

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 72579 and PSDTX1080M1

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 (4)	TPY (5)
TURB1	GE 7FA Turbine	NO _x	57.0	267.0
		NO _x (MSS)	195.0	
		CO	29.0	162.0
		CO (MSS)	230.0	
		VOC	2.8	11.2
		PM	10.0	40.0
		PM ₁₀	10.0	40.0
		PM _{2.5}	10.0	40.0
		SO ₂	23.9	95.6
TURB2	GE 7FA Turbine	NO _x	57.0	267.0
		NO _x (MSS)	195.0	
		CO	29.0	162.0
		CO (MSS)	230.0	
		VOC	2.8	11.2
		PM	10.0	40.0
		PM ₁₀	10.0	40.0
		PM _{2.5}	10.0	40.0
		SO ₂	23.9	95.6
TURB3 (6)	Unit 6 – Combustion Turbine 3 GE7FA (~168 MW)	NO _x	57.00	115.20
		NO _x (MSS)	195.00	
		CO	29.00	98.20
		CO (MSS)	230.00	
		VOC	2.80	5.60
		PM	18.00	25.05
		PM ₁₀	18.00	25.05

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		PM _{2.5}	18.00	25.05
		SO ₂	24.50	9.68
HEAT1A	Fuel Gas Heater	NO _x	0.40	1.68
		CO	0.34	1.43
		VOC	0.02	0.08
		PM	0.03	0.13
		PM ₁₀	0.03	0.13
		PM _{2.5}	0.03	0.13
		SO ₂	0.06	0.25
HEAT2	Fuel Gas Heater	NO _x	0.70	2.94
		CO	0.58	2.44
		VOC	0.03	0.15
		PM	0.05	0.22
		PM ₁₀	0.05	0.22
		PM _{2.5}	0.05	0.22
		SO ₂	0.10	0.44

- (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_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, startup, and shutdown
- (4) For each pollutant whose emissions are measured during planned MSS activities using a CEMS, only the MSS lb/hr limits apply during each clock hour that includes one or more minutes of MSS activities. For all other hours the normal lb/hr shall apply.
- (5) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (6) The tons per year emission rates include emissions generated from MSS. Unless denoted separately, the pound per hour emission rates for this facility includes emission from normal and planned MSS operations.

Date: August 24, 2020

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This table lists the maximum allowable emission rates of greenhouse gas (GHG) emissions, as defined in Title 30 Texas Administrative Code § 101.1, for sources of GHG air contaminants on the applicant's property authorized by this permit. 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
			TPY (4)
TURB3	Unit6-Combustion Turbine 3 GEFA (168 MW)	CO ₂	411,958
		CH ₄	29.80
		N ₂ O	10.36
		CO ₂ e	415,790

- (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) CO₂ - carbon dioxide
 N₂O - nitrous oxide
 CH₄ - methane
 SF₆ - sulfur hexafluoride
 CO₂e - carbon dioxide equivalents, based on the following Global Warming Potentials from 40 CFR Part 98, subpart A, Table A-1, effective January 1, 2015: CO₂ (1), CH₄ (25), and N₂O (298)
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period. Annual emission limits include both normal and maintenance, startup, and shutdown (MSS) emissions.

Date: August 24, 2020