

Emission Sources - Maximum Allowable Emission Rates

Permit Number 165697

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)
GT-1	Gas Turbine No. 1 (5) (7)	NO _x	32.2	--
		CO	41.8	--
		SO ₂	4.29	--
		PM	12.61	--
		PM ₁₀	12.61	--
		PM _{2.5}	12.61	--
		VOC	2.35	--
GT-2	Gas Turbine No. 2 (5) (7)	NO _x	32.2	--
		CO	41.8	--
		SO ₂	4.29	--
		PM	12.61	--
		PM ₁₀	12.61	--
		PM _{2.5}	12.61	--
		VOC	2.35	--
GT-3	Gas Turbine No. 3 (5) (7)	NO _x	32.2	--
		CO	41.8	--
		SO ₂	4.29	--
		PM	12.61	--
		PM ₁₀	12.61	--
		PM _{2.5}	12.61	--
		VOC	2.35	--
GT-4	Gas Turbine No. 4	NO _x	32.2	--

Emission Sources - Maximum Allowable Emission Rates

		CO	41.8	--
		SO ₂	4.29	--
		PM	12.61	--
		PM ₁₀	12.61	--
		PM _{2.5}	12.61	--
		VOC	2.35	--
GT-1, 2, 3, 4	Gas Turbine Nos. 1-4 (6) (7)	NO _x	--	70.65
		CO	--	50.11
		SO ₂	--	9.44
		PM	--	27.44
		PM ₁₀	--	27.44
		PM _{2.5}	--	27.44
		VOC	--	2.86

- (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
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Hourly rates are based upon maximum firing case at peak load, approximately 104 percent of base load, except for VOC and CO which are based on turndown case or 75 percent load.
- (6) Annual emissions are based on the sum of emissions for GT-1 through GT-4 at a firing rate of 2,563,000 (MMBtu) per year higher heating value.
- (7) Includes emissions during startup and shutdown.

Date: September 10, 2021