

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 80799

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** |
| 66FL1 | Controlled Vessel Degassing | CO | 34.94 | 4.18 |
| 66FL2 | | H ₂ S | 2.32 | 0.22 |
| 66FL3 | | NO _x | 17.5 | 2.09 |
| 66FL4 | | SO ₂ | 214.4 | 38.32 |
| 66FL12 | | VOC | 84.42 | 9.77 |
| MSS-VAC | Atmospheric MSS | CO | 0.15 | 0.03 |
| MSS-AIRMOVERS | | H ₂ S | 0.43 | 0.03 |
| MSS-BLAST | | NO _x | 0.15 | 0.03 |
| MSS-FRAC | | SO ₂ | 0.15 | 0.03 |
| MSS-VES | | VOC | 310.4 | 29.85 |
| MSS-MAINTACT | | PM | 0.23 | 0.43 |
| MSS-EQP | | | | |
| MISC-MSS | | | | |
| MSS-DRAING | | | | |
| MSS-CHEM | Chemicals and Cleaners for MSS | VOC | 11.39 | 11.85 |
| MSS-TANKS | Tank MSS (4) | VOC | 854.0 | 7.49 |
| Heaters/Furnaces | Decoking (4) | CO | 3.89 | 6.02 |
| | | PM | 1.67 | 2.58 |
| | | SO ₂ | 5.56 | 8.60 |
| 34I1 | SRU Startup and Meltout | H ₂ S | 0.05 | 0.01 |
| 43I1 | | SO ₂ | 94 | 6.77 |
| 66FL12 | GOHDS Units Startup and Shutdown | CO | 2,603 | 62.46 |
| 66FL13 | | H ₂ S | 60.00 | 1.44 |
| 43I1 | | NO _x | 1,700 | 40.80 |
| | | SO ₂ | 5,534 | 132.8 |
| | | VOC | 0.96 | 0.01 |
| | | PM | 0.01 | 0.01 |

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| | | | | |
|---------|--|------------------|-------|------|
| 66FL1 | Hydrogen, Off Gas, and Flare Gas Recovery Flaring | CO | 105.0 | 2.24 |
| 66FL2 | | H ₂ S | 69.54 | 0.11 |
| 66FL3 | | NO _x | 57.45 | 1.20 |
| 66FL4 | | SO ₂ | 6,414 | 9.68 |
| 66FL12 | | VOC | 1,675 | 3.39 |
| F-68-4A | Brine Flare MSS | CO | 0.02 | 0.03 |
| F-68-4B | | NO _x | 0.01 | 0.01 |
| F-68-4C | | VOC | 2.04 | 4.52 |
| F-68-4D | | | | |
| F-68-4E | | | | |
| F-68-4F | | | | |
| F-68-4G | | | | |
| F-68-4H | | | | |

(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

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

CO - carbon monoxide

H₂S - hydrogen sulfide

PM - particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}

PM₁₀ - particulate matter equal to or less than 10 microns in diameter

PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter

(4) Emissions may occur at any tank or heater/furnace.

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

__Hrs/day __Days/week ____Weeks/year or 8,760 Hrs/year

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

Date September 12, 2011