

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 37613 and PSDTX900

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**
1	Unit 1 GE Frame FACombustionTurbine /HRSG Stack (Normal Operation)	NO _x CO VOC PM/PM ₁₀ /PM _{2.5} SO ₂ H ₂ SO ₄	106.1 51.5 0.6 23.11 27.06 3.31	430.1 206.9 2.4 83.2 19.57 2.4
	Unit 1 GE Frame 7FACombustion Turbine/HRSG Stack (Startup/Shutdown/ Reduced Loads Operation)	NO _x CO VOC PM/PM ₁₀ /PM _{2.5} SO ₂ H ₂ SO ₄	650 2890 183 21.66 15.19 1.86	71.25 223.2 5.32 5.13 0.65 0.08
2	Unit 2 GE Frame 7FA Combustion Turbine/HRSG Stack (Normal Operation)	NO _x CO VOC PM/PM ₁₀ /PM _{2.5} SO ₂ H ₂ SO ₄	106.1 51.5 0.6 23.11 27.06 3.31	430.1 206.9 2.4 83.2 19.57 2.4
	Unit 2 GE Frame 7FA Combustion Turbine/HRSG Stack (Start-up/Shutdown/ Reduced Loads Operation)	NO _x CO VOC PM/PM ₁₀ /PM _{2.5} SO ₂ H ₂ SO ₄	650 2890 183 21.66 15.19 1.86	71.25 223.2 5.32 5.13 0.65 0.08

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			lb/hr	TPY**
3	Natural Gas Piping Fugitives for Units 1 & 2 (5)	VOC H ₂ S	0.10 0.02	0.46 0.01
4	Cooling Tower	PM/PM ₁₀ HOCl HCl H ₂ SO ₄ H ₃ PO ₄ C ₆ H ₄ N ₃ Na	2.04 0.04 0.03 <0.01 <0.01 <0.01	8.94 0.19 0.13 <0.01 <0.01 <0.01
CTG1-OV	Unit 1 Combustion Turbine Lube Oil Tank, Unloading, and Piping	VOC PM/PM ₁₀ /PM _{2.5}	0.09 0.09	0.40 0.40
CTG2-OV	Unit 2 Combustion Turbine Lube Oil Vent, Unloading, and Piping	VOC PM/PM ₁₀ /PM _{2.5}	0.09 0.09	0.40 0.40
STG1-OV	Steam Turbine Lube Oil Vent, Unloading, and Piping	VOC PM/PM ₁₀ /PM _{2.5}	0.09 0.09	0.40 0.40
PUMP-DSL	Diesel Pump Engine Stack and Engine Lube Oil Crankcase	NO _x CO VOC PM/PM ₁₀ /PM _{2.5} SO ₂ H ₂ SO ₄	7.75 1.67 0.63 0.56 1.01 0.15	3.39 0.73 0.32 0.25 0.44 0.07
CDTK-CT1	Unit 1 Natural Gas Condensate Tank	VOC H ₂ S	<0.01 <0.01	0.02 <0.01

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CDTK-CT2	Unit 2 Natural Gas Condensate Tank	VOC H ₂ S	<0.01 <0.01	0.02 <0.01
AIR CONTAMINANTS DATA				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
SCVENT1	Hydrogen Scavenging Vent	VOC	<0.01	<0.01
SCVENT2	Hydrogen Scavenging Vent	VOC	<0.01	<0.01

- (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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - NO_x - total oxides of nitrogen
 - SO₂ - sulfur dioxide
 - PM - particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}
 - PM₁₀ - particulate matter, suspended in the atmosphere, equal to or less than 10 microns in diameter
 - PM_{2.5} - particulate matter, suspended in the atmosphere, equal to or less than 2.5 microns in diameter
 - CO - carbon monoxide
 - H₂SO₄ - sulfuric acid
 - HOCl - hypochlorous acid
 - HCl - hydrochloric acid
 - H₂S - hydrogen sulfide
 - H₃PO₄ - phosphoric acid
 - C₆H₄N₃Na - benzotriazole
- (4) The PM includes condensibles (both front half and back half of the sample train).
- (5) Fugitive emissions are an estimate only, and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.

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

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24 Hrs/day 7 Days/week 52 Weeks/year or 8,760 Hrs/year

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

Dated September 8, 2009