

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 31914

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) |
| 1 | Gas Turbine/HRSG 1 Westinghouse 501D5A 121.3 MW Gas Turbine and 608 MMBtu/hr Duct Burner | NO _x | 229.1 | |
| | | CO(5) | 79.6 | |
| | | VOC | 4.0 | |
| | | SO ₂ | 119.9 | |
| | | PM | 33.2 | |
| | | PM ₁₀ | 22.7 | |
| | | H ₂ SO ₄ | 9.2 | |
| | | NH ₃ | 18.9 | 73.4 |
| 2 | Gas Turbine/HRSG 2 Westinghouse 501D5A 121.3 MW Gas Turbine and 608 MMBtu/hr Duct Burner | NO _x | 229.1 | |
| | | CO(5) | 79.6 | |
| | | VOC | 4.0 | |
| | | SO ₂ | 119.9 | |
| | | PM | 33.2 | |
| | | PM ₁₀ | 22.7 | |
| | | H ₂ SO ₄ | 9.2 | |
| | | NH ₃ | 18.9 | 73.4 |
| 3 | Gas Turbine/HRSG 3 Westinghouse 501D5A 121.3 MW Gas Turbine and 608 MMBtu/hr Duct Burner | NO _x | 229.1 | |
| | | CO(5) | 79.6 | |
| | | VOC | 4.0 | |
| | | SO ₂ | 119.9 | |

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| | | | | |
|--------|---|--------------------------------|-------|------|
| | | PM | 33.2 | |
| | | PM ₁₀ | 22.7 | |
| | | H ₂ SO ₄ | 9.2 | |
| | | NH ₃ | 18.9 | 73.4 |
| 4 | Gas Turbine/HRSG 4 Westinghouse 501D5A 121.3 MW Gas Turbine and 608 MMBtu/hr Duct Burner | NO _x | 229.1 | |
| | | CO(5) | 79.6 | |
| | | VOC | 4.0 | |
| | | SO ₂ | 119.9 | |
| | | PM | 33.2 | |
| | | PM ₁₀ | 22.7 | |
| | | H ₂ SO ₄ | 9.2 | |
| | | NH ₃ | 18.9 | 73.4 |
| 51-7-8 | Steam Boiler 8 760 MMBtu/hr | NO _x (6) | 91.2 | |
| | | CO(7) | 228.0 | |
| | | VOC | 4.1 | |
| | | SO ₂ | 53.2 | |
| | | PM | 5.7 | |
| | | PM ₁₀ | 5.7 | |
| | | H ₂ SO ₄ | 4.0 | |
| 51-7-9 | Steam Boiler 9 888 MMBtu/hr | NO _x (6) | 106.6 | |
| | | CO(7) | 266.4 | |
| | | VOC | 4.8 | |
| | | SO ₂ | 62.2 | |
| | | PM | 6.7 | |
| | | PM ₁₀ | 6.7 | |

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| | | | | |
|-------------------------------|--|--------------------------------|-----|--------|
| | | H ₂ SO ₄ | 4.7 | |
| 1, 2,3, 4, 51-7-8, and 51-7-9 | Annual Emission Cap for Gas Turbine/HRSG 1, Gas Turbine/HRSG 2, Gas Turbine/HRSG 3, Gas Turbine HRSG4, Steam Boiler 51-7-8 and Steam Boiler 51-7-9 | NO _x | | 2251.4 |
| | | CO | | 856.2 |
| | | VOC | | 14.9 |
| | | SO ₂ | | 129.6 |
| | | PM | | 345.8 |
| | | PM ₁₀ | | 259.1 |
| | | H ₂ SO ₄ | | 7.6 |
| 5 | Fugitives (8) | VOC | 0.3 | 1.5 |
| 6 | Piping Fugitives (8) | NH ₃ | 0.1 | 0.5 |

(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) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

PM represented - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as

PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented

PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide

H₂SO₄ - sulfuric acid

NH₃ ammonia

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

(5) Short-term emission rates of CO are based on a 30-day rolling average. **(02/07)**

(6) Compliance with NO_x emission limits is based on a rolling 30-day period.

(7) Compliance with hourly CO emission limits is based on a rolling 24-hour period.

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

Date: _____