

Emission Sources - Maximum Allowable Emission Rates

Permit Number 96510

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, sources, and related activities. 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 | |
|------------------------|--------------------------------------|--------------------------|----------------|---------|
| | | | lbs/hour | TPY (4) |
| 1 | Additive Preparation Vessel baghouse | PM ₁₀ | 0.09 | 0.04 |
| | | PM _{2.5} | 0.06 | 0.03 |
| 2 | Flare (Routine) | VOC | 5.70 | 5.76 |
| | | Methanol | 2.94 | 2.04 |
| | | Vinyl Acetate | 1.74 | 1.08 |
| | | Acetaldehyde | 0.01 | 0.01 |
| | | 1-propanol | 0.01 | 0.01 |
| | | Ethylene | 1.02 | 2.64 |
| | | Methylacetate | 0.11 | 0.60 |
| | | NO _x | 0.67 | 2.94 |
| | | SO ₂ | 0.13 | 0.58 |
| | | CO | 3.66 | 16.01 |
| 2 | Flare (MSS) | VOC | 3.74 | 0.01 |
| | | Methanol | 1.85 | 0.01 |
| | | Vinyl Acetate | 1.84 | 0.01 |
| | | Acetaldehyde | 0.02 | 0.01 |
| | | Ethylene | 0.03 | 0.01 |
| | | Methylacetate | 2.25 | 0.01 |
| | | NO _x | 0.01 | 0.03 |
| | | SO ₂ | 0.01 | 0.01 |
| | | CO | 0.04 | 0.16 |
| 3 | C-706 Scrubber (Routine) | VOC | 0.68 | 0.01 |
| | | Methanol | 0.01 | 0.01 |
| | | Acetic Acid | 0.68 | 0.01 |
| 3a | C-706 Scrubber (MSS) | VOC | 0.01 | 0.01 |
| | | Methanol | 0.01 | 0.01 |
| | | Acetic Acid | 0.01 | 0.01 |

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| | | | | |
|---------------|--------------------------------------------------|-------------------------------------|-------|-------|
| 4 | C-901 Scrubber | VOC | 0.08 | 0.02 |
| | | Methanol | 0.06 | 0.01 |
| | | Acetic Acid | 0.02 | 0.02 |
| | | Methylacetate | 33.02 | 0.93 |
| 5 | C-061 Scrubber | VOC | 0.01 | 0.01 |
| | | Methanol | 0.01 | 0.01 |
| 6 | C-511-1 Scrubber | VOC | 0.31 | 1.17 |
| | | Methanol | 0.31 | 1.17 |
| | | Methylacetate | 5.31 | 19.53 |
| | | PM ₁₀ /PM _{2.5} | 0.08 | 0.30 |
| 7 | C-311-1 Scrubber (Routine) | VOC | 0.10 | 0.35 |
| | | Methanol | 0.10 | 0.35 |
| | | Methylacetate | 3.62 | 13.03 |
| | | PM ₁₀ /PM _{2.5} | 0.05 | 0.15 |
| 7a | C-311-1 Scrubber (MSS) | VOC | 1.35 | 0.02 |
| | | Methanol | 1.35 | 0.02 |
| | | Vinyl Acetate | 60.36 | 0.88 |
| 9 | Tank Car Loading/Unloading | VOC | 0.61 | 0.23 |
| | | Methanol | 0.22 | 0.01 |
| | | Vinyl Acetate | 0.29 | 0.21 |
| | | Acetic Acid | 0.02 | 0.01 |
| | | Acetaldehyde | 0.08 | 0.01 |
| | | 1-Propanol | 0.01 | 0.01 |
| | | Methylacetate | 0.03 | 0.01 |
| 10 (ATTACH A) | MTC Building Washing, Catalyst charging/handling | VOC | 0.11 | 0.01 |
| | | PM ₁₀ /PM _{2.5} | 0.01 | 0.01 |
| 11a | Cooling Tower | VOC | 0.01 | 0.02 |
| | | PM ₁₀ /PM _{2.5} | 0.11 | 0.40 |
| 11b | Cooling Tower | VOC | 0.01 | 0.02 |
| | | PM ₁₀ /PM _{2.5} | 0.11 | 0.40 |
| 12 | Firewater Pump | VOC | 0.74 | 0.02 |
| | | SO ₂ | 0.01 | 0.01 |
| | | NO _x | 9.30 | 0.24 |
| | | CO | 2.00 | 0.05 |
| | | PM ₁₀ | 0.66 | 0.017 |
| | | PM _{2.5} | 0.66 | 0.017 |

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| | | | | |
|--------|-----------------------------|--------------------|--------|------|
| 13 | Emergency Generator | VOC | 0.60 | 0.10 |
| | | SO ₂ | 0.02 | 0.01 |
| | | NO _x | 13.42 | 2.27 |
| | | CO | 2.54 | 0.43 |
| | | PM ₁₀ | 0.21 | 0.04 |
| | | PM _{2.5} | 0.20 | 0.03 |
| FUGTVS | Fugitives: All sections (5) | VOC | 2.05 | 8.99 |
| | | Methanol | 1.20 | 5.27 |
| | | Vinyl Acetate | 0.27 | 1.20 |
| | | Acetic Acid | 0.13 | 0.60 |
| | | Ethylene | 0.45 | 1.96 |
| | | Methylacetate | 0.22 | 0.96 |
| MTCE | Maintenance: All Sections | VOC | 149.86 | 6.40 |
| | | Methanol | 126.20 | 5.46 |
| | | Vinyl Acetate | 14.87 | 0.48 |
| | | Poly-Vinyl Alcohol | 0.32 | 0.06 |
| | | Acetic Acid | 8.42 | 0.40 |
| | | Acetaldehyde | 0.03 | 0.01 |
| | | 1-Propanol | 0.02 | 0.01 |
| | | Methylacetate | 69.87 | 3.50 |

- (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
SO₂ - sulfur dioxide
PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: November 13, 2017