EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 20289

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.

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates * lb/hr | TPY |
|---|---|---|---|---|
| | | | AIR CONTAMINANTS DATA | |
| 002 | Process Heater | CO | 2.41 | 8.97 |
| | | $NO_x$ | 4.82 | 17.94 |
| | | $PM_{10}$ | 0.82 | 3.07 |
| | | $SO_2$ | 1.92 | 0.90 |
| | | VOC | 0.17 | 0.62 |
| 003 | Process Heater | CO | 2.41 | 8.97 |
| | | $NO_x$ | 4.82 | 17.94 |
| | | $PM_{10}$ | 0.82 | 3.07 |
| | | $SO_2$ | 1.92 | 0.90 |
| | | VOC | 0.17 | 0.62 |
| 004 | Process Heater | CO | 3.10 | 11.53 |
| | | $NO_x$ | 6.19 | 23.06 |
| | | $PM_{10}$ | 1.06 | 3.95 |
| | | $SO_2$ | 2.56 | 1.19 |
| | | VOC | 0.22 | 0.80 |
| 020B | Butamer Unit Fugitives (4) | VOC | 6.56 | 28.75 |
| 021 | Cooling Tower (4) | VOC | 0.13 | 0.55 |
| 101 | Oleflex Heater | CO | 11.77 | 46.88 |
| | | $NO_x$ | 17.66 | 70.33 |
| | | $PM_{10}$ | 1.43 | 5.68 |
| | | $SO_2$ | 0.17 | 0.75 |
| | | VOC | 0.40 | 1.75 |

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AIR CONTAMINANTS DATA

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates * lb/hr | TPY |
|---|---|---|---|---|
| 102 | Steam Boiler | CO | 8.76 | 26.17 |
| | | $NO_x$ | 23.36 | 69.77 |
| | | $PM_{10}$ | 1.41 | 4.23 |
| | | $SO_2$ | 4.88 | 2.42 |
| | | VOC | 0.40 | 1.18 |
| 103 | Steam Boiler | CO | 8.76 | 26.17 |
| | | $NO_x$ | 23.36 | 69.77 |
| | | $PM_{10}$ | 1.41 | 4.23 |
| | | $SO_2$ | 4.88 | 2.42 |
| | | VOC | 0.40 | 1.18 |
| 104A | Flare 1 | CO | 3.36 | 4.11 |
| | | $NO_x$ | 1.48 | 1.15 |
| | | $PM_{10}$ | 0.03 | 0.05 |
| | | $SO_2$ | <0.01 | <0.01 |
| | | VOC | 11.09 | 7.44 |
| 104B | Flare 2 | CO | 0.34 | 1.49 |
| | | $NO_x$ | 0.07 | 0.29 |
| | | $PM_{10}$ | 0.01 | 0.02 |
| | | $SO_2$ | <0.01 | <0.01 |
| | | VOC | 0.01 | 0.02 |
| 105 | Thermal Oxidizing Flare | CO | 24.91 | 11.75 |
| | | Isobutylene | 34.10 | 0.34 |
| | | MTBE | 32.73 | 11.82 |
| | | $NO_x$ | 6.34 | 3.82 |
| | | $PM_{10}$ | 0.29 | 0.18 |
| | | $SO_2$ | 0.01 | 0.01 |
| | | VOC | 0.03 | 0.03 |
| 106 | Storage Tank | MEOH | 0.84 | 0.45 |
| 107 | Storage Tank | MTBE | 0.22 | 0.84 |
| 108 | Storage Tank | MTBE | 0.22 | 0.84 |

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AIR CONTAMINANTS DATA

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates * lb/hr | TPY |
|---|---|---|---|---|
| 109 | Storage Tank | MTBE | 1.25 | 1.87 |
| 111 | Storage Tank | VOC | 0.06 | 0.09 |
| 112 | CCR Vent Gas Scrubber | CO | 0.09 | 0.39 |
| | | $Cl_2$ | 0.04 | 0.16 |
| | | HCl | 0.54 | 2.35 |
| | | $NO_x$ | 0.04 | 0.18 |
| | | $SO_2$ | 1.13 | 4.94 |
| 113 | Cooling Tower (4) | VOC | 1.05 | 4.60 |
| 114 | CPI Separator | VOC | 1.50 | 0.58 |
| 115 | Oleflex Unit Area Fugitives (4) | VOC | | 2.01 8.77 |
| 116 | MTBE Unit Area Fugitives (4) | VOC | | 2.81 12.36 |
| 117 | OSBL Tank Area Fugitives (4) | VOC | | 0.43 1.93 |
| 118 | OSBL Boiler Area Fugitives (4) | VOC | | 0.26 1.14 |
| 119 | Wastewater Treatment Area Fugitives (4) | VOC | 0.43 | 1.58 |
| 120 | PSA Unit Fugitives (4) | VOC | 0.24 | 1.05 |
| 121 | Diesel Fired Generator | CO | 0.90 | 0.09 |

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AIR CONTAMINANTS DATA

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates * lb/hr | TPY |
|---|---|---|---|---|
| | | $NO_x$ | 4.15 | 0.43 |
| | | $PM_{10}$ | 0.30 | 0.03 |
| | | $SO_2$ | 0.28 | 0.03 |
| | | VOC | 0.33 | 0.03 |
| 122 | CCR Chlorine Fugitives (4) | $Cl_2$ | 0.01 | 0.06 |
| 123 | Fire Water Engine | CO | 0.43 | 0.05 |
| | | $NO_x$ | 2.01 | 0.21 |
| | | $PM_{10}$ | 0.14 | 0.02 |
| | | $SO_2$ | 0.13 | 0.01 |
| | | VOC | 0.19 | 0.02 |
| 124 | Diesel Storage Tank | VOC | 0.06 | <0.01 |

(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) $Cl_2$ - chlorine
CO - carbon monoxide
HCl - hydrogen chloride
MEOH - methanol
MTBE - methyl-tert-butyl-ether
$NO_x$ - total oxides of nitrogen
$PM_{10}$ - particulate matter less than 10 microns
$SO_2$ - sulfur dioxide
VOC - volatile organic compounds as defined in General Rule 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

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AIR CONTAMINANTS DATA

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates * lb/hr | TPY |
|---|---|---|---|---|

following maximum operating schedule:

Hrs/day_____Days/week_____Weeks/year_____ or Hrs/year 8,760

Dated ____