

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Nos. 18277 and PSD-TX-802

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
27STK_001	Heater H-3401 (92 MMBtu/hr heat input)	VOC	0.25	1.1
		NO <sub>x</sub>	11.04	48.36
		SO <sub>2</sub> (5)	2.30	10.1
		PM <sub>10</sub>	1.78	7.8
		CO	3.06	13.4
27STK_002	Heater H-3402 (76 MMBtu/hr heat input)	VOC	0.24	1.05
		NO <sub>x</sub>	8.36	36.62
		SO <sub>2</sub> (5)	2.15	9.42
		PM <sub>10</sub>	1.31	5.74
		CO	2.97	13.01
27STK_003	Reformer Heaters H-3403 through H-3406 (438 MMBtu/hr heat input) (9)	VOC	1.20	3.84
		NO <sub>x</sub>	77.40	211.03
		SO <sub>2</sub> (8)	17.52	28.01
		PM <sub>10</sub>	1.96	6.27
		CO	44.40	105.90
27STK_004	Heater H-3408 (90 MMBtu/hr heat input)	VOC	0.25	0.98
		NO <sub>x</sub>	5.40	21.02
		SO <sub>2</sub> (5)	2.63	10.23
		PM <sub>10</sub>	0.83	3.22
		CO	6.66	12.30
021V01	Regenerator Vent	NO <sub>x</sub>	0.98	4.3
		SO <sub>2</sub> (5)	0.68	3.0
		PM <sub>10</sub>	0.06	0.25
		CO	1.48	4.80
		HCl (6)	0.56	3.05
			3.29 (7)	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
27FUG_001	Fugitives (4)	VOC	15.05	65.91
		Cl <sub>2</sub>	0.10	0.44

(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 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 in diameter

CO - carbon monoxide

HCl - hydrogen chloride

Cl<sub>2</sub> - chlorine

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

(5) Based on maximum fuel hydrogen sulfide content of 150 parts per million.

(6) 22.9 percent of hydrogen chloride emissions are in the form of chlorine.

(7) This rate allowed only under the conditions of Special Condition No. 6.

(8) Annual limits based on maximum fuel hydrogen sulfide content of 75 parts per million; hourly limits based on maximum fuel hydrogen sulfide content of 150 parts per million.

(9) Annual emission limit is based on a 438 MMBtu/hr annual average heat input.

\* 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

Dated \_\_\_\_\_