

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, sources, and related activities. 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	
			lbs/hour	TPY (4)
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
		PM ₁₀	0.01	0.02
TEGREB2	1.5 MMBtu/hr TEG Regenerator	NO _x	0.16	0.71
		CO	0.14	0.6
		VOC	0.01	0.04
		SO ₂	0.01	0.01
		PM	0.01	0.05
		PM ₁₀	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
		PM ₁₀	0.39	1.72

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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
		PM ₁₀	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	0.1
		SO ₂	0.01	0.01
		PM	0.03	0.14
		PM ₁₀	0.03	0.14
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	0.5	2.17
		PM ₁₀	0.5	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
		PM ₁₀	0.03	0.14
FE1	Process/Emergency Flare	NO _x	0.02	0.10

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		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	0.7	3.06
		SO ₂	0.02	0.08
FUGP	Process Fugitives (5)	VOC	5.92	25.94
		H ₂ S	0.16	0.29
FUG3	Process Fugitives (5)	VOC	1.65	7.25
		H ₂ S	0.03	0.15
ANLYZR	Portable Analyzer	VOC	0.09	0.38
		H ₂ S	<0.01	0.01
FUG4	Compressor Fugitives (5)	VOC	0.12	0.54
		H ₂ S	<0.01	<0.01
MSD	Mole Sieve Vent	VOC	0.04	<0.01
		H ₂ S	<0.01	<0.01
V-1	Blowdown Vent	VOC	8.91	1.52
		H ₂ S	0.32	0.06

- (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 § 101.1

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NO _x	- total oxides of nitrogen
SO ₂	- sulfur dioxide
PM	- total particulate matter, suspended in the atmosphere, including PM ₁₀ and PM _{2.5} , as represented
PM ₁₀	- total particulate matter equal to or less than 10 microns in diameter, including PM _{2.5} , as represented
PM _{2.5}	- particulate matter equal to or less than 2.5 microns in diameter
CO	- carbon monoxide
H ₂ S	- hydrogen sulfide

(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: April 8, 2013