

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 19641

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

| <u>Emission</u> * | 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> |
| FE37 | Scrubber (T-E-107) | VOC | 0.15 | 0.02 |
| FE35 | Scrubber (T-E-15) | VOC | 0.04 | 0.03 |
| FE41 | Scrubber (T-E-15/24) | VOC | 0.48 | 0.14 |
| FE42 | Scrubber (T-E-74/75/116) | VOC | 0.82 | 0.30 |
| TB1 | T-B-1 | VOC | 0.30 | 0.017 |
| TB7 | T-B-7 | VOC | 0.30 | 0.017 |
| TB21 | T-B-21 | VOC | <0.01 | <0.01 |
| TB22 | T-B-22 | VOC | <0.01 | <0.01 |
| TC5 | T-C-5 | VOC | <0.01 | <0.01 |
| TC42 | T-C-42 | VOC | 0.50 | 0.50 |
| TC43 | T-C-43 | VOC | 0.05 | 0.05 |
| TE10 | T-E-10 | VOC | 0.07 | 0.07 |
| TE16 | T-E-16 | VOC | 0.07 | 0.07 |
| TE17 | T-E-17 | VOC | 0.10 | 0.10 |

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|---------------|-------------------------|-----------------|-----------------------|------|
| Point No. (1) | Name (2) | Name (3) lb/hr | | TPY |
| TE21 | T-E-21 | VOC | 0.10 | 0.10 |
| TE29 | T-E-29 | VOC | 0.02 | 0.02 |
| TE55 | T-E-55 | VOC | 0.01 | 0.01 |
| TE56 | T-E-56 | VOC | 0.02 | 0.02 |
| TE62 | T-E-62 | VOC | 0.01 | 0.01 |
| TE76 | T-E-76 | VOC | 0.01 | 0.01 |
| TE113 | T-E-113 | VOC | 0.09 | 0.09 |
| TE114 | T-E-114 | VOC | 0.01 | 0.01 |
| TE115 | T-E-115 | VOC | 0.01 | 0.01 |
| TE117 | T-E-117 | VOC | 0.11 | 0.01 |
| TE118 | T-E-118 | VOC | 0.17 | 0.17 |
| TE126 | T-E-126 | VOC | 0.85 | 0.24 |
| HC1 | H-C-1 | NO _x | 0.90 | 3.90 |
| | CO | 0.30 | 1.30 | |
| EA/EDA | Fugitives (4) | VOC | 0.84 | 3.70 |
| TK3 | Fugitives (4) | VOC | 0.41 | 1.80 |
| TK9 | Fugitives (4) | VOC | 0.41 | 1.80 |
| TK10 | Fugitives (T-E-126) (4) | VOC | 0.07 | 0.30 |

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|---------------|--------------------------|-----------------|-----------------------|-------|
| Point No. (1) | Name (2) | Name (3) lb/hr | | TPY |
| JAU3 | Fugitives (4) | VOC | 0.83 | 0.36 |
| | | NH ₃ | 0.20 | 0.88 |
| TB16 | Rundown Tank | VOC | <0.01 | <0.01 |
| TB18 | Rundown Tank | VOC | <0.01 | <0.01 |
| TB19 | Carbonate Catalyst Tank | VOC | 0.01 | 0.01 |
| TB20 | Carbonate Catalyst Tank | VOC | 0.01 | 0.01 |
| TE11 | Product Storage Tank | VOC | 0.09 | 0.01 |
| TE12 | Product Storage Tank | VOC | 0.09 | 0.01 |
| TE25 | Product Storage Tank | VOC | 0.03 | <0.01 |
| TE26 | Product Storage Tank | VOC | 0.03 | <0.01 |
| LD1 | Product Loading (5) | VOC | 0.15 | 0.13 |
| LD2 | Product Loading (5) | VOC | 0.15 | 0.13 |
| LD3 | Product Loading (5) | VOC | 0.15 | 0.13 |
| TRUCK | Truck Loading Rack (8) | VOC | 0.26 | 0.03 |
| RAIL | Rail Loading Rack (8) | VOC | 0.26 | 0.03 |
| AMU | Process Fugitives (4) | VOC | 0.86 | 3.77 |
| CARB | Process Fugitives (4) | VOC | 0.45 | 1.98 |
| | Process Fugitives (4, 6) | VOC | 0.47 | 2.06 |

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|---------------|-------------------------|-----------------|-----------------------|------|
| Point No. (1) | Name (2) | Name (3) lb/hr | | TPY |
| CARB2 | Process Fugitives (4) | PO | 0.03 | 0.13 |
| | | PC | 0.21 | 0.94 |
| TK1 | TE-11, 12 Fugitives (4) | VOC | 0.10 | 0.42 |
| TK3 | TE-25, 26 Fugitives (4) | VOC | 0.08 | 0.37 |
| UC1 | Cooling Tower (7) | VOC | 1.53 | 6.00 |
| | | NH ₃ | 1.00 | 4.38 |
| UC678 | Cooling Tower | VOC | 3.00 | 2.21 |
| RA22 | Plant Flare | VOC | 1.49 | 2.34 |
| | | VOC (6) | 1.51 | 2.42 |
| | | NH ₃ | 0.58 | 0.26 |
| | | NO _x | 0.11 | 0.26 |
| | | CO | 0.94 | 2.26 |
| | | CO (6) | 0.94 | 2.27 |
| RF60 | Flare | VOC | 0.41 | 0.72 |
| | | NO _x | 0.09 | 0.35 |
| | | CO | 0.77 | 3.02 |
| | | HBr | 0.29 | 0.65 |
| RE22 | Loading Incinerator | VOC | 0.93 | 0.21 |
| | | NO _x | 0.58 | 2.60 |
| | | CO | 0.12 | 0.53 |
| | | PM | 0.07 | 0.30 |
| | | SO ₂ | <0.01 | 0.02 |

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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
- NO_x - total oxides of nitrogen
- CO - carbon monoxide
- PM - particulate matter
- NH₃ - anhydrous ammonia
- PO - propylene oxide
- PC - propylene carbonate
- HBr - hydrogen bromide
- SO₂ - sulfur dioxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Maximum combined annual emissions from Emission Point Nos. LD1, LD2, and LD3 shall not exceed 0.13 TPY.
- (6) Maximum allowable emission rate after FB-47 and FB-34 Evaporator Overheads are routed to the Plant Flare (EPN RA-22) as required by Special Condition No. 15.
- (7) Maximum allowable emission rate prior to routing FB-47 and FB-34 Evaporator Overheads to the Plant Flare (EPN RA-22) as required by Special Condition No. 15. This will not be an emission point after that date.
- (8) The combined emission rates from these two emission points shall not exceed 0.26 lb/hr or 0.03 TPY.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day _____ Days/week _____ Weeks/year _____
or Hrs/year 8,760

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Dated _____