EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 1467 and PSD-TX-1090

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 Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates * lb/hr | TPY |
| S4-1 | Westinghouse 69 MW Turbine Model W501-B6 with 124 MMBtu/hr Duct Burner | $NO_x$ | 188 | 674 |
| | | CO | 840 | 1665 |
| | | $SO_2$ | 17 | 12 |
| | | VOC | 7 | 19 |
| | | $PM/PM_{10}$ | 2 | 6 |
| S4-2 | Westinghouse 69 MW Turbine Model W501-B6 with 124 MMBtu/hr Duct Burner | $NO_x$ | 188 | 674 |
| | | CO | 840 | 1665 |
| | | $SO_2$ | 17 | 12 |
| | | VOC | 7 | 19 |
| | | $PM/PM_{10}$ | 2 | 6 |
| **UNIT 6 SIMPLE CYCLE** | | | | |
| SC-S6A | GE Frame 7EA Natural Gas Fired 70 MW Turbine Typical Operation (7) (Without Duct Burner) | $NO_x$ | 174 | 283 |
| | | CO | 233 | 363 |
| | | VOC | 8 | 8 |
| | | $PM/PM_{10}$ | 9 | 29 |
| | | $SO_2$ | 14 | 13 |
| | | $H_2SO_4$ | 2 | 2 |
| SC-S6A | GE Frame 7EA Natural Gas Fired 70 MW Turbine Without Duct Burner - Start-up, Shutdown, and Reduced Load Operation (Limited to 2,500 Hours per Year) | $NO_x$ | 195 | |
| | | CO | 386 | |
| | | VOC | 5 | |
| | | $PM/PM_{10}$ | 9 | |
| | | $SO_2$ | 14 | |
| | | $H_2SO_4$ | 2 | |
| SC-S6B | GE Frame 7EA Natural Gas Fired 70 MW Turbine | $NO_x$ | 174 | 283 |
| | | CO | 233 | 363 |

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 |
|---|---|---|---|---|
| | Typical Operation (7) | VOC | 8 | 8 |
| | (Without Duct Burner) | $PM/PM_{10}$ | 9 | 29 |
| | | $SO_2$ | 14 | 13 |
| | | $H_2SO_4$ | 2 | 2 |
| SC-S6B | GE Frame 7EA Natural Gas | $NO_x$ | 195 | |
| | Fired 70 MW Turbine | CO | 386 | |
| | Without Duct Burner - | VOC | 5 | |
| | Start-up, Shutdown, and Reduced | $PM/PM_{10}$ | 9 | |
| | Load Operation (Limited to | $SO_2$ | 14 | |
| | 2,500 Hours per Year) | $H_2SO_4$ | 2 | |
| **UNIT 6 COMBINED CYCLE** | | | | |
| CC-S6A | GE Frame 7EA Natural Gas | $NO_x$ (6) | 42 | 165 |
| | Fired 70 MW Turbine, Typical | CO | 326 | 456 |
| | High Load Operation (7) | VOC | 18 | 25 |
| | With 285 MM Btu/yr Duct Burner) | $PM/PM_{10}$ | 15 | 38 |
| | | $SO_2$ | 20 | 16 |
| | | $H_2SO_4$ | 3.8 | 3.1 |
| | | $NH_3$ | 20 | 50 |
| CC-S6A | GE Frame 7EA Natural Gas | $NO_x$ | 195 | |
| | Fired 70 MW Turbine | CO | 518 | |
| | Star-up, Shutdown, and | VOC | 18 | |
| | Reduced Loads | $PM/PM_{10}$ | 15 | |
| | (With 285 MMBtu/hr | $SO_2$ | 20 | |
| | Duct Burner) or Simple Cycle | $H_2SO_4$ | 3.8 | |
| | Operation | | | |
| CC-S6B | GE Frame 7EA Natural Gas | $NO_x$ (6) | 42 | 165 |
| | Fired 70 MW Turbine, Typical | CO | 326 | 456 |
| | High Load Operations (7) | VOC | 18 | 25 |
| | (With 285 MMBtu/hr | $PM/PM_{10}$ | 15 | 38 |
| | Duct Burner) | $SO_2$ | 20 | 16 |

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 |
|---|---|---|---|---|
| | | $H_2SO_4$ | 3.8 | 3.1 |
| | | $NH_3$ | 20 | 50 |
| CC-S6B | GE Frame 7EA Natural Gas Fired 70 MW Turbine Start-up, Shutdown, and Reduced Loads (With 285 MMBtu/hr Duct Burner) or Simple Cycle Operation | $NO_x$ | 195 | |
| | | CO | 518 | |
| | | VOC | 18 | |
| | | $PM/PM_{10}$ | 15 | |
| | | $SO_2$ | 20 | |
| | | $H_2SO_4$ | 3.8 | |
| FIRE | Firewater Pump Engine | $NO_x$ | 9.3 | 0.9 |
| | | CO | 2.0 | 0.2 |
| | | VOC | 0.8 | 0.1 |
| | | $PM/PM_{10}$ | 0.7 | 0.1 |
| | | $SO_2$ | 0.1 | 0.1 |
| | | $H_2SO_4$ | 0.1 | 0.1 |
| OTD-1 | Diesel Storage Tank 1 | VOC | 0.1 | 0.1 |
| OTD-2 | Diesel Storage Tank 2 | VOC | 0.1 | 0.1 |
| OTD-3 | Diesel Storage Tank 3 | VOC | 0.1 | 0.1 |
| LO-1 | Gas Turbine GT-6A Lube Oil Vent | VOC | 0.1 | 0.2 |
| | | $PM/PM_{10}$ | 0.1 | 0.2 |
| LO-2 | Gas Turbine GT-6B Lube Oil Vent | VOC | 0.1 | 0.2 |
| | | $PM/PM_{10}$ | 0.1 | 0.2 |
| LO-3 | Steam Turbine Lube Oil Vent | VOC | 0.1 | 0.2 |
| | | $PM/PM_{10}$ | 0.1 | 0.2 |
| F6 | Cooling Tower | PM | 2.5 | 10.8 |
| | | $PM_{10}$ | 0.6 | 2.6 |
| | | HOCl | 0.1 | 0.1 |
| FUG | Piping Fugitives (8) | VOC | 0.3 | 1.5 |

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AIR CONTAMINANTS DATA

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates * lb/hr | TPY |
|---|---|---|---|---|
| | | $H_2S$ | 0.1 | 0.1 |
| | | $NH_3$ | 0.5 | 2.2 |
| | | $Cl_2$ | 0.1 | 0.4 |
| OTA-1 | Ammonia Storage Tank 1 | $NH_3$ | 0.1 | 0.4 |

(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) $NO_x$ - total oxides of nitrogen
CO - carbon monoxide
$H_2SO_4$ - sulfuric acid
$NH_3$ - anhydrous ammonia
$SO_2$ - sulfur dioxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
PM - particulate matter suspended in the atmosphere, including $PM_{10}$
$PM_{10}$ - particulate matter equal to or less than 10 microns in diameter
$Cl_2$ - chlorine
(4) Inorganic compounds calculated as HOCl.
(5) For Unit 6, the annual $NO_x$ emissions for Simple Cycle Operations assumes up to 2,500 hours of start-up, shutdown, and reduced load operation per turbine.
(6) For Unit 6, the annual $NO_x$ emissions after HRSG installation is determined assuming a limitation of 2,500 hours of simple cycle operation and up to 2,500 hours of start-up, shutdown and reduced load operation per turbine.
(7) High Load Operation is defined in the special conditions.
(8) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

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

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

Dated May 22, 2008