EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Nos. 17411 and PSD-TX-720-M2

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>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
CASE I: Gas Firing with HRSG Unfired				
E-1**	GE Frame 7 Turbine 90 MWe (Max) with 130 MMBtu/hr HRSG Unfired (4) (5)	VOC NO_x SO_2 PM CO	2.2 214.0 29.6 5.0 24.0	9.3 810.0 120.0 21.9 105.0
E-2**	GE Frame 7 Turbine 90 MWe (Max) with 130 MMBtu/hr HRSG Unfired (4) (5)	VOC NO _x SO ₂ PM CO	2.2 185.0 29.6 5.0 25.2	8.7 810.0 103.1 21.9 99.4
CASE II: Gas Fi	ring with HRSG Firing			
E-1	GE Frame 7 Turbine 90 MWe (Max) with 130 MMBtu/hr HRSG Firing (4) (5)	VOC NO _x SO ₂ PM CO	6.2 227.0 31.5 5.4 50.5	9.9 384.0 56.7 10.4 84.2
E-2	GE Frame 7 Turbine 90 MWe (Max) with 130 MMBtu/hr HRSG Firing (4) (5)	VOC NO_{x} SO_{2} PM CO	6.2 198.0 31.5 5.4 51.7	9.6 384.0 49.1 10.4 80.7

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission	Source /	Air Contaminant	Emission Rates		
Point No. (1)	Name (2)	Name (3)	lb/hr		
<u>TPY</u>					
CASE III: Jet A F	uel Firing				
E-1**	GE Frame 7 Turbine 90 MWe (Max) with 130 MMBtu/hr HRSG Unfired (4) (5)	VOC NO_{x} SO_{2} PM CO	7.0 5.0 285.0 189.0 42.0 28.0 10.0 7.2 24.2 17.4		
E-2**	GE Frame 7 Turbine 90 MWe (Max) with 130 MMBtu/hr HRSG Unfired (4) (5)	VOC NO_x SO_2 PM CO	7.0 5.0 245.0 176.0 42.0 26.4 10.0 7.2 25.4 16.2		
CASE IV: Turbines at Reduced Loads (6)					
E-1**	GE Frame 7 Turbine	VOC NO_x SO_2 PM CO	14.6 285.0 42.0 10.0 325.0		
E-2**	GE Frame 7 Turbine	VOC NO _x SO ₂ PM CO	14.6 245.0 36.7 10.0 325.0 -		
Other Equipment:					
E-3	Start-Up and Emergent Electrical Generate 2,010-hp Diesel-Fi	or NO _x	1.3 1.0 54.5 40.0 0.5 0.4 0.5 0.4		

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR

CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emission Rates</u>
Point No. (1)	Name (2)	Name (3)	lb/hr TPY
Fugitive	Piping Fugitives	VOC	0.8 3.6

- (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) VOC volatile organic compounds as defined in 30 Texas Administrative Code Section 101.1.

 NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

PM - particulate matter, suspended in the atmosphere, including PM_{10} .

 PM_{10} - 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.

CO - carbon monoxide

- (4) Maximum electric output and emissions occur at 10°F ambient temperature.
- (5) HRSG Heat Recovery Steam Generator.
- (6) Reduced loads for the turbines shall be defined as periods of electrical output of less than 45 MW that last not more than six hours.
 - * Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Gas Turbines <u>8.760</u> Hrs/year

HRSGs <u>624,000</u> MMBtu/year for both duct burners combined

Gas Turbines Firing

Jet A Fuel <u>1,440</u> Hrs/year for each turbine

Diesel-Fired Electrical Generator 1.440 Hrs/year

** Emissions may be vented through HRSG bypass stack.

Dated ____