

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 5414

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
C-2	A - Turbine Stack	VOC	3.80	6.66
		CO	16.60	29.08
		NO _x	14.80	25.93
		PM ₁₀	<0.01	<0.01
		SO ₂	<0.01	<0.01
H-01	BS and B Regen Heater Stack	VOC	0.01	0.01
		CO	0.03	0.03
		NO _x	0.15	0.13
		PM ₁₀	0.02	0.02
		SO ₂	<0.01	<0.01
H-02	Smalling Heater Stack	VOC	0.11	0.47
		CO	1.37	5.98
		NO _x	5.48	23.91
		PM ₁₀	0.53	2.34
		SO ₂	0.02	0.01
H-07	Propane Regen Heater Stack	VOC	0.02	0.10
		CO	0.13	0.57
		NO _x	0.63	2.74
		PM ₁₀	0.08	0.33
		SO ₂	<0.01	<0.01
H-08	Boiler Stack	VOC	0.04	0.16
		CO	0.20	0.87
		NO _x	0.94	4.12
		PM ₁₀	0.11	0.49
		SO ₂	0.01	0.02

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Emission *	Source	Air Contaminant	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
H-09	Butane Regen Heater Stack	VOC	0.03	0.03
		CO	0.18	0.16
		NO _x	0.87	0.77
		PM ₁₀	0.11	0.09
		SO ₂	<0.01	<0.01
FL-1	Flare Stack	VOC	176.40	196.60
		NO _x	0.54	0.56
		CO	1.08	1.13
FUG-1	Pmt'd. Comp. Leak Fug (4)	VOC	39.99	174.22
LR-1MP	Barge Slip Tubes and Rotary Gauges	VOC	396.76	30.72
LR-1T	Truck Loading and Unloading Connections	VOC	1.48	0.35
LR-2T	Truck Slip Tubes and Rotary Gauges	VOC	340.77	5.70
----- The following emission rates apply as long as C-3 does not exceed 3,500 hr/yr of operation and H-03 and H-04 do not each exceed 4,730 hr/yr operation -----				
C-3	B - Turbine Stack	VOC	3.80	6.66
		CO	16.60	29.08
		NO _x	14.80	25.93
		PM ₁₀	<0.01	<0.01
		SO ₂	<0.01	<0.01
H-03	A Glycol Heater Stack	VOC	0.18	0.41
		CO	2.28	5.38
		NO _x	6.19	14.64
		PM ₁₀	0.89	2.11
		SO ₂	0.04	0.09

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
H-04	B Glycol Heater Stack	VOC	0.18	0.41
		CO	2.28	5.38
		NO _x	6.19	14.64
		PM ₁₀	0.89	2.11
		SO ₂	0.04	0.09

----- The following emission rates apply once C-3 exceeds 3,500 hr/yr of operation or once H-03 and/or H-04 exceed 4,730 hr/yr operation -----

C-3**	B - Turbine Stack	VOC	0.08	0.22
		CO	3.08	8.76
		NO _x	0.56	1.60
		PM ₁₀	0.25	0.71
		SO ₂	0.01	0.03
H-03***	A Glycol Heater Stack	VOC	0.36	1.10
		CO	5.46	16.73
		NO _x	1.63	4.98
		PM ₁₀	0.49	1.51
		SO ₂	0.04	0.12
H-04***	B Glycol Heater Stack	VOC	0.36	1.10
		CO	5.46	16.73
		NO _x	1.37	4.18
		PM ₁₀	0.49	1.51
		SO ₂	0.04	0.12

- (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) PM - total suspended particulate, including PM₁₀
 PM₁₀ - particulate matter less than 10 microns in diameter
 VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 NO_x - total oxides of nitrogen
 SO₂ - sulfur dioxide
 CO - carbon monoxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable

emission rate.

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- * Emission rates are based on and the facilities (except C-3, H-03, and H-04) are limited by the following maximum operating schedule: 8,760 Hrs/year
- ** Emission rates for C-3 are based on and the facility is limited by the following maximum operating schedule: 5,700 Hrs/year
- *** Emission rates for H-03 and H-04 are based on and the facilities are limited by the following maximum operating schedule: 6,130 Hrs/year

Dated _____