

Emission Sources - Maximum Allowable Emission Rates

Permit Number 25384 and PSDTX839

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)
E-CT/HRSG	Turbine and 375 MMBtu/hr Heat Recovery Steam Generator (5)	NO _x	115.70	272.80
		NO _x (MSS) (7)	330.00	
		CO	348.50	462.60
		CO (MSS) (7)	879.00	
		VOC	30.00	42.30
		SO ₂	87.22	72.50
		PM	57.80	65.20
		PM ₁₀	57.00	61.90
		PM _{2.5}	57.00	61.90
		NH ₃	32.50	130.50
		Pb	0.10	< 0.10
FP-1	Fire Pump (6) 182 Hp	NO _x	1.87	0.02
		CO	0.41	< 0.01
		VOC	0.15	< 0.01
		SO ₂	0.12	< 0.01
		PM	0.13	< 0.01
		PM ₁₀	0.13	< 0.01
		PM _{2.5}	0.13	< 0.01
SO4-TK	Sulfuric Acid Tank	VOC	< 0.10	< 0.10
OIL-TK1	Fuel Oil Tank	VOC	0.60	0.30
OIL-TK2	Fuel Oil Tank	VOC	0.60	0.30
MSSFUG	MSSFUG	VOC	0.26	0.05
		PM	0.05	< 0.01
		PM ₁₀	0.05	< 0.01

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		PM _{2.5}	0.05	< 0.01
		NO _x	< 0.01	< 0.01
		NH ₃	0.16	< 0.01

- (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
Pb - lead
NH₃ - ammonia
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) The allowable emissions shown represent worse-case emissions for 8,040 hours and 720 hours of natural gas and fuel oil firing, respectively, in the CT. The HRSG fires natural gas only and supplies steam to a 104 MW steam turbine.
- (6) Source qualifies for Permit by Rule 30 TAC §106.511.
- (7) 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 normal lb/hr limits apply.

Date: March 28, 2024