

Emission Sources - Maximum Allowable Emission Rates

Permit Number 43890 and PSDTX965

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 (5) | TPY (4) |
| Hourly Allowables (6) for each of four GE 7FA Turbines and Duct Burners Stack 1, Stack 2, Stack 3 and Stack 4 | DLN and SCR, Without HRSG Duct Burner Operation | NO _x | 37.8 | --- |
| | | CO | 33.6 | --- |
| | | VOC | 3.2 | --- |
| | | PM ₁₀ | 20.3 | --- |
| | | SO ₂ | 4.5 | --- |
| | | NH ₃ | 19.6 | --- |
| | | NO _x (10) | 235.00 | --- |
| | | CO(10) | 2000.00 | --- |
| Hourly Allowables (6) for each of four GE 7FA Turbines and Duct Burners Stack 1, Stack 2, Stack 3 and Stack 4 | DLN and SCR, Each with Natural Gas-Fired 610 MMBtu/hr HRSG Duct Burners in Operation | NO _x | 48.5 | --- |
| | | CO | 99.0 | --- |
| | | VOC | 16.4 | --- |
| | | PM ₁₀ | 27.1 | --- |
| | | SO ₂ | 6.0 | --- |
| | | NH ₃ | 25.8 | --- |
| | | NO _x (10) | 235.00 | --- |
| | | CO(10) | 2000.00 | --- |
| Annual Allowables (6) for each of four GE 7FA Turbines and Duct Burners Stack 1, Stack 2, Stack 3 and Stack 4 | DLN and SCR Technology, with Natural Gas-Fired 610 MMBtu/hr HRSG | NO _x (8) | --- | 166.5 |
| | | CO(8) | --- | 296.8 |
| | | VOC(8) | --- | 45.6 |
| | | PM ₁₀ (8) | --- | 105.4 |
| | | SO ₂ (8) | --- | 22.1 |

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| | | | | |
|-------------|-----------------------------------|------------------|-------|-------|
| | | NH ₃ | | 95.8 |
| COOL1 | Cooling Tower 1 | PM ₁₀ | 2.55 | 4.45 |
| COOL2 | Cooling Tower 2 | PM ₁₀ | 2.55 | 4.45 |
| COOL3 | Cooling Tower 3 | PM ₁₀ | 2.55 | 4.45 |
| COOL4 | Cooling Tower 4 | PM ₁₀ | 2.55 | 4.45 |
| AUXBOIL | Auxiliary Boiler | NO _x | 6.98 | 15.69 |
| | | CO | 6.51 | 14.65 |
| | | VOC | 0.70 | 1.57 |
| | | PM ₁₀ | 0.49 | 1.11 |
| | | SO ₂ | 0.22 | 0.50 |
| FWDTANK1 | Fire Water Diesel Tank | VOC | 0.02 | 0.01 |
| COAGRID | Coagulant Aid Tank | VOC | 0.12 | 0.01 |
| TANKEDG | Emergency Diesel Tank | VOC | 0.07 | 0.01 |
| FWP | Fire Water Pump | NO _x | 10.39 | 2.60 |
| | | CO | 2.24 | 0.56 |
| | | VOC | 0.84 | 0.21 |
| | | PM ₁₀ | 0.74 | 0.18 |
| | | SO ₂ | 0.69 | 0.17 |
| EMGEN | Emergency Diesel Engine Generator | NO _x | 12.40 | 3.10 |
| | | CO | 2.67 | 0.67 |
| | | VOC | 1.01 | 0.25 |
| | | PM ₁₀ | 0.88 | 0.22 |
| | | SO ₂ | 0.82 | 0.21 |
| Fugitives A | Ammonia Handling | NH ₃ | 0.21 | 0.90 |

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| | | | | |
|-------------|--------------------------------------|-------------------|-------|-------|
| Fugitives B | Natural Gas Handling | VOC | 0.23 | 1.02 |
| MSSFUG | Miscellaneous Maintenance Activities | NO _x | <0.01 | <0.01 |
| | | CO | <0.01 | <0.01 |
| | | PM | 1.04 | 0.39 |
| | | PM ₁₀ | 1.04 | 0.39 |
| | | PM _{2.5} | 1.04 | 0.39 |
| | | VOC | 5.59 | 2.23 |
| | | NH ₃ | 4.52 | <0.01 |

Permit by rule (PBR) sources incorporated by reference. Sources remain authorized by the PBR(s) as listed below:

| | | | | |
|-------|--------------|-----|--------|-------|
| 71264 | Oil Demister | VOC | 0.0105 | 0.046 |
|-------|--------------|-----|--------|-------|

- (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
 - SO₂ - sulfur dioxide
 - PM total particulate matter, including PM₁₀ and PM_{2.5} as represented
 - PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
 - PM_{2.5} total particulate matter equal to or less than 2.5 microns in diameter
 - CO - carbon monoxide
 - NH₃ - ammonia
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Except for planned MSS activities, the concentration limits for the gas turbines listed in the permit conditions apply and may be a more stringent requirement than the mass emission rate limits listed in this table.
- (6) These emissions are permitted under PSD.
- (7) For each pollutant whose emissions during planned MSS activities are measured using a CEMS, during any clock hour that includes one or more minutes of planned MSS activities, the pollutant's hourly emission limits that apply during planned MSS activities shall apply during that clock hour.
- (8) The tpy emission limit specified in the MAERT for this facility includes emissions from the facility during both normal operations and planned MSS activities.
- (9) Unless otherwise stated, the lb/hr emission limit specified in the MAERT for this facility includes emissions from the facility during both normal operations and planned MSS activities.
- (10) This short term emission rate applies during planned MSS activities.

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Date: August 20, 2012