

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 45642, PSDTX979M1, and N036M1

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)
Turbine and Duct Burner (Hourly Limits)				
ST-1	CTG1/HRSG1 (Westinghouse 501F Turbine with 725 MMBtu/hr Duct Burner)	NO _x (5)	24.30	---
		CO	291.80	---
		PM ₁₀ (6)	33.90	---
		VOC	35.70	---
		SO ₂	31.90	---
		NH ₃	25.20	---
		H ₂ SO ₄	4.89	---
		(NH ₄) ₂ SO ₄	6.59	---
ST-2	CTG2/HRSG2 (Westinghouse 501F Turbine with 725 MMBtu/hr Duct Burner)	NO _x (5)	24.30	---
		CO	291.80	---
		PM ₁₀ (6)	33.90	---
		VOC	35.70	---
		SO ₂	31.90	---
		NH ₃	25.20	---
		H ₂ SO ₄	4.89	---
		(NH ₄) ₂ SO ₄	6.59	---

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ST-3	CTG3/HRSG3 (Westinghouse 501F Turbine with 725 MMBtu/hr Duct Burner)	NO _x (5)	24.30	---
		CO	291.80	---
		PM ₁₀ (6)	33.90	---
		VOC	35.70	---
		SO ₂	31.90	---
		NH ₃	25.20	---
		H ₂ SO ₄	4.89	---
		(NH ₄) ₂ SO ₄	6.59	---
ST-4	CTG4/HRSG4 (Westinghouse 501F Turbine with 725 MMBtu/hr Duct Burner)	NO _x (5)	24.30	---
		CO	291.80	---
		PM ₁₀ (6)	33.90	---
		VOC	35.70	---
		SO ₂	31.90	---
		NH ₃	25.20	---
		H ₂ SO ₄	4.89	---
		(NH ₄) ₂ SO ₄	6.59	---

Turbines and Duct Burners (Combined and Annual Limits)

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ST-1, ST-2, ST-3, and ST-4	CTG/HRSG1, CTG/HRSG2, CTG/HRSG3, and CTG/HRSG4	NO _x (7)	---	304.3
		CO (7)	---	1981.0
		PM ₁₀ (6) (7)	---	377.5
		VOC (7)	---	61.6
		SO ₂	---	30.0
		NH ₃	---	341.4
		H ₂ SO ₄	---	4.59
		(NH ₄) ₂ SO ₄	---	6.18
CWT	Cooling Tower	PM ₁₀	5.26	18.4
PIPEFUG	Piping Fugitives	VOC	0.22	0.98
		NH ₃	0.53	2.3
LUBEFUG	Turbine Lubrication Fugitives	VOC	0.032	0.14

- (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) NO_x - total oxides of nitrogen
CO - carbon monoxide

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- PM₁₀ - total particulate matter (PM) equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
 - PM_{2.5} - total particulate matter equal to or less than 2.5 microns in diameter
 - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - SO₂ - sulfur dioxide
 - NH₃ - ammonia
 - H₂SO₄ - sulfuric acid
 - (NH₄)₂SO₄ - ammonium sulfate
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) The maximum lb/hr NO_x emission rate is based upon a rolling three-hour average concentration.
- (6) The PM/PM₁₀ values include (NH₄)₂SO₄ emissions.
- (7) The NO_x, CO, and PM₁₀ emissions are regulated under PSDTX979 permit authorization. The NO_x and VOC emissions from ST-1, ST-2, ST-3, and ST-4 are regulated under NA036 permit authorization.

Date: August 19, 2011