## 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 *	Source	Air Contaminant	<u>Emissi</u>	on Rates
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY
021S01	Heater H-3401 (92 MMBtu/hr heat	VOC input) NO <sub>x</sub> SO <sub>2</sub> (a) PM <sub>10</sub> CO	0.25 8.06 2.30 1.78 3.06	1.1 35.31 10.1 7.8 13.4
021S01	Heater H-3401 (5) (92 MMBtu/hr heat	VOC input) NO <sub>x</sub> SO <sub>2</sub> (a) PM <sub>10</sub> CO	0.25 11.04 2.30 1.78 3.06	1.1 48.36 10.1 7.8 13.4
021S02	Heater H-3402 (76 MMBtu/hr heat	VOC input) NO <sub>x</sub> SO <sub>2</sub> (a) PM <sub>10</sub> CO	0.24 8.36 2.15 1.31 2.97	1.05 36.62 9.42 5.74 13.01
021S03	Reformer Heaters H-3 through H-3406 (600 MMBtu/hr heat	$NO_{x}77.40$	1.17 339.01 20.96 10.51 33.10	4.19 37.65 37.75 118.91
021S04	Heater H-3408 (81 MMBtu/hr heat	VOC input) NO <sub>x</sub> SO <sub>2</sub> (a) PM <sub>10</sub> CO	0.24 9.61 2.12 1.55 2.80	1.0 39.4 8.7 6.8 11.5
021S04	Heater H-3408 (5) (90 MMBtu/hr heat	VOC input) NO <sub>x</sub>	0.25 5.40	1.11 23.65

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## AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
		SO <sub>2</sub> (a) PM <sub>10</sub> CO	2.29 1.67 3.16	10.03 7.32 13.85
021V01	Regenerator Vent	NO <sub>x</sub> 0.98 SO <sub>2</sub> (a) PM <sub>10</sub> CO HCl (b)	4.3 0.68 0.06 1.48 0.56 3.29 (c	3.0 0.25 4.80 3.05
F021	Fugitives (4)	VOC C1₂	14.25 0.10	62.43 0.44

- (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
  - $PM_{10}$  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) Allowable emissions after the burners in Heater H-3408 are replaced with 0.06 lbs  $NO_{\times}/MMBTU$  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 conditions of Special Condition No.6.
- (d) 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.

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

# AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emission Rates</u>			
Point No. (2	1) Name (2)	Name (3)	<u>lb/hr TPY</u>			
* Emission rates are based on and the facilities are limited by the following maximum operating schedule:						
Hrs/year	_ Hrs/day	Days/week Week	s/year or <u>8,760</u>			

Dated\_\_\_\_