

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 41166 and PSDTX939

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 (6) | TPY (4) |
| Hourly Emissions Rates - Normal Operations | | | | |
| E-ST 1 | MHI501G (~ 254 MW) + ~ 243.3 MMBtu/hr DB | NO _x | 91.9 | - |
| | | CO | 143.4 | - |
| | | VOC | 12.3 | - |
| | | PM ₁₀ /PM _{2.5} | 30.1 | - |
| | | SO ₂ | 41.8 | - |
| | | H ₂ SO ₄ | 5.1 | - |
| | | NH ₃ | 37.8 | - |
| E-ST 2 | MHI501G (~ 254 MW) + ~ 243.3 MMBtu/hr DB | NO _x | 91.9 | - |
| | | CO | 143.4 | - |
| | | VOC | 12.3 | - |
| | | PM ₁₀ /PM _{2.5} | 30.1 | - |
| | | SO ₂ | 41.8 | - |
| | | H ₂ SO ₄ | 5.1 | - |
| | | NH ₃ | 37.8 | - |
| Hourly Emissions Rates - Reduced Load and MSS Operations | | | | |
| E-ST 1 | MHI501G (~ 254 MW) + ~ 243.3 MMBtu/hr DB | NO _x | 386.9 | - |
| | | CO | 3029.2 | - |
| | | VOC | 333.4 | - |
| | | PM ₁₀ /PM _{2.5} | 21.3 | - |

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| | | | | |
|--|---|-------------------------------------|--------|--------|
| E-ST 1 | MHI501G (~ 254 MW) + ~ 243.3 MMBtu/hr DB | SO ₂ | 18.2 | - |
| | | H ₂ SO ₄ | 2.2 | - |
| | | NH ₃ | 20.5 | - |
| E-ST 2 | MHI501G (~ 254 MW) + ~ 243.3 MMBtu/hr DB | NO _x | 386.9 | - |
| | | CO | 3029.2 | - |
| | | VOC | 333.4 | - |
| | | PM ₁₀ /PM _{2.5} | 21.3 | - |
| | | SO ₂ | 18.2 | - |
| | | H ₂ SO ₄ | 2.2 | - |
| | | NH ₃ | 20.5 | - |
| Annual Emission Rates - Normal, Reduced Load, and MSS Operations | | | | |
| E-ST 1 & E-ST 2 | MHI501G (~ 254 MW) + ~ 243.3 MMBtu/hr DB | NO _x | - | 708.7 |
| | | CO | - | 1128.6 |
| | | VOC | - | 103.0 |
| | | PM ₁₀ /PM _{2.5} | - | 230.9 |
| | | SO ₂ | - | 161.6 |
| | | H ₂ SO ₄ | - | 19.8 |
| | | NH ₃ | - | 291.5 |
| E-AUXBLR | Auxiliary Boiler 142 MMBtu/hr | NO _x | 8.5 | 3.7 |
| | | CO | 10.5 | 4.6 |
| | | VOC | 0.77 | 0.34 |
| | | PM ₁₀ /PM _{2.5} | 1.4 | 0.6 |
| | | SO ₂ | 2.2 | 0.49 |
| E-TANK7 | Diesel Storage Tank 300 gallon | VOC | 0.01 | <0.01 |

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| | | | | |
|----------|---|-------------------------------------|--------|-------|
| C-TOWER | Cooling Tower | PM | 5.68 | 24.87 |
| | | PM ₁₀ /PM _{2.5} | 0.41 | 1.82 |
| E-PIPFUG | Piping Fugitives | VOC | 0.11 | 0.5 |
| | | NH ₃ | 0.33 | 1.41 |
| MSSFUG | non-ILEs Maintenance emissions (Attachment B) | VOC | 276.33 | 0.27 |
| ILEMSS | ILEs Maintenance (Attachment A) | NO _x | <0.01 | <0.01 |
| | | CO | <0.01 | <0.01 |
| | | VOC | 0.21 | 0.01 |
| | | PM ₁₀ | 0.36 | 0.01 |
| | | PM _{2.5} | 0.36 | 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) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.
 - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - NO_x - total oxides of nitrogen
 - SO₂ - sulfur dioxide
 - PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
 - 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
 - MSS - maintenance, start-up, and shutdown emissions
 - HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
- (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.

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- (6) For each pollutant whose emissions are measured during planned MSS activities are measure using a CEMS, the MSS lb/hr limits apply only during each clock hour that includes one or more minutes of MSS activities. During all other clock hours, the normal lb/hr limits apply.

Date: _____