

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 40363 and PSDTX927

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)
STACK1	CTG-HRSG Stack Normal Operations	CO	124.00	
		NO _x	91.67	
		PM ₁₀	25.62	
		SO ₂	19.33	
		VOC	7.09	
		NH ₃	37.66	
		H ₂ SO ₄	2.37	
STACK1	CTG-HRSG Stack MSS (8)(9)	CO	2,066.5	
		NO _x	403.1	
		PM/PM ₁₀	25.62	
		SO ₂	19.33	
		VOC	183.5	
		NH ₃	37.66	
		H ₂ SO ₄	2.37	
STACK1	CTG-HRSG Stack Normal and MSS Operations	CO(7)		486.16
		NO _x (7)		340.59
		PM ₁₀ (7)		100.39
		SO ₂		5.99
		VOC		26.33
		NH ₃		139.94

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		H ₂ SO ₄		5.63
TOMV1	Turbine Oil Mist Vent (5)	VOC	0.01	0.04
TOMV2	Turbine Oil Mist Vent (5)	VOC	0.01	0.02
CT-1	Cooling Tower	PM ₁₀	0.50	2.19
TANK1	Aqueous Ammonia Tank	NH ₃	<0.01	<0.01
TANK2	Diesel Storage Tank	VOC	0.02	<0.01
TANK3	Sodium Hypochlorite Tank	NaOCl	<0.01	0.01
TANK4	Sulfuric Acid Tank	H ₂ SO ₄	<0.01	<0.01
WTB1	Water Treatment Chemical Tanks 5 through 13	IOC	0.82	<0.10
FUG1	Ammonia System (6)	NH ₃	0.02	0.06
FUG2	Natural Gas Pipeline and Metering Station (6)	VOC	0.01	0.05
FUG3	Planned MSS Activities (ILE and non-ILE) (6)	CO	<0.01	<0.01
		NO _x	<0.01	<0.01
		PM/PM ₁₀ /PM _{2.5}	6.80	0.17
		SO ₂	<0.01	<0.01
		VOC	485.16	2.88
		NH ₃	33.36	0.02

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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
IOC - inorganic compounds for water treatment including (but not limited to) trisodium phosphate, sodium bisulfate, sodium chloride, and polyquantenary amine chloride
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
NH₃ - ammonia
H₂SO₄ - sulfuric acid
NaOCl - sodium hypochlorite
ILE - inherently low emitting
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Turbine oil mist vent emission are estimates only based on mist vent eliminator vendor data.
- (6) Fugitive emission are an estimate only based on component count and application of appropriate fugitive emission factors.
- (7) Emissions regulated under PSDTX927 permit authorization.
- (8) 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.
- (9) These limits include hourly emissions from a non-ILE activity (See Attachment B).

Date: _____