



SOFIX LLC

2800 RIVERPORT ROAD, CHATTANOOGA, TN 37406
PHONE (423) 624 - 3500

Safety is the foundation for building a quality product

January 9, 2023

Mr. Alan Frazier P.E.
Chattanooga- Hamilton County
Air Pollution Control Bureau
6125 Preservation Drive
Chattanooga, TN 37416-3638

Dear Mr. Frazier

Attached is an application to add a diesel-powered fire protection boost pump to our existing permit. The installation time frame is estimated to be late 2nd quarter or early 3rd quarter 2023 based on the 30-week lead time from order placement to delivery.

The unit will be located within the Sofix facility site perimeter and housed in a building that will be constructed around it once the unit is installed. The final site location is still in the planning phase of this project.

If you have any questions or comments, I can be reached at 423.624.3500 ext. 106.

Sincerely,

Sean Reynolds
EHS Manager
Sofix LLC

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Sofix Permit application for boost pump 2023
Attachments

→ *Below threshold requirement for an installation permit.*

Major Source Operating Permit Application
Facility Identification

Form 70-01

1	Facility Name	Sofix LLC		For APCB use only	Company No.
	Owner's Name if different from the facility name:	SAME			
	Mailing Address:	2800 RIVERPORT ROAD			
	City, State, Zip Code	CHATTANOOGA, TN 37406			
2	Facility Location (St/Rd/Hwy)	2800 RIVERPORT ROAD			
	County Name	Hamilton			
	City, State, Zip Code	CHATTANOOGA, TN 37406			
	Telephone # (including area code)	423-624-3500			
3	Facility's Primary Activity and all Applicable SIC Codes:	2865: CYCLIC ORGANIC CRUDES AND INTERMEDIATES AND ORGANIC DYES AND PIGMENTS.			
4	Contact Person for this Facility	SEAN REYNOLDS			
	Title	EHS MANAGER			
	Telephone # (including area code)	423.624.3500 EXT. 106			
5	If Facility is located in an area designated as "Nonattainment", indicate the pollutant(s) for the designation.	Not Applicable			
6	List all air pollution permits issued to the sources contained in this application [identify all permits with most recent permit numbers and emission source reference numbers listed on the permit(s)]	PART 70 PERMIT NUMBER 47-065-5345			
7	Permit Requested for:	<input type="checkbox"/> Initial Application to Operate <input checked="" type="checkbox"/> Modification <input type="checkbox"/> Revision (Administrative Amendments)		<input type="checkbox"/> Relocation to operate <input type="checkbox"/> Permit renewal to operate	
8	Owner's registered agent's name	N/A			
	Registered agent's address for service of process				
	Telephone # (including area code)				
9	Is this facility subject to the provisions governing prevention of accidental releases of Hazardous air contaminants contained in Section 112(r)(7) of the Clean Air Act?			<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	If yes, are you in compliance with the provisions of Section 112(r)(7) of the Clean Air Act?			<input type="checkbox"/> Yes	<input type="checkbox"/> No
10	Page Number	Revision Number	Date of Revision		

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**Major Source Operating Permit Application
Fuel Burning Equipment**

Form 70-04

1	Facility Name	Sofix LLC								
2	Type of fuel burning equipment: <i>(A form 70-04 must be completed for each piece of fuel burning equipment.)</i>	Diesel powered boost pump for fire suppression system								
3	Fuel burning equipment identification #	FS-01								
4	Stack ID (or flow diagram point identification)	FSS-01								
5	Fuel burning equipment description:	Diesel engine for boost pump – fire suppression system								
6	Year of installation or last modification of fuel burning equipment:	2023 <i>RECEIVED CHATT / HAMILTON CO. JAN 11 2023</i>								
7	Furnace type:	N/A <i>AIR POLLUTION CONTROL BUREAU</i>								
8	Manufacturer:	Clarke Engines								
	Model Number	Clarke Engine JU6H-UFADNG; 190 HP, @ 3000 RPM								
	Year of Manufacture:	2022								
9	a. Type(s) of Fuel	b. Rated Capacity in Million BTU/HR input	c. Type of Firing	Fuel Consumption			f. Percent Content		g. Heating Content of Fuel	(%) Excess Air
				d. Average	d. Maximum	e. Annual	Sulfur	Ash		
	Primary: Normal operating fuel(s)	Diesel Fuel								
	Standby #1: Fuel(s) used in emergency only									
Standby #2: Fuel(s) used in emergency only										
10	If emissions from this fuel burning equipment are controlled for compliance, specify the type of control:	N/A								
11	If emissions from this fuel burning equipment are monitored for compliance, specify the type of monitoring:	N/A								
12	Location of this fuel burning equipment in UTM coordinates:	North				East				
		To be determined				TBD				
13	Normal operating schedule	Manufacturer recommended operation				Hours/Day	0.25			
						Days/Week	1			
						Days/Year	52			
14	Describe any fugitive emissions associated with this process, such as outdoor storage piles, open conveyors, material handling operations, etc. (Attach a separate sheet if necessary.)	None								
15	Page Number	Revision Number					Date of Revision			

EPA Tier 1-3 nonroad diesel engine emission standards, g/kWh (g/bhp-hr)

JA

Note: (g per hr / 454 g per pound)

(12.5 hr/yr)

	horsepower	<i>g/kWh</i>	<i>g/bhp-hr</i>	g/hr	#/Hr	Annual PTE non emergency use	Annual PTE based on 100 exempt hours
CO	190	<i>3.5</i>	<i>3.7</i>	703	1.5485	19.3557	154.8458
HC	190		<i>0</i>	0	0.0000	0.0000	0.0000
NMHC+Nox	190	<i>4.0</i>	<i>0-3.0</i>	0	0.0000	0.0000	0.0000
NoX	190		<i>6.9</i>	1311	2.8877	36.0958	288.7665
PM	190	<i>0.20</i>	<i>0.22</i>	41.8	0.0921	<u>1.1509</u>	<u>9.2070</u>
			Total emissions		4.5282	56.6024	452.8194

NFPA recommended run time = 15 minutes per week x 52 weeks = 12.5 hours per year
 Exempt non emergency use = 100 hours per year

Clarke Engine

JU6H-UFADNG; 190 HP, 3000 RPM

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Use AP-42 Table 3.3-1 for VOC.
Use AP-42 Table 1.3-1 for SOx (0.0015 % S)