

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 46665 and PSD-TX-1003

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 ***	67.70	230.60
		NO _x ***	61.80	210.43
		PM ₁₀ ***	37.60	115.30
		SO ₂	4.80	6.60
		VOC	22.00	35.10
		NH ₃	32.00	109.06
		H ₂ SO ₄	2.18	2.99
STACK2	CTG-HRSG Stack	CO ***	67.70	230.60
		NO _x ***	61.80	210.43
		PM ₁₀ ***	37.60	115.30
		SO ₂	4.80	6.60
		VOC	22.00	35.10
		NH ₃	32.00	109.06
		H 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	1.93	8.44
DFWP1	Diesel Fire Water Pump	CO	0.55	0.03
		NO _x	1.91	0.10
		PM ₁₀	0.15	0.01
		SO ₂	0.15	0.01
		VOC	0.05	<0.01

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AIR CONTAMINANTS DATA

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
TANK12	Brine Regeneration Tank	Brine	0.36	<0.01
TANK15	Diesel Storage Tank	VOC 0.05		0.01
FUG1	Ammonia System (5) 0.04	NH ₃		0.01
FUG2	Natural Gas Pipeline and Metering 0.15 Station (5)	VOC		0.04
FUG3	Natural Gas Pipeline and Metering 0.04 Station (5)	VOC		0.01

(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 - 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.

CO - carbon monoxide

H₂SO₄ - sulfuric acid

NH₃ - ammonia

NaOCl - sodium hypochlorite

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

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- * 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 STACK 1 and EPN STACK 2.
- ** Compliance with annual emission limits is based on a rolling 12-month period.
- *** Emissions regulated under PSD-TX-1003 permit authorization.

Dated _____