

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers: 41996, PSD-TX-953, and N-020

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	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
<u>Turbine, Duct Burner, and Auxiliary Boiler (Hourly Limits)</u>				
CTG1	Turbine/HRSG No. 1 (Westinghouse 501F Turbine with 400 MMBtu/hr Duct Burner)	NO _x	29.3	
		CO	228.0	
		PM ₁₀	28.3	
		VOC	24.8	
		SO ₂	28.2	
		NH ₃	30.9	
		H ₂ SO ₄	4.8	
CTG2	Turbine/HRSG No. 2 (Westinghouse 501F Turbine with 400 MMBtu/hr Duct Burner)	NO _x	29.3	
		CO	228.0	
		PM ₁₀	28.3	
		VOC	24.8	
		SO ₂	28.2	
		NH ₃	30.9	
		H ₂ SO ₄	4.8	
CTG3	Turbine/HRSG No. 3 (Westinghouse 501F Turbine with 400 MMBtu/hr Duct Burner)	NO _x	29.3	
		CO	228.0	
		PM ₁₀	28.3	
		VOC	24.8	
		SO ₂	28.2	
		NH ₃	30.9	
		H ₂ SO ₄	4.8	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
B-1	Auxiliary Boiler No. 1 (460 MMBtu/hr)	NO _x	5.06	
		CO	32.90	
		PM ₁₀	3.22	
		VOC	1.84	
		SO ₂	2.50	
		NH ₃	2.08	
		H ₂ SO ₄	0.38	
B-2	Auxiliary Boiler No. 2 (460 MMBtu/hr)	NO _x	5.06	
		CO	32.90	
		PM ₁₀	3.22	
		VOC	1.84	
		SO ₂	2.50	
		NH ₃	2.08	
		H ₂ SO ₄	0.38	

Turbine, Duct Burner, and Auxiliary Boiler (Combined Annual Limits)

CTG No. 1-3,	Turbine/HRSG No. 1-3, B-1, and B-2	NO _x **		
	324.3			
B-1, B-2	(Westinghouse 501F Turbines with	CO **		1281.9
	400 MMBtu/hr Duct Burners and	PM ₁₀ **		259.4
	Auxiliary Boilers)	VOC **		97.9
		SO ₂		34.6
		NH ₃		343.2
		H ₂ SO ₄		5.7
LOV-1	CTG-1 Lube Oil Vent	PM/PM ₁₀	0.1	0.4
LOV-2	CTG-2 Lube Oil Vent	PM/PM ₁₀	0.1	0.4
LOV-3	CTG-3 Lube Oil Vent	PM/PM ₁₀	0.1	0.4
LOV-4	Steam Turbine Lube Oil Vent	PM/PM ₁₀	0.1	0.4
CWT-1	Cooling Tower	PM ₁₀	1.9	8.3

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			lb/hr	TPY
FUG-NH ₃	Ammonia Fugitives	NH ₃	0.4	1.7
FUG-NG	Natural Gas Fugitives	VOC	0.11	0.5

(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

PM - particulate matter, suspended in the atmosphere, including PM₁₀.

PM₁₀ - particulate matter 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.

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

SO₂ - sulfur dioxide

NH₃ - ammonia

H₂SO₄ - sulfuric acid mist

* The maximum lb/hr NO_x emission rate is based upon a rolling three hour average concentration. The lb/hr NO_x emission rate listed above represents a maximum three hour average pound per hour emission rate.

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

8,760 Hrs/year

* Annual emission rates of duct burners are based on and the facilities are limited by the sum of the heat input to the duct burners of all three cogeneration trains. The sum of the heat input shall not exceed 1,481,400 MMBtu per year.

* Auxiliary Boilers are limited to firing when at least one of the turbines are not in operation.

** NO_x, CO, and PM₁₀ emissions regulated under PSD-TX-953 permit authorization.

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Emission	Source	Air Contaminant	<u>Emission Rates *</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY

NO_x and VOC emissions regulated under N-020 permit authorization.

Dated _____