

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 73319

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>	
Point No. (1)	Name (2)	Name (3)	lb/hr	
TPY**				
EXHSTKB1	Boiler No. 1 180 MMBtu/hr	NO <sub>x</sub>	6.50	28.40
		CO	13.50	59.10
		SO <sub>2</sub>	2.60	11.40
		PM <sub>10</sub>	1.40	6.10
		VOC	1.00	4.40
EXHSTKB4	Boiler No. 4 180 MMBtu/hr	NO <sub>x</sub>	6.50	28.40
		CO	13.50	59.10
		SO <sub>2</sub>	2.60	11.40
		PM <sub>10</sub>	1.40	6.10
		VOC	1.00	4.40
EXHSTKB5	Boiler No. 5 (4) 121.5 MMBtu/hr	NO <sub>x</sub>	13.00	6.50
		CO	0.75	0.38
		SO <sub>2</sub>	2.60	1.30
		PM <sub>10</sub>	1.40	0.70
		VOC	1.00	0.50
EXHSTKB5	Boiler No. 5 (5)	NO <sub>x</sub>	48.60	0.48
		CO	14.50	0.14
		SO <sub>2</sub>	2.60	0.02
		PM <sub>10</sub>	1.40	0.02
		VOC	1.00	0.02
EXHSTKWHR1	Waste Heat Recovery Unit 115 MMBtu/hr Duct Burner W191 Turbine (15 MW) Stack No. 1	NO <sub>x</sub>	21.35	93.60
		CO	17.28	75.70
		SO <sub>2</sub>	1.50	6.50
		PM <sub>10</sub>	0.70	3.10
		VOC	0.40	1.50

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<u>Emission Rates *</u>	<u>Source</u>	<u>Air Contaminant</u>	<u>Emission</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	
<u>TPY**</u>				
EXHSTKWHR2	Waste Heat Recovery Unit	NO <sub>x</sub>	21.35	93.60
	115 MMBtu/hr Duct Burner	CO	17.28	75.70
	W191 Turbine (15 MW)	SO <sub>2</sub>	1.50	6.50
	Stack No. 2	PM <sub>10</sub>	0.70	3.10
		VOC	0.40	1.50
EXHSTKWHR3	Waste Heat Recovery Unit	NO <sub>x</sub>	21.35	93.60
	115 MMBtu/hr Duct Burner	CO	17.28	75.70
	W191 Turbine (15 MW)	SO <sub>2</sub>	1.50	6.50
	Stack No. 3	PM <sub>10</sub>	0.70	3.10
		VOC	0.40	1.50
VENT21	Tank 21	VOC	0.98	3.23
VENT22	Tank 22	VOC	1.00	3.32
VENT23	Tank 23	VOC	1.20	4.11

- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
- (3) NO<sub>x</sub> - total oxides of nitrogen  
CO - carbon monoxide  
SO<sub>2</sub> - sulfur dioxide  
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
- (4) Emission rate limits for backup services limited to 1,000 hours per rolling 12-month period only as specified in Special Condition No. 5.
- (5) Emission rate limits for two stack tests, each at the maximum firing rate of 180 MMBtu/hr, and each limited to 10 hours as specified in Special Condition No. 5. The first stack test was performed May 20, 2008.

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

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

- \*\* Compliance with annual emission limits is based on a rolling 12-month period.

Dated January 12, 2009