

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 20601

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** |
| CS1 | Secondary Boiler | VOC | 0.08 | 0.35 |
| | | CO | 1.22 | 5.33 |
| | | NO _x | 1.45 | 6.34 |
| | | SO ₂ | 0.01 | 0.04 |
| | | PM | 0.11 | 0.48 |
| CS2 | Primary Boiler | VOC | 0.05 | 0.19 |
| | | CO | 0.65 | 2.84 |
| | | NO _x | 0.77 | 3.38 |
| | | SO ₂ | 0.01 | 0.02 |
| | | PM | 0.06 | 0.26 |
| CS3 | K52 Hot Oil Unit | VOC | 0.04 | 0.18 |
| | | CO | 0.62 | 2.72 |
| | | NO _x | 0.74 | 3.24 |
| | | SO ₂ | 0.01 | 0.02 |
| | | PM | 0.06 | 0.25 |
| CS4 | K57/K58 Hot Oil Unit | VOC | 0.06 | 0.27 |
| | | CO | 0.96 | 4.19 |
| | | NO _x | 1.14 | 4.99 |
| | | SO ₂ | 0.01 | 0.03 |
| | | PM | 0.09 | 0.38 |
| CS5 | K54 Hot Oil Unit | VOC | 0.08 | 0.34 |
| | | CO | 1.18 | 5.17 |
| | | NO _x | 1.41 | 6.16 |
| | | SO ₂ | 0.01 | 0.04 |
| | | PM | 0.11 | 0.47 |
| CS6 | Emergency Generator No. 1 (5) | VOC | 0.19 | 0.05 |

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|---------------------------|---|-----------------------------|------------------|-------|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates * | |
| | | | lb/hr | TPY** |
| | (75 HP) | CO | 0.50 | 0.13 |
| | | NO _x | 2.33 | 0.58 |
| | | SO ₂ | 0.16 | 0.04 |
| | | PM | 0.17 | 0.04 |
| CS7 | Emergency Generator No. 2 (5) (375 HP) | VOC | 0.93 | 0.23 |
| | | CO | 2.51 | 0.63 |
| | | NO _x | 11.62 | 2.91 |
| | | SO ₂ | 0.77 | 0.19 |
| | | PM | 0.83 | 0.21 |
| CS8 | Emergency Generator No. 3 (5) (64 HP) | VOC | 0.16 | 0.04 |
| | | CO | 0.43 | 0.11 |
| | | NO _x | 1.99 | 0.50 |
| | | SO ₂ | 0.13 | 0.03 |
| | | PM | 0.14 | 0.04 |
| CS9 | Fire Pump No. 1 (South) | VOC | 0.55 | 0.14 |
| | | CO | 1.47 | 0.37 |
| | | NO _x | 6.82 | 1.71 |
| | | SO ₂ | 0.45 | 0.11 |
| | | PM | 0.49 | 0.12 |
| CS10 | Fire Pump No. 2 (North) | VOC | 0.55 | 0.14 |
| | | CO | 1.47 | 0.37 |
| | | NO _x | 6.82 | 1.71 |
| | | SO ₂ | 0.45 | 0.11 |
| | | PM | 0.49 | 0.12 |
| D1 | Diesel Tank No. 1 | VOC | 0.01 | 0.01 |
| D2 | Diesel Tank No. 2 | VOC | 0.01 | 0.01 |
| E5 | Thermal Oxidizer | VOC | 1.20 | 4.74 |
| | | CO | 0.70 | 3.04 |

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| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates * | |
| | | | lb/hr | TPY** |
| | | NO _x | 0.83 | 3.62 |
| | | SO ₂ | 0.01 | 0.02 |
| | | PM | 0.06 | 0.28 |
| E6 | Carbon Adsorption System (6) | VOC | 0.09 | 0.01 |
| 6210 | Glycerin Tank No. 1 | VOC | 0.01 | 0.01 |
| 6211 | Glycerin Tank No. 2 | VOC | 0.01 | 0.01 |
| 6217 | Neopentyl Glycol Tank | VOC | 0.01 | 0.01 |
| 6303 | Soybean Oil Tank No. 1 | VOC | 0.02 | 0.01 |
| 6304 | Soybean Oil Tank No. 2 | VOC | 0.02 | 0.01 |
| 6311 | TMP Tank | VOC | 0.01 | 0.01 |
| 6501 | Dipropylene Glycol Tank | VOC | 0.03 | 0.01 |
| 6503 | Ethylene Glycol Tank | VOC | 0.48 | 0.01 |
| 6507 | Tall Oil Fatty Acid Tank | VOC | 0.02 | 0.01 |
| 6513 | Propylene Glycol Tank | VOC | 0.19 | 0.01 |
| 6514 | Diethylene Glycol Tank | VOC | 0.03 | 0.01 |
| F1 | Fugitives (4) | VOC | 8.79 | 27.32 |

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- (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 Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
CO - carbon monoxide
SO₂ - sulfur dioxide
PM - particulate matter (PM) less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns in emitted.
 - (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
 - (5) The operations of each generator are limited to a maximum of 500 hour per year for emergency use only.
 - (6) The carbon adsorption system shall be used during periods when the thermal oxidizer goes off-line.
- * Emission rates are based on and the facilities are limited by the following maximum operating schedule:
8,760 hrs/year.
- ** Compliance with annual emission limits is based on a rolling 12-month period.

Dated February 12,

2007
