EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 83390 and PSD-TX-1108

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				
Scenario One: Siemens 501FD3				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
CBY51	Combined Cycle Stack	NO_x NO_x (4) SO_2 CO CO (4) VOC VOC (4) PM_{10} H_2SO_4 NH_3 H_2CO	19.0 247.1 22.0 96.2 3,471.3 6.6 86.0 19.3 3.4 24.6 0.6	69.7 --- 13.3 347.6 --- 18.8 --- 58.9 2.0 90.1 2.1
CBY52	Combustion Turbine 52	NO_x NO_x (4) SO_2 CO CO (4) VOC VOC (4) PM_{10} H_2SO_4 NH_3 H_2CO	19.0 247.1 22.4 96.2 3,471.3 6.6 86.0 19.3 3.4 24.6 0.6	69.7 --- 13.3 347.6 --- 18.8 --- 58.9 2.0 90.1 2.1

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA				
Scenario Two: MHI 501G				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
CBY51	Combined Cycle Stack	NO_x NO_x (4) SO_2 CO CO (4) VOC VOC (4) PM_{10} H_2SO_4 NH_3 H_2CO	21.0 273.1 25.2 109.1 3,836.5 7.3 63.9 18.2 3.8 27.2 0.6	84.8 --- 16.3 398.6 --- 18.9 --- 56.9 2.5 109.7 2.5
CBY52	Combustion Turbine 52	NO_x NO_x (4) SO_2 CO CO (4) VOC VOC (4) PM_{10} H_2SO_4 NH_3 H_2CO	21.0 273.1 25.2 109.1 3,836.5 7.3 63.9 18.2 3.8 27.2 0.6	84.8 --- 16.3 398.6 --- 18.9 --- 56.9 2.5 109.7 2.5

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA				
Scenario Three: GE 207FB STAG				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
CBY51	Combined Cycle Stack	NO_x NO_x (4) SO_2 CO CO (4) VOC VOC (4) PM_{10} H_2SO_4 NH_3 H_2CO	17.5 227.7 20.3 92.6 3,198.7 6.1 59.4 18.9 3.1 22.7 0.5	64.9 --- 12.5 291.1 --- 17.3 --- 58.3 1.9 84.0 1.9
CBY52	Combustion Turbine 52	NO_x NO_x (4) SO_2 CO CO (4) VOC VOC (4) PM_{10} H_2SO_4 NH_3 H_2CO	17.5 227.7 20.3 92.6 3,198.7 6.1 59.4 18.9 3.1 22.7 0.5	64.9 --- 12.5 291.1 --- 17.3 --- 58.3 1.9 84.0 1.9

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA				
Scenario Four: MHI 501F				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
CBY51	Combined Cycle Stack	NO_x NO_x (4) SO_2 CO CO (4) VOC VOC (4) PM_{10} H_2SO_4 NH_3 H_2CO	18.7 242.9 21.2 90.7 3,411.3 6.5 56.9 19.3 3.2 24.2 0.6	66.1 --- 12.8 255.8 --- 16.0 --- 58.6 2.0 85.5 2.0
CBY52	Combustion Turbine 52	NO_x NO_x (4) SO_2 CO CO (4) VOC VOC (4) PM_{10} H_2SO_4 NH_3 H_2CO	18.7 242.9 21.2 90.7 3,411.3 6.5 56.9 19.3 3.2 24.2 0.6	66.1 --- 12.8 255.8 --- 16.0 --- 58.6 2.0 85.5 2.0

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
CBY51-LOV	Combustion Turbine 51 Lube Oil Vent	PM_{10}	0.05	0.219
CBY52-LOV	Combustion Turbine 52 Lube Oil Vent	PM_{10}	0.05	0.219
U5ST-LOV	Unit 5 Steam Turbine Lube Oil Vent	PM_{10}	0.05	0.219
FUG-NGAS	Fugitive: Natural Gas (5)	VOC	0.17	0.74
FUG-SCR	Fugitive: SCR Piping (5)	NH_3	0.02	0.10
C-TOWER4	Cooling Tower 4	PM_{10}	0.94	4.10
BS-GEN	Black Start Generator	NO_x CO VOC PM_{10} SO_2	11.80 0.53 2.54 0.05 0.38	2.95 0.13 0.64 0.01 0.09

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

(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
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
H_2CO - formaldehyde
(4) Emission limits during start-up or shutdown.
(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 31, 2008