

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 110423 and PSDTX1366

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 |         |
|------------------------|------------------------------------|--------------------------------|----------------|---------|
|                        |                                    |                                | lb/hour        | TPY (4) |
| CT-1                   | Unit 1 – GE7FA.03 (5)              | NO <sub>x</sub>                | 62.34          | 52.68   |
|                        |                                    | NO <sub>x</sub> (MSS)          | 66.50          | -       |
|                        |                                    | CO                             | 37.95          | 132.27  |
|                        |                                    | CO (MSS)                       | 477.60         | -       |
|                        |                                    | VOC                            | 13.28          | 16.24   |
|                        |                                    | VOC (MSS)                      | 36.00          | -       |
|                        |                                    | PM                             | 25.15          | 22.98   |
|                        |                                    | PM <sub>10</sub>               | 25.15          | 22.98   |
|                        |                                    | PM <sub>2.5</sub>              | 25.15          | 22.98   |
|                        |                                    | SO <sub>2</sub>                | 27.40          | 20.57   |
|                        |                                    | H <sub>2</sub> SO <sub>4</sub> | 12.59          | 9.45    |
| CT-2                   | Unit 2 – GE7FA.03 (5)              | NO <sub>x</sub>                | 62.34          | 52.68   |
|                        |                                    | NO <sub>x</sub> (MSS)          | 66.50          | -       |
|                        |                                    | CO                             | 37.95          | 132.27  |
|                        |                                    | CO (MSS)                       | 477.60         | -       |
|                        |                                    | VOC                            | 13.28          | 16.24   |
|                        |                                    | VOC (MSS)                      | 36.00          | -       |
|                        |                                    | PM                             | 25.15          | 22.98   |
|                        |                                    | PM <sub>10</sub>               | 25.15          | 22.98   |
|                        |                                    | PM <sub>2.5</sub>              | 25.15          | 22.98   |
|                        |                                    | SO <sub>2</sub>                | 27.40          | 20.57   |
|                        |                                    | H <sub>2</sub> SO <sub>4</sub> | 12.59          | 9.45    |
| CTLV1                  | Combustion Turbine 1 Lube Oil Vent | VOC                            | 0.09           | 0.40    |

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|        |   |                   |       |       |
|--------|---|-------------------|-------|-------|
|        |   | PM                | 0.09  | 0.40  |
|        |   | PM <sub>10</sub>  | 0.09  | 0.40  |
|        |   | PM <sub>2.5</sub> | 0.09  | 0.40  |
| CTLV2  | Combustion Turbine 2 Lube Oil Vent        | VOC               | 0.09  | 0.40  |
|        |   | PM                | 0.09  | 0.40  |
|        |   | PM <sub>10</sub>  | 0.09  | 0.40  |
|        |   | PM <sub>2.5</sub> | 0.09  | 0.40  |
| FWP    | Firewater Pump (6)<br>250 hp diesel fired | NO <sub>x</sub>   | 1.36  | 0.07  |
|        |   | CO                | 0.66  | 0.03  |
|        |   | VOC               | 0.03  | <0.01 |
|        |   | PM                | 0.06  | <0.01 |
|        |   | PM <sub>10</sub>  | 0.06  | <0.01 |
|        |   | PM <sub>2.5</sub> | 0.06  | <0.01 |
|        |   | SO <sub>2</sub>   | 0.03  | <0.01 |
| NGFUG  | Natural Gas Fugitives (7)                 | VOC               | 0.01  | 0.02  |
| MSSFUG | MSS Fugitives (7)                         | NO <sub>x</sub>   | <0.01 | <0.1  |
|        |   | CO                | <0.01 | <0.01 |
|        |   | VOC               | 0.07  | <0.01 |
|        |   | PM                | 0.09  | 0.02  |
|        |   | PM <sub>10</sub>  | 0.09  | 0.02  |
|        |   | PM <sub>2.5</sub> | 0.09  | 0.02  |

(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) NO<sub>x</sub> - total oxides of nitrogen  
CO - carbon monoxide  
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1  
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  
SO<sub>2</sub> - sulfur dioxide  
H<sub>2</sub>SO<sub>4</sub> - sulfuric acid

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MSS - maintenance, startup, and shutdown

- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Planned MSS for all pollutants are authorized even if not specifically identified as MSS. During any clock hour that includes one or more minutes of planned MSS that pollutant's maximum hourly emission rate shall apply during that clock hour. The ton per year emission rates include MSS.
- (6) The allowable emission rates include MSS activities.
- (7) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: October 31, 2014