

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 19637/PSD-TX-767M2

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)	<u>Emission Rates *</u>	
			lb/hr(4)	TPY(5)

#### **Case I: Turbine and Duct Burner Firing Simultaneously**

CG-1	18 MW (ISO) Westinghouse Model 191 Gas Turbine with 183 MMBtu/hr Fired Duct Burner	NO <sub>x</sub>	41.4	181
		CO	38.0	166
		VOC	3.7	16
		PM	7.5	24
		SO <sub>2</sub>	4.6	20
CG-2	18 MW (ISO) Westinghouse Model 191 Gas Turbine with 183 MMBtu/hr Fired Duct Burner	NO <sub>x</sub>	41.4	181
		CO	38.0	166
		VOC	3.7	16
		PM	7.5	24
		SO <sub>2</sub>	4.6	20
CG-3	Fugitive VOC (6)	VOC	0.4	2

\* 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

#### **Case II: Duct Burner Firing Only**

CG-1	375 MMBtu/hr (HHV) Duct Burner	NO <sub>x</sub>	56.2	19
		CO	37.5	13
		VOC	6.0	2
		PM	12.5	3
		SO <sub>2</sub>	8.8	3
CG-2	375 MMBtu/hr (HHV) Duct Burner	NO <sub>x</sub>	56.2	19
		CO	37.5	13
		VOC	6.0	2
		PM	12.5	3
		SO <sub>2</sub>	8.8	3

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CG-3	Fugitive VOC (6)	VOC	0.4	<1
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\* Emission rates are based on and the duct burners in stand alone mode are limited by the following maximum operating schedule:

Hrs/day\_\_\_\_Days/week\_\_\_\_Weeks/year\_\_\_\_or Hrs/year 672

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

**Case III: Turbine Only Firing**

CG-1	18 MW (ISO)	NO <sub>x</sub>	23.1	101
	Westinghouse Model	CO	23.4	102
	191 Gas Turbine	VOC	0.8	4
		PM	1.5	7
		SO <sub>2</sub>	0.2	<1
CG-2	18 MW (ISO)	NO <sub>x</sub>	23.1	101
	Westinghouse Model	CO	23.4	102
	191 Gas Turbine	VOC	0.8	4
		PM	1.5	7
		SO <sub>2</sub>	0.2	<1
CG-3	Fugitive VOC (6)	VOC	0.4	2

\* 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

Compliance with the annual emission limits and operating schedules is based on a rolling 365 day year rather than the calendar year.

- (1) Emission point identification - emission point number from plot plan.
- (2) Specific point source name.  
 ISO - Rated electric output at International Standards Organization (ISO) standard day conditions of 59°F, 1 atmosphere, and 60 percent relative humidity.  
 HHV - high heating value
- (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  
 CO - carbon monoxide

- (4) Turbine maximum hourly emissions based on minimum ambient temperature.
- (5) Turbine annual emissions based on base load at average annual ambient temperature of 68°F.
- (6) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

Dated\_\_\_\_\_

