Permit Numbers 19637 and 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	Source	Air Contaminant	Emission F	Rates *
Point No. (EPN) (1)	Name (2)	Name (3)	lb/hr (4)	TPY (5)
Case I: Turbine and	Duct Burner Firing Simultaned	ously		
CG-1	18 MW (ISO) Westinghouse	NO_x	41.4	181
	Model 191 Gas Turbine	CO	38.0	166
	with 183 MMBtu/hr Fired	VOC	3.7	16
	Duct Burner	PM	7.5	24
		SO ₂	4.6	20
CG-2	18 MW (ISO) Westinghouse	NO _x	41.4	181
	Model 191 Gas Turbine	CO	38.0	166
	with 183 MMBtu/hr Fired	VOC	3.7	16
	Duct Burner	PM	7.5	24
		SO_2	4.6	20
CG-3	Fugitive VOC (6)	VOC	0.4	2

^{*} Emission rates are based on and the facilities are limited by a maximum operating schedule of 8,760 hours per year.

Case II: Duct Burner Firing Only

CG-1	375 MMBtu/hr (HHV)	NO_x	56.2	38
	Duct Burner `	CO	37.5	26
		VOC	6.0	4
		PM	12.5	6
		SO_2	8.8	6

AIR CONTAMINANTS DATA

	Source	Air Contaminant	Emission F	Rates *
EPN (1)	Name (2)	Name (3)	lb/hr (4)	TPY (5)
CG-2	275 MMPtu/br (UU\/)	NO_x	56.2	38
CG-2	375 MMBtu/hr (HHV) Duct Burner	CO	37.5	36 26
	Dast Danie.	VOC	6.0	4
		PM	12.5	6
		SO_2	8.8	6

Total emissions from the combined operation of both Duct Burners (EPNs CG-1 and CG-2) in stand alone mode are as follows:

	Two 375 MMBtu/hr (HHV)	NO_x		38
	Duct Burners	CO		26
		VOC		4
		PM		6
		SO ₂		6
CG-3	Fugitive VOC (6)	VOC	0.4	<1

^{*} Emission rates are based on, and limited by, the duct burners in stand alone mode and a maximum operating schedule of 1,344 hours per year for both units combined.

Case III: Turbine Only Firing

CG-1	18 MW (ISO) Westinghouse Model 191 Gas Turbine	NO_x CO VOC PM SO_2	23.1 23.4 0.8 1.5 0.2	101 102 4 7 <1
CG-2	18 MW (ISO) Westinghouse Model 191 Gas Turbine	NO _x CO VOC PM SO ₂	23.1 23.4 0.8 1.5 0.2	101 102 4 7 <1
CG-3	Fugitive