

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 20418/PSD-TX-787M2

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.

CONTAMINANTS DATA			AIR	
Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
EP-1	CM-1 Reciprocating Engine	NO _x	8.26	36.18
		CO	8.81	38.59
		VOC	1.10	4.82
		SO ₂	0.01	0.05
		PM	0.19	0.84
EP-2	CM-2 Reciprocating Engine	NO _x	8.26	36.18
		CO	8.81	38.59
		VOC	1.10	4.82
		SO ₂	0.01	0.05
		PM	0.19	0.84
EP-3	CM-3 Reciprocating Engine	NO _x	8.26	36.18
		CO	8.81	38.59
		VOC	1.10	4.82
		SO ₂	0.01	0.05
		PM	0.19	0.84
EP-4	CM-4 Reciprocating Engine	NO _x	8.26	36.18
		CO	8.81	38.59
		VOC	1.10	4.82
		SO ₂	0.01	0.05
		PM	0.19	0.84
EP-5	CM-5 Reciprocating Engine	NO _x	8.26	36.18
		CO	8.81	38.59
		VOC	1.10	4.82

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SO ₂	0.01	0.05
PM	0.19	0.84

AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	Emission	Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
EP-6	CM-6 Reciprocating Engine	NO _x	4.46	19.54
		CO	8.92	39.07
		VOC	0.59	2.60
		SO ₂	0.01	0.03
		PM	0.10	0.46
EP-7	CM-7 Reciprocating Engine	NO _x	4.46	19.54
		CO	8.92	39.07
		VOC	0.59	2.60
		SO ₂	0.01	0.03
		PM	0.10	0.46
EP-8	CM-8 Reciprocating Engine	NO _x	4.46	19.54
		CO	8.92	39.07
		VOC	0.59	2.60
		SO ₂	0.01	0.03
		PM	0.10	0.46
EP-9	Heater	NO _x	1.56	6.83
		CO	1.04	4.56
		VOC	0.13	0.57
		SO ₂	0.03	0.11
		PM	0.29	1.25
EP-10	Emergency Flare	Emergency only		
EP-11	SRU Incinerator	NO _x	0.43	1.88
		CO	2.50	10.95
		VOC	<0.01	<0.01

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		SO ₂	38.50	168.63
		H ₂ S	0.04	0.18
		CS ₂	0.01	0.04
		COS	<0.01	0.01
EP-11	SRU Incinerator (5)	SO ₂	72.46	6.35

AIR

CONTAMINANTS DATA

<u>Emission</u> *	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>
EP-12	Tank Truck Loading	VOC	34.98	0.06
EP-13	Auxiliary Boiler	NO _x	0.23	0.99
		CO	0.05	0.20
		VOC	0.01	0.05
		SO ₂	<0.01	0.01
		PM	0.01	0.05
EP-14	Emergency Diesel Generator	NO _x	8.85	0.89
		CO	0.72	0.07
		VOC	0.23	0.02
		SO ₂	0.80	0.08
		PM	0.98	0.10
WT-2	Amine Wastewater Tank	VOC	0.21	0.003
WT-3	Slop Oil Tank	VOC	0.10	0.005
WT-4	MDEA Wastewater Tank	VOC	0.24	0.006
FUG	Fugitive (4)	VOC	18.36	80.42
		H ₂ S	0.30	1.29

(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 General Rule 101.1

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

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PM - particulate matter including particulate matter less than 10
microns in diameter
CO - carbon monoxide
H₂S - hydrogen sulfide
CS₂ - carbon disulfide
COS - carbonyl sulfide

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Emission rates for SRU Incinerator for those times when the TGPU is down and the SRU continues to process acid gas (limited to 175 hrs. per year on 12-month rolling basis) as outlined in Special Condition No. 10.

* 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_____