

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 20041

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 | Source | Air Contaminant | Emission Rates * | |
|---|-------------|-----------------|------------------|-------|
| Point No. (1) | Name (2) | Name (3) | lb/hr | TPY |
| Case 1: | | | | |
| Hourly rates are based on gas only firing. | | | | |
| Annual rates are based on both gas and liquid fuel firing. | | | | |
| TC1 | Test Cell 1 | NO _x | 106.9 | 100.2 |
| | | CO | 84.8 | 27.7 |
| | | VOC | 46.6 | 9.4 |
| | | SO ₂ | 2.0 | 2.9 |
| | | PM | 5.3 | 10.7 |
| TC2 | Test Cell 2 | NO _x | 8.0 | 8.7 |
| | | CO | 15.3 | 9.2 |
| | | VOC | 3.9 | 0.9 |
| | | SO ₂ | 0.3 | 0.8 |
| | | PM | 0.7 | 1.9 |
| TC3 | Test Cell 3 | NO _x | 35.0 | 35.9 |
| | | CO | 84.8 | 19.4 |
| | | VOC | 13.5 | 1.8 |
| | | SO ₂ | 1.1 | 2.7 |
| | | PM | 2.5 | 10.7 |
| TC4 | Test Cell 4 | NO _x | 106.9 | 100.2 |
| | | CO | 84.8 | 27.7 |
| | | VOC | 46.6 | 9.4 |
| | | SO ₂ | 2.0 | 2.9 |
| | | PM | 5.3 | 10.7 |

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AIR CONTAMINANTS DATA

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | <u>Emission Rates *</u> | |
|---------------------------|--------------------|-----------------------------|-------------------------|------|
| | | | lb/hr | TPY |
| TC5 | Test Cell 5 | NO _x | 192.8 | 39.5 |
| | | CO | 30.0 | 9.0 |
| | | VOC | 8.8 | 2.7 |
| | | SO ₂ | 3.8 | 2.0 |
| | | PM | 8.5 | 3.7 |

Case 2: **Hourly rates are based on liquid fuel firing only.**
 Annual rates are based on both gas and liquid fuel firing.

| | | | | |
|-----|-------------|-----------------|-------|-------|
| TC1 | Test Cell 1 | NO _x | 181.5 | 100.2 |
| | | CO | 41.3 | 27.7 |
| | | VOC | 14.3 | 9.4 |
| | | SO ₂ | 7.5 | 2.9 |
| | | PM | 15.7 | 10.7 |
| TC2 | Test Cell 2 | NO _x | 12.3 | 8.7 |
| | | CO | 30.8 | 9.2 |
| | | VOC | 3.9 | 0.9 |
| | | SO ₂ | 1.2 | 0.8 |
| | | PM | 3.5 | 1.9 |
| TC3 | Test Cell 3 | NO _x | 49.4 | 35.9 |
| | | CO | 30.8 | 19.4 |
| | | VOC | 3.8 | 1.8 |
| | | SO ₂ | 4.0 | 2.7 |
| | | PM | 15.7 | 10.7 |
| TC4 | Test Cell 4 | NO _x | 181.5 | 100.2 |
| | | CO | 41.3 | 27.7 |
| | | VOC | 14.3 | 9.4 |
| | | SO ₂ | 7.5 | 2.9 |
| | | PM | 15.7 | 10.7 |
| TC5 | Test Cell 5 | NO _x | 338.8 | 39.5 |

| | | | | |
|-----|-----------------------|-----------------|------|-----|
| | | CO | 30.0 | 9.0 |
| | | VOC | 8.8 | 2.7 |
| | | SO ₂ | 14.1 | 2.0 |
| | | PM | 12.1 | 3.7 |
| F1 | Process Fugitives (4) | VOC | 0.3 | 0.3 |
| F2 | Process Fugitives (4) | VOC | 0.3 | 0.1 |
| S1 | Oil/Water Separator | VOC | 0.1 | 0.1 |
| CT1 | Cooling Tower | VOC | 0.1 | 0.4 |
| CT2 | Cooling Tower | VOC | 0.1 | 0.4 |
| CT3 | Cooling Tower | VOC | 0.1 | 0.4 |

- (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 area name or fugitive source name.
- (3) NO_x - total oxides of nitrogen
CO - carbon monoxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
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 PM greater than 10 microns is emitted.
- (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:

Hrs/day 24 Days/week 7 Weeks/year 52 or Hrs/year _____

Dated February 24, 2007

