Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 83503 and PSDTX1111

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 | |
|---|---|---|---|---|
| | | | lbs/hour | TPY (4) |
| CTG-1 | Combustion Turbine 1 Combined Cycle Stack, including Duct Burner and SCR System | $NO_x$ | 22.00 | 119.66 |
| | | $NO_x$ (5) | 148.50 | --- |
| | | $SO_2$ | 3.97 | 14.91 |
| | | CO | 95.70 | 1079.21 |
| | | CO (5) | 3184.50 | --- |
| | | VOC | 13.20 | 107.40 |
| | | VOC (5) | 306.90 | --- |
| | | PM | 15.40 | 52.80 |
| | | $PM_{10}$ | 15.40 | 52.80 |
| | | $H_2SO_4$ | 0.61 | 2.28 |
| | | $NH_3$ | 40.70 | 152.48 |
| CTG-2 | Combustion Turbine 2 Combined Cycle Stack, including Duct Burner and SCR System | $NO_x$ | 22.00 | 119.66 |
| | | $NO_x$ (5) | 148.50 | --- |
| | | $SO_2$ | 3.97 | 14.91 |
| | | CO | 95.70 | 1079.21 |
| | | CO (5) | 3184.50 | --- |
| | | VOC | 13.20 | 107.40 |
| | | VOC (5) | 306.90 | --- |
| | | PM | 15.40 | 52.80 |
| | | $PM_{10}$ | 15.40 | 52.80 |
| | | $H_2SO_4$ | 0.61 | 2.28 |
| | | $NH_3$ | 40.70 | 152.48 |

Emission Sources - Maximum Allowable Emission Rates

| | | | | |
|---|---|---|---|---|
| CTWR-1 | Plant Cooling Tower | PM | 4.05 | 17.74 |
| | | $PM_{10}$ | 4.05 | 17.74 |
| IAC-1 | Inlet Air Chiller System Cooling Tower | PM | 0.24 | 1.05 |
| | | $PM_{10}$ | 0.24 | 1.05 |
| IAC-2 | Inlet Air Chiller System Cooling Tower | PM | 0.24 | 1.05 |
| | | $PM_{10}$ | 0.24 | 1.05 |
| AUX-1 | Auxiliary Boiler | $NO_x$ | 0.42 | 1.84 |
| | | $SO_2$ | 0.02 | 0.09 |
| | | CO | 1.55 | 6.79 |
| | | VOC | 0.25 | 1.10 |
| | | PM | 0.42 | 1.84 |
| | | $PM_{10}$ | 0.42 | 1.84 |
| ENG-1 | Diesel-Fired Firewater Engine | $NO_x$ | 7.75 | 1.94 |
| | | $SO_2$ | 0.51 | 0.13 |
| | | CO | 1.67 | 0.42 |
| | | VOC | 0.63 | 0.16 |
| | | PM | 0.55 | 0.14 |
| | | $PM_{10}$ | 0.55 | 0.14 |
| ENG-2 | Diesel-Fired Emergency Engine | $NO_x$ | 35.24 | 8.81 |
| | | $SO_2$ | 0.12 | 0.03 |
| | | CO | 1.88 | 0.47 |
| | | VOC | 1.88 | 0.47 |
| | | PM/ | 0.17 | 0.04 |
| | | $PM_{10}$ | 0.17 | 0.04 |
| TK-1 | Lube Oil Tank | VOC | 1.00 | 0.01 |
| TK-2 | Waste Oil Tank | VOC | 0.13 | <0.01 |
| TK-ENG1 | ENG-1 Fuel Tank | VOC | 0.02 | <0.01 |
| TK-ENG2 | ENG-2 Fuel Tank | VOC | 0.14 | <0.01 |
| OWSEP | API Separator | VOC | <0.01 | 0.01 |

Emission Sources - Maximum Allowable Emission Rates

| | | | | |
|---|---|---|---|---|
| WO-LOAD | Waste Oil Loadout | VOC | 0.09 | <0.01 |
| FUG-1 | Site Fugitives (6) | VOC | 0.41 | 1.78 |
| HTR-1 | Line Heater 1 | $NO_x$ | 1.18 | 5.17 |
| | | $SO_2$ | 0.01 | 0.04 |
| | | CO | 0.99 | 4.34 |
| | | VOC | 0.06 | 0.26 |
| | | PM | 0.09 | 0.39 |
| | | $PM_{10}$ | 0.09 | 0.39 |
| HTR-2 | Line Heater 2 | $NO_x$ | 1.18 | 5.17 |
| | | $SO_2$ | 0.01 | 0.04 |
| | | CO | 0.99 | 4.34 |
| | | VOC | 0.06 | 0.26 |
| | | PM | 0.09 | 0.39 |
| | | $PM_{10}$ | 0.09 | 0.39 |
| LOR-1 | Lube Oil Reservoir Vapor Extractor Vent | VOC | <0.01 | 0.01 |
| | | PM | <0.01 | 0.01 |
| LOR-2 | Lube Oil Reservoir Vapor Extractor Vent | VOC | <0.01 | 0.01 |
| | | PM | <0.01 | 0.01 |
| LOR-3 | Lube Oil Reservoir Vapor Extractor Vent | VOC | <0.01 | 0.01 |
| | | PM | <0.01 | 0.01 |
| Maintenance Painting | Maintenance Painting (and Thinner Use) (6) | VOC | 50.00 | 3.75 |
| | | PM | 9.09 | 0.68 |
| | | $PM_{10}$ | 9.09 | 0.68 |
| Maintenance Sandblasting | Maintenance Grit Blasting (6) | PM | 1.48 | 0.15 |
| | | $PM_{10}$ | 0.35 | 0.04 |
| Degreasers | Solvent Degreasers (three) (6) | VOC | 5.04 | 0.27 |

(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.

Emission Sources - Maximum Allowable Emission Rates

(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 $PM_{2.5}$, as represented
$PM_{10}$ - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
CO - carbon monoxide
$H_2SO_4$ - sulfuric acid
$NH_3$ - ammonia

(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

(5) Emission limits during start up, shutdown, or maintenance operations (SSM). SSM event emissions are included in annual ton per year emissions.

(6) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: May 15, 2015