

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Nos. 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 ***	150.40	230.60
		NO _x ***	111.20	210.43
		PM ₁₀ ***	39.80	118.30
		SO ₂	4.80	6.60
		VOC	22.00	35.10
		NH ₃	45.70	109.06
		(NH ₄) ₂ SO ₄	2.18	2.99
STACK2	CTG-HRSG Stack	CO ***	150.40	230.60
		NO _x ***	111.20	210.43
		PM ₁₀ ***	39.80	118.30
		SO ₂	4.80	6.60
		VOC	22.00	35.10
		NH ₃	45.70	109.06
		(NH ₄) ₂ SO ₄	2.18	2.99
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	1.05	4.60
Stack 3	Emergency Generator	CO	11.88	0.62
		NO _x	32.40	1.68
		PM ₁₀	0.24	0.01
		SO ₂	0.08	<0.01
		VOC	2.79	0.15

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
TANK1	Aqueous Ammonia Tank	NH ₃	<0.01	<0.01
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 (5)	NH ₃	0.01	0.04
FUG2	Natural Gas Pipeline and Metering Station (5)	VOC	0.04	0.19

(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) 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 30 Texas Administrative Code Section 101.1

NH₃ - ammonia

(NH₄)₂SO₄ - ammonium sulfate

H₂SO₄ - sulfuric acid

NaOCl - sodium hypochlorite

IOC and trisodium - inorganic and organic compounds for water treatment including (but not limited to)

OC amine phosphate, carbohydrazide, sodium bisulfite, sodium chloride, and polyquaternary

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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 EPN STACK1 and EPN STACK2.

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

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

Dated _____