

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, 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) |
| Case 1: Hourly emission rates are based on gas fuel firing only. Annual emission 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 |
| | | PM | 5.3 | 10.7 |
| | | SO ₂ | 2.0 | 2.9 |
| TC2 | Test Cell 2 | NO _x | 8.7 | 8.7 |
| | | CO | 18.4 | 9.2 |
| | | VOC | 4.7 | 0.9 |
| | | PM | 0.7 | 1.9 |
| | | SO ₂ | 0.4 | 0.8 |
| TC3 | Test Cell 3 | NO _x | 45.6 | 35.9 |
| | | CO | 84.8 | 19.4 |
| | | VOC | 13.5 | 1.8 |
| | | PM | 2.5 | 10.7 |
| | | SO ₂ | 1.1 | 2.7 |
| TC4 | Test Cell4 | NO _x | 106.9 | 100.2 |
| | | CO | 84.8 | 27.7 |
| | | VOC | 46.6 | 9.4 |
| | | PM | 5.3 | 10.7 |

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| | | | | |
|---|-------------|-----------------|-------|-------|
| TC4 | Test Cell | SO ₂ | 2.0 | 2.9 |
| TC5 | Test Cell 5 | NO _x | 192.8 | 39.5 |
| | | CO | 30.0 | 9.0 |
| | | VOC | 8.8 | 2.7 |
| | | PM | 8.5 | 3.7 |
| | | SO ₂ | 3.8 | 2.0 |
| Case 2: Hourly emission rates are based on liquid fuel firing only. Annual emission rates are based on both gas and liquid fuel firing. | | | | |
| TC1 | Test Cell 1 | NO _x | 181.5 | 100.2 |
| | | CO | 88.8 | 27.7 |
| | | VOC | 20.4 | 9.4 |
| | | PM | 15.7 | 10.7 |
| | | SO ₂ | 7.5 | 2.9 |
| TC2 | Test Cell 2 | NO _x | 13.0 | 8.7 |
| | | CO | 37.0 | 9.2 |
| | | VOC | 4.7 | 0.9 |
| | | PM | 3.5 | 1.9 |
| | | SO ₂ | 1.5 | 0.8 |
| TC3 | Test Cell 3 | NO _x | 60.0 | 35.9 |
| | | CO | 45.6 | 19.4 |
| | | VOC | 7.2 | 1.8 |
| | | PM | 15.7 | 10.7 |
| | | SO ₂ | 4.8 | 2.7 |
| TC4 | Test Cell 4 | NO _x | 181.5 | 100.2 |
| TC4 | Test Cell 4 | CO | 41.3 | 27.7 |
| | | VOC | 14.3 | 9.4 |

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| | | | | |
|-----|-----------------------|-----------------|-------|------|
| | | PM | 15.7 | 10.7 |
| | | SO ₂ | 7.5 | 2.9 |
| TC5 | Test Cell 5 | NO _x | 338.8 | 39.5 |
| | | CO | 30.0 | 9.0 |
| | | VOC | 8.8 | 2.7 |
| | | PM | 12.1 | 3.7 |
| | | SO ₂ | 14.1 | 2.0 |
| F1 | Process Fugitives (5) | VOC | 0.3 | 0.3 |
| F2 | Process Fugitives (5) | 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 |
| CT2 | Cooling Tower | VOC | 0.1 | 0.4 |

- (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, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
- CO - carbon monoxide
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: July 20, 2012