

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 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	Source	Air Contaminant	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
Case I: Turbines Without Duct Burner Firing				
7A	88 MW (ISO) Gas Turbine GE Model PG7111 (EA) Firing Natural Gas	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) Firing Natural Gas	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) Firing Natural Gas	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) Firing Natural Gas	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) Firing Natural Gas	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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Emission *	Source	Air Contaminant	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	
TPY				

Case II: Turbines With Duct Burner Firing

7A	88 MW (ISO) Gas Turbine GE Model PG7111 (EA) Firing Natural Gas	NO _x	119.02	460.00
		CO	60.13	232.17
		VOC	1.75	7.66
		PM and PM ₁₀	5.71	25.01
		SO ₂	0.83	3.64
7B	88 MW (ISO) Gas Turbine GE Model PG7111 (EA) Firing Natural Gas	NO _x	119.02	460.00
		CO	60.13	232.17
		VOC	1.75	7.66
		PM and PM ₁₀	5.71	25.01
		SO ₂	0.83	3.64
7C	88 MW (ISO) Gas Turbine GE Model PG7111 (EA) Firing Natural Gas	NO _x	119.02	460.00
		CO	60.13	232.17
		VOC	1.75	7.66
		PM and PM ₁₀	5.71	25.01
		SO ₂	0.83	3.64
7D	88 MW (ISO) Gas Turbine GE Model PG7111 (EA) Firing Natural Gas	NO _x	132.02	530.07
		CO	59.13	237.09
		VOC	1.75	7.66
		PM and PM ₁₀	5.71	25.01
		SO ₂	0.83	3.64
7E	88 MW (ISO) Gas Turbine GE Model PG7111 (EA) 237.09 Firing Natural Gas	NO _x	132.02	530.07
		CO	59.13	
		VOC	1.75	7.66
		PM and PM ₁₀	5.71	25.01
		SO ₂	0.83	3.64

7F	Package Boiler	NO _x	12.50	54.75
		CO	9.25	40.52
		VOC	0.34	1.51
		PM	1.25	5.48
		SO ₂	0.10	0.43

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- (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
 - PM₁₀ - particulate matter less than 10 microns
 - CO - carbon monoxide
- (4) Maximum hourly emissions based on an ambient temperature of 20°F for Emission Point No. (EPN) 7A-7C and 30°F for EPN 7D-7E.
- (5) Annual emissions based on 70°F ambient temperature for EPN 7A-7E.

* 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

Dated _____

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Point No. (1) _____ TPY	Name (2)	Name (3)	lb/hr