

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 24450

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)	lb/hr	<u>Emission Rates *</u> TPY
29-1101	Thermal Oxidizer Vent	CO	8.77	38.41
		NO _x	1.95	8.54
		PM ₁₀	0.20	0.87
		SO ₂	23.52	98.01
		VOC	5.26	23.05
		TRS	0.20	0.85
42-6201A	Residue Gas Compressor A	CO	4.24	18.59
		NO _x	5.94	26.02
		PM ₁₀	<0.01	<0.01
		SO ₂	<0.01	0.03
		VOC	1.52	6.64
42-6201B	Residue Gas Compressor B	CO	4.24	18.59
		NO _x	5.94	26.02
		PM ₁₀	<0.01	<0.01
		SO ₂	<0.01	0.03
		VOC	1.52	6.64
25-6901A	Aux Boiler A	CO	0.93	4.07
		NO _x	3.72	16.28
		PM ₁₀	0.36	1.59
		SO ₂	0.02	0.07
		VOC	0.07	0.32
25-6901B	Aux Boiler B	CO	0.93	4.07
		NO _x	3.72	16.28
		PM ₁₀	0.36	1.59
		SO ₂	0.02	0.07
		VOC	0.07	0.32
23-3501	Regeneration Gas	CO	0.20	0.89

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Heater	NO _x	0.96	4.22
	PM ₁₀	0.13	0.55
	SO ₂	<0.01	0.03
	VOC	0.04	0.16

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	lb/hr	<u>Emission Rates *</u> TPY
FLR2	High Pressure Flare	CO	1.83	8.00
		NO _x	0.21	0.93
		SO ₂	<0.01	<0.01
		VOC	1.83	8.03
FLR1	Low Pressure Flare	CO	2.60	1.16
		NO _x	1.30	0.58
		SO ₂	0.04	0.19
		H ₂ S	<0.01	<0.01
		VOC	8.85	3.56
33-9101	Glycol Tank	VOC	<0.01	<0.01
33-5901	Amine Tank	VOC	0.81	0.01
33-5801	Amine Tank	VOC	1.34	0.01
33-5802	Amine Tank	VOC	0.02	<0.01
SULFLOAD1	Sulfur Loading	H ₂ S	0.90	0.04
PLANTFUG	Plant Fugitives (4)	VOC	3.99	17.46
		H ₂ S	0.41	1.78
		TRS	<0.01	<0.01

- (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) H₂S - hydrogen sulfide
PM₁₀ - particulate matter less than 10 microns in diameter

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VOC - volatile organic compounds as defined in General Rule 101.1

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

CO - carbon monoxide

TRS - total reduced sulfur compounds

- (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 Hrs/year 8,760

Dated_____