EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 83690 and PSD-TX-1113

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				
Option 1: GE 7FA				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
S-1	Gas Turbine Unit 1 Duct Burner Unit 1 Unit 1 HRSG Stack	NO_x NO_x (4) SO_2 CO CO (4) VOC VOC (4) PM/PM_{10} H_2SO_4 NH_3 $(NH_4)_2SO_4$	19.5 650.0 13.6 11.9 2890.0 6.8 183.0 20.8 1.9 36.0 2.5	177.8 --- 54.4 761.4 --- 59.7 --- 91.1 7.5 145.6 10.1
S-2	Gas Turbine Unit 2 Duct Burner Unit 2 Unit 2 HRSG Stack	NO_x NO_x (4) SO_2 CO CO (4) VOC VOC (4) PM/PM_{10} H_2SO_4 NH_3 $(NH_4)_2SO_4$	19.5 650.0 13.6 11.9 2890.0 6.8 183.0 20.8 1.9 36.0 2.5	177.8 --- 54.4 761.4 --- 59.7 --- 91.1 7.5 145.6 10.1

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA				
Option 1: GE 7FA				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
S-3	Gas Turbine Unit 3 Duct Burner Unit 3 Unit 3 HRSG Stack	NO_x NO_x (4) SO_2 CO CO (4) VOC VOC (4) PM/PM_{10} H_2SO_4 NH_3 $(NH_4)_2SO_4$	19.5 650.0 13.6 11.9 2890.0 6.8 183.0 20.8 1.9 36.0 2.5	177.8 --- 54.4 761.4 --- 59.7 --- 91.1 7.5 145.6 10.1
S-4	Gas Turbine Unit 4 Duct Burner Unit 4 Unit 4 HRSG Stack	NO_x NO_x (4) SO_2 CO CO (4) VOC VOC (4) PM/PM_{10} H_2SO_4 NH_3 $(NH_4)_2SO_4$	19.5 650.0 13.6 11.9 2890.0 6.8 183.0 20.8 1.9 36.0 2.5	177.8 --- 54.4 761.4 --- 59.7 --- 91.1 7.5 145.6 10.1

AIR CONTAMINANTS DATA

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Option 2: GE 7FB				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
S-1	Gas Turbine Unit 1 Duct Burner Unit 1 Unit 1 HRSG Stack	NO_x NO_x (4) SO_2 CO CO (4) VOC VOC (4) PM/PM_{10} H_2SO_4 NH_3 $(NH_4)_2SO_4$	19.7 650.0 13.8 12.0 2890.0 6.9 183.0 20.8 1.9 36.4 2.6	180.2 --- 56.5 762.8 --- 60.5 --- 91.1 7.8 150.7 10.5
S-2	Gas Turbine Unit 2 Duct Burner Unit 2 Unit 2 HRSG Stack	NO_x NO_x (4) SO_2 CO CO (4) VOC VOC (4) PM/PM_{10} H_2SO_4 NH_3 $(NH_4)_2SO_4$	19.7 650.0 13.8 12.0 2890.0 6.9 183.0 20.8 1.9 36.4 2.6	180.2 --- 56.5 762.8 --- 60.5 --- 91.1 7.8 150.7 10.5

AIR CONTAMINANTS DATA
Option 2: GE 7FB

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
S-3	Gas Turbine Unit 3 Duct Burner Unit 3 Unit 3 HRSG Stack	NO_x NO_x (4) SO_2 CO CO (4) VOC VOC (4) PM/PM_{10} H_2SO_4 NH_3 $(NH_4)_2SO_4$	19.7 650.0 13.8 12.0 2890.0 6.9 183.0 20.8 1.9 36.4 2.6	180.2 --- 56.5 762.8 --- 60.5 --- 91.1 7.8 150.7 10.5
S-4	Gas Turbine Unit 4 Duct Burner Unit 4 Unit 4 HRSG Stack	NO_x NO_x (4) SO_2 CO CO (4) VOC VOC (4) PM/PM_{10} H_2SO_4 NH_3 $(NH_4)_2SO_4$	19.7 650.0 13.8 12.0 2890.0 6.9 183.0 20.8 1.9 36.4 2.6	180.2 --- 56.5 762.8 --- 60.5 --- 91.1 7.8 150.7 10.5

AIR CONTAMINANTS DATA			
Option 3: Siemens SGT6-5000F			
Emission	Source	Air Contaminant	Emission Rates *

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

			lb/hr	TPY**
S-1	Gas Turbine Unit 1 Duct Burner Unit 1 Unit 1 HRSG Stack	NO_x NO_x (4) SO_2 CO CO (4) VOC VOC (4) PM/PM_{10} H_2SO_4 NH_3 $(NH_4)_2SO_4$	21.1 650.0 14.7 12.8 2890.0 7.3 183.0 20.8 2.0 39.0 2.7	125.4 --- 59.4 765.3 --- 46.9 --- 91.1 8.2 159.2 11.0
S-2	Gas Turbine Unit 2 Duct Burner Unit 2 Unit 2 HRSG Stack	NO_x NO_x (4) SO_2 CO CO (4) VOC VOC (4) PM/PM_{10} H_2SO_4 NH_3 $(NH_4)_2SO_4$	21.1 650.0 14.7 12.8 2890.0 7.3 183.0 20.8 2.0 39.0 2.7	125.4 --- 59.4 765.3 --- 46.9 --- 91.1 8.2 159.2 11.0

