

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Nos. 21945 and PSD-TX-813

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

### TURBINE AND HEAT RECOVERY UNIT EMISSIONS CONTRIBUTION

27	HP-HRU Turbines-only	NO <sub>x</sub>	22.4	88.6
		CO	16.3	64.0
		SO <sub>2</sub>	0.2	0.9
		VOC	0.9	3.6
		PM <sub>10</sub>	0.7	2.9
27	HRU Contribution	NO <sub>x</sub>	11.4	49.7
		CO	7.6	33.1
		SO <sub>2</sub> (5)	7.6	32.5
		VOC	1.9	8.3
		PM <sub>10</sub>	1.9	8.3
		HCl (6)	0.06	0.2

### TOTAL EMISSIONS WITH TURBINES FIRING NATURAL GAS AND SUPPLEMENTAL HRU FIRING

27	HP-HRU Turbines w/Heat Recovery Unit	NO <sub>x</sub>	33.9	138.3
		CO	23.9	97.1
		SO <sub>2</sub> (5)	7.8	33.4
		VOC	2.8	11.9
		PM <sub>10</sub>	2.6	11.2
		HCl (6)	0.06	0.2
F20	Fugitives (4)	VOC	0.1	0.3

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- (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)  $PM_{10}$  - particulate matter less than 10 microns  
VOC - volatile organic compounds as defined in General Rule 101.1  
 $NO_x$  - total oxides of nitrogen  
 $SO_2$  - sulfur dioxide  
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) Includes the maximum  $SO_2$  generated from combustion of Merox off-gas containing diethyldisulfide (DEDS) from Merox unit. This may alternatively be combusted in the DIB 900 (Permit No. 20509 PSD-TX-790). See Special Provision No. 6(B)(2).
- (6) Includes the maximum HCl generated from the combustion of Isomerization off-gas containing HCl. See Special Provision No. 6(B)(1).

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

Hrs/day \_\_\_\_\_ Days/week \_\_\_\_\_ Weeks/year \_\_\_\_\_ or Hrs/year 8,760

Dated \_\_\_\_\_