

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Nos. 44175, PSD-TX-969, and N029

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 (Siemens/Westinghouse 501 FD)	NO _x ***	48.84	103.81
		CO ***	141.50	354.94
		VOC	23.49	38.08
		PM ₁₀ ***	21.25	83.34
		SO ₂	18.95	5.38
		NH ₃	25.28	105.42
		(NH ₄) ₂ SO ₄	3.13	0.89
STACK1	CTG-HRSG Stack (Siemens/Westinghouse 501 FD)	NO _x ***	48.84	103.81
		CO ***	141.50	354.94
		VOC	23.49	38.08
		PM ₁₀ ***	21.25	83.34
		SO ₂	18.95	5.38
		NH ₃	25.28	105.42
		(NH ₄) ₂ SO ₄	3.13	0.89
TOMV1	Turbine Oil Mist Vent (4)	VOC	0.01	0.02
TOMV2	Turbine Oil Mist Vent (4)	VOC	0.01	0.02
TOMV3	Turbine Oil Mist Vent (4)	VOC	0.01	0.02
CT-1	Cooling Tower	PM ₁₀	1.69	7.40
TANKS 1, 2, and 3	Water Tanks	--	—	--
TANK4	Aqueous Ammonia Tank	NH ₃	<0.01	<0.01
TANK5	Aqueous Ammonia Tank	NH ₃	<0.01	<0.01

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			lb/hr	TPY**
TANK6	Aqueous Ammonia Tank	NH ₃	<0.01	<0.01
WTB1	Sodium Hypochlorite Tank7	NaOCl	<0.01	<0.01
TANK8	Sulfuric Acid Tank	H ₂ SO ₄	<0.01	<0.01
TANK9	Diesel Fuel Storage	VOC	0.02	<0.01
DFWP1	Diesel Fire Water Pump	NO _x	3.79	0.10
		CO	1.01	0.03
		SO ₂	0.54	0.01
		PM ₁₀	0.15	<0.01
		VOC	0.59	0.02
FUG1	Ammonia System (5)	NH ₃	<0.01	<0.02
FUG2	Natural Gas Pipeline Fugitives (5)	VOC	0.07	0.33

(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) NO_x - total oxides of nitrogen

CO - carbon monoxide

VOC - volatile organic compounds as defined in 30 Texas Administrative Code Section 101.1

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

NH₃ - ammonia

(NH₄)₂SO₄ - ammonium sulfate

H₂SO₄ - sulfuric acid

NaOCl - sodium hypochlorite

(4) Turbine oil mist vent emissions are estimates only based on mist vent eliminator vendor data.

(5) Fugitive emissions are based on component count and application of appropriate fugitive emission factors.

* Emission rates are based on a maximum combustion turbine generator (CTG) operating schedule

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
of <u>8,760</u> hours per year per CTG, and heat recovery duct burners operating a maximum of <u>3,000</u> hours per each stack (EPNs STACK1 and STACK2).				

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

*** Emissions regulated under PSD-TX-969 permit authorization.

Dated _____