

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 46192 and PSD-TX-983

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 and Duct Burner (Hourly Limits)				
GT-2	Cogeneration Train 2 (Turbine and Duct Burner Emissions)	NO _x (4)	11.43	
		CO(5)	66.81	
		PM/PM ₁₀ (5)	10.03	
		VOC	6.14	
		SO ₂	12.66	
		NH ₃	8.45	
		H ₂ SO ₄	1.94	
GT-3	Cogeneration Train 3 (Turbine and Duct Burner Emissions)	NO _x (4)	11.43	
		CO(5)	66.81	
		PM/PM ₁₀ (5)	10.03	
		VOC	6.14	
		SO ₂	12.66	
		NH ₃	8.45	
		H ₂ SO ₄	1.94	
GT-SUGEN	Diesel Start-Up Engine	NO _x (4)	21.60	1.08
		CO(5)	4.95	0.25
		PM/PM ₁₀ (5)	0.63	0.04
		VOC	0.58	0.03
		SO ₂	2.91	0.15
Turbines and Duct Burners (Combined Annual Limits)				
GT-2 and GT-3	Cogeneration Train 2 and 3 (Turbine and Duct Burner Emissions)	NO _x		90.77
		CO(5)		373.51
		PM/PM ₁₀ (5)		71.32
		VOC		40.88
		SO ₂		10.06
		NH ₃		67.09
		H ₂ SO ₄		1.54

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY
COGENCWT	Cooling Water Tower (Two cells)	PM/PM ₁₀	0.54	2.35
GT-2Lube	Gas Turbine Lube Oil Vent for Cogeneration Train 2	PM/PM ₁₀	0.05	0.22
GT-3Lube	Gas Turbine Lube Oil Vent for Cogeneration Train 3	PM/PM ₁₀	0.05	0.22
COGENFUG	Natural Gas and Fuel Gas Fugitives	VOC H ₂ S <0.001	0.45 <0.001	1.98
NH3FUG2	Ammonia Fugitives	NH ₃	0.26	1.15

- (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 Title 30 Texas Administrative Code § 101.1
SO₂ - sulfur dioxide
NH₃ - ammonia
H₂SO₄ - sulfuric acid mist
H₂S - hydrogen sulfide
- (4) The maximum lb/hr NO_x emission rate is based upon a rolling three-hour average concentration. The lb/hr NO_x emission rate listed above represents a maximum three-hour average pound-per-hour emission rate.
- (5) The CO and PM₁₀ emissions regulated under PSD-TX-983 permit authorization.

Dated _____