AIR CONTAMINANTS DATA				
Option 3: Siemens SGT6-5000F				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

S-3	Gas Turbine Unit 3 Duct Burner Unit 3 Unit 3 HRSG Stack	NO_x NO_x (4) SO_2 CO CO (4) VOC VOC (4) PM/PM_{10} H_2SO_4 NH_3 $(NH_4)_2SO_4$	21.1 650.0 14.7 12.8 2890.0 7.3 183.0 20.8 2.0 39.0 2.7	125.4 --- 59.4 765.3 --- 46.9 --- 91.1 8.2 159.2 11.0
S-4	Gas Turbine Unit 4 Duct Burner Unit 4 Unit 4 HRSG Stack	NO_x NO_x (4) SO_2 CO CO (4) VOC VOC (4) PM/PM_{10} H_2SO_4 NH_3 $(NH_4)_2SO_4$	21.1 650.0 14.7 12.8 2890.0 7.3 183.0 20.8 2.0 39.0 2.7	125.4 --- 59.4 765.3 --- 46.9 --- 91.1 8.2 159.2 11.0

AIR CONTAMINANTS DATA				
Common Equipment				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AUXBLR-1	Auxiliary Boiler No. 1	NO_x SO_2 CO VOC PM/PM_{10}	1.4 0.2 2.4 0.2 0.3	2.1 0.34 3.6 0.33 0.45
AUXBLR-2	Auxiliary Boiler No. 2	NO_x SO_2 CO VOC PM/PM_{10}	1.4 0.2 2.4 0.2 0.3	2.1 0.34 3.6 0.33 0.45
AUXBLR-3	Auxiliary Boiler No. 3	NO_x SO_2 CO VOC PM/PM_{10}	1.4 0.2 2.4 0.2 0.3	2.1 0.34 3.6 0.33 0.45
AUXBLR-4	Auxiliary Boiler #4	NO_x SO_2 CO VOC PM/PM_{10}	1.4 0.2 2.4 0.2 0.3	2.1 0.34 3.6 0.33 0.45
NG-FUG (5)	Piping Fugitives	VOC	0.4	1.7
NH_3-FUG-1 (5)	Unit 1 NH_3 Fugitives	NH_3	0.1	0.3
NH_3-FUG-2 (5)	Unit 2 NH_3 Fugitives	NH_3	0.1	0.3
NH_3-FUG-3 (5)	Unit 3 NH_3 Fugitives	NH_3	0.1	0.3
NH_3-FUG-4 (5)	Unit 4 NH_3 Fugitives	NH_3	0.1	0.3
CT-1	Cooling Tower 1	PM PM_{10}	1.0 0.3	4.4 1.1

AIR CONTAMINANTS DATA				
Common Equipment				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
CT-2	Cooling Tower 2	PM	1.0	4.4

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

		PM_{10}		
CT-3	Cooling Tower 2	PM PM_{10}	1.0 0.3	4.4 1.1
CT-4	Cooling Tower 4	PM PM_{10}	1.0 0.3	4.4 1.1
EMGEN-1	Em. Generator 1 Stack	NO_x SO_2 CO VOC PM/PM_{10}	18.0 <0.01 4.1 0.5 0.5	4.5 <0.01 1.0 0.12 0.13
EMGEN-2	Em. Generator 2 Stack	NO_x SO_2 CO VOC PM/PM_{10}	18.0 <0.01 4.1 0.5 0.5	4.5 <0.01 1.0 0.12 0.13
FWPUMP-1	Firewater Pump 1 Stack	NO_x SO_2 CO VOC PM/PM_{10}	9.3 <0.01 2.0 0.7 0.7	2.3 <0.01 0.5 0.17 0.17
T-DSL-1	Diesel Fuel Tank 1	VOC	0.1	<0.01
T-DSL-2	Diesel Fuel Tank 2	VOC	0.1	<0.01
T-DSL-3	Diesel Fuel Tank 3	VOC	<0.1	<0.01

(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 an 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
SO_2 - sulfur dioxide

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

PM_{10} - particulate matter, suspended in the atmosphere, equal to or less than 10 microns in diameter
CO - carbon monoxide
H_2SO_4 - sulfuric acid
NH_3 - ammonia
$(NH_4)_2SO_4$ - ammonium sulfate

(4) Emission limits during start-up, shutdown events and reduced load events. Start-up, shutdown, and reduced load emissions are included in annual ton per year emissions.

(5) Fugitive emissions are an estimate only, and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

24 Hrs/day 7 Days/week 52 Weeks/year or 8,760 Hrs/year

** Compliance with annual emission limits is based on a rolling 12-month period.

Dated October 24, 2008