

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 390/PSD-TX-861

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 *	Source	Air Contaminant	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
H-15	No. 1 Hydrotreater Reboiler Heater (32.7 MMBTU/hr)	VOC	0.1	0.6
		NO <sub>x</sub>	1.5	6.4
		SO <sub>2</sub>	1.2	1.6
		PM <sub>10</sub>	0.3	1.4
		CO	0.9	4.0
H-18	No. 1 Reformer Charge Heater (227 MMBTU/hr)	VOC	0.9	3.9
		NO <sub>x</sub>	10.2	44.7
		SO <sub>2</sub>	8.6	11.3
		PM <sub>10</sub>	2.3	9.9
		CO	6.4	27.9
H-34	No. 1 Reformer Stabilizer 0.4		VOC	0.1
	Reboiler Heater (20.0 MMBTU/hr)	NO <sub>x</sub>	2.4	10.5
		SO <sub>2</sub>	0.8	1.0
		PM <sub>10</sub>	0.2	0.9
		CO	0.6	2.5
H-45	No. 1 Hydrotreater Charge Heater (63.4 MMBTU/hr)	VOC	0.3	1.1
		NO <sub>x</sub>	2.5	11.1
		SO <sub>2</sub>	2.4	3.1
		PM <sub>10</sub>	0.6	2.8
		CO	1.8	7.8
H-46	No. 1 Reformer Charge Heater (130 MMBTU/hr)	VOC	0.5	2.2
		NO <sub>x</sub>	5.9	25.6
		SO <sub>2</sub>	4.9	6.5

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Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		PM <sub>10</sub>	1.3	5.7
		CO	3.7	16.0
H-54	No. 1 Reformer Stabilizer 0.7		VOC	0.2
	Reboiler Heater (40.0 MMBTU/hr)	NO <sub>x</sub>	1.6	7.0
		SO <sub>2</sub>	1.5	2.0
		PM <sub>10</sub>	0.4	1.8
		CO	1.1	4.9
V-18	No. 1 Reformer Regeneration Vent	CO	3.0	13.2
		Cl <sub>2</sub>	0.3	0.8
F-8	No. 1 Hydrotreater Fugitives (4) 14.7		VOC	3.37
F-10	No. 1 Reformer Fugitives (4) 28.6		VOC	6.52

(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<sub>10</sub> - particulate matter less than 10

microns

CO - carbon monoxide

Cl<sub>2</sub> - chlorine

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>

\* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/year 8,760

Dated\_\_\_\_\_