

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 32263/PSD-TX-866

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	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	
TPY				
CG-1	Turbine/HRSG	NO _x	56.51	247.49
		CO (4)	36.00	105.12
		CO (5)	317.00	319.74
		VOC 5.80	22.25	
		SO ₂	1.25	5.49
		PM ₁₀	9.00	39.42
		NH ₃	21.55	94.40
B-1	Auxiliary Boilers	NO _x	42.47	37.21
	(three auxiliary gas boilers	CO		
	25.85	22.65		
	venting through a common stack)	VOC		5.83
	2.55			
		SO ₂	0.23	0.05
		PM ₁₀	4.67	2.12
F-1	Fugitives (6)	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) VOC - volatile organic compounds as defined in General Rule 101.1

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

CO - carbon monoxide

PM₁₀ - particulate matter less than 10 microns in diameter

NH₃ - ammonia

(4) Maximum allowable CO emission rate at loads greater than 70

percent of the gas turbine's baseload.

(5) Maximum allowable CO emission rate at turndown load (which is 40 to 70 percent of the gas turbine's baseload). The sum of both CO TPY emission rates is the yearly CO TPY limit.

(6) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

* Gas turbine emission rates are based on and the gas turbine is limited by the following maximum operating schedule:

Hrs/day 24 Days/week 7 Hours/year 8,760

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* Auxiliary boilers emission rates are based on and the auxiliary boilers operations are limited by Special Condition No. 5.

* If the Gas Turbine (EPN CG-1) and one of the auxiliary boilers is fired (above 13 MMBtu/Hr) at the same time, then the combined emissions of the Gas Turbine (EPN CG-1), the auxiliary boiler being fired, and the auxiliary boilers not being fired will not exceed the sum of the maximum allowable emissions from EPN CG-1 and B-1 on a lb/hr or ton/year basis.

Dated_____