

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 17519

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	
H-8	HCU Fractionation Heater (57.3 MMBTU/hr)	VOC	0.23	0.99
		NO <sub>x</sub>	2.58	11.30
		SO <sub>2</sub>	2.16	2.84
		PM <sub>10</sub>	0.61	2.68
		CO	1.61	7.03
H-42	HCU Recycle Heater (42.5 MMBTU/hr)	VOC	0.17	0.74
		NO <sub>x</sub>	1.92	8.38
		SO <sub>2</sub>	1.60	2.10
		PM <sub>10</sub>	0.46	1.99
		CO	1.20	5.22
H-43	HCU Reboiler Heater (58.3 MMTBU/hr)	VOC	0.23	1.01
		NO <sub>x</sub>	2.63	11.50
		SO <sub>2</sub>	2.20	2.89
		PM <sub>10</sub>	0.63	2.72
		CO	1.64	7.16
V-16	No. 2 SRU Incinerator	VOC	0.02	0.10
		NO <sub>x</sub>	0.67	2.94
		SO <sub>2</sub>	10.48	45.34
		PM <sub>10</sub>	0.06	0.26
		CO	0.16	0.69
F-48	HCU Fugitives (4)	VOC	13.82	60.52
F-49	No. 2 SRU Fugitives (4)	VOC	0.16	0.69
		H <sub>2</sub> S	0.12	0.50
		NH <sub>3</sub>	<0.01	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)lb/hr	Emission Rates *	
			TPY	
F-55	No. 2 SWRU Fugitives (4)	VOC	0.03	0.11
		H <sub>2</sub> S	<0.01	0.02
		NH <sub>3</sub>	<0.01	0.01
FL-4	HCU Flare	EMERGENCY USE ONLY		
S-184	Sour Water Holding Tank 940T1	VOC	0.84	2.21

- (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 30 Texas Administrative Code Section 101.1  
 NO<sub>x</sub> - total oxides of nitrogen  
 SO<sub>2</sub> - sulfur dioxide  
 PM<sub>10</sub> - particulate matter less than 10 microns  
 CO - carbon monoxide  
 H<sub>2</sub>S - hydrogen sulfide  
 NH<sub>3</sub> - ammonia
- (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/year 8,760

Dated \_\_\_\_\_