

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 19166 and PSD-TX-760M3

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
Turbines, Case I: Turbines Only - No Duct Burner Firing*				
7A	88 MW (ISO) Gas Turbine GE Model PG7111 (EA) Firing Natural Gas	NO <sub>x</sub>	102.00	385.44
		CO	58.00	223.38
		VOC	0.90	3.94
		PM and PM <sub>10</sub>	5.00	21.90
		SO <sub>2</sub>	0.73	3.20
7B	88 MW (ISO) Gas Turbine GE Model PG7111 (EA) Firing Natural Gas	NO <sub>x</sub>	102.00	385.44
		CO	58.00	223.38
		VOC	0.90	3.94
		PM and PM <sub>10</sub>	5.00	21.90
		SO <sub>2</sub>	0.73	3.20
7C	88 MW (ISO) Gas Turbine GE Model PG7111 (EA)	NO <sub>x</sub>	102.00	385.44
		CO	58.00	223.38

	Firing Natural Gas	VOC	0.90	3.94
		PM and PM <sub>10</sub>	5.00	21.90
		SO <sub>2</sub>	0.73	3.20
7D	88 MW (ISO) Gas Turbine	NO <sub>x</sub>	115.00	455.52
	GE Model PG7111 (EA)	CO	57.00	227.76
	Firing Process Gas	VOC	0.90	3.94
		PM and PM <sub>10</sub>	5.00	21.90
		SO <sub>2</sub>	0.73	3.20
7E	88 MW (ISO) Gas Turbine	NO <sub>x</sub>	115.00	455.52
	GE Model PG7111 (EA)	CO	57.00	227.76
	Firing Process Gas	VOC	0.90	3.94
		PM and PM <sub>10</sub>	5.00	21.90
		SO <sub>2</sub>	0.73	3.20

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TABLE

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
Turbines, Case II: Turbines with Duct Burners Firing*				
7A	88 MW (ISO) Gas Turbine	NO <sub>x</sub>	119.02	460.00
	GE Model PG7111 (EA)	CO	60.13	232.71
	Firing Natural Gas with	VOC	1.75	7.66
	141.8 MMBtu/hr Duct Burner	PM and PM <sub>10</sub>	5.71	25.01
	Firing Hydrogen, Natural Gas or Process Gas	SO <sub>2</sub>	0.83	3.64
7B	88 MW (ISO) Gas Turbine	NO <sub>x</sub>	119.02	460.00
	GE Model PG7111 (EA)	CO	60.13	232.71
	Firing Natural Gas with	VOC	1.75	7.66
	141.8 MMBtu/hr Duct Burner	PM and PM <sub>10</sub>	5.71	25.01
	Firing Hydrogen, Natural Gas or Process Gas	SO <sub>2</sub>	0.83	3.64
7C	88 MW (ISO) Gas Turbine	NO <sub>x</sub>	119.02	460.00
	GE Model PG7111 (EA)	CO	60.13	232.71
	Firing Natural Gas with	VOC	1.75	7.66
	141.8 MMBtu/hr Duct Burner	PM and PM <sub>10</sub>	5.71	25.01
	Firing Hydrogen, Natural Gas or Process Gas	SO <sub>2</sub>	0.83	3.64
7D	88 MW (ISO) Gas Turbine	NO <sub>x</sub>	132.02	530.07
	GE Model PG7111 (EA)	CO	59.13	237.09
	Firing Process Gas with	VOC	1.75	7.66
	141.8 MMBtu/hr Duct Burner	PM and PM <sub>10</sub>	5.71	25.01
	Firing Hydrogen, Natural	SO <sub>2</sub>	0.83	3.64

Gas or Process Gas

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

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES TABLE

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3)	<u>lb/hr</u>	<u>TPY</u>
Boiler**				
7F		NO <sub>x</sub>	12.50	16.11
		CO	9.25	11.92
		VOC	0.42	0.54
		PM and PM <sub>10</sub>	1.25	1.61
		SO <sub>2</sub>	0.19	0.24

- (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<sub>x</sub> - total oxides of nitrogen
  - SO<sub>2</sub> - sulfur dioxide
  - PM - particulate matter
  - PM<sub>10</sub> - particulate matter less than 10 microns
  - CO - carbon monoxide
- (4) Maximum hourly emissions based on an ambient temperature of 20°F for Emission Point Number (EPN) 7A-7C and 30°F for EPN 7D-7E.

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION  
RATES

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

(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

\*\* Emission rates are based on and the facilities are limited by the following maximum operating schedule: Hrs/year 2,578

Dated\_\_\_\_\_