EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 40039 and PSD-TX-925

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

		AIR CONTAMINANTS DATA		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
Case I: Turbine and Duct Burner firing Natural Gas				
A. Hourly Emissions				
GTDB1	Turbine/HRSG No. 1 (GE Frame 7FA Turbine with 550 MMBtu/hr Duct Burner)	NO_X	106.0	
		CO		106.0
		PM_{10}	24.8	
		VOC	16.2	
		SO_2	33.5	
		H_2SO_4	3.3	
GTDB2	Turbine/HRSG No. 2 (GE Fram 7FA Turbine with 550 MMBtu/hr Duct Burner)	NO_X	106.0	
		CO	106.0	
		PM_{10}	24.8	
		VOC	16.2	
		SO_2	33.5	
		H_2SO_4	3.3	
GTDB3	Turbine/HRSG No. 3 (GE Frame 7FA Turbine with 550 MMBtu/hr Duct Burner)	NO_X	106.0	
		CO		106.0
		PM_{10}	24.8	
		VOC	16.2	
		SO_2	33.5	
		H_2SO_4	3.3	

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
B. Annual Emissions				
GTDB 1, 2, and 3	Turbines/HRSG Nos. 1, 2, and 3 (Three GE Frame 7FA Turbines with Duct Burner firing) Annual rates based on total combined turbine/HRSGUs emissions.	NO_X	1143.2	
		CO	1097.2	
		PM_{10}	300.9	
		VOC		155.1
		SO_2	152.4	
		H_2SO_4		15.8
Case II: Turbine firing No. 2 Fuel Oil (720 Hours) and Duct Burner firing Natural Gas				
A. Hourly Emissions				
GTDB1	Turbine/HRSG No. 1 (GE Frame 7FA Turbine with 550 MMBtu/hr Duct Burner)	NO_X	379.0	
		CO		150.5
		PM_{10}		49.8
		VOC	27.3	
		SO_2	106.4	
		H_2SO_4	10.3	
GTDB2	Turbine/HRSG No. 2 (GE Frame 7FA Turbine with 550 MMBtu/hr Duct Burner)	NO_X	379.0	
		CO		150.5
		PM_{10}		49.8
		VOC	27.3	
		SO_2	106.4	
		H_2SO_4	10.3	
GTDB3	Turbine/HRSG No. 3 (GE Frame 7FA Turbine with	NO_X	379.0	
		CO		150.5

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
	550 MMBtu/hr Duct Burner)	PM_{10}		49.8
		VOC	27.3	
		SO_2	106.4	
		H_2SO_4	10.3	

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
B. Annual Emissions				
GTDB 1, 2, and 3	Turbines/HRSG Nos. 1, 2, and 3 (Three GE Frame 7FA Turbines with Duct Burner firing) Annual rates based on total combined turbine HRSGUs emission.	NO_X	1414.2	1134.8
		CO		328.0
		PM_{10}		164.4
		VOC		244.8
		SO_2		25.5
		H_2SO_4		
Black Start Generators (Annual Emissions Based on 100 Hours per Year Operation)				
GEN 1	Black Start Generator No. 1 (Caterpillar 3516A 1,750kW)	NO_X	58.7	2.94
		CO	7.60	0.38
		PM_{10}	0.43	0.022
		VOC	0.29	0.01
		SO_2	0.86	0.04
GEN 2	Black Start Generator No. 2 (Caterpillar 3516A 1,750kW)	NO_X	58.7	2.94
		CO	7.60	0.38
		PM_{10}	0.43	0.022
		VOC	0.29	0.01
		SO_2	0.86	0.04
GEN 3	Black Start Generator No. 3	NO_X	58.7	

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
	2.94 (Caterpillar 3516A 1,750 kW) 0.38	CO	7.60	
		PM_{10}	0.43	0.022
		VOC	0.29	0.01
		SO_2	0.86	0.04
GEN 4	Black Start Generator No. 4	NO_X	58.7	
	2.94 (Caterpillar 3516A 1,750 kW) 0.38	CO	7.60	
		PM_{10}	0.43	0.022
		VOC	0.29	0.01
		SO_2	0.86	0.04
GEN 5	Black Start Generator No. 5	NO_X	58.7	
	2.94 (Caterpillar 3516A 1,750 kW) 0.38	CO	7.60	
		PM_{10}	0.43	0.022
		VOC	0.29	0.01
		SO_2	0.86	0.04
GEN 6	Black Start Generator No. 6	NO_X	58.7	
	2.94 (Caterpillar 3516A 1,759 kW) 0.38	CO	7.60	
		PM_{10}	0.43	0.022
		VOC	0.29	0.01
		SO_2	0.86	0.04
OILTNK	Fuel Oil Tank	VOC	1.15	5.05
FUELFUG	Fugitives (4)	VOC	5.68	1.18

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.
(2) Specific point source name. For fugitive sources use area name or fugitive source name.
(3) VOC - volatile organic compounds as defined in 30 Texas Adminsitrative Code Section 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - particulate matter, suspended in the atmosphere, including PM_{10}.
PM_{10} - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
CO - carbon monoxide
H_2SO_4 - sulfuric acid
(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

24 Hrs/day 7 Days/week 52 Weeks/year or 8,760 Hrs/year

Dated ___