

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 25956

This table lists the maximum allowable emission rates for all sources of air contaminants on the applicant's property covered by this permit.

AIR CONTAMINANTS DATA

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates * | |
|---------------------------|--|-----------------------------|------------------|---------|
| | | | lb/hr | TPY (4) |
| EPN-1 | Solvent Exhaust Vent (5) (One Rotor Concentrator/ Thermal Oxidizer) | VOC | 46.91 | 20.99 |
| | | ES | 1.89 | 0.81 |
| | | CO | 2.80 | 12.26 |
| | | NO _x | 1.65 | 7.23 |
| | | SO ₂ | 0.05 | 0.22 |
| | | PM | 0.25 | 1.10 |
| EPN-2 | Acid Exhaust Vent (6) (Three In-Line Water Scrubbers and One Backup Water Scrubber) | Acids | 0.84 | 3.65 |
| | | Bases | 0.56 | 2.46 |
| | | Inorganic Fluorides | 0.69 | 3.02 |
| | | Halocarbons | 3.21 | 14.07 |
| | | VOC | 0.04 | 0.18 |
| EPN-3 | Caustic Exhaust Vent (One In-Line Water Scrubber And One Backup Water Scrubber) | Acids | 0.18 | 0.77 |
| | | Bases | 0.21 | 0.92 |
| | | VOC | 0.13 | 0.57 |
| EPN-4 | Boiler Vent (7) (Uncontrolled) | NO _x | 7.74 | 13.42 |
| | | CO | 3.07 | 7.62 |
| | | SO ₂ | 22.64 | 8.46 |
| | | VOC | 1.32 | 3.33 |
| | | ES | 0.70 | 3.07 |
| | | PM | 1.10 | 2.17 |
| EPN-5 | Photoresist Stripping Unit (8) (Uncontrolled) | VOC | 1.20 | 5.25 |
| | | ES | 1.25 | 5.49 |
| EPN-101 | Emergency Generator (Uncontrolled) | NO _x | 41.45 | 4.15 |
| | | CO | 8.95 | 0.90 |
| | | SO ₂ | 2.76 | 0.28 |
| | | VOC | 3.37 | 0.34 |
| | | PM | 2.95 | 0.30 |

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| Emission * Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | |
|--------------------------------|-----------------------------------|-----------------------------|----------------|------|
| | | | lb/hr | TPY |
| EPN-103 | Fire Water Pump (Uncontrolled) | NO _x | 10.19 | 0.25 |
| | | CO | 2.20 | 0.06 |
| | | SO ₂ | 0.68 | 0.02 |
| | | VOC | 0.83 | 0.02 |
| | | PM | 0.73 | 0.02 |

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.

(2) Specific point source name.

(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code Section 101.1

ES - exempt solvents (non-volatile organic compounds)

NO_x - nitrogen oxides

CO - carbon monoxide

SO₂ - sulfur dioxide

PM - particulate matter, suspended in the atmosphere including PM₁₀

PM₁₀ - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted

(4) Annual emission rates are based on a rolling consecutive 12-month period.

(5) Hourly emission rates reflect uncontrolled emissions while the rotor concentrator/oxidizer system is off-line. Annual emission rates reflect 168 hours per year of uncontrolled emissions and 8,592 hours per year of controlled emissions.

(6) Emission rates are a sum of these three scrubbers.

Emission rate for inorganic fluorides does not include hydrofluoric acid.

Emission rate for acids includes hydrofluoric acid.

(7) Hourly emissions are based on usage of No. 2 fuel oil.

Annual emissions are based on 8,030 hours of natural gas usage and 730 hours of No. 2 fuel oil usage.

(8) Emission rates are based on chlorinated solvent emissions only.

Non-chlorinated solvent emissions are exhausted to EPN-1 as represented in the permit amendment application dated August 2001.

* Allowable emission rates do not represent potential increases allowed under Special Condition No. 3.

Operating Schedule: 24 Hours/Day 7 Days/Week 52 Weeks/Year

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

Dated _____