

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 80900

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) | <u>Emission Rates *</u> | |
|---------------------------|--------------------------------|-----------------------------|-------------------------|--------|
| | | | lb/hr | TPY ** |
| E-01-R | 1,478-hp Waukesha L7042GSI | NO _x | 6.52 | 28.54 |
| | | CO | 6.52 | 28.54 |
| | | VOC | 0.65 | 2.85 |
| | | SO ₂ | 0.01 | 0.03 |
| | | PM ₁₀ | 0.22 | 0.98 |
| E-02 | 1,680-hp Waukesha L7044GSI | NO _x | 7.41 | 32.45 |
| | | CO | 7.41 | 32.45 |
| | | VOC | 0.74 | 3.24 |
| | | SO ₂ | 0.01 | 0.03 |
| | | PM ₁₀ | 0.26 | 1.12 |
| E-03-R | 1,265-hp Caterpillar G3516TALE | NO _x | 5.58 | 24.43 |
| | | CO | 7.67 | 33.59 |
| | | VOC | 1.67 | 7.33 |
| | | SO ₂ | 0.01 | 0.03 |
| | | PM ₁₀ | 0.10 | 0.43 |
| HTR-01 | 0.75 MMBtu/hr Dehy Reboiler | NO _x | 0.08 | 0.33 |
| | | CO | 0.06 | 0.28 |
| | | VOC | <0.01 | 0.02 |
| | | PM ₁₀ | <0.01 | 0.02 |
| FL-01 | Glycol Dehydration Unit | NO _x | 0.03 | 0.14 |
| | | CO | 0.18 | 0.79 |
| | | VOC | 0.34 | 1.48 |
| | | PM ₁₀ | <0.01 | 0.02 |
| TK-03 | Wastewater Storage Tank | VOC | 0.08 | 0.33 |

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|---------------------------|-----------------------------|-----------------------------|-------------------------|--------|
| | | | lb/hr | TPY ** |
| TK-04 | Dehy Condenser Drip Sump | VOC | 0.02 | 0.70 |
| TK-05 | Methanol Storage Tank | VOC | 0.01 | 0.03 |
| TK-06 | Lube Oil Storage Tank | VOC | 0.05 | 0.20 |
| TK-07 | Used Oil Storage Tank | VOC | 0.01 | 0.03 |
| TK-08 | Used Oil Storage Tank | VOC | 0.01 | 0.03 |
| TL-01 | Condensate Loadout | VOC | 10.51 (during loading) | 1.14 |
| TL-02 | Dehy Condenser Drip Loadout | VOC | 10.51 (during loading) | 0.13 |
| FUG-01 | Piping Fugitives | VOC | 0.39 | 1.69 |
| VENT-01 | Blowdown Vent | VOC | 13.30 | 0.24 |

Emissions Prior to 01/05/2012

| | | | | |
|-------|-----------------|-----|------|------|
| TK-01 | Condensate Tank | VOC | 2.18 | 9.54 |
| TK-02 | Condensate Tank | VOC | 2.18 | 9.54 |

Emissions after 01/05/2012

Control Option No. 1: Vapor Recovery Unit (VRU) with a minimum control efficiency of 95 percent.

| | | | | |
|-------|-----------------|-----|------|------|
| TK-01 | Condensate Tank | VOC | 0.11 | 0.48 |
| TK-02 | Condensate Tank | VOC | 0.11 | 0.48 |

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|---------------------------|--------------------|-----------------------------|------------------|--------|
| | | | lb/hr | TPY ** |

Control Option No. 2: Vapor Combustor/flare with a minimum 98 percent control efficiency.

| | | | | |
|------|---|------------------|-------|-------|
| VC-1 | Vapor Combustor for Tanks (TK-01, TK-02) | NO _x | 0.18 | 0.80 |
| | | CO | 0.15 | 0.67 |
| | | VOC | 0.10 | 0.43 |
| | | SO ₂ | <0.01 | <0.01 |
| | | PM ₁₀ | 0.01 | 0.06 |

- (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 - nitrogen oxides
 PM₁₀ - particulate matter (PM) 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.
 SO₂ - sulfur dioxide
 VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

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

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

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

Dated