

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 48106 and PSD-TX-1012M1

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**
SH1 (11) SH2 SH3 SH4 SH6 SH7	GE LM 6000 (~50 MW) Simple Cycle (≤ 2750 hrs/yr) (4)	NO _x	8.6	11.9
		NO _x (MSS)	203.7	
		CO	44.2	60.8
		CO (MSS)	923.0	
		VOC	4.1	5.6
		VOC (MSS)	17.6	
		PM/PM ₁₀	4.0	5.5
		SO ₂	0.3	0.5
		NH ₃	4.5	6.1
	GE LM 6000 (~50 MW) Simple Cycle (with CO Catalyst)	NO _x	8.6	37.8
		NO _x (MSS)	203.7	
		CO	9.5	41.4
		CO (MSS)	923.0	
		VOC	1.2	5.3
		VOC (MSS)	17.6	
		PM/PM ₁₀	4.0	17.5
		SO ₂	0.3	1.5
		NH ₃	4.5	19.6
SH5	GE 7FA (~ 164 MW) HRSG (~681 MMBtu/hr) (Combined Cycle) (9)	NO _x	46.7	191.4
		NO _x (MSS)	247.0	
		CO	98.4	403.3
		CO (MSS)	626.0	
		VOC	16.4	67.4
		VOC (MSS)	107.1	
		PM/PM ₁₀	32.8	134.5
		SO ₂	1.6	7.3
		NH ₃	24.2	99.0

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HTR-01 (11) HTR-02 HTR-03	Inlet Air Heaters Nos. 1-3 (5)	NO _x CO VOC PM/PM ₁₀ SO ₂	0.49 0.41 0.03 0.04 <0.01	0.25 0.21 0.01 0.02 <0.01
HTR-04 (11) HTR-05	Inlet Air Heaters Nos. 4-5 (5)	NO _x CO VOC PM/PM ₁₀ SO ₂	0.37 0.31 0.02 0.03 <0.01	0.18 0.15 0.01 0.01 <0.01
SC CTWR-1(11) SC CTWR-2 SC CTWR-3	Simple Cycle Cooling Towers 1-3 (7)	PM/PM ₁₀	0.21	0.42
SC CTWR-4(11) SC CTWR-5	Simple Cycle Cooling Towers 4-5 (7)	PM/PM ₁₀	0.03	0.06
CLTWR-1	Cooling Tower 1 (Combined Cycle) (9)	PM/PM ₁₀	2.74	12.0
SC PB FUG	Simple Cycle Power Block Fugitives (6, 8)	VOC	<0.01	0.01
SC MS FUG	Simple Cycle Natural Gas Meter Skid (6, 8)	VOC	<0.01	0.02
CC PB FUG	Combined Cycle Power Block Fugitives (6, 8)	VOC	<0.01	<0.01
CC MS FUG	Combined Cycle Natural Gas Meter Skid (6, 8)	VOC	0.01	0.03
SC AMFUG	Simple Cycle Ammonia Fugitives (6, 8)	NH ₃	0.25	1.1

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CC AMFUG	Combined Cycle Ammonia Fugitives (6, 8)	NH ₃	0.11	0.46
Tank 5-4	Oil/Water Separator	VOC	<0.01	0.02
EDG	Emergency Diesel Generator Twin-Pack (10)	NO _x CO VOC PM/PM ₁₀ SO ₂	7.3 1.4 0.37 0.2 <0.01	3.2 0.6 0.14 0.1 <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 equal to or less than 10 microns in diameter
- PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
- CO - carbon monoxide
- NH₃ - ammonia
- MSS - maintenance, start-up, and shutdown emissions
- (4) SH1, SH2, SH3, SH4, SH6, and SH7 are limited to 2,750 hours of operation per year until the requirements of Special Condition No. 12 have been met.
- (5) Emissions are based on 1,000 operating hours per year.
- (6) Fugitive emissions are an estimate based on component count and applicable fugitive emission factors.
- (7) Emissions are based on 4,000 operating hours per year.
- (8) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (9) Emissions are based on 8,200 operating hours per year.
- (10) Emissions are based on 876 operating hours per year.
- (11) The pounds per hour and the tons per year emission rates apply to each emission point.

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

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

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

Dated September 24, 2008