

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

20418 AND 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.

## AIR CONTAMINANTS DATA

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

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EP-6	CM-6 Reciprocating Engine	NO <sub>x</sub>	4.46	19.54
		CO	8.92	39.07
		VOC	0.59	2.60
		SO <sub>2</sub>	0.01	0.03
		PM	0.10	0.46

## AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
EP-7	CM-7 Reciprocating Engine	NO <sub>x</sub>	4.46	19.54
		CO	8.92	39.07
		VOC	0.59	2.60
		SO <sub>2</sub>	0.01	0.03
		PM	0.10	0.46
EP-8	CM-8 Reciprocating Engine	NO <sub>x</sub>	4.46	19.54
		CO	8.92	39.07
		VOC	0.59	2.60
		SO <sub>2</sub>	0.01	0.03
		PM	0.10	0.46
EP-9	Heater	NO <sub>x</sub>	1.56	6.83
		CO	1.04	4.56
		VOC	0.13	0.57
		SO <sub>2</sub>	0.03	0.11
		PM	0.29	1.25
EP-10	Emergency Flare	Emergency only		
EP-11	SRU Incinerator (5)	NO <sub>x</sub>	0.43	1.88
		CO	2.50	10.95
		VOC	<0.01	<0.01
		SO <sub>2</sub>	72.46	317.37
		H <sub>2</sub> S	0.04	0.18
		CS <sub>2</sub>	0.01	0.04
		COS	<0.01	0.04
EP-11	SRU Incinerator (6)	NO <sub>x</sub>	0.43	1.88
		CO	2.50	10.95

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		VOC	<0.01	<0.01
		SO <sub>2</sub>	38.50	168.63
		H <sub>2</sub> S	0.04	0.18
		CS <sub>2</sub>	0.01	0.04
		COS	<0.01	0.01
EP-12	Tank Truck Loading	VOC	34.98	0.06
EP-13	Auxiliary Boiler	NO <sub>x</sub>	0.23	0.99
		CO	0.05	0.20
		VOC	0.01	0.05
		SO <sub>2</sub>	<0.01	0.01
		PM	0.01	0.05

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
EP-14	Emergency Diesel Generator	NO <sub>x</sub>	8.85	0.89
		CO	0.72	0.07
		VOC	0.23	0.02
		SO <sub>2</sub>	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 <sub>2</sub> 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<sub>x</sub> - total oxides of nitrogen

SO<sub>2</sub> - sulfur dioxide

PM - particulate matter including PM10

CO - carbon monoxide

H<sub>2</sub>S - hydrogen sulfide

CS<sub>2</sub> - 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 shall remain effective until the tail gas cleanup unit is installed and operational or September 25, 1994, whichever comes first.
- (6) Emission rates reflect addition of tail gas cleanup unit and become effective no later than September 25, 1994.

\* 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\_\_\_\_\_