Emission Sources - Maximum Allowable Emission Rates

Permit Number 77039 and PSDTX1060

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. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates (4) | |
|---|---|---|---|---|
| | | | lbs/hour | TPY (5) |
| CTDB1-A | CT/HRSG Unit 1-A<br>75 MW Gas Turbine<br>110 MMBtu/hr<br>Duct Burner (6) | $NO_x$ | 22.6 | 81.5 |
| | | $NO_x$ (MSS) | 162 | |
| | | CO | 70.1 | 252.5 |
| | | CO (MSS) | 1000 | |
| | | VOC | 3.2 | 10.9 |
| | | VOC (MSS) | 60 | |
| | | $SO_2$ | 1.87 | 6.8 |
| | | PM | 11.8 | 49.0 |
| | | $PM_{10}$ | 11.8 | 49.0 |
| | | $PM_{2.5}$ | 11.8 | 49.0 |
| | | $H_2SO_4$ | 0.21 | 0.75 |
| | | $NH_3$ | 12.3 | 42.2 |
| | | HCHO | 0.4 | 1.28 |
| | | Toluene | 0.2 | 0.55 |

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| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates (4) | |
|---|---|---|---|---|
| | | | lbs/hour | TPY (5) |
| CTDB1-B | CT/HRSG Unit 1-B<br>75 MW Gas Turbine<br>110 MMBtu/hr<br>Duct Burner (6) | $NO_x$ | 22.6 | 81.5 |
| | | $NO_x$ (MSS) | 162 | |
| | | CO | 70.1 | 252.5 |
| | | CO (MSS) | 1000 | |
| | | VOC | 3.2 | 10.9 |
| | | VOC (MSS) | 60 | |
| | | $SO_2$ | 1.87 | 6.8 |
| | | PM | 11.8 | 49.0 |
| | | $PM_{10}$ | 11.8 | 49.0 |
| | | $PM_{2.5}$ | 11.8 | 49.0 |
| | | $H_2SO_4$ | 0.21 | 0.75 |
| | | $NH_3$ | 12.3 | 42.2 |
| | | HCHO | 0.4 | 1.28 |
| | | Toluene | 0.2 | 0.55 |
| CTDB2-A | CT/HRSG Unit 2-A<br>75 MW Gas Turbine<br>80 MMBtu/hr<br>Duct Burner (6) | $NO_x$ | 22.0 | 80.0 |
| | | $NO_x$ (MSS) | 162 | |
| | | CO | 67.7 | 246.2 |
| | | CO (MSS) | 1000 | |
| | | VOC | 2.9 | 10.1 |
| | | VOC (MSS) | 60 | |
| | | $SO_2$ | 1.82 | 6.6 |
| | | PM | 11.4 | 48.0 |
| | | $PM_{10}$ | 11.4 | 48.0 |
| | | $PM_{2.5}$ | 11.4 | 48.0 |
| | | $H_2SO_4$ | 0.3 | 0.75 |
| | | $NH_3$ | 12.3 | 41.4 |
| | | HCHO | 0.4 | 1.28 |
| | | Toluene | 0.2 | 0.55 |

Emission Sources - Maximum Allowable Emission Rates

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates (4) | |
|---|---|---|---|---|
| | | | lbs/hour | TPY (5) |
| CTDB2-B | CT/HRSG Unit 2-B<br>75 MW Gas Turbine<br>80 MMBtu/hr<br>Duct Burner (6) | $NO_x$ | 22.0 | 80.0 |
| | | $NO_x$ (MSS) | 162 | |
| | | CO | 67.7 | 246.2 |
| | | CO (MSS) | 1000 | |
| | | VOC | 2.9 | 10.1 |
| | | VOC (MSS) | 60 | |
| | | $SO_2$ | 1.82 | 6.6 |
| | | PM | 11.4 | 48.0 |
| | | $PM_{10}$ | 11.4 | 48.0 |
| | | $PM_{2.5}$ | 11.4 | 48.0 |
| | | $H_2SO_4$ | 0.3 | 0.75 |
| | | $NH_3$ | 12.3 | 41.4 |
| | | HCHO | 0.4 | 1.28 |
| | | Toluene | 0.2 | 0.55 |
| EG1 | Emergency Generator Unit 1 | $NO_x$ | 27.3 | 1.7 |
| | | CO | 7.25 | 0.5 |
| | | $SO_2$ | 0.43 | 0.03 |
| | | PM | 0.59 | 0.04 |
| | | $PM_{10}$ | 0.49 | 0.03 |
| | | $PM_{2.5}$ | 0.49 | 0.03 |
| | | VOC | 0.77 | 0.05 |
| EG2 | Emergency Generator Unit 2 | $NO_x$ | 27.3 | 1.7 |
| | | CO | 7.25 | 0.50 |
| | | $SO_2$ | 0.43 | 0.03 |
| | | PM | 0.59 | 0.04 |
| | | $PM_{10}$ | 0.49 | 0.03 |
| | | $PM_{2.5}$ | 0.49 | 0.03 |
| | | VOC | 0.77 | 0.05 |

