

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 45360 and PSDTX977

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)(8)
STACK1	CTG-HRSG1 Stack GE7FA (170 MW) + 244 MMBtu/hr DB	NO _x	38.31	155.70
		NO _x (7)	637.00	--
		CO	63.17	237.86
		CO (7)	1550.00	--
		VOC	9.30	32.84
		PM ₁₀	19.22	82.78
		SO ₂	15.26	4.85
		NH ₃	19.86	82.55
		(NH ₄) ₂ SO ₄	2.52	0.80
STACK2	CTG-HRSG2 Stack GE7FA (170 MW) + 244 MMBtu/hr DB	NO _x	38.81	155.70
		NO _x (7)	637.00	--
		CO	63.17	237.86
		CO (7)	1550.00	--
		VOC	9.30	32.84
		PM ₁₀	19.22	82.78
		SO ₂	15.26	4.85
		NH ₃	19.86	82.55
		(NH ₄) ₂ SO ₄	2.52	0.80

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TOMV1	Turbine Oil Mist Vent (6)	VOC	0.01	0.04
TOMV2	Turbine Oil Mist Vent (6)	VOC	0.01	0.04
TOMV3	Turbine Oil Mist Vent (6)	VOC	0.01	0.02
CT-1	Cooling Tower	PM ₁₀	0.75	3.29
TANK1	Aqueous Ammonia Tank	NH ₃	<0.01	<0.01
TANK3	Sodium Hypochlorite Storage Tank	NaOCl	<0.01	<0.01
TANK3A	Sodium Hypochlorite Storage Tank	NaOCl	<0.01	<0.01
TANK8	Diesel Storage Tank	VOC	0.06	<0.01
DFWP1	Diesel Firewater Pump John Deere 275 hp	NO _x	10.49	0.27
		CO	3.13	0.08
		VOC	0.13	<0.01
		PM ₁₀	0.20	0.01
		SO ₂	0.74	0.02
FUG1	Ammonia System (5)	NH ₃	<0.01	0.01
FUG2	Natural Gas Pipeline Fugitives (5)	VOC	0.11	0.48

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- (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
PM₁₀ - total particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
NH₃ - ammonia
(NH₄)₂SO₄ - ammonium sulfate
NaOCl - sodium hypochlorite
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period. Annual emissions include routine startup and shutdown emissions.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations. Emissions are based upon component count and application of appropriate fugitive emission factors.
- (6) Turbine oil mist emissions are estimates only and are based mist eliminator vendor data.
- (7) Routine startup and shutdown emissions.
- (8) Emission rates are based on a maximum combustion turbine generator (CTG) operating schedule of 8,760 hours per year per CTG (hr/yr/CTG) and heat recovery duct burner (HRSG) operating schedule of 6,462 hr/yr per HRSG (hr/yr/HRSG).

Date: _____