

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Nos. 41013 and PSD-TX-937

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

Turbine Only Firing (Maximum Hourly Limits):

GT-HRSG No. 1	Turbine No. 1 (Model GE PG7241(FA) Turbine)	NO _x	64.0
		CO	31.0
		PM ₁₀	18.3
		VOC	3.0
		SO ₂	2.5
		H ₂ SO ₄	0.29
GT-HRSG No. 2	Turbine No. 2 (Model GE PG7241(FA) Turbine)	NO _x	64.0
		CO	31.0
		PM ₁₀	18.3
		VOC	3.0
		SO ₂	2.5
		H ₂ SO ₄	0.29
GT-HRSG No. 3	Turbine No. 3 (Model GE PG7241(FA) Turbine)	NO _x	64.0
		CO	31.0
		PM ₁₀	18.3
		VOC	3.0
		SO ₂	2.5
		H ₂ SO ₄	0.29
GT-HRSG No. 4	Turbine No. 4 (Model GE PG7241(FA) Turbine)	NO _x	64.0
		CO	31.0
		PM ₁₀	18.3
		VOC	3.0
		SO ₂	2.5
		H ₂ SO ₄	0.29

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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 and Combined Turbine/Duct Burner Firing (Hourly and Annual Limits):

GT-HRSG No. 1	Turbine No.1 +Turbine No. 1/HRSG Turbine Model GE PG7241(FA) with 200 MMBtu/hr Duct Burner	NO _x	80.0	286.1
		CO	47.0	154.7
		PM ₁₀	20.3	84.0
		VOC	5.0	16.3
		SO ₂	2.8	10.5
		H ₂ SO ₄	0.32	1.2
GT-HRSG No. 2	Turbine No. 2 + Turbine No. 2/HRSG Turbine Model GE PG7241(FA) with 200 MMBtu/hr Duct Burner	NO _x	80.0	286.1
		CO	47.0	154.7
		PM ₁₀	20.3	84.0
		VOC	5.0	16.3
		SO ₂	2.8	10.5
		H ₂ SO ₄	0.32	1.2
GT-HRSG No. 3	Turbine No. 3 +Turbine No. 3/HRSG Turbine Model GE PG7241(FA) with 200 MMBtu/hr Duct Burner	NO _x	80.0	286.1
		CO	47.0	154.7
		PM ₁₀	20.3	84.0
		VOC	5.0	16.3
		SO ₂	2.8	10.5
		H ₂ SO ₄	0.32	1.2
GT-HRSG No. 4	Turbine No. 4+ Turbine No. 4/HRSG Turbine Model GE PG7241(FA) with 200 MMBtu/hr Duct Burner	NO _x	80.0	286.1
		CO	47.0	154.7
		PM ₁₀	20.3	84.0
		VOC	5.0	16.3
		SO ₂	2.8	10.5
		H ₂ SO ₄	0.32	1.2

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AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
Turbine Only and Combined Turbine/Duct Burner (Combined Annual Limits)				
GT-HRSG Nos. 1 through No. 4	Turbines No. 1 through 4 + Turbines No. 1 through 4/HRSG	NO _x		1144.2
		CO		618.6
		PM ₁₀		336.0
		VOC		65.1
		SO ₂		42.1
		H ₂ SO ₄		4.8
CT-1	Cooling Tower	PM	17.5	76.5
CT-2	Cooling Tower	PM	17.5	76.5
F-1	Fugitives	VOC	0.13	0.582
F-2	Fugitives (Oil vent mist eliminators)	VOC	0.01	0.053
EG-1	Emergency Electrical Generator 2,000 KW	NO _x	46.8	11.7
		CO	34.9	8.7
		PM ₁₀	2.07	0.52
		VOC	2.9	0.72
		SO ₂	1.9	0.47
		H ₂ SO ₄	0.29	0.07
EG-2	Emergency Firewater Pump 260-HP Diesel Fuel	NO _x	8.1	0.08
		CO	1.7	0.017
		PM ₁₀	0.57	0.0057
		VOC	0.65	0.0065
		SO ₂	0.21	0.002
		H ₂ SO ₄	0.03	0.0003

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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_x - total oxides of nitrogen
 - CO - carbon monoxide
 - PM - particulate matter, suspended in the atmosphere, including PM₁₀
 - PM₁₀ - 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 TAC Section 101.1
 - SO₂ - sulfur dioxide
 - H₂SO₄ - sulfuric acid

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

8,760 Hrs/year

Dated_____