

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 25034

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

<u>Emission</u>	<u>Source</u>	<u>Air Contaminant</u>	<u>Emission Rates *</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
<u>TURBINE-ONLY EMISSIONS</u>				
E02B026	Gas Turbine, PT-2405	NO <sub>x</sub>	28.0	109.5
		CO	28.0	109.5
		VOC	5.0	17.5
		SO <sub>2</sub>	5.9	22.3
		PM <sub>10</sub>	5.0	21.9
<u>DUCT BURNER CONTRIBUTION</u>				
E02B026	Heat Recovery Steam Generator, F-2507	NO <sub>x</sub> (5)	29.1	110.8
		CO	23.3	88.5
		VOC	8.4	32.0
		SO <sub>2</sub>	3.9	12.8
		PM <sub>10</sub>	2.9	11.0
		propylene	2.2	8.4
<u>COMBINED-CYCLE FIRING EMISSIONS</u>				
E02B026	GTG PT-2405 and HRSG F-2507	NO <sub>x</sub> (5)	57.1	220.3
		CO	51.3	198.0
		VOC	13.4	49.5
		SO <sub>2</sub>	9.7	35.1
		PM <sub>10</sub>	7.9	32.9
		propylene	2.2	8.4
F02BGF3-01	Process Fugitives	VOC	0.17	0.73
	propylene	0.04	0.19	

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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 - particulate matter suspended in the atmosphere including PM<sub>10</sub>  
PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.  
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1  
NO<sub>x</sub> - total oxides of nitrogen  
SO<sub>2</sub> - sulfur dioxide  
CO - carbon monoxide
  - (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
  - (5) These NO<sub>x</sub> emission rates are applicable while the HRSG is firing mixed fuel gas. When the HRSG is only firing natural gas, the hourly emission rates from the duct burner contribution shall be 23.3 pounds per hour (lbs/hr). Accordingly, the combined-cycle emissions will be limited to 51.3 lbs/hr.
- \* 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 June 24, 2005