EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 20418/PSD-TX-787M2

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 |
|---|---|---|---|---|
| EP-1 | CM-1 Reciprocating Engine | $NO_x$ | 8.26 | 36.18 |
| | | CO | 8.81 | 38.59 |
| | | VOC | 1.10 | 4.82 |
| | | $SO_2$ | 0.01 | 0.05 |
| | | PM | 0.19 | 0.84 |
| EP-2 | CM-2 Reciprocating Engine | $NO_x$ | 8.26 | 36.18 |
| | | CO | 8.81 | 38.59 |
| | | VOC | 1.10 | 4.82 |
| | | $SO_2$ | 0.01 | 0.05 |
| | | PM | 0.19 | 0.84 |
| EP-3 | CM-3 Reciprocating Engine | $NO_x$ | 8.26 | 36.18 |
| | | CO | 8.81 | 38.59 |
| | | VOC | 1.10 | 4.82 |
| | | $SO_2$ | 0.01 | 0.05 |
| | | PM | 0.19 | 0.84 |
| EP-4 | CM-4 Reciprocating Engine | $NO_x$ | 8.26 | 36.18 |
| | | CO | 8.81 | 38.59 |
| | | VOC | 1.10 | 4.82 |
| | | $SO_2$ | 0.01 | 0.05 |
| | | PM | 0.19 | 0.84 |
| EP-5 | CM-5 Reciprocating Engine | $NO_x$ | 8.26 | 36.18 |
| | | CO | 8.81 | 38.59 |
| | | VOC | 1.10 | 4.82 |
| | | $SO_2$ | 0.01 | 0.05 |
| | | PM | 0.19 | 0.84 |
| EP-6 | CM-6 Reciprocating | $NO_x$ | 4.46 | 19.54 |

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

| Engine | CO | 8.92 | 39.07 |
|---|---|---|---|
| | VOC | 0.59 | 2.60 |
| | $SO_2$ | 0.01 | 0.03 |
| | PM | 0.10 | 0.46 |

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES
## AIR CONTAMINANTS DATA

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates * lb/hr | TPY |
|---|---|---|---|---|
| EP-7 | CM-7 Reciprocating Engine | $NO_x$ | 4.46 | 19.54 |
| | | CO | 8.92 | 39.07 |
| | | VOC | 0.59 | 2.60 |
| | | $SO_2$ | 0.01 | 0.03 |
| | | PM | 0.10 | 0.46 |
| EP-8 | CM-8 Reciprocating Engine | $NO_x$ | 4.46 | 19.54 |
| | | CO | 8.92 | 39.07 |
| | | VOC | 0.59 | 2.60 |
| | | $SO_2$ | 0.01 | 0.03 |
| | | PM | 0.10 | 0.46 |
| EP-9 | Heater | $NO_x$ | 1.56 | 6.83 |
| | | CO | 1.04 | 4.56 |
| | | VOC | 0.13 | 0.57 |
| | | $SO_2$ | 0.03 | 0.11 |
| | | PM | 0.29 | 1.25 |
| EP-10 | Emergency Flare | Emergency only | | |
| EP-11 | SRU Incinerator (5) | $NO_x$ | 0.43 | 1.88 |
| | | CO | 2.50 | 10.95 |
| | | VOC | <0.01 | <0.01 |
| | | $SO_2$ | 72.46 | 317.37 |
| | | $H_2S$ | 0.04 | 0.18 |
| | | $CS_2$ | 0.01 | 0.04 |
| | | COS | <0.01 | 0.04 |
| EP-11 | SRU Incinerator (6) | $NO_x$ | 0.43 | 1.88 |
| | | CO | 2.50 | 10.95 |
| | | VOC | <0.01 | <0.01 |
| | | $SO_2$ | 38.50 | 168.63 |
| | | $H_2S$ | 0.04 | 0.18 |
| | | $CS_2$ | 0.01 | 0.04 |
| | | COS | <0.01 | 0.01 |
| EP-12 | Tank Truck Loading | VOC | 34.98 | 0.06 |
| EP-13 | Auxiliary Boiler | $NO_x$ | 0.23 | 0.99 |

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

| | | |
|---|---|---|
| CO | 0.05 | 0.20 |
| VOC | 0.01 | 0.05 |
| $SO_2$ | <0.01 | 0.01 |
| PM | 0.01 | 0.05 |

## AIR CONTAMINANTS DATA

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates * lb/hr | TPY |
|---|---|---|---|---|
| EP-14 | Emergency Diesel Generator | NO$_x$ | 8.85 | 0.89 |
| | | CO | 0.72 | 0.07 |
| | | VOC | 0.23 | 0.02 |
| | | SO$_2$ | 0.80 | 0.08 |
| | | PM | 0.98 | 0.10 |
| WT-2 | Amine Wastewater Tank | VOC | 0.21 | 0.003 |
| WT-3 | Slop Oil Tank | VOC | 0.10 | 0.005 |
| WT-4 | MDEA Wastewater Tank | VOC | 0.24 | 0.006 |
| FUG | Fugitive (4) | VOC | 18.36 | 80.42 |
| | | H$_2$S | 0.30 | 1.29 |

(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 General Rule 101.1
     NO$_x$  - total oxides of nitrogen
     SO$_2$  - sulfur dioxide
     PM   - particulate matter including PM10
     CO   - carbon monoxide
     H$_2$S  - hydrogen sulfide
     CS$_2$  - carbon disulfide
     COS          - carbonyl sulfide

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

(5)  Emission rates for SRU Incinerator shall remain effective until the tail gas cleanup unit is installed and operational or September 25, 1994, whichever comes first.  Emission rates for SRU Incinerator shall also apply after tail gas cleanup unit (TGCU) installation for those times when the TGCU is down and the SRU continues to process acid gas.

(6)  Emission rates reflect addition of TGCU and become effective no later than September 25, 1994.

 *  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_____