Emission Sources - Maximum Allowable Emission Rates

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates (4) | |
|---|---|---|---|---|
| | | | lbs/hour | TPY (5) |
| FWP1 | Fire Water Pump Unit 1 | $NO_x$ | 11.22 | 0.7 |
| | | CO | 2.42 | 0.2 |
| | | $SO_2$ | 0.13 | 0.01 |
| | | PM | 0.79 | 0.05 |
| | | $PM_{10}$ | 0.79 | 0.05 |
| | | $PM_{2.5}$ | 0.79 | 0.05 |
| | | VOC | 0.89 | 0.05 |
| CD1 | Cooling Tower Cell 1 | PM | 1.5 | 6.7 |
| | | $PM_{10}$ | 0.8 | 3.3 |
| | | $PM_{2.5}$ | 0.8 | 3.3 |
| CD2 | Cooling Tower Cell 2 | PM | 1.5 | 6.7 |
| | | $PM_{10}$ | 0.8 | 3.3 |
| | | $PM_{2.5}$ | 0.8 | 3.3 |
| CD3 | Cooling Tower Cell 3 | PM | 1.5 | 6.7 |
| | | $PM_{10}$ | 0.8 | 3.3 |
| | | $PM_{2.5}$ | 0.8 | 3.3 |
| CD4 | Cooling Tower Cell 4 | PM | 1.5 | 6.7 |
| | | $PM_{10}$ | 0.8 | 3.3 |
| | | $PM_{2.5}$ | 0.8 | 3.3 |
| CD5 | Cooling Tower Cell 5 | PM | 1.5 | 6.7 |
| | | $PM_{10}$ | 0.8 | 3.3 |
| | | $PM_{2.5}$ | 0.8 | 3.3 |
| CD6 | Cooling Tower Cell 6 | PM | 1.5 | 6.7 |
| | | $PM_{10}$ | 0.8 | 3.3 |
| | | $PM_{2.5}$ | 0.8 | 3.3 |
| CD7 | Cooling Tower Cell 7 | PM | 1.5 | 6.7 |
| | | $PM_{10}$ | 0.8 | 3.3 |
| | | $PM_{2.5}$ | 0.8 | 3.3 |

Emission Sources - Maximum Allowable Emission Rates

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates (4) | |
|---|---|---|---|---|
| | | | lbs/hour | TPY (5) |
| CD8 | Cooling Tower Cell 8 | PM | 1.5 | 6.7 |
| | | $PM_{10}$ | 0.8 | 3.3 |
| | | $PM_{2.5}$ | 0.8 | 3.3 |
| CD9 | Cooling Tower Cell 9 | PM | 1.5 | 6.7 |
| | | $PM_{10}$ | 0.8 | 3.3 |
| | | $PM_{2.5}$ | 0.8 | 3.3 |
| CD10 | Cooling Tower Cell 10 | PM | 1.5 | 6.7 |
| | | $PM_{10}$ | 0.8 | 3.3 |
| | | $PM_{2.5}$ | 0.8 | 3.3 |
| CD11 | Cooling Tower Cell 11 | PM | 1.5 | 6.7 |
| | | $PM_{10}$ | 0.8 | 3.3 |
| | | $PM_{2.5}$ | 0.8 | 3.3 |
| CD12 | Cooling Tower Cell 12 | PM | 1.5 | 6.7 |
| | | $PM_{10}$ | 0.8 | 3.3 |
| | | $PM_{2.5}$ | 0.8 | 3.3 |

(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
$SO_2$ - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including $PM_{10}$ and $PM_{2.5}$
$PM_{10}$ - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
$NH_3$ - ammonia
$H_2SO_4$ - sulfuric acid
HCHO - formaldehyde
(4) The allowable emission rates include planned maintenance, startup, and shutdown (MSS) activities. For each pollutant whose emissions during planned MSS activities are measured using a CEMS, the MSS lb/hr limits apply only during each clock hour that includes one or more minutes of MSS activities. During all other clock hours, the normal lb/hr limits apply.
(5) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
(6) The 75 MW rating and 110 or 80 MMBtu/hr heat input are descriptive only and are not meant as enforceable limitations.

Emission Sources - Maximum Allowable Emission Rates

Date: June 28, 2016