## Permit Numbers 17411 and PSDTX720M2

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, sources, and related activities. 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.	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
(1)			lbs/hour	TPY (4)
Case I: Gas Firing with	HRSG Unfired			
90 MWe (N 130 MMBtu	GE Frame 7 Turbine	VOC	2.2	
	90 MWe (Max) with 130 MMBtu/hr	NO <sub>x</sub>	214	
	HRSG Unfired	SO <sub>2</sub>	29.6	
		РМ	5.0	
	PM <sub>10</sub>	5.0		
	PM <sub>2.5</sub>	5.0		
		СО	24.0	
\ \ \ \	GE Frame 7 Turbine 90 MWe (Max) with 130 MMBtu/hr HRSG Unfired	VOC	2.2	
		NO <sub>x</sub>	185	
HR		SO <sub>2</sub>	29.6	
		РМ	5.0	
		PM <sub>10</sub>	5.0	
		PM <sub>2.5</sub>	5.0	
		СО	25.2	
Case II: Gas Firing with	n HRSG Firing			
9	GE Frame 7 Turbine 90 MWe (Max) with 130 MMBtu/hr HRSG Firing	voc	6.2	
		NO <sub>x</sub>	227	
		SO <sub>2</sub>	31.5	
		РМ	5.4	
		PM <sub>10</sub>	5.4	
		PM <sub>2.5</sub>	5.4	
	СО	50.5		

			I	1
E-2	GE Frame 7 Turbine	VOC	6.2	
90 MWe (Max) with 130 MMBtu/hr HRSG Firing	130 MMBtu/hr	NO <sub>x</sub>	198	
	SO <sub>2</sub>	31.5		
		РМ	5.4	
		PM <sub>10</sub>	5.4	
		PM <sub>2.5</sub>	5.4	
	СО	51.7		
Case III: Jet A Fuel Firi	ing			
9	GE Frame 7 Turbine 90 MWe (Max) with 130 MMBtu/hr HRSG Unfired	VOC	7.0	
		NO <sub>x</sub>	285	
		SO <sub>2</sub>	42.0	
		РМ	10.0	
		PM <sub>10</sub>	10.0	
		PM <sub>2.5</sub>	10.0	
		СО	24.2	
E-2/E-2a (7)	GE Frame 7 Turbine 90 MWe (Max) with 130 MMBtu/hr HRSG Unfired	voc	7.0	
		NO <sub>x</sub>	245	
		SO <sub>2</sub>	42.0	
		РМ	10.0	
		PM <sub>10</sub>	10.0	
		PM <sub>2.5</sub>	10.0	
		СО	25.4	
Case IV: Turbines at R	educed Loads (6)			
E-1/E-1a (7)	GE Frame 7 Turbine	VOC	14.6	
		NO <sub>x</sub>	285	
		SO <sub>2</sub>	42.0	
		РМ	10.0	
		PM <sub>10</sub>	10.0	
		PM <sub>2.5</sub>	10.0	
Project Number: 222025				

1			<u> </u>	
		СО	325	
E-2/E-2a (7) GE Frame 7 Tu	GE Frame 7 Turbine	VOC	14.6	
		NO <sub>x</sub>	245	
		SO <sub>2</sub>	42	
		РМ	10.0	
		PM <sub>10</sub>	10.0	
		PM <sub>2.5</sub>	10.0	
		СО	325	
Annual Limits Worst Ca	ase			
E-1 and E-2 combined	GE Frame 7 Turbines	VOC		47.5
		NO <sub>x</sub>		3283
		SO <sub>2</sub>		383.7
		РМ		79.0
		PM <sub>10</sub>		79.0
		PM <sub>2.5</sub>		79.0
		со		403
Other Equipment			•	
E-3	Start-Up Emergency Electrical Generator 2,010-hp Diesel- Fired	VOC	1.3	1.0
		NO <sub>x</sub>	54.5	40.0
		SO <sub>2</sub>	0.5	0.4
		РМ	0.5	0.4
		PM <sub>10</sub>	0.5	0.4
		PM <sub>2.5</sub>	0.5	0.4
		со	10.7	8.0
Fugitive (5)	Piping Fugitives	VOC	0.8	3.6

<sup>(1)</sup> Emission point identification - either specific equipment designation or emission point number from plot

(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1  $NO_x$ 

- total oxides of nitrogen

 $SO_2$ - sulfur dioxide

<sup>(2)</sup> Specific point source name. For fugitive sources, use area name or fugitive source name.

PM - total particulate matter, suspended in the atmosphere, including  $PM_{10}$  and  $PM_{2.5}$  - total particulate matter equal to or less than 10 microns in diameter, including  $PM_{2.5}$ 

PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide

HRSG - heat recovery steam generator

- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (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.
- (7) Emissions may be vented through HRSG bypass stack (E-1a and E-2a).

Date: June 18, 2015
---------------------