

Emission Sources - Maximum Allowable Emission Rates

Permit Number 29010

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) |
| BMA-1 | Tank No. 91325 | VOC | 2.35 | 6.15 |
| BMA-2 | Tank No. 91326 | VOC | 7.41 | 0.66 |
| BMA-4 | Catalyst Storage | VOC | 0.01 | 0.01 |
| BMA-5 | Catalyst Storage | VOC | 0.01 | 0.01 |
| BMA-9 | Process Vessel | VOC | 0.02 | 0.20 |
| BMA-11 | Process Vessel | VOC | 0.01 | 0.06 |
| BMA-13 | Process Vessel | VOC | 0.75 | 0.01 |
| BMA-16 | Byproduct Storage Tank | VOC | 1.38 | 0.68 |
| BMA-17 | BMA Flare | CO | 3.29 | 13.46 |
| | | NO _x | 0.38 | 1.57 |
| | | VOC | 3.03 | 9.87 |
| BMA-19 | Product Storage Tank | VOC | 0.10 | 0.45 |
| BMA-20 | Product Storage Tank | VOC | 0.10 | 0.45 |
| BMA-21 | Bleed Stripper Bottoms Storage | VOC | 0.01 | 0.02 |
| BMA-23 | Drain Tank | VOC | 3.18 | 1.27 |
| BMA-24 | Feed Tank | VOC | 0.01 | 0.06 |
| BMA-25 | Tank 28100 | VOC | 0.01 | 0.01 |
| BMA-26 | Product Loading | VOC | 3.55 | 0.23 |
| BMA-27 | Stripper Bottoms Loading | VOC | 1.78 | 0.01 |
| BMA-FUG | Fugitives (5) | VOC | 2.50 | 10.96 |

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| | | | | |
|------------|--------------------------------|-----|------|------|
| PN-MMA-1 | Tank No. 28054 | VOC | 6.84 | 6.18 |
| PN-MMA-2 | Tank No. 96674 | VOC | 3.94 | 7.30 |
| PN-MMA-3 | DMMA Distillate Receiver | VOC | 1.10 | 0.04 |
| PN-MMA-4 | Tank No. 03814 | VOC | 0.44 | 0.05 |
| PN-MMA-5 | Tank No. 03798 | VOC | 2.40 | 0.06 |
| PN-MMA-8 | Tank No. 03812 | VOC | 1.24 | 0.02 |
| PN-MMA-9 | Tank No. 91329 | VOC | 7.41 | 0.26 |
| PN-MMA-10 | Tank No. 90071 | VOC | 1.44 | 1.18 |
| PN-MMA-11 | Tank No. 90075 | VOC | 1.44 | 1.18 |
| LOAD-1 | Loading at P-North | VOC | 3.69 | 0.52 |
| MMA-FUG | DMMA Unit Fugitives | VOC | 1.44 | 6.31 |
| PNBMA-MSTK | Vertical Fixed Roof Tank MSS | VOC | 1.70 | 0.01 |
| BMA16-MSS | Distillate Unloading Emissions | VOC | 1.35 | 0.01 |
| PNBMA-MSPH | Pump and Heat Exchanger MSS | VOC | 0.03 | 0.01 |
| PNBMA_DGAS | Equipment Degassing | VOC | 1.44 | 0.01 |
| PNMISCMSS | Miscellaneous Activities | VOC | 1.83 | 0.02 |
| HT-3 | Railcar Loading from 96674 | VOC | 0.03 | 0.01 |
| 96674-FUG | 96674 RC Loading Fugitives | VOC | 0.03 | 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) CO - carbon monoxide
NO_x - total oxides of nitrogen
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

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- (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: January 17, 2014