

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 49007 and PSD-TX-1014

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	Pilot Plant Flare	SO <sub>2</sub>	435.27	1487.05
		H <sub>2</sub> S 3.03	10.36	
		CS <sub>2</sub> 2.15	7.34	
		COS 0.34	1.15	
		CO 159.63	699.04	
		HCN 0.28	1.25	
		C <sub>2</sub> H <sub>2</sub> 5.44	23.81	
		NO <sub>x</sub> 25.96	113.72	
		PM <sub>10</sub> 0.42	1.83	
26	Process Bag Filter	SO <sub>2</sub>	0.15	0.51
		H <sub>2</sub> S 0.23	0.80	
		CS <sub>2</sub> 0.29	0.98	
		COS 0.04	0.15	
		CO 9.40	41.18	
		HCN 0.02	0.10	
		C <sub>2</sub> H <sub>2</sub> 0.42	1.83	
		NO <sub>x</sub> 0.03	0.15	
		PM <sub>10</sub> 8.33	40.00	
27	Clean-Up Bag Filter	PM <sub>10</sub>	4.17	20.00
19	Feedstock Oil Preheater (0.9 MMBtu/hr)	VOC	0.005	0.02
		NO <sub>x</sub>	0.09	0.39
		CO 0.07	0.32	
		SO <sub>2</sub> 0.001	0.002	
		PM <sub>10</sub> 0.006	0.03	

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			lb/hr	TPY**
28	Oxygen Preheater (0.5 MMBtu/hr)	VOC	0.003	0.01
		NO <sub>x</sub>	0.05	0.21
		CO	0.04	0.18
		SO <sub>2</sub>	<0.01	0.001
		PM <sub>10</sub>	0.004	0.02
29	Small Storage Tank	VOC	0.01	<0.01
30	Large Storage Tank	VOC	0.01	<0.01

(1) Emission point identification - either specific equipment designation or emission point number from a plot plan.

(2) Specific point source names. For fugitive sources, use an area name or fugitive source name.

(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

NO<sub>x</sub> - total oxides of nitrogen

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

PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>.

PM<sub>10</sub> - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.

CO - carbon monoxide

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

CS<sub>2</sub> - carbon disulfide

COS - carbonyl sulfide

HCN - hydrogen cyanide

C<sub>2</sub>H<sub>2</sub> - acetylene

(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 8,760 Hrs/year

\*\* Compliance with annual emission limits is based on a rolling 12-month period.

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			<u>lb/hr</u>	<u>TPY**</u>

Dated March 18, 2005