Permit Numbers 17411 and PSD-TX-720-M2

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicants 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

Source	Air Contaminant	<u>Emissio</u>	n Rates *
Name (2)	Name (3)	lb/hr	TPY (4)
ith HRSG Unfired			
GE Frame 7 Turbine	VOC	2.2	
90 MWe (Max) with	NO_x	214	
130 MMBtu/hr HRSG	SO_2	29.6	
Unfired (4) (5)	PM_{10}	5.0	
	CO	24.0	
GE Frame 7 Turbine	VOC	2.2 185	
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	=		
	CO	25.2	
vith HRSG Firing			
GE Frame 7 Turbine	VOC	6.2	
90 MWe (Max) with	NO_x	227	
130 MMBtu/hr HRSG	SO_2	31.5	
Firing (4) (5)	PM_{10}	5.4	
	CO	50.5	
CE Frame 7 Turbine	V/OC	6.2	
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· ····································	CO	51.7	
	ith HRSG Unfired GE Frame 7 Turbine 90 MWe (Max) with 130 MMBtu/hr HRSG Unfired (4) (5) GE Frame 7 Turbine 90 MWe (Max) with 130 MMBtu/hr HRSG Unfired (4) (5) with HRSG Firing GE Frame 7 Turbine 90 MWe (Max) with 130 MMBtu/hr HRSG	Name (2) Name (3) ith HRSG Unfired VOC GE Frame 7 Turbine VOC 90 MWe (Max) with NOx 130 MMBtu/hr HRSG SO2 Unfired (4) (5) PM10 GE Frame 7 Turbine VOC 90 MWe (Max) with NOx 130 MMBtu/hr HRSG SO2 Unfired (4) (5) PM10 CO VOC 90 MWe (Max) with NOx 130 MMBtu/hr HRSG SO2 Firing (4) (5) PM10 CO VOC 90 MWe (Max) with NOx 130 MMBtu/hr HRSG SO2 Firing (4) (5) PM10	Name (2) Name (3) Ib/hr

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission Rates *		
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY (4)	
CASE III: Jet A Fuel Firing					
E-1**	GE Frame 7 Turbine 90 MWe (Max) with 130 MMBtu/hr HRSG Unfired (4) (5)	VOC NO_x SO_2 PM_{10} CO	7.0 285 42.0 10.0 24.2	 	
E-2**	GE Frame 7 Turbine 90 MWe (Max) with 130 MMBtu/hr HRSG Unfired (4) (5)	VOC NO_x SO_2 PM_{10} CO	7.0 245 42.0 10.0 25.4	 	
CASE IV: Turbines at	Reduced Loads (6)				
E-1**	GE Frame 7 Turbine	VOC NO_x SO_2 PM_{10} CO	14.6 285 42.0 10.0 325	 	
E-2**	GE Frame 7 Turbine	VOC NO_x SO_2 PM_{10} CO	14.6 245 42 10.0 325	 	
ANNUAL EMISSION LIMITS - WORSE-CASE					
E-1 and E-2 combined	GE Frame 7 Turbines	VOC NO_x SO_2 PM_{10} CO	 	47.5 3283 383.7 79.0 403	

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY (4)
Other Equipment:				
E-3	Start-Up and Emergency Electrical Generator 2,010-hp Diesel-Fired	VOC NO_x SO_2 PM_{10} CO	1.3 54.5 0.5 0.5 10.7	1.0 40.0 0.4 0.4 8.0
Fugitive	Piping Fugitives	VOC	8.0	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 Title 30 Texas Administrative Code § 101.1.

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

 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:
- ** Emissions may be vented through HRSG bypass stack.

Gas Turbines Firing Sweet
Natural Gas (each) 8,760 Hrs/year

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

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY (4)

Gas Turbines Firing

Jet A Fuel (each) 1,440 Hrs/year

Diesel-Fired

Electrical Generator <u>1,440</u> Hrs/year

Dated <u>July 14, 2005</u>