

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 40620 and PSD-TX-931

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)	<u>Emission Rates *</u>	
			lb/hr	TPY
S-1 (BS-1)	GE Model 7241FA Gas Turbine (6)	NO _x (8)	63.0	254.1
		NO _x (9)	24.9	93.0
		NO _x (10)	650.0	
		CO	52.2	1073.0
		CO (10)	1900.0	
		SO ₂	11.9	5.6
		VOC	7.2	32.0
		PM/PM ₁₀ (4)	20.7	90.4
		H ₂ SO ₄	1.6	0.8
		NH ₃ (11)	26.3	81.0
S-2 (BS-2)	GE Model 7241FA Gas Turbine (6)	NO _x (8)	63.0	254.1
		NO _x (9)	24.9	93.0
		NO _x (10)	650.0	
		CO	52.2	1073.0
		CO (10)	1900.0	
		SO ₂	11.9	5.6
		VOC	7.2	32.0
		PM/PM ₁₀ (4)	20.7	90.4
		H ₂ SO ₄	1.6	0.8
		NH ₃ (11)	26.3	81.0
S-3 (BS-3)	GE Model 7241FA Gas Turbine (6)	NO _x	63.0	254.1
		NO _x (10)	650.0	
		CO	31.0	980.0
		CO (10)	1900.0	
		SO ₂	10.5	5.0
		VOC	3.0	12.3
		PM/PM ₁₀ (4)	18.0	78.9
		H ₂ SO ₄	0.8	0.4
5	Piping Fugitives (5)	VOC	0.13	0.6

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	AIR CONTAMINANTS DATA	
			Emission Rates *	
			lb/hr	TPY
NH3-FUG-1	Unit 1 NH ₃ Fugitives	NH ₃	0.06	0.3
NH3-FUG-2	Unit 2 NH ₃ Fugitives	NH ₃	0.06	0.3
C-1	Cooling Tower-1	PM	1.88	8.2
		PM ₁₀	0.62	2.72
C-2	Cooling Tower-2 (7)	PM	0.86	3.8
		PM ₁₀	0.28	1.24
H-1	Fuel Heater (7)	NO _x	1.68	7.36
		CO	1.38	6.06
		SO ₂	0.01	0.04
		VOC	0.09	0.40
		PM/PM ₁₀ (4)	0.13	0.55

- (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 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.
 PM₁₀ - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
 CO - carbon monoxide
 H₂SO₄ - sulfuric acid
 NH₃ - ammonia
- (4) Particulate matter includes condensibles (both front half and back half of the sample train).
- (5) Fugitive emissions are an estimate only.

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- (6) Emission rates are based on either simple or combined cycle mode operation. S-1, S-2, and S-3 are stack designations for combined cycle operation and BS-1, BS-2, and BS-3 are stack designations for simple cycle operation.
- (7) These emission sources were previously permitted by rule.
- (8) Emission rate for simple cycle mode.
- (9) Emission rate for combined cycle mode with duct firing.
- (10) Emission rates for Start-up/Shutdown/Reduced load operations.
- (11) Ammonia emission limits only apply to EPNs S-1 and S-2, not EPNs BS-1 and BS-2.

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

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

Dated February 27, 2009