

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

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

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Permit Number 6208

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.

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| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | <u>Emission Rates *</u> | |
|---------------------------|--|-----------------------------|-------------------------|-------|
| | | | lb/hr | TPY |
| H-010 | Hydrodesulfurizer Charge Heater | VOC | 0.16 | 0.69 |
| | | NO _x | 0.98 | 4.29 |
| | | SO ₂ | 0.86 | 1.29 |
| | | PM | 0.25 | 1.07 |
| | | CO | 0.98 | 4.29 |
| H-011 | No. 1 Reformer Stabilizer Reboiler Heater | VOC | 0.07 | 0.29 |
| | | NO _x | 0.51 | 2.24 |
| | | SO ₂ | 0.36 | 1.10 |
| | | PM | 0.1 | 0.45 |
| | | CO | 0.41 | 1.79 |
| H-012 | No. 1 Reformer Charge Heaters (5) | VOC | 0.7 | 3.05 |
| | | NO _x | 12.9 | 56.51 |
| | | SO ₂ | 3.78 | 11.6 |
| | | PM | 1.08 | 4.71 |
| | | CO | 4.3 | 18.84 |
| H-013 | No. 1 Reformer Stabilizer | VOC | 0.06 | 0.25 |

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| | | | lb/hr | TPY |
| | Reboiler Heater | NO _x | 1.04 | 4.57 |
| | | SO ₂ | 0.31 | 0.94 |
| | | PM | 0.09 | 0.38 |
| | | CO | 0.35 | 1.52 |
| H-031 | Hydrodesulfurizer Stripper | VOC | 0.13 | 0.58 |
| | Reboiler Heater | NO _x | 0.81 | 3.56 |
| | | SO ₂ | 0.71 | 1.07 |
| | | PM | 0.2 | 0.89 |
| | | CO | 0.81 | 3.56 |
| V-006 | No. 1 Reformer Regeneration Vent | CO | 0.29 | 1.3 |
| F-0520 | Fugitives (4) | VOC | 1.8 | 7.9 |
| F-0530 | Fugitives (4) | VOC | 2.14 | 9.4 |
| F-0630 | Fugitives (4) | VOC | 0.39 | 1.7 |
| F-0900 | Fugitives (4) | VOC | 0.23 | 1.0 |
| F-0840 | Fugitives (4) | VOC | 1.16 | 5.1 |

(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 - 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

(4) Fugitive emissions are an estimate only and should not be considered as maximum allowable

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emission rates.

(5) Three heaters share a common stack.

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

Hrs/day____Days/week____Weeks/year____or Hrs/year 8,760

Dated May 20, 2004