

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 37283, PSD-TX-915, and N-015

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) | <u>Emission Rates *</u> | |
|---------------------------|--|--------------------------------|-------------------------|--------|
| | | | lb/hr | TPY** |
| CG-1 | Turbine/HRSG | NO _x | 56.51 | --- |
| | | CO (4) | 36.00 | --- |
| | | CO (5) | 317.00 | --- |
| | | SO ₂ | 1.25 | --- |
| | | VOC | 5.80 | --- |
| | | PM ₁₀ | 9.00 | --- |
| | | NH ₃ | 21.55 | --- |
| B-1 | Auxiliary Boilers (Three Auxiliary Gas Boilers venting through a Common Stack) | NO _x | 42.47 | --- |
| | | CO | 25.85 | --- |
| | | SO ₂ | 0.24 | --- |
| | | VOC | 5.83 | --- |
| | | PM ₁₀ | 4.67 | --- |
| CG-1, B-1 | Turbine/HRSG and Auxiliary Boilers | common stack) | | |
| | | NO _x | --- | 284.70 |
| | | CO (4) | --- | 127.77 |
| | | CO (5) | --- | 319.74 |
| | | SO ₂ | --- | 5.54 |
| | | VOC | --- | 24.80 |
| | | PM ₁₀ | --- | 41.54 |
| CG-2 | Turbine/HRSG (7) | NH ₃ | --- | 94.40 |
| | | NO _x | 87.49 | 265.32 |
| | | CO | 398.00 | 773.80 |
| | | SO ₂ | 28.27 | 5.72 |
| | | VOC | 9.00 | 35.07 |
| | | PM ₁₀ | 18.30 | 72.32 |
| | | NH ₃ | 26.93 | 108.80 |
| | | H ₂ SO ₄ | 1.36 | 0.88 |

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| Emission Point No. (1) | Source Name (2) | AIR CONTAMINANTS DATA | | |
|---------------------------|--------------------|--------------------------------|-------------------------|--------|
| | | Air Contaminant Name (3) | <u>Emission Rates *</u> | |
| | | | lb/hr | TPY** |
| CG-3 | Turbine/HRSG (7) | NO _x | 65.62 | 176.88 |
| | | CO | 398.00 | 773.80 |
| | | SO ₂ | 28.27 | 5.72 |
| | | VOC | 9.00 | 35.07 |
| | | PM ₁₀ | 18.30 | 72.32 |
| | | NH ₃ | 26.93 | 108.80 |
| | | H ₂ SO ₄ | 1.36 | 0.88 |
| F-1 | Fugitives (6) | VOC | 0.04 | 0.19 |
| F-2 | Fugitives (6) | VOC | 0.008 | 0.034 |

- (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) NO_x - total oxides of nitrogen
CO - carbon monoxide
SO₂ - sulfur dioxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
PM₁₀ - particulate matter, suspended in the atmosphere, equal to or less than 10 microns in diameter
NH₃ - ammonia
H₂SO₄ - sulfuric acid
- (4) Maximum allowable CO emission rate at loads greater than 70 percent of the gas turbine's baseload.
- (5) Maximum allowable CO emission rate at turndown load (which is 40 to 70 percent of the gas turbine's baseload).
- (6) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (7) Emission Point Nos. (EPNs) CG-2 and CG-3 underwent Nonattainment New Source Review (NNSR) applies to EPN. EPNs CG-1 and B-1 were not subject to NNSR.

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- * Gas turbine emission rates are based on and the gas turbine is limited by the following maximum operating schedule:

Hrs/day 24 Days/week 7 Hours/year 8,760

- ** If the Gas Turbine (EPN CG-1) and any of the auxiliary boilers are fired (above 13 MMBtu/hr) at the same time, then the combined emissions of the Gas Turbine (EPN CG-1), the auxiliary boilers being fired, and the auxiliary boilers not being fired (above 13 MMBtu/hr) will not exceed the sum of the maximum allowable emissions from EPNs CG-1 and B-1 on a pound per hour or TPY basis..

Dated February 16, 2009