

## Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 103626, PSDTX1296 and N164

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) |
| MEOHFUG                | Methanol Unit Fugitives (5) | CO                       | 1.68           | 7.35    |
|                        |                             | VOC                      | 0.45           | 1.97    |
|                        |                             | NH <sub>3</sub>          | 0.09           | 0.38    |
| MEOHFLR                | MSS Flare                   | VOC                      | 143.00         | 2.49    |
|                        |                             | NO <sub>x</sub>          | 340.14         | 21.02   |
|                        |                             | CO                       | 3820.29        | 313.11  |
|                        |                             | SO <sub>2</sub>          | 0.21           | 0.38    |
| MEOHFLR                | CO2COMP                     | VOC                      | 1.68           | 0.04    |
|                        |                             | NO <sub>x</sub>          | 8.34           | 0.27    |
|                        |                             | CO                       | 91.46          | 2.74    |
|                        |                             | SO <sub>2</sub>          | 0.08           | 0.01    |
| MEOHANALZ              | Methanol Unit Analyzer      | VOC                      | 0.01           | 0.01    |
|                        |                             | CO                       | 0.02           | 0.07    |
| REFORM                 | Methanol Reformer           | VOC                      | 34.96          | 26.27   |
|                        |                             | NO <sub>x</sub>          | 29.76          | 27.40   |
|                        |                             | CO                       | 166.22         | 166.84  |
|                        |                             | SO <sub>2</sub>          | 2.28           | 9.14    |
|                        |                             | PM                       | 8.87           | 35.61   |
|                        |                             | PM <sub>10</sub>         | 8.87           | 35.61   |
|                        |                             | PM <sub>2.5</sub>        | 8.87           | 35.61   |
|                        |                             | NH <sub>3</sub>          | 5.05           | 20.29   |

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|                         |  |                   |       |      |
|-------------------------|--|-------------------|-------|------|
| MEOHMT                  | Cooling Tower  | VOC               | 0.83  | 3.64 |
|                         |  | PM                | 0.83  | 3.62 |
|                         |  | PM <sub>10</sub>  | 0.46  | 2.02 |
|                         |  | PM <sub>2.5</sub> | 0.01  | 0.01 |
| MEOHMSS                 | Methanol MSS   | VOC               | 39.94 | 0.37 |
| MEOHENG                 | Methanol Engine  | VOC               | 0.90  | 0.04 |
|                         |  | NO <sub>x</sub>   | 0.88  | 0.04 |
|                         |  | CO                | 0.77  | 0.04 |
|                         |  | PM                | 0.04  | 0.01 |
|                         |  | PM <sub>10</sub>  | 0.04  | 0.01 |
|                         |  | PM <sub>2.5</sub> | 0.04  | 0.01 |
|                         |  | SO <sub>2</sub>   | 0.01  | 0.01 |
| T9801ST or<br>T9801TEMP | Methanol Scrubber or<br>Temporary Methanol<br>Scrubber | VOC               | 15.50 | 3.51 |

- (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<sub>x</sub> - total oxides of nitrogen  
 SO<sub>2</sub>- sulfur dioxide  
 PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented  
 PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented  
 PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter  
 CO - carbon monoxide  
 NH<sub>3</sub> - Ammonia
- (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: June 19, 2019