

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 21878

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	Source	Air Contaminant	Emission Rates	
Point No. (1)	Name (2)		Name (3)	lb/hr
	TPY **			
<u>Industrial Gas Production Plant</u>				
PSA-FUG	Pressure Swing Adsorption Unit Fugitives (4)	CO	0.95	4.20
7	HyCO-1 Flare	Upset or Maintenance Use Only		
12	HyCO-2 Flare	Upset or Maintenance Use Only		
A	Fired Gas Preheater A	NO _x	1.92	8.4
		PM	0.48	2.1
		SO ₂	0.81	3.6
		CO	1.15	5.1
		VOC	0.09	0.4
		Ammonia	0.007	0.03
		Cyanide	0.0007	0.003
B	Fired Gas Preheater B	NO _x	1.92	8.4
		PM	0.48	2.1
		SO ₂	0.81	3.6
		CO	1.15	5.1
		VOC	0.09	0.4
		Ammonia	0.007	0.03
		Cyanide	0.0007	0.003
D	Warm Flare	NO _x	6.9	3.2
		CO	142.4	63.7
		SO ₂	1.1	0.5

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY**
E	Cold Flare	Upset or Maintenance Use Only		
F	Plant Fugitives (4)(8)	CO	5.70	25.01
		VOC	0.28	1.2
		PM	0.16	0.02
G	Liquid Oxygen Vaporizer	NO _x (5)	2.04	
		NO _x	1.21	5.3
		PM	0.24	1.1
		SO ₂	0.23	1.0
		CO	0.55	2.4
		VOC	0.05	0.2
H	Wastewater Equalization Tank	VOC	0.002	0.007
		Cyanide	0.001	0.002
		Ammonia	0.020	0.088
		CO	0.14	0.6
I	Temperature Swing Adsorption Driers	CO	0.29	1.3
		Fe(CO) ₅	0.058	0.01
J	MEA Storage Tank (3)	VOC	0.02	0.07
K	HyCO-3 Cooling Tower (8)	PM	2.39	10.45

Peaking Power Plant

GT-1	Gas Turbine No. 1 (6)	NO _x	32.20
		CO	41.80
		VOC	2.40
		PM ₁₀	12.75
		SO ₂	4.29
GT-2	Gas Turbine No. 2 (6)	NO _x	32.20
		CO	41.80
		VOC	2.40

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			lb/hr	TPY**
		PM ₁₀ 12.75 SO ₂ 4.29		
GT-3	Gas Turbine No. 3 (6)	NO _x CO 41.80 VOC 2.40 PM ₁₀ 12.75 SO ₂ 4.29	32.20	
GT-4	Gas Turbine No. 4 (6)	NO _x CO 41.80 VOC 2.40 PM ₁₀ 12.75 SO ₂ 4.29	32.20	
GT 1,2,3,4	Gas Turbines 1-4 (7)	NO _x CO VOC PM ₁₀ SO ₂	50.12 2.92 27.44 8.56	70.40

(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 Title 30 Texas Administrative Code Section 101.1

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

CO - carbon monoxide

PM - particulate matter, suspended in the atmosphere, including PM₁₀

PM₁₀ - 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.

Fe(CO)₅ - iron pentacarbonyl

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

(5) Firing propane (Only used during upset or routine maintenance periods).

(6) Hourly rates are based upon maximum firing case at peak load, approximately 104 percent of base load, except for VOC and CO which are based on turndown case or 75 percent load.

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			<u>lb/hr</u>	<u>TPY**</u>

- (7) Annual emissions are based on the sum of emissions for GT 1-4 at a firing rate of 2,563,000 (MMBtu) per year HHV.
- (8) Previously authorized by Permit by Rule No. 106.261, originally authorized on March 13, 2000 and July 13, 2000.

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

Dated November 8, 2001