

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 9292A, PSD-TX-605M3, and N-046

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
Turbine and Duct Burner (Hourly Limits)				
GT-102	Gas Turbine/HRSG 102 Stack (Westinghouse 501D Turbine with 437 MMBtu/hr Duct Burner)	VOC	10.7	
		NO _x (5)	29.8	
		SO ₂	6.0	
		PM ₁₀	13.9	
		CO (4)	450.3	
		NH ₃	15.3	
		H ₂ SO ₄	0.93	
GT-103	Gas Turbine/HRSG 103 Stack (Westinghouse 501D Turbine with 437 MMBtu/hr Duct Burner)	VOC	10.7	
		NO _x (5)	29.8	
		SO ₂	6.0	
		PM ₁₀	13.9	
		CO (4)	450.3	
		NH ₃	15.3	
		H ₂ SO ₄	0.93	
GT-104	Gas Turbine/HRSG 104 Stack (Westinghouse 501D Turbine with 437 MMBtu/hr Duct Burner)	VOC	10.7	
		NO _x (5)	29.8	
		SO ₂	6.0	
		PM ₁₀	13.9	
		CO (4)	450.3	
		NH ₃	15.3	
		H ₂ SO ₄	0.93	
AB-120	Auxiliary Steam Boiler 1 (Rated at 385 MMBtu/hr)	VOC	7.7	
		NO _x	3.9	
		SO ₂	3.5	
		PM ₁₀	8.2	
		CO	23.9	
		NH ₃	1.4	
		H ₂ SO ₄	0.54	

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Emission *	Source	Air Contaminant	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
AB-130	Auxiliary Steam Boiler 2 (Rated at 385 MMBtu/hr)	VOC	7.7	
		NO _x	3.9	
		SO ₂	3.5	
		PM ₁₀	8.2	
		CO	23.9	
		NH ₃	1.4	
		H ₂ SO ₄	0.54	
AB-140	Auxiliary Steam Boiler 3 (Rated at 385 MMBtu/hr)	VOC	7.7	
		NO _x	3.9	
		SO ₂	3.5	
		PM ₁₀	8.2	
		CO	23.9	
		NH ₃	1.4	
		H ₂ SO ₄	0.54	
AB-150	Auxiliary Steam Boiler 4 (Rated at 385 MM Btu/hr)	VOC	7.7	
		NO _x	3.9	
		SO ₂	3.5	
		PM ₁₀	8.2	
		CO	23.9	
		NH ₃	1.4	
		H ₂ SO ₄	0.54	
Turbines, Duct Burners, and Auxiliary Boilers (Combined Annual Limits)				
GT-102-104 and AB120-150	Total of Gas Turbine/HRSG 102 through 104 and Auxiliary Boilers 1 through 4	VOC		100.9
		NO _x		247.2
		SO ₂		14.8
		PM ₁₀	113.6	
		CO		4418.5
		NH ₃		148.8
		H ₂ SO ₄		2.3
CT-101A, B, C, and D	Cooling Tower 101	PM ₁₀	0.50	1.32

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
CT-102A,B	Cooling Tower 102	PM ₁₀	0.25	0.66
NH3FUG	SCR Ammonia Fugitives	NH ₃	0.03	0.12

(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 equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.

CO - carbon monoxide

NH₃ - ammonia

H₂SO₄ - sulfuric acid mist

(4) CO pound per hour emission rate is based upon a 24-hour rolling average period.

(5) NO_x pound per hour emission rate is based upon a rolling three hour average period.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day 24 Days/week 7 Weeks/year 52 or Hrs/year

Dated July 12, 2002