

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 16842

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) <u>ton/yr**</u>	Source Name (2)	Air Contaminant Name (3)	Emission Rates*	
				lb/hr
TEGREB1	0.68 MMBtu/hr TEG Regenerator	NO _x	0.07	0.32
		CO	0.06	0.27
		VOC	0.01	0.02
		SO ₂	0.01	0.01
		PM	0.01	0.02
TEGREB2	1.5 MMBtu/hr TEG Regenerator	NO _x	0.16	0.71
		CO	0.14	0.60
		VOC	0.01	0.04
		SO ₂	0.01	0.01
		PM	0.01	0.05
HE1	48 MMBtu/hr Heater	NO _x	5.76	25.23
		CO	4.35	19.05
		VOC	0.28	1.25
		SO ₂	0.03	0.14
		PM	0.39	1.72
HE2	48 MMBtu/hr Heater	NO _x	5.76	25.23
		CO	4.35	19.05
		VOC	0.28	1.25
		SO ₂	0.03	0.14
		PM	0.39	1.72
AHE4	3.93 MMBtu/hr Fired Heater	NO _x	0.42	1.86
		CO	0.36	1.56
		VOC	0.02	0.10
		SO ₂	0.01	0.01
		PM	0.03	0.14

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates*</u>	
			lb/hr	TPY**
HE3	53 MMBtu/hr Heater M3	NO _x	1.31	5.72
			CO 1.83	8.01
			VOC 0.36	1.57
			SO ₂ 0.04	0.17
			PM 0.50	2.17
TEGREB3	3.0 MMBtu/hr Regen Heater M3	NO _x	0.42	1.30
			CO 0.35	1.53
			VOC 0.02	0.10
			SO ₂ 0.01	0.01
			PM 0.03	0.14
FE1	Process/Emergency Flare	NO _x	0.02	0.10
			CO 0.19	0.83
			VOC 0.01	0.04
			SO ₂ 0.04	0.18
FE2	Process/Emergency Flare	NO _x	0.02	0.10
			CO 0.19	0.83
			VOC 0.01	0.04
			SO ₂ 0.04	0.18
FE3	Process/Emergency Flare	NO _x	0.47	2.08
			CO 4.07	17.84
			VOC 0.70	3.06
			SO ₂ 0.02	0.08
FUGP	Process Fugitives (4)	VOC	5.92	25.94
			H ₂ S 0.16	0.29
FUG3	Process Fugitives (4)	VOC	1.65	7.25
			H ₂ S 0.03	0.15

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- (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)
 - NO_x - nitrogen oxides
 - CO - carbon monoxide
 - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - 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.
 - SO₂ - sulfur dioxide
 - H₂S - hydrogen sulfide
- (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:

_____Hrs/day____Days/week____Weeks/year or 8,760 Hrs/year

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

Dated July 31, 2006