

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 4056

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 |
| ** | | | | |
| 51MH5AST | Heater MH-5A | PM | 0.50 | 2.20 |
| | | VOC | 0.41 | 1.60 |
| | | NO _x | 12.50 | 54.78 |
| | | SO ₂ | 0.88 | 3.87 |
| | | CO | 2.40 | 9.36 |
| 51MJ151 | Start-up Eductor MJ-151 | PM | 0.05 | <0.01 |
| | | VOC | 0.03 | <0.01 |
| | | NO _x | 0.60 | 0.02 |
| | | SO ₂ | 0.09 | <0.01 |
| | | CO | 0.50 | 0.02 |
| 51MJ152 | Start-up Eductor MJ-152 | PM | 0.05 | <0.01 |
| | | VOC | 0.03 | <0.01 |
| | | NO _x | 0.60 | 0.02 |
| | | SO ₂ | 0.09 | <0.01 |
| | | CO | 0.50 | 0.02 |
| 51MJ153 | Start-up Eductor MJ-153 | PM | 0.05 | <0.01 |
| | | VOC | 0.03 | <0.01 |
| | | NO _x | 0.60 | 0.02 |
| | | SO ₂ | 0.09 | <0.01 |
| | | CO | 0.50 | 0.02 |
| 51MN1147ST | Propylene Flare | VOC | 250.0 | 0.06 |
| | | NO _x | 23.9 | 0.06 |
| | | SO ₂ | <0.01 | <0.01 |
| | | CO | 172.4 | 0.30 |

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|---------------------------|---|----------------------------------|------------------|--------|
| | | | TPY | |
| 51COFUG | Fugitives (4) | VOC | 8.73 | 38.22 |
| | | SO ₂ | 2.78 | 12.16 |
| | | CO | 16.82 | 73.66 |
| | | ammonia | <0.01 | 0.01 |
| | | HFC-134a | 0.63 | 2.76 |
| 51PROPFU | Refrigeration System MR-36 Fugitives (4) | methanol | 0.02 | 0.10 |
| | | propylene | 0.69 | 3.0 |
| 51COLDBOX | Cold Box | helium | 31.7 | 135.0 |
| 51ANAL | Analyzer Vents | VOC | <0.01 | <0.01 |
| | | CO | 0.51 | 2.25 |
| 51MN157ST | Flare MN-157 | VOC | 41.30 | 10.70 |
| | | NO _x | 65.81 | 13.90 |
| | | SO ₂ | 8.63 | 2.60 |
| | | CO | 1153.74 | 235.50 |
| | | H ₂ S | 0.09 | 0.03 |

(1) Emission point identification - either 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) 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.

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

HFC-134a - 1,1,1,2-tetrafluoroethane

H₂S - hydrogen sulfide

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

* Emission rates are based on the following maximum operating schedule: 8,760 hours per year.

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

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|---------------------------|--------------------|----------------------------------|--------------------------------|
|---------------------------|--------------------|----------------------------------|--------------------------------|

Dated December 18, 2002