

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Nos. 42086 and PSD-TX-952

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 and Duct Burner (Hourly Limits)				
GTG/HRSG 1	Turbine/HRSG Stack 1 (GE 7F Turbine with 330 MMBtu/hr Duct Burner)	NO <sub>x</sub>	71.0	
		CO	96.0	
		PM/PM <sub>10</sub>	25.6	
		VOC	9.3	
		SO <sub>2</sub>	30.4	
		NH <sub>3</sub>	29.0	
		H <sub>2</sub> SO <sub>4</sub>	4.7	
GTG/HRSG 2	Turbine/HRSG Stack 2 (GE 7F Turbine with 330 MMBtu/hr Duct Burner)	NO <sub>x</sub>	71.0	
		CO	96.0	
		PM/PM <sub>10</sub>	25.6	
		VOC	9.3	
		SO <sub>2</sub>	30.4	
		NH <sub>3</sub>	29.0	
		H <sub>2</sub> SO <sub>4</sub>	4.7	
GTG/HRSG 3	Turbine/HRSG Stack 3 (GE 7F Turbine with 330 MMBtu/hr Duct Burner)	NO <sub>x</sub>	71.0	
		CO	96.0	
		PM/PM <sub>10</sub>	25.6	
		VOC	9.3	
		SO <sub>2</sub>	30.4	
		NH <sub>3</sub>	29.0	
		H <sub>2</sub> SO <sub>4</sub>	4.7	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
GTG/HRSG 4	Turbine/HRSG Stack 4 (GE 7F Turbine with 330 MMBtu/hr Duct Burner)	NO <sub>x</sub>	71.0	
		CO	96.0	
		PM/PM <sub>10</sub>	25.6	
		VOC	9.3	
		SO <sub>2</sub>	30.4	
		NH <sub>3</sub>	29.0	
		H <sub>2</sub> SO <sub>4</sub>	4.7	
GTG/HRSG 5	Turbine/HRSG Stack 5 (GE 7F Turbine with 330 MMBtu/hr Duct Burner)	NO <sub>x</sub>	71.0	
		CO	96.0	
		PM/PM <sub>10</sub>	25.6	
		VOC	9.3	
		SO <sub>2</sub>	30.4	
		NH <sub>3</sub>	29.0	
		H <sub>2</sub> SO <sub>4</sub>	4.7	
GTG/HRSG 6	Turbine/HRSG Stack 6 (GE 7F Turbine with 330 MMBtu/hr Duct Burner)	NO <sub>x</sub>	71.0	
		CO	96.0	
		PM/PM <sub>10</sub>	25.6	
		VOC	9.3	
		SO <sub>2</sub>	30.4	
		NH <sub>3</sub>	29.0	
		H <sub>2</sub> SO <sub>4</sub>	4.7	
Turbines and Duct Burners (Combined Annual Limits)				
GTG/HRSG1 - 6	Turbine/HRSG1-6	NO <sub>x</sub> *		1868.0
		CO*		2472.0
		PM/PM <sub>10</sub> *		689.7
		VOC*		247.2
		SO <sub>2</sub>		39.8
		NH <sub>3</sub>		764.9
		H <sub>2</sub> SO <sub>4</sub>		6.0

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY
DIESELGEN	Auxiliary Diesel Generator	NO <sub>x</sub>	32.0	1.6
		CO	7.4	0.37
		PM/PM <sub>10</sub>	0.94	0.05
		VOC	0.94	0.05
		SO <sub>2</sub>	2.7	0.14
DIESELTK1	Aux. Diesel Gen. Tank	VOC	0.035	0.0002
FIREPUMP	Diesel Fire Pump Engine	NO <sub>x</sub>	9.45	0.47
		CO	2.04	0.10
		PM/PM <sub>10</sub>	0.67	0.03
		VOC	0.77	0.04
		SO <sub>2</sub>	0.7	0.04
DIESELTK2	Diesel Fire Pump Fuel Tank	VOC	0.018	<0.0001
DIESELFUG	Diesel Fugitives	VOC	0.008	0.035
COOLTWR1	Cooling Tower 1	PM/PM <sub>10</sub>	4.32	8.83
COOLTWR2	Cooling Tower 2	PM/PM <sub>10</sub>	4.32	8.83
LUBEOILFUG	Lubricating Oil System Fugitives	VOC	0.17	0.74
NATGASFUG	Natural Gas Fugitives	VOC	0.97	4.31
NH3FUG	Ammonia Fugitives	NH <sub>3</sub>	0.66	2.90
OILDEMIST	Oil Mist Eliminator (All turbines)	VOC	0.048	0.24

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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 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
    - NH<sub>3</sub> - ammonia
    - H<sub>2</sub>SO<sub>4</sub> - sulfuric acid mist
- \* NO<sub>x</sub>, CO, VOC, and PM<sub>10</sub> emissions regulated under PSD-TX-952 permit authorization.

Dated \_\_\_\_\_