

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Nos. 42905/ PSD-TX-961/N023

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	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY

HOURLY STACK EMISSION LIMITS AFTER SCR CATALYST - Natural Gas + Syngas Firing - Base Load

			Base Load
COGEN1	Gas Turbine/HRSG stack 1	NO _x	()
	(Westinghouse 501FD Turbine	CO	()
	With 600 MMBtu/hr Duct Burner	VOC	()
		SO ₂	()
		PM ₁₀	()
		NH ₃	()

ANNUAL STACK EMISSION LIMITS AFTER SCR CATALYST - Natural Gas + Syngas Firing - Base Load for hrs

COGEN1	Gas Turbine/HRSG Stack 1	NO _x	
	(Westinghouse 501FD Turbine	CO	
	With 600 MMBtu/hr Duct Burner)	VOC	
		SO ₂	
		PM ₁₀ (front half only)	
		PM ₁₀ (front and back half)	
		NH ₃	

AUXILIARY EQUIPMENT EMISSIONS:

EMGEN1	Emergency Generator 1	NO _x	10.4	2.6
		CO	2.2	0.6
		VOC	0.8	0.2
		SO ₂	0.1	<0.1

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
		PM ₁₀ 0.7	0.2	
FWPUMP-1	Fire Water Pump	NOx	9.6	2.4
		CO 2.1	0.5	
		VOC 0.8	0.2	
		SO ₂ 0.1	<0.1	
		PM ₁₀ 0.7	0.2	
LOVCTG-1	Gas Turbine Lube Oil Vent	PM/PM ₁₀	0.05	0.22
LOVSTG-1	Steam Turbine Lube Oil Vent	PM/PM ₁₀	0.05	0.22
FUGFUEL-1	Fuel Gas Fugitives	VOC	0.1	0.2
FUGNH3-1	Ammonia Fugitives	NH ₃	0.1	0.6

(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) 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

PM₁₀ - particulate matter (PM) 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

(4) These emissions are permitted under PSD and state.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule. The allowables listed apply to each of the two gas turbine stacks.

24 Hrs/day 7 Days/week 52 Weeks/year

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			<u>lb/hr</u>	<u>TPY</u>

Emissions listed in parentheses represent the maximum (worst-case) hourly emissions allowed. Maximum hourly emissions of NO_x, NH₃, SO₂, and PM₁₀ are expected to occur at percent load at ...°F. Maximum hourly emissions of CO and VOC are expected to occur at percent of base load at°F. The annual emissions of the pollutants are calculated using the hourly emissions at a base load at°F for hours per year.

** Annual CO emission rates calculated based on the hourly CO emission rate of at percent load for hrs.

Dated_____