

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 18358 and PSD-TX-732M1

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) | Emission Rates * | |
|---------------------------|--------------------|-----------------------------|------------------|-------|
| | | | lb/hr | TPY** |

Case I: Natural Gas or Plant Fuel Gas Firing; Duct Burner Fired

| | | | | |
|----|---|------------------|-------|-----|
| 44 | 37 MW Gas Turbine and 223 MMBtu/hr Fired Duct Burner | VOC | 7.4 | 28 |
| | | NO _x | 153.1 | 601 |
| | | SO ₂ | 0.54 | 2.2 |
| | | PM ₁₀ | 5.2 | 23 |
| | | CO | 21.1 | 88 |

Case II: Natural Gas or Plant Fuel Gas Firing; Duct Burner Unfired

| | | | | |
|----|-------------------|------------------|-----|-----|
| 44 | 37 MW Gas Turbine | VOC | 7 | 26 |
| | | NO _x | 130 | 499 |
| | | SO ₂ | 0.4 | 1.5 |
| | | PM ₁₀ | 3.9 | 17 |
| | | CO | 11 | 44 |

Case III: Fuel Oil Firing; Duct Burner Fired

| | | | | |
|----|---|--------------------------------|--------|-------|
| 44 | 37 MW Gas Turbine and 223 MMBtu/hr Fired Duct Burner | VOC | 7.4 | 28 |
| | | NO _x | 167.7 | 675 |
| | | SO ₂ | 112.2 | 455 |
| | | PM ₁₀ | 20 | 88 |
| | | CO | 18.4 | 77 |
| | | H ₂ SO ₄ | 5.6 | 20.3 |
| | | Be | 0.0093 | 0.038 |
| | | As | 0.037 | 0.15 |
| | | Cd | 0.037 | 0.15 |
| | | Cr | 0.037 | 0.15 |
| | | F | 0.037 | 0.15 |
| | | Pb | 0.037 | 0.15 |

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | <u>Emission Rates *</u> | |
|---------------------------|--------------------|-----------------------------|-------------------------|--------------|
| | | | <u>lb/hr</u> | <u>TPY**</u> |

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates * | |
|---------------------------|---|-----------------------------|------------------|-------|
| | | | lb/hr | TPY** |
| | | Hg | 0.037 | 0.15 |
| | | Mn | 0.037 | 0.15 |
| | | Ni | 0.037 | 0.15 |
| 44 | 37 MW Gas Turbine and 223 MMBtu/hr Fired Duct Burner | Se | 0.037 | 0.15 |
| | | V | 0.037 | 0.15 |

Case IV: Fuel Oil Firing; Duct Burner Unfired

| | | | | |
|----|-------------------|--------------------------------|--------|-------|
| 44 | 37 MW Gas Turbine | VOC | 7 | 26 |
| | | NO _x | 137.0 | 539 |
| | | SO ₂ | 80.7 | 315 |
| | | PM ₁₀ | 17.0 | 75 |
| | | CO | 11.0 | 44 |
| | | H ₂ SO ₄ | 5.0 | 17.5 |
| | | Be | 0.0067 | 0.026 |
| | | As | 0.027 | 0.11 |
| | | Cd | 0.027 | 0.11 |
| | | Cr | 0.027 | 0.11 |
| | | F | 0.027 | 0.11 |
| | | Hg | 0.027 | 0.11 |
| | | Mn | 0.027 | 0.11 |
| | | Ni | 0.027 | 0.11 |
| | | Pb | 0.027 | 0.11 |
| | | Se | 0.027 | 0.11 |
| | | V | 0.027 | 0.11 |

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

- (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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
IOC-U - inorganic compounds (unspeciated)
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
PM - particulate matter, suspended in the atmosphere, including PM₁₀.
PM₁₀ - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
CO - carbon monoxide
Be - beryllium
As - arsenic
F - fluoride
Pb - lead
Cd - cadmium
Cr - chromium
Hg - mercury
Mn - manganese
Ni - nickel
Se - selenium
V - vanadium
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

24 Hrs/day 7 Days/week 52 Weeks/year or 8,760 Hrs/year

** Compliance with annual emission limits is based on a rolling 12-month period.

Dated July 21, 2003