

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr (4)	TPY
(5)				

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Permit Numbers 19166 and PSD-TX-760M7

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.

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Emission	Source	Air Contaminant	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr (4)	TPY (5)

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

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Emission	Source	Air Contaminant	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr (4)	TPY
(5)				
		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
7G	No. 6 Cogen without duct burners	NO _x	38.00	166.44
		CO	62.00	271.56
		VOC	0.55	2.41
		PM and PM ₁₀	5.00	21.90
		SO ₂	0.62	2.69
Turbines, Case II: Turbines with Duct Burners Firing*				
7A	88 MW (ISO) Gas Turbine GE Model PG7111 (EA) with 141.8 MMBtu/hr Duct Burner Firing Hydrogen, Natural Gas or Process Gas	NO _x	119.02	460.00
		CO	60.13	232.71
		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)	NO _x	119.02	460.00
		CO	60.13	232.71

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr (4)	TPY
(5)				
	with 141.8 MMBtu/hr Duct	VOC	1.75	7.66
	Burner Firing Hydrogen, Natural	PM and PM ₁₀	5.71	25.01
	Gas or Process Gas	SO ₂	0.83	3.64
7C	88 MW (ISO) Gas Turbine	NO _x	119.02	460.00
	GE Model PG7111 (EA)	CO	60.13	232.71
	with 141.8 MMBtu/hr Duct	VOC	1.75	7.66
	Burner Firing Hydrogen, Natural	PM and PM ₁₀	5.71	25.01
	Gas or Process Gas	SO ₂	0.83	3.64
7D	88 MW (ISO) Gas Turbine	NO _x	132.02	530.07
	GE Model PG7111 (EA)	CO	59.13	237.09
	with 141.8 MMBtu/hr Duct	VOC	1.75	7.66
	Burner Firing Hydrogen, Natural	PM and PM ₁₀	5.71	25.01
	Gas or Process Gas	SO ₂	0.83	3.64
7E	88 MW (ISO) Gas Turbine	NO _x	132.02	530.07
	GE Model PG7111 (EA)	CO	59.13	237.09
	with 141.8 MMBtu/hr Duct	VOC	1.75	7.66
	Burner Firing Hydrogen, Natural	PM and PM ₁₀	5.71	25.01
	Gas or Process Gas	SO ₂	0.83	3.64
7F	Package Boiler	NO _x	12.50	54.75
		CO	25.00	109.50
		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

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(EPN) from plot plan.

(2) Specific point 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

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 PM greater than 10 microns is emitted.

CO - carbon monoxide

(4) Maximum hourly emissions based on an ambient temperature of 20°F for 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

Dated September 29, 2005