

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 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
021S01	Heater H-3401 (92 MMBtu/hr heat input)	VOC	0.25	1.1
		NO _x	8.06	35.31
		SO ₂ (a)	2.30	10.1
		PM ₁₀	1.78	7.8
		CO	3.06	13.4
021S01	Heater H-3401 (5) (92 MMBtu/hr heat input)	VOC	0.25	1.1
		NO _x	11.04	48.36
		SO ₂ (a)	2.30	10.1
		PM ₁₀	1.78	7.8
		CO	3.06	13.4
021S02	Heater H-3402 (76 MMBtu/hr heat input)	VOC	0.24	1.05
		NO _x	8.36	36.62
		SO ₂ (a)	2.15	9.42
		PM ₁₀	1.31	5.74
		CO	2.97	13.01
021S03	Reformer Heaters H-3403 through H-3406 (413 MMBtu/hr heat input)	VOC	1.29	5.65
		NO _x	45.43	198.98
		SO ₂ (a)	11.67	51.11
		PM ₁₀	5.85	25.62
		CO	16.12	70.61
021S04	Heater H-3408 (81 MMBtu/hr heat input)	VOC	0.24	1.0
		NO _x	9.61	39.4
		SO ₂ (a)	2.12	8.7
		PM ₁₀	1.55	6.8
		CO	2.80	11.5

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			<u>lb/hr</u>	<u>TPY</u>

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
021S04	Heater H-3408 (5) (90 MMBtu/hr heat input)	VOC	0.25	1.11
		NO _x	5.40	23.65
		SO ₂ (a)	2.29	10.03
		PM ₁₀	1.67	7.32
		CO	3.16	13.85
021V01	Regenerator Vent	NO _x	0.98	4.3
		SO ₂ (a)	0.68	3.0
		PM ₁₀	0.06	0.25
		CO	1.48	4.80
		HCl (b)	0.56	3.05
			3.29 (c)	
F021	Fugitives (4)	VOC		62.43

- (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_x - total oxides of nitrogen
SO₂ - sulfur dioxide
PM₁₀ - particulate matter less than 10 microns in diameter
CO - carbon monoxide
HCl - hydrogen chloride
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Allowable emissions after the burners in Heater H-3408 are replaced with 0.06 lbs NO_x/MMBTU burners.
- (a) Based on maximum fuel hydrogen sulfide content of 150 parts per million.
- (b) 22.9 percent of hydrogen chloride emissions are in the form of chlorine.
- (c) This rate allowed only under the provisions of Special Condition No. 6.

* 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

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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 _____