

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 18972

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 |
| E1 | E Acid (wet scrubber) | Acid Inorganics INOF | 0.02 <0.01 0.06 | 0.04 <0.01 0.14 |
| E2 | E IPA Scrub (wet scrubber) | VOC | 0.99 | 2.17 |
| E3 | E ORG/VOC (uncontrolled) | VOC | 6.68 | 14.63 |
| E4 | E Acid (wet scrubber) | INOF | 0.01 | 0.03 |
| W1 | W Acid/Alkali (wet scrubber) | Acid Alkali INOF | 0.23 0.03 0.02 | 0.51 0.07 0.05 |
| W2 | W IPA Scrub (wet scrubber) | VOC | 0.99 | 2.17 |
| W3 | W Thermox (thermal oxidizer) | VOC Non-VOC PM SO ₂ NO _x CO | 0.39 0.01 0.01 <0.01 0.24 0.05 | 0.86 0.01 0.03 0.01 1.05 0.21 |
| W4 | W ORG/VOC | VOC | 3.34 | 7.32 |

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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> |
| | (uncontrolled) | Non-VOC | 2.18 | 4.77 |
| | | Inorganics | <0.01 | 0.01 |
| W5 | W Acid | Acid | 0.11 | 0.23 |
| | (wet scrubber) | Alkali | 0.02 | 0.04 |
| | | Inorganics | 0.01 | 0.02 |
| | | INOF | 0.04 | 0.05 |
| | | Non-VOC | 0.16 | 0.34 |
| W6 | W Alkali | Alkali | 0.03 | 0.07 |
| | (wet scrubber) | Acid | 0.09 | 0.20 |
| A1 | STP2 Acid/Alkali | Acid | 0.23 | 0.50 |
| | (wet scrubber) | Alkali | <0.01 | 0.02 |
| | | Inorganics | <0.01 | <0.01 |
| | | INOF | 0.05 | 0.11 |
| | | VOC | 0.13 | 0.28 |
| | | Non-VOC | 0.01 | 0.02 |
| M1A1 | EXPAN Acid 1 | Acid | 0.13 | 0.29 |
| | (wet scrubber) | Alkali | <0.01 | <0.01 |
| | | VOC | <0.01 | <0.01 |
| | | Non-VOC | 0.16 | 0.35 |
| | | Inorganics | <0.01 | 0.01 |
| | | INOF | 0.05 | 0.11 |
| M1A2 | EXPAN Acid 2 | Acid | 0.13 | 0.29 |
| | (wet scrubber) | Alkali | <0.01 | <0.01 |
| | | VOC | <0.01 | <0.01 |
| | | Non-VOC | 0.16 | 0.35 |
| | | Inorganics | <0.01 | 0.01 |
| | | INOF | 0.05 | 0.11 |
| M1A3 | EXPAN Acid 3 | Acid | 0.13 | 0.29 |
| | (wet scrubber) | Alkali | <0.01 | <0.01 |
| | | VOC | <0.01 | <0.01 |

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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> |
| M1A4 | EXPAN Acid 4 (wet scrubber) (backup only) | Non-VOC | 0.16 | 0.35 |
| | | Inorganics | <0.01 | 0.01 |
| | | INOF | 0.05 | 0.11 |
| | | Acid | 0.13 | 0.29 |
| | | Alkali | <0.01 | <0.01 |
| | | VOC | <0.01 | <0.01 |
| | | Non-VOC | 0.16 | 0.35 |
| | | Inorganics | <0.01 | 0.01 |
| M1UC1 | EXPAN Alkali 1 (wet scrubber) | Alkali | 0.06 | 0.13 |
| | | Acid | 0.01 | 0.02 |
| M1UC2 | EXPAN Alkali 2 (wet scrubber) (backup only) | Alkali | 0.06 | 0.13 |
| | | Acid | 0.01 | 0.02 |
| RC1 | EXPAN Thermox 1 (Rotor Concentrator/ Thermal oxidizer) | VOC | 2.56 | 5.62 |
| | | Non-VOC | 0.11 | 0.24 |
| | | PM | 0.02 | 0.08 |
| | | SO ₂ | <0.01 | <0.01 |
| | | NO _x | 0.17 | 0.72 |
| | | CO | 1.84 | 8.06 |
| WYTANKFU | W Yard Tanks (storage tanks) | VOC | 0.17 | 0.36 |
| | | Non-VOC | 0.01 | 0.01 |
| | | Acid | 0.02 | 0.05 |
| | | INOF | <0.01 | <0.01 |
| EYTANKFU | E Yard Tanks (storage tanks) | Acid | <0.01 | <0.01 |
| | | Alkali | <0.01 | <0.01 |

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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 General Rule 101.1
Non-VOC - volatile organic compounds specifically excluded from the definition of volatile organic compounds in General Rule 101.1
- NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
PM - particulate matter
CO - carbon monoxide
INOF - inorganic fluoride compounds

* These allowable emission rates do not represent the potential increases allowed under Special Condition No. 4.

Hydrofluoric acid is grouped with the inorganic fluoride compounds.

Dated _____