

Emission Sources - Maximum Allowable Emission Rates

Permit Number 46641

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) |
| 102 | Unifier Reactor Heater | VOC | 0.21 | 0.91 |
| | | NO _x | 3.78 | 16.60 |
| | | SO ₂ | 1.04 | 4.56 |
| | | PM ₁₀ | 0.29 | 1.26 |
| | | CO | 3.17 | 13.90 |
| 103 | Unifier Stripper Heater | VOC | 0.08 | 0.35 |
| | | NO _x | 1.46 | 6.41 |
| | | SO ₂ | 0.40 | 1.76 |
| | | PM ₁₀ | 0.11 | 0.49 |
| | | CO | 1.23 | 5.39 |
| 82, 83, 84 | Platformer Reactor Heaters 1A, 1B, 1C, 1D | VOC | 1.39 | 6.10 |
| | | NO _x | 12.62 | 55.28 |
| | | SO ₂ | 6.98 | 30.41 |
| | | PM ₁₀ | 1.91 | 8.41 |
| | | CO | 21.23 | 92.93 |
| 85 | Platformer Stabilizer Heater | VOC | 0.12 | 0.51 |
| | | NO _x | 2.10 | 9.20 |
| | | SO ₂ | 0.58 | 2.53 |
| | | PM ₁₀ | 0.16 | 0.70 |
| | | CO | 1.76 | 7.72 |
| 638 | Tank 925 | VOC | 1.99 | 4.66 |
| 639 | Tank 926 | VOC | 1.99 | 4.66 |
| 726 | Tank 1024 | VOC | 3.76 | 9.70 |

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| | | | | |
|------|----------------------------|-----------------|-------|-------|
| F089 | Cooling Tower 9 (5) | VOC | 0.15 | 0.67 |
| 087 | Catalyst Regenerator Vent | CO | 0.22 | 0.97 |
| | | HCl | 0.024 | 0.11 |
| | | Cl ₂ | 0.17 | 0.72 |
| F081 | Platformer 4 Fugitives (5) | VOC | 22.52 | 98.62 |
| 724 | Tank 1022 | VOC | 4.66 | 14.68 |

- (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
- PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
- CO - carbon monoxide
- HCl - hydrogen chloride
- Cl₂ - chlorine
- (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: December 6, 2013