

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 56653 and PSDTX1376

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

Combustion Units Firing Natural Gas

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
BOILER9 with Low-NO _x Burners	West Chill Plant Boiler 140 MMBtu/hr	NO _x	1.40	6.13
		CO	4.90	21.45
		VOC	0.75	3.31
		SO ₂	0.08	0.36
		PM	1.04	4.57
		PM ₁₀	1.04	4.57
		PM _{2.5}	1.04	4.57
WP-CTG/HRSG	West Plant Combustion Turbine Normal Operating Emissions	NO _x	0.96	3.54
		CO	12.10	79.40
		VOC	0.76	2.84
		SO ₂	0.34	0.52
		PM	1.80	5.06
		PM ₁₀	1.80	5.06
		PM _{2.5}	1.80	5.06
		H ₂ SO ₄	0.08	0.12
		(NH ₄) ₂ SO ₄	0.10	0.16
		NH ₃	1.66	5.07
EP-CTG/HRSG	East Plant Combustion Turbine Normal Operating Emissions	NO _x	0.96	3.54
		CO	12.10	79.40
		VOC	0.76	2.84
		SO ₂	0.34	0.52
		PM	1.80	5.06
		PM ₁₀	1.80	5.06

Emission Sources - Maximum Allowable Emission Rates

		PM _{2.5}	1.80	5.06
		H ₂ SO ₄	0.08	0.12
		(NH ₄) ₂ SO ₄	0.10	0.16
		NH ₃	1.66	5.07

Fugitives and Planned Maintenance Emissions

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (5)	
			lbs/hour	TPY (4)
BOILER9 MSS	West Chill Plant Boiler 140 MMBtu/hr Short Term MSS (6)	NO _x	4.20	---
		CO	14.70	---
WP-CTG/HRSG MSS	West Plant Combustion Turbine Short Term MSS	NO _x	2.36	---
		CO	180.77	---
		VOC	2.49	---
EP-CTG/HRSG MSS	East Plant Combustion Turbine Short Term MSS	NO _x	2.36	---
		CO	180.77	---
		VOC	2.49	---
TURB-MSS	ILE Turbine Maintenance Fugitives	NO _x	< 0.01	< 0.01
		CO	< 0.01	< 0.01
		VOC	0.53	< 0.01
		PM	0.09	0.02
		PM ₁₀	0.09	0.02
		PM _{2.5}	0.09	0.02
		NH ₃	< 0.01	< 0.01
WP-CTLOV	West Plant Combustion Turbine Lube Oil Vent	VOC	< 0.01	< 0.01
		PM	< 0.01	< 0.01
		PM ₁₀	< 0.01	< 0.01
		PM _{2.5}	< 0.01	< 0.01

Emission Sources - Maximum Allowable Emission Rates

EP-CTLOV	East Plant Combustion Turbine Lube Oil Vent	VOC	< 0.01	< 0.01
		PM	< 0.01	< 0.01
		PM ₁₀	< 0.01	< 0.01
		PM _{2.5}	< 0.01	< 0.01
WP-STLOV	West Plant Steam Turbine Lube Oil Vent	VOC	< 0.01	< 0.01
		PM	< 0.01	< 0.01
		PM ₁₀	< 0.01	< 0.01
		PM _{2.5}	< 0.01	< 0.01
EP-STLOV	East Plant Steam Turbine Lube Oil Vent	VOC	< 0.01	< 0.01
		PM	< 0.01	< 0.01
		PM ₁₀	< 0.01	< 0.01
		PM _{2.5}	< 0.01	< 0.01
WP-COOLTWR	West Plant Cooling Tower	PM	0.52	2.26
		PM ₁₀	0.22	0.98
		PM _{2.5}	< 0.01	< 0.01
EP-COOLTWR	East Plant Cooling Tower	PM	0.27	1.17
		PM ₁₀	0.12	0.51
		PM _{2.5}	< 0.01	< 0.01
VOC-FUG	Fuel fugitives	VOC	0.20	0.88
WP-NH3FUG	Ammonia fugitives	NH ₃	0.05	0.21
EP-NH3FUG	Ammonia fugitives	NH ₃	0.05	0.21

(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
 - H₂SO₄ - sulfuric acid

Emission Sources - Maximum Allowable Emission Rates

$(\text{NH}_4)_2\text{SO}_4$ - ammonium sulfate
 NH_3 - ammonia

- (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.
- (6) During periods of start-up, shutdown, and maintenance (30 percent or less of firing capacity).

Date: April 2, 2024