

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 24450 and PSD-TX-1002

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**
25-6901A	Auxiliary Boiler A (6 MMBtu/hr)	CO	0.50	2.16
		NO _x	0.59	2.58
		PM ₁₀	0.05	0.20
		SO ₂	<0.01	0.02
		VOC	0.01	0.05
25-6901B	Auxiliary Boiler B (6 MMBtu/hr)	CO	0.50	2.16
		NO _x	0.59	2.58
		PM ₁₀	0.05	0.20
		SO ₂	<0.01	0.02
		VOC	0.01	0.05
29-1101	SRU Thermal Oxidizer Vent	CO	2.85	12.49
		COS	0.14	0.63
		CS ₂	0.06	0.27
		H ₂ S	0.37	1.60
		NO _x	1.50	6.57
		PM ₁₀	0.11	0.49
		SO ₂ (8)	61.86	270.92
		VOC	0.03	0.13
33-5801	Amine Tank	MDEA	<0.01	<0.01
33-9101	Glycol Tank	TEG	<0.01	<0.01
42-6202A	Inlet Gas Compressor A (800-HP)	CO	6.00	26.27
		NO _x	6.88	30.13
		PM ₁₀	0.30	1.30
		SO ₂	<0.01	0.02
		VOC (5)	2.14	9.39
		Formaldehyde	0.34	1.49

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			lb/hr	TPY**
42-6202B	Inlet Gas Compressor B (800-HP)	CO	6.00	26.27
		NO _x	6.88	30.13
		PM ₁₀	0.30	1.30
		SO ₂	<0.01	0.02
		VOC (5)	2.14	9.39
		Formaldehyde	0.34	1.49
42-6202C	Inlet Gas Compressor C (800-HP)	CO	6.00	26.27
		NO _x	6.88	30.13
		PM ₁₀	0.30	1.30
		SO ₂	<0.01	0.02
		VOC (5)	2.14	9.39
		Formaldehyde	0.34	1.49
42-6202D	Inlet Gas Compressor D (800-HP)	CO	6.00	26.27
		NO _x	6.88	30.13
		PM ₁₀	0.30	1.30
		SO ₂	<0.01	0.02
		VOC (5)	2.14	9.39
		Formaldehyde	0.34	1.49
42-6202E	Inlet Gas Compressor E (600-HP)	CO	3.97	17.38
		NO _x	2.65	11.59
		PM ₁₀	0.22	0.95
		SO ₂	<0.01	0.02
		VOC (5)	1.57	6.86
		Formaldehyde	0.25	1.09
42-6202F	Inlet Gas Compressor F (800-HP)	CO	6.00	26.27
		NO _x	6.88	30.13
		PM ₁₀	0.30	1.30
		SO ₂	<0.01	0.02
		VOC (5)	2.14	9.39
		Formaldehyde	0.34	1.49
FLR1	Low-Pressure Flare	CO	1.01	0.61

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			lb/hr	TPY**
		H ₂ S	<0.01	<0.01
		NO _x	0.51	0.30
		SO ₂	0.04	0.18
		VOC (6)	3.82	2.33
		Benzene	0.05	0.03
		Ethylbenzene	<0.01	<0.01
		n-Hexane	0.51	0.30
		Toluene	0.19	0.11
		Xylenes	0.20	0.12
FLR2	High-Pressure Flare	CO	0.29	1.28
		H ₂ S	<0.01	<0.01
		NO _x	0.15	0.64
		SO ₂	<0.01	<0.01
		VOC (6)	1.08	4.70
		Benzene	0.16	0.69
		Ethylbenzene	<0.01	<0.01
		n-Hexane	0.03	0.11
		Toluene	0.31	1.34
		Xylenes	0.14	0.62
PLANTFUG	Plant Fugitives (4)	COS	<0.01	<0.01
		CS ₂	<0.01	<0.01
		H ₂ S	0.19	0.81
		VOC (7)	1.97	8.62
		Benzene	0.02	0.09
		Ethylbenzene	0.01	0.03
		n-Hexane	0.15	0.66
		MDEA	0.01	0.03
		TEG	0.01	0.03
		Toluene	0.02	0.11
		Xylenes	0.01	0.03
SULFLOAD1	Sulfur Loading	H ₂ S	0.90	0.08

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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) CO - carbon monoxide
COS - carbonyl sulfide
CS₂ - carbon disulfide
H₂S - hydrogen sulfide
MDEA - methyl diethylamine
NO_x - total oxides of nitrogen
PM₁₀ - particulate matter (PM) equal to or less than 10 microns in diameter. Where particulate matter is not listed, it shall be assumed that no particulate matter greater than 10 microns in diameter is emitted.

SO₂ - sulfur dioxide
TEG - triethylene glycol
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
 - (5) VOC rates include formaldehyde emissions.
 - (6) VOC rates include benzene, ethylbenzene, n-hexane, toluene, and xylene emissions.
 - (7) VOC rates include benzene, ethylbenzene, n-hexane, MDEA, TEG, toluene, and xylene emissions.
 - (8) Emissions and sources reviewed and authorized under Permit Number PSD-TX-1002.
- * 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 November 22, 2002