

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 73647

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**
Hourly Emission Rate for Each HTF Heater				
HTR (1-8)	Heat Transfer Fluid Heaters 272 MMBtu/hr/each	NO _x	3.68	-
		CO	4.29	-
		VOC	1.31	-
		SO ₂	3.81	-
		PM ₁₀	1.77	-
		NH ₃	1.43	-
Combined Annual Emission Rate Cap For All 8 HTF Heaters				
HTR (1-8)	Heat Transfer Fluid Heaters 14,296,320 MMBtu/yr/combined	NO _x	-	46.46
		CO	-	92.93
		VOC	-	34.31
		SO ₂	-	6.08
		PM ₁₀	-	46.46
		NH ₃	-	37.54
FWP1 (4)	Diesel Firewater Pump 482-hp	NO _x	8.05	0.30
		CO	1.56	0.06
		VOC	0.27	0.01
		SO ₂	0.99	0.04
		PM ₁₀	0.35	0.01
FWP2 (4)	Diesel Firewater Pump 482-hp	NO _x	8.05	0.30
		CO	1.56	0.06
		VOC	0.27	0.01
		SO ₂	0.99	0.04
		PM ₁₀	0.35	0.01
EGEN (4)	Diesel Emergency Generator 3,604-hp	NO _x	48.11	1.32
		CO	5.86	0.16
		VOC	1.07	0.03

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		SO ₂	8.76	0.24
		PM ₁₀	0.40	0.01
TANK1	Main Diesel Storage 33,600 gallon	VOC	0.33	<0.01
TANK2	Gen Engine Day Tank 5,000 gallon	VOC	0.09	<0.01
TANK3	Fire Pump Day Tank 800 gallon	VOC	0.06	<0.01
TANK4	Fire Pump Day Tank 800 gallon	VOC	0.06	<0.01
FUG (5)	Process Fugitives	VOC	0.42	1.84
FUG-NH ₃ (5)	Ammonia Fugitives	NH ₃	0.38	1.67

(1) Emission point identification - either specific equipment designation or emission point number from a plot plan.

(2) Specific point source names. For fugitive sources, use an area name or fugitive source name.

(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

PM₁₀ - particulate matter equal to or less than 10 microns in diameter

CO - carbon monoxide

NH₃ - ammonia

(4) Emission rates are based on 75 hour per year (hr/yr) each for EPNs: FWP1, FWP2 and are based on 55 hr/yr for EPN: EGEN; for maintenance and testing.

(5) 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 8760 Hrs/year

** Compliance with annual emission limits is based on a rolling 12-month period.

Date June 9, 2009