

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Nos. 19166 and PSD-TX-760M4

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
Turbines, Case I: Turbines Only - No Duct Burner Firing*				
7A	88 MW (ISO) Gas Turbine GE Model PG7111 (EA)	NO _x	102.00	385.44
		CO	58.00	223.38
		VOC	0.90	3.94
		PM and PM ₁₀	5.00	21.90
		SO ₂	0.73	3.20
7B	88 MW (ISO) Gas Turbine GE Model PG7111 (EA)	NO _x	102.00	385.44
		CO	58.00	223.38
		VOC	0.90	3.94
		PM and PM ₁₀	5.00	21.90
		SO ₂	0.73	3.20
7C	88 MW (ISO) Gas Turbine GE Model PG7111 (EA)	NO _x	102.00	385.44
		CO	58.00	223.38
		VOC	0.90	3.94
		PM and PM ₁₀	5.00	21.90
		SO ₂	0.73	3.20
7D	88 MW (ISO) Gas Turbine GE Model PG7111 (EA)	NO _x	115.00	455.52
		CO	57.00	227.76
		VOC	0.90	3.94
		PM and PM ₁₀	5.00	21.90
		SO ₂	0.73	3.20
7E	88 MW (ISO) Gas Turbine GE Model PG7111 (EA)	NO _x	115.00	455.52
		CO	57.00	227.76
		VOC	0.90	3.94

PM and PM ₁₀	5.00	21.90
SO ₂	0.73	3.20

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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>	<u>TPY</u>
Turbines, Case II: Turbines with Duct Burners Firing*				
7A	88 MW (ISO) Gas Turbine	NO _x	119.02	460.00
	GE Model PG7111 (EA)	CO	60.13	232.71
	with	VOC	1.75	7.66
	141.8 MMBtu/hr Duct Burner	PM and PM ₁₀		5.71
	25.01			
7B	Firing Hydrogen, Natural	SO ₂		0.83
	3.64			
	Gas or Process Gas			
	88 MW (ISO) Gas Turbine	NO _x	119.02	460.00
	GE Model PG7111 (EA)	CO	60.13	232.71
7C	with	VOC	1.75	7.66
	141.8 MMBtu/hr Duct Burner	PM and PM ₁₀		5.71
	25.01			
	Firing Hydrogen, Natural	SO ₂		0.83
	3.64			
7D	Gas or Process Gas			
	88 MW (ISO) Gas Turbine	NO _x	132.02	530.07
	GE Model PG7111 (EA)	CO	59.13	237.09
	with	VOC	1.75	7.66
	141.8 MMBtu/hr Duct Burner	PM and PM ₁₀		5.71
	25.01			
	Firing Hydrogen, Natural	SO ₂		0.83
	3.64			
	Gas or Process Gas			

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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>	<u>TPY</u>
7E	88 MW (ISO) Gas Turbine	NO _x	132.02	530.07
	GE Model PG7111 (EA)	CO	59.13	237.09
	with	VOC	1.75	7.66
	141.8 MMBtu/hr Duct Burner	PM and PM ₁₀		5.71
	25.01			
	Firing Hydrogen, Natural	SO ₂		0.83
	3.64			
	Gas or Process Gas			

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
7F	Package Boiler	NO _x	12.50	54.75
		CO	9.25	40.52
		VOC	0.34	1.51
		PM and PM ₁₀	1.25	5.48
		SO ₂	0.10	0.43
CWTP1	Combined Wastewater Treatment Plant	VOC	6.25	27.3

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name.
- (3) VOC -volatile organic compounds as defined in General Rule 101.1
 - NO_x - total oxides of nitrogen
 - SO₂ - sulfur dioxide
 - 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.
 - CO - carbon monoxide
- (4) Maximum hourly emissions based on an ambient temperature of 20°F for Emission Point No. (EPN) 7A through C and 30°F for EPN 7D through E.
- (5) Annual emissions based on 70°F ambient temperature for EPN 7A through E.

* 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 8,760

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>

Dated_____