

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

HTR1, HTR2, HTR3, HTR4, HTR5, HTR6, HTR7, and HTR8	HTF Heaters 1 - 8 Heat Transfer Fluid Heaters 227 MMBtu/hr each	NO _x	1.59	-
		CO	3.41	-
		VOC	1.22	-
		SO ₂	3.11	-
		PM ₁₀	1.69	-
		NH ₃	1.43	-

COMBINED ANNUAL EMISSION RATE CAP FOR ALL 8 HTF HEATERS

HTR1 - HTR8 Combined	HTF Heaters 1 - 8 Heat Transfer Fluid Heaters 11,931,120 MMBtu/yr combined	NO _x	-	41.78
		CO	-	89.54
		VOC	-	32.19
		SO ₂	-	5.00
		PM ₁₀	-	44.48
		NH ₃	-	37.54
FWP1 and FWP2 (4) Combined	Diesel Firewater Engines Pump1 and Pump 2 approximately 600-HP each	NO _x	37.20	1.86
		CO	8.02	0.40
		VOC	3.02	0.15
		SO ₂	2.46	0.12
		PM ₁₀	2.64	0.13
EGEN (4)	Diesel Emergency Generator approximately 2,500 kW approximately 3,351HP	NO _x	80.42	4.02
		CO	18.43	0.92
		VOC	2.15	0.11
		SO ₂	8.13	0.41
		PM ₁₀	2.35	0.12

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			lb/hr	TPY**
TANK1, TANK2, TANK3, and TANK4 Combined	Diesel Storage Tanks Combined Emissions	VOC	1.20	0.01
FUG (5)	Fugitives	VOC	0.26	1.13
FUG-NH ₃ (5)	Ammonia Fugitives	NH ₃	0.24	1.01

(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 (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.

CO - carbon monoxide

NH₃ - ammonia

(4) Emission rates are based on 100 hours per year each for EPNs FWP1, FWP2, and 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:

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

_____ Hrs/day ____ Days/week ____ Weeks/year or 8,760 Hrs/year

Dated February 11, 2005