

# 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 (5)	
			lbs/hour	TPY (4)
CT-1	Unit 1 – GE7FA.03	NO <sub>x</sub> (6)	62.34	73.60
		NO <sub>x</sub> (Peak Firing) (6) (7)	100.00	
		NO <sub>x</sub> (MSS) (6)	140.00	
		CO (6)	37.95	145.00
		CO (MSS) (6)	477.6	
		VOC	13.28	20.69
		VOC (MSS)	36.00	
		PM	25.15	30.08
		PM <sub>10</sub>	25.15	30.08
		PM <sub>2.5</sub>	25.15	30.08
		SO <sub>2</sub>	27.40	32.04
		H <sub>2</sub> SO <sub>4</sub>	12.59	14.73
CT-2	Unit 2 – GE7FA.03	NO <sub>x</sub> (6)	62.34	73.60
		NO <sub>x</sub> (Peak Firing) (6) (7)	100.00	
		NO <sub>x</sub> (MSS) (6)	140.00	
		CO (6)	37.95	145.00
		CO (MSS) (6)	477.6	
		VOC	13.28	20.69
		VOC (MSS)	36.00	
		PM	25.15	30.08
		PM <sub>10</sub>	25.15	30.08
		PM <sub>2.5</sub>	25.15	30.08
		SO <sub>2</sub>	27.40	32.04
		H <sub>2</sub> SO <sub>4</sub>	12.59	14.73

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CTLV1	Combustion Turbine 1 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
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) 121 hp diesel fired	NO <sub>x</sub>	0.75	0.04
		CO	0.27	0.01
		VOC	0.03	0.01
		SO <sub>2</sub>	<0.01	<0.01
		PM	0.02	<0.01
		PM <sub>10</sub>	0.02	<0.01
		PM <sub>2.5</sub>	0.02	<0.01
NGFUG	Natural Gas Fugitives (8)	VOC	0.01	0.02
MSSFUG	MSS Fugitives (8)	NO <sub>x</sub>	<0.01	0.10
		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) 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
- H<sub>2</sub>SO<sub>4</sub>
  - sulfuric acid
- MSS
  - maintenance, startup, and shutdown

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- (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.
- (6) For each pollutant whose emissions during planned MSS activities are measured 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 lb/hr limits for normal operations or peak firing operations apply, as applicable, subject to the qualifying requirements in Special Condition No. 9.
- (7) This hourly emission rate is authorized only during periods of peak firing operation of the GE model turbine, when turbine operation is above base load, subject to the qualifying requirements in Special Condition No. 9.
- (8) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: May 31, 2019