

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 42734 and PSD-TX-958

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. 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 *	
			lb/hr	TPY**
STACK1	CTG-HRSG Stack	CO ***	117.60	212.60
		NO _x ***	97.20	200.43
		PM ₁₀ ***	31.40	107.80
		SO ₂	4.24	6.32
		VOC	12.00	25.35
		NH ₃	45.70	109.06
		(NH ₄) ₂ SO ₄	2.10	2.95
STACK2	CTG-HRSG Stack	CO ***	117.60	212.60
		NO _x ***	97.20	200.43
		PM ₁₀ ***	31.40	107.80
		SO ₂	4.24	6.32
		VOC	12.00	25.35
		NH ₃	45.70	109.06
		(NH ₄) ₂ SO ₄	2.10	2.95
TOMV1	Turbine Oil Mist Vent (4)	VOC	0.01	0.04
TOMV2	Turbine Oil Mist Vent (4)	VOC	0.01	0.04
TOMV3	Turbine Oil Mist Vent (4)	VOC	0.01	0.02
CT-1	Cooling Tower	PM ₁₀	4.50	11.84
TANK1	Aqueous Ammonia Tank	NH ₃	<0.01	<0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY**
TANK2	Aqueous Ammonia Tank	NH ₃	<0.01	<0.01
TANK3	Sodium Hypochlorite Tank	NaOCl	<0.01	0.01
TANK4	Sulfuric Acid Tank	H ₂ SO ₄	<0.01	<0.01
Tanks 5 through 8	Water Tanks	--	—	--
WTB1	Common Vent for Water Treatment Chemical Tanks 9, 10, 11, 12, and 13	IOC and OC	0.54	<0.10
FUG1	Ammonia System Fugitives (5)	NH ₃	0.01	0.04
FUG2	Natural Gas Pipeline and Metering Station Fugitives (5)	VOC	0.04	0.19

- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources use area name or fugitive source name.
- (3)
- CO - carbon monoxide
 - NO_x - total oxides of nitrogen
 - PM₁₀ - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
 - SO₂ - sulfur dioxide
 - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - NH₃ - ammonia
 - (NH₄)₂SO₄ - ammonium sulfate
 - NaOCl - sodium hypochlorite
 - H₂SO₄ - sulfuric acid

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IOC and OC - inorganic and organic compounds for water treatment including (but not limited to) trisodiumphosphate, carbohydrazide, sodium bisulfite, sodium chloride, and polyquaternary amine chloride.

- (4) Turbine oil mist vent emissions are estimates only based on mist vent eliminator vendor data.
- (5) Fugitive emissions are an estimate only based on component count and application of appropriate fugitive emission factors.

* Emission rates are based on a maximum combustion turbine generator (CTG) operating schedule of 8,760 hours per year per CTG, and heat recovery duct burners operating a maximum of 2,500 hours per EPNs STACK1 and STACK2.

** Compliance with annual emission limits is based on a rolling 12-month period.

*** Emissions regulated under PSD-TX-958 permit authorization.

Dated April 23, 2008