

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 40039 and PSDTX925

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)
Case I: Turbine and Duct Burner firing Natural Gas				
A. Hourly Emissions				
GTDB1	Turbine/HRSG No. 1 (GE Frame 7FA Turbine with 550 MMBtu/hr Duct Burner)	NO _x	106.0	
		CO	106.0	
		PM ₁₀	24.8	
		VOC	16.2	
		SO ₂	33.5	
		H ₂ SO ₄	3.3	
GTDB2	Turbine/HRSG No. 2 (GE Frame 7FA Turbine with 550 MMBtu/hr Duct Burner)	NO _x	106.0	
		CO	106.0	
		PM ₁₀	24.8	
		VOC	16.2	
		SO ₂	33.5	
		H ₂ SO ₄	3.3	
GTDB3	Turbine/HRSG No. 3 (GE Frame 7FA Turbine with 550 MMBtu/hr Duct Burner)	NO _x	106.0	
		CO	106.0	
		PM ₁₀	24.8	
		VOC	16.2	
		SO ₂	33.5	
		H ₂ SO ₄	3.3	
B. Annual Emissions				
GTDB1, 2, and 3	Turbine/HRSG No. 1, 2, and 3 (Three GE Frame 7FA Turbines with	NO _x		1143.2
		CO		1097.2

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		PM ₁₀		300.9
		VOC		155.1
	Annual rates based on total combined turbine/HRSGUs emissions.	SO ₂		152.4
		H ₂ SO ₄		15.8
Case II: Turbine firing No. 2 Fuel Oil (720 Hours) and Duct Burner firing Natural Gas				
A. Hourly Emissions				
GTDB1	Turbine/HRSG No. 1 (GE Frame 7FA Turbine with 550 MMBtu/hr Duct Burner)	NO _x	379.0	
		CO	150.5	
		PM ₁₀	49.8	
		VOC	27.3	
		SO ₂	106.4	
		H ₂ SO ₄	10.3	
GTDB2	Turbine/HRSG No. 2 (GE Frame 7FA Turbine with 550 MMBtu/hr Duct Burner)	NO _x	379.0	
		CO	150.5	
		PM ₁₀	49.8	
		VOC	27.3	
		SO ₂	106.4	
		H ₂ SO ₄	10.3	
GTDB3	Turbine/HRSG No. 3 (GE Frame 7FA Turbine with 550 MMBtu/hr Duct Burner)	NO _x	379.0	
		CO	150.5	
		PM ₁₀	49.8	
		VOC	27.3	
		SO ₂	106.4	
		H ₂ SO ₄	10.3	
B. Annual Emissions				
GTDB1, 2, and 3	Turbine/HRSG No. 1, 2, and 3 (Three GE Frame 7FA Turbines with Duct Burner firing)	NO _x		1414.2
		CO		1134.8
		PM ₁₀		328.0

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	Annual rates based on total combined turbine/HRSGUs emissions.	VOC		164.4
		SO ₂		244.8
		H ₂ SO ₄		25.5
OILTANK	Fuel Oil Tank	VOC	5.68	1.18
FUELFUG (5)	Fugitives	VOC	1.15	5.05

- (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
- PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
- CO - carbon monoxide
- H₂SO₄ - sulfuric acid
- (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.

Date: January 27, 2016