

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 37391 and PSD-TX-897

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>Case I: Turbine and Duct Burner firing Natural Gas *</b>				
GT-HRSG#1	Turbine/HRSG#1 (GE Frame 7FA Turbine with 446.8 550 MMBtu/hr Duct Burner)	NO <sub>x</sub>	147.0	613.2
		CO		106.0
		PM	23.5	102.9
		PM <sub>10</sub>	22.4	98.1
		VOC	16.2	70.1
		SO <sub>2</sub>	13.4	55.6
GT-HRSG#2	Turbine/HRSG#2 (GE Frame 7FA Turbine with 446.8 550 MMBtu/hr Duct Burner)	NO <sub>x</sub>	147.0	613.2
		CO		106.0
		PM	23.5	102.9
		PM <sub>10</sub>	22.4	98.1
		VOC	16.2	70.1
		SO <sub>2</sub>	13.4	55.6
GT-HRSG#3	Turbine/HRSG#3 (GE Frame 7FA Turbine with 446.8 550 MMBtu/hr Duct Burner)	NO <sub>x</sub>	147.0	613.2
		CO		106.0
		PM	23.5	102.9
		PM <sub>10</sub>	22.4	98.1
		VOC	16.2	70.1
		SO <sub>2</sub>	13.4	55.6

**Case II: Turbine firing Distillate Fuel Oil (720 Hours) and Duct Burner firing Natural Gas**

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Emission *	Source	Air Contaminant	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
GT-HRSG#1	Turbine/HRSG#1 (GE Frame 7FA Turbine with 52.74 550 MMBtu/hr Duct Burner)	NO <sub>x</sub>	379.0	129.6
		CO		150.5
		PM	49.5	17.82
		PM <sub>10</sub>	48.4	17.42
		VOC	27.3	9.65
		SO <sub>2</sub>	106.5	36.3
GT-HRSG#2	Turbine/HRSG#2 (GE Frame 7FA Turbine with 52.74 550 MMBtu/hr Duct Burner)	NO <sub>x</sub>	379.0	129.6
		CO		150.5
		PM	49.5	17.82
		PM <sub>10</sub>	48.4	17.42
		VOC	27.3	9.65
		SO <sub>2</sub>	106.5	36.3
GT-HRSG#3	Turbine/HRSG#3 (GE Frame 7FA Turbine with 52.74 550 MMBtu/hr Duct Burner)	NO <sub>x</sub>	379.0	129.6
		CO		150.5
		PM	49.5	17.82
		PM <sub>10</sub>	48.4	17.42
		VOC	27.3	9.65
		SO <sub>2</sub>	106.5	36.3
OIL-TK	Fuel Oil Tank	VOC	5.2	1.1
FUG	Fugitives	VOC	0.8	3.5

(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

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

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 particulate matter 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

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

8,760 Hrs/year

Dated April 8, 2008