

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Nos. 41008 and PSD-TX-936

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
Turbine Only ( Maximum Hourly Limits)				
GT-HRSG No. 1	Turbine No. 1 (Model GE PG7241(FA) Turbine)	NO <sub>x</sub> (4)	60.0	
		CO	29.0	
		PM <sub>10</sub> (4)	18.3	
		VOC	2.8	
		SO <sub>2</sub>	2.4	
		H <sub>2</sub> SO <sub>4</sub>	0.27	
GT-HRSG No. 2	Turbine No. 2 (Model GE PG7241(FA) Turbine)	NO <sub>x</sub> (4)	60.0	
		CO	29.0	
		PM <sub>10</sub> (4)	18.3	
		VOC	2.8	
		SO <sub>2</sub>	2.4	
		H <sub>2</sub> SO <sub>4</sub>	0.27	
GT-HRSG No. 3	Turbine No. 3 (Model GE PG7241(FA) Turbine)	NO <sub>x</sub> (4)	60.0	
		CO	29.0	
		PM <sub>10</sub> (4)	18.3	
		VOC	2.8	
		SO <sub>2</sub>	2.4	
		H <sub>2</sub> SO <sub>4</sub>	0.27	
GT-HRSG No. 4	Turbine No. 4 (Model GE PG7241(FA) Turbine)	NO <sub>x</sub> (4)	60.0	
		CO	29.0	
		PM <sub>10</sub> (4)	18.3	
		VOC	2.8	
		SO <sub>2</sub>	2.4	
		H <sub>2</sub> SO <sub>4</sub>	0.27	

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## AIR CONTAMINANTS DATA

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

### Turbine Only Firing and Turbine/Duct Burner Firing (Hourly and Annual Limits)

GT-HRSG No. 1	Turbine No. 1 and Turbine No. 1/HRSG Turbine Model GE PG7241(FA) and 275 MMBtu/hr Duct Burner	NO <sub>x</sub> (4)	82.0	281.5
		CO	51.0	158.9
		PM <sub>10</sub> (4)	21.0	85.6
		VOC	5.6	17.0
		SO <sub>2</sub>	2.7	10.1
		H <sub>2</sub> SO <sub>4</sub>	0.3	1.2
GT-HRSG No. 2	Turbine No. 2 and Turbine No. 2/HRSG Turbine Model GE PG7241(FA) and 275 MMBtu/hr Duct Burner	NO <sub>x</sub> (4)	82.0	281.5
		CO	51.0	158.9
		PM <sub>10</sub> (4)	21.0	85.6
		VOC	5.6	17.0
		SO <sub>2</sub>	2.7	10.1
		H <sub>2</sub> SO <sub>4</sub>	0.3	1.2
GT-HRSG No. 3	Turbine No. 3 and Turbine No. 3/HRSG Turbine Model GE PG7241(FA) and 275 MMBtu/hr Duct Burner	NO <sub>x</sub> (4)	82.0	281.5
		CO	51.0	158.9
		PM <sub>10</sub> (4)	21.0	85.6
		VOC	5.6	17.0
		SO <sub>2</sub>	2.7	10.1
		H <sub>2</sub> SO <sub>4</sub>	0.3	1.2
GT-HRSG No. 4	Turbine No. 4 and Turbine No. 4/HRSG Turbine Model GE PG7241(FA) and 275 MMBtu/hr Duct Burner	NO <sub>x</sub> (4)	82.0	281.5
		CO	51.0	158.9
		PM <sub>10</sub> (4)	21.0	85.6
		VOC	5.6	17.0
		SO <sub>2</sub>	2.7	10.1
		H <sub>2</sub> SO <sub>4</sub>	0.3	1.2

### Turbine Only and Turbine/Duct Burner Firing (Combined Annual Limits)

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### AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
GT-HRSG Nos. 1 through No. 4	Turbine Nos. 1 through 4 and Turbine/HRSG Nos. 1 through 4 Turbines Model GE PG7241(FA) and 275 MMBtu/hr Duct Burners	NO <sub>x</sub> (4)		1126
		CO		635.6
		PM <sub>10</sub> (4)		342.4
		VOC		68.1
		SO <sub>2</sub>		40.4
		H <sub>2</sub> SO <sub>4</sub>		4.8
CT-1	Cooling Tower	PM (4)	18.7	81.7
CT-2	Cooling Tower	PM (4)	18.7	81.7
F-1	Fugitives	VOC (5)	0.13	0.582
F-2	Fugitives (Oil Vent Mist Eliminators)	VOC (5)	0.01	0.053
EG-1	Emergency Electrical Generator 2,000 KW	NO <sub>x</sub> (4)	46.8	11.7
		CO	34.9	8.7
		PM <sub>10</sub>	2.07	0.52
		VOC	2.9	0.72
		SO <sub>2</sub>	1.9	0.47
		H <sub>2</sub> SO <sub>4</sub>	0.29	0.07
EG-2	Emergency Firewater Pump 260-HP Diesel Fuel	NO <sub>x</sub> (4)	8.1	0.08
		CO	1.7	0.01
		PM <sub>10</sub>	0.57	0.0057
		VOC	0.65	0.0065
		SO <sub>2</sub>	0.21	0.002
		H <sub>2</sub> SO <sub>4</sub>	0.03	0.0003

(1) Emission point identification - either specific equipment designation or emission point number

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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 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 30 Texas Administrative Code Section 101.1

SO<sub>2</sub> - sulfur dioxide

H<sub>2</sub>SO<sub>4</sub> - sulfuric acid

(4) These emissions are permitted under PSD and State.

(5) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emissions rate.

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

8,760 Hrs/year

Dated\_\_\_\_\_