EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 3956B

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** |
| ALLTUR | 10 Turbines and 1 Spare Solar Saturn T-1200 (T-1 through T-8, T-11, and T-12) | CO | 33.80 | 148.04 |
| | | $NO_x$ | 32.62 | 142.87 |
| | | $PM_{10}$ | 5.49 | 24.04 |
| | | $SO_2$ | 3.94 | 17.26 |
| | | VOC | 0.52 | 2.29 |
| CAN-DEGASS | Aerosol Can Degassing Unit | VOC | 0.25 | 0.10 |
| CT-1 | Cooling Tower 1 | $PM/PM_{10}$ | 0.99 | 4.34 |
| | | VOC (8) | 1.68 | 7.36 |
| CT-2 | Cooling Tower 2 | $PM/PM_{10}$ | 1.24 | 5.43 |
| | | VOC (8) | 1.26 | 5.52 |
| CT-3 | Cooling Tower 3 | $PM/PM_{10}$ | 1.57 | 6.88 |
| | | VOC (8) | 1.03 | 4.49 |
| DEGREASE | Degreasing Unit | VOC | 0.04 | 0.19 |
| E-1E, E-1M, and E-1W | Heater H-1 (199 MMBtu/hr) | CO | 50.00 | 16.47 |
| | | CO (9) | 128.00 | |
| | | $NO_x$ | 6.97 | 28.82 |
| | | $NO_x$ (9) | 8.6 | - |
| | | $PM_{10}$ | 1.00 | 4.12 |
| | | $SO_2$ (4) | 8.92 | 38.78 |
| | | VOC | 1.07 | 4.44 |

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## 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** |
|---|---|---|---|---|
| E-2E, E-2M, and E-2W | Heater H-2 (188 MMBtu/hr) | CO | 50.00 | 16.47 |
| | | CO (9) | 128.00 | - |
| | | $NO_x$ | 6.97 | 28.82 |
| | | $NO_x$ (9) | 8.6 | - |
| | | $PM_{10}$ | 1.00 | 4.12 |
| | | $SO_2$ (4) | 8.92 | 38.78 |
| | | VOC | 1.07 | 4.44 |
| E-3E and E-3W | Heater H-3 (39 MMBtu/hr) | CO | 3.21 | 12.26 |
| | | $NO_x$ | 3.82 | 14.60 |
| | | $PM_{10}$ | 0.29 | 1.11 |
| | | $SO_2$ | 0.22 | 0.85 |
| | | VOC | 0.21 | 0.80 |
| EG-1 | Emergency Generator (6) | CO | 0.70 | 0.30 |
| | | $NO_x$ | 0.43 | 0.18 |
| | | $PM_{10}$ | 0.01 | 0.01 |
| | | $SO_2$ | 0.01 | 0.01 |
| | | VOC | 0.01 | 0.01 |
| ETEG-1 | TEG Still Vent No. 1 | VOC | 1.35 | 5.93 |
| ETEG-2 | TEG Still Vent No. 2 | VOC | 0.39 | 1.73 |
| FL-1 | Flare (Normal Operation Only) | CO | 9.57 | 0.76 |
| | | $NO_x$ | 4.79 | 0.38 |
| | | $SO_2$ | 0.01 | 0.01 |
| | | VOC | 20.00 | 0.15 |
| | (Startup, Shutdown and Maintenance Emissions Only) | CO | 20.95 | 0.09 |
| | | $NO_x$ | 10.49 | 0.05 |
| | | $SO_2$ | 0.02 | 0.01 |
| | | VOC | 38.01 | 0.18 |

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** |
|---|---|---|---|---|
| FW-2 | Fire Water Engine (5) | CO | 3.07 | 0.31 |
| | | $NO_x$ | 14.30 | 1.43 |
| | | $PM_{10}$ | 1.01 | 0.10 |
| | | $SO_2$ | 0.33 | 0.03 |
| | | VOC | 1.16 | 0.12 |
| LOAD | Loading | VOC | 1.57 | 0.02 |
| OILVT-1 | Lube Oil Vent No. 1 | VOC | 0.08 | 0.35 |
| OILVT-2 | Lube Oil Vent No. 2 | VOC | 0.08 | 0.35 |
| OILVT-3 | Lube Oil Vent No. 3 | VOC | 0.08 | 0.35 |
| OILVT-4 | Lube Oil Vent No. 4 | VOC | 0.08 | 0.35 |
| OILVT-5 | Lube Oil Vent No. 5 | VOC | 0.08 | 0.35 |
| OILVT-6 | Lube Oil Vent No. 6 | VOC | 0.08 | 0.35 |
| OILVT-7 | Lube Oil Vent No. 7 | VOC | 0.08 | 0.35 |
| OILVT-8 | Lube Oil Vent No. 8 | VOC | 0.08 | 0.35 |
| OILVT-11 | Lube Oil Vent No. 11 | VOC | 0.08 | 0.35 |
| OILVT-12 | Lube Oil Vent No. 12 | VOC | 0.08 | 0.35 |
| OILVT-13 | Lube Oil Vent No. 13 | VOC | 0.08 | 0.35 |
| OILVT-14 | Lube Oil Vent No. 14 | VOC | 0.08 | 0.35 |
| S-T13 | Turbine | CO | 5.86 | 25.65 |
| | Solar Centaur T-4700 | $NO_x$ | 8.06 | 35.32 |
| | | $PM_{10}$ | 2.01 | 8.81 |
| | | $SO_2$ | 1.44 | 6.32 |
| | | VOC | 0.17 | 0.73 |
| S-T14 | Turbine | CO | 5.86 | 25.65 |

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** |
|---|---|---|---|---|
| | Solar Centaur T-4700 | $NO_x$ | 8.06 | 35.32 |
| | | $PM_{10}$ | 2.01 | 8.81 |
| | | $SO_2$ | 1.44 | 6.32 |
| | | VOC | 0.17 | 0.73 |
| SV-1 | Tank SV-1 | VOC | 0.96 | 0.12 |
| SV-3 | Tank SV-3 | VOC | 0.03 | 0.01 |
| SV-4 | Tank SV-4 | VOC | 4.80 | 4.33 |
| SV-5 | Tank SV-5 | VOC | 10.14 | 0.01 |
| SV-7 | Tank SV-7 | VOC | 0.01 | 0.01 |
| SV-41 | Tank SV-41 | VOC | 0.09 | 0.01 |
| SV-50 | Tank SV-50 | VOC | 4.80 | 2.70 |
| SV-51 | Tank SV-51 | VOC | 0.96 | 0.14 |
| SV-56 | Tank SV-56 | VOC | 0.02 | 0.01 |
| SV-58 | Tank SV-58 | VOC | 0.01 | 0.01 |
| SV-59 | Tank SV-59 | VOC | 0.01 | 0.01 |
| PLANT-FUG | Plant Process Fugitives (7) | VOC | 5.93 | 25.96 |

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

(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) CO - carbon monoxide
$NO_x$ - total oxides of nitrogen
PM - particulate matter, suspended in the atmosphere, including $PM_{10}$
$PM_{10}$ - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
$SO_2$ - sulfur dioxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code ' 101.1
(4) Short-term and annual $SO_2$ emissions are based on the assumption that all acid gas and Merox vent streams (including MINALK related vent streams) are routed to either Heater Nos. 1 or 2. This is the worst case $SO_2$ emission scenario for each heater and $SO_2$ emission rate from each heater can not emit at the same time from Heater Nos. H-1 and H-2.
(5) This engine is limited to 200 hours of operation per year.
(6) Maximum operating hours for the emergency generator will not exceed 10 percent (876 hours) of the normal 8,760 hour annual operating time.
(7) Plant fugitives include amine area, storage area, debutanizer, turbine, and plant process fugitives. The fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
(8) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
(9) Emissions that are authorized for transient periods as described under Special Condition No. 7(B).

* Emission rates are based on and the facilities are limited by the following maximum operating schedule except as specified in note (5):

24 Hrs/day 7 Days/week 52 Weeks/year

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

Dated January 7, 2010