

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 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 Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY

#### 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>	1.0	4.4
		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) NO<sub>x</sub> - total oxides of nitrogen  
CO - carbon monoxide  
SO<sub>2</sub> - sulfur dioxide  
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1  
PM<sub>10</sub> - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.  
HCl - hydrogen chloride
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emissions rate.
- (5) Includes the maximum SO<sub>2</sub> generated from combustion of Merox off-gas containing diethyldisulfide (DEDS) from Merox unit. This may alternatively be combusted in the DIB 900 (Permit Numbers 20509 and PSD-TX-790). See Special Condition No. 6B(2).
- (6) Includes the maximum HCl generated from the combustion of Isomerization off-gas containing HCl. See Special Condition No. 6B(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 November 29, 2004