar	Permit Writer:	David D. Nasol
Agency Air Number:	2440-0293	Date:	July 30, 2024
Permit Number:	EX-50000162 v1.0		

REGULATIONS

Applicable - Standard No. 1 (*Emissions from Fuel Burning Operations*)

These boilers meet the definition of fuel burning operations defined in S.C. Regulation 61-62.1 and are subject to this Standard. The boilers are subject to the 20% opacity limit per Section I; the 0.6 lb PM/million Btu limit per Section II; and the 2.3 lb SO₂/million Btu limit per Section III.

ID	PM Allowable (lb/hr)	SO ₂ Allowable (lb/hr)	Uncontrolled Emissions		Controlled Emissions	
			PM (lb/hr)	SO ₂ (lb/hr)	PM (lb/hr)	SO ₂ (lb/hr)
BLR-1	4.8	18.4	0.0596	0.0047	--	--
BLR-2	4.8	18.4	0.0596	0.0047	--	--
BLR-3	4.8	18.4	0.0596	0.0047	--	--
BLR-4	4.8	18.4	0.0596	0.0047	--	--

Not Applicable - Standard No. 5.2 (*Control of Oxides of Nitrogen (NOx)*)

Per Section I(B)(1), these sources are exempt from this Standard since each boiler has a rated input of less than 10 million Btu/hr.

40 CFR 60 and 61-62.60 (*New Source Performance Standards (NSPS)*)

Not Applicable - Subpart Dc (*Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units*)

The boilers are not subject to this Standard because they have a rated heat capacity of less than 10 million Btu/hr.

40 CFR 63 and 61-62.63 (*National Emission Standards for Hazardous Air Pollutants (NESHAP) for Source Categories*)

Not Applicable - Subpart JJJJJ (*National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources*)

Per 40 CFR §63.11195(e), the boilers are not subject to this Subpart since they are gas-fired boilers as defined in 40 CFR §63.11237.

AMBIENT AIR STANDARDS REVIEW

Not Applicable - Standard No. 2 (*Ambient Air Quality Standards*)

The boilers are exempt from Standard No. 2 modeling since it is equipment as listed in the Bureau of Air Quality Permit Exemption List (2022).

Not Applicable - Standard No. 8 (state only) (*Toxic Air Pollutants*)

Per 2.3.1(1) of Modeling Guidelines for Air Quality Permits (2018), the boilers are exempt from Standard No. 8 modeling since they are fuel-burning source that burn only virgin fuel.



Company Name:	Silfab Solar	Permit Writer:	David D. Nasol
Agency Air Number:	2440-0293	Date:	July 30, 2024
Permit Number:	EX-50000162 v1.0		

PUBLIC NOTICE

A public notice was not required for this project.

SUMMARY

No permit is required.