

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 41500 and PSD-TX-943

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	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
<b><u>Turbine and Duct Burner</u></b>				
CU 1	Turbine/HRSG No. 1 (GE 7241 FA Turbine with 700 MMBtu/hr Duct Burner)	NO <sub>x</sub>	164.75	
		CO	116.90	
		PM/PM <sub>10</sub>	35.90	
		VOC	19.72	
		SO <sub>2</sub>	48.35	
		H <sub>2</sub> SO <sub>4</sub>	7.40	
CU 2	Turbine/HRSG No. 2 (GE 7241 FA Turbine with 700 MMBtu/hr Duct Burner)	NO <sub>x</sub>	164.75	
		CO	116.90	
		PM/PM <sub>10</sub>	35.90	
		VOC	19.72	
		SO <sub>2</sub>	48.35	
		H <sub>2</sub> SO <sub>4</sub>	7.40	
<b><u>Fugitives</u></b>				
FUG	Piping Fugitives	VOC	2.02	2.38
		H <sub>2</sub> S 0.002	0.004	
<b><u>Auxiliary Boilers</u></b>				
AB 1	Auxiliary Boiler 1 336.4 MMBtu/hr (4)	NO <sub>x</sub>	18.84	
		CO	28.11	
		PM/PM <sub>10</sub>	1.57	
		VOC	2.81	
		SO <sub>2</sub>	9.40	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
AB 2	Auxiliary Boiler 2 336.4 MMBtu/hr (5)	NO <sub>x</sub>	18.84	
		CO	28.11	
		PM/PM <sub>10</sub>	1.57	
		VOC	2.81	
		SO <sub>2</sub>	9.40	

**Turbines, Duct Burners, and Auxiliary Boilers (tons per year)**

CU 1 and 2	Annual Total for Two Turbines/ Duct Burner and Two Auxiliary Boilers	NO <sub>x</sub>	820.1	
AB 1 and 2		CO	685.4	
		PM/PM <sub>10</sub>	226.9	
		VOC	74.7	
		SO <sub>2</sub>	126.2	
		H <sub>2</sub> SO <sub>4</sub>	19.3	

**Cooling Towers**

CT	Cooling Towers	PM/PM <sub>10</sub>	11.15	48.85
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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  
PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>.  
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 PM greater than 10 microns is emitted.  
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1.  
SO<sub>2</sub> - sulfur dioxide  
H<sub>2</sub>SO<sub>4</sub> - sulfuric acid
- (4) The maximum heat input capacity above 315 MMBtu/hr is currently authorized under 30 TAC § 106.261 and Permit by Rule Registration Number 47963 effective July 20, 2001.
- (5) The maximum heat input capacity above 315 MMBtu/hr is currently authorized under 30 TAC § 106.261 and Permit by Rule Registration Number 47950 July 5, 2001.

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

8,760 Hrs/year

- \* The combined annual heat input for the two duct burners based on any consecutive 12-month period shall not exceed 6,745,200 MMBtu/yr (Higher Heating Value).
- \* Steam augmentation for 1,000 hours per year per turbines.

Dated August 18, 2005