

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Nos. 40496 and PSD-TX-929

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	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
<u>Turbine and Duct Burner (Hourly Limits) When Duct Burners Firing Natural Gas Only</u>				
CTG-1	Turbine/HRSG	NO _x	41.40	
		CO	90.49	
		VOC	9.83	
		SO ₂	35.6	
		PM/PM ₁₀	23.06	
		NH ₃	32.8	
		H ₂ SO ₄	3.6	
CTG-2	Turbine/HRSG	NO _x	41.40	
		CO	90.49	
		VOC	9.83	
		SO ₂	35.6	

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AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	Emission Rates
Point No. (1)	Name (2)	Name (3)	lb/hrTPY
		PM/PM ₁₀	23.06
		NH ₃	32.8
		H ₂ SO ₄	3.6

Turbine and Duct Burner (Hourly Limits) When Duct Burners Firing Mixtures of Approved Gases

CTG-1 and CTG-2	Two Turbines/HRSG DBs	NO _x	349.8
		CO	682.7
		VOC	26.3
		SO ₂	71.2
		PM/PM ₁₀	46.1
		NH ₃	65.6
		H ₂ SO ₄	7.1

Turbine and Duct Burner (Combined Annual Limits) For All Fuels Fired In Duct Burners

CTG-1 and CTG-2	Two Turbines/HRSG DBs	NO _x	379.5	
		CO	2345.5	
		VOC	63.3	
		SO ₂	9.0	
		PM/PM ₁₀	189.4	
		NH ₃	259.6	
		H ₂ SO ₄	0.90	
CTG-CT-1	Cooling Tower	PM/PM ₁₀	2.48	10.85
CTGFUG	Fugitives (4)	VOC	0.007	0.031
		NH ₃	0.16	0.70

(1) Emission point identification - either specific equipment designation

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hrTPY</u>

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
 VOC - volatile organic compounds as defined in 30 Texas Administrative Code Section 101.1.
 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 particulate matter greater than 10 microns is emitted.
 NH₃ - ammonia
 H₂SO₄ - sulfuric acid

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

* Gas turbine emission rates are based on and the gas turbine is limited by the following maximum operating schedule:

Hrs/day 24 Days/week 7 Hours/year 8,760

Dated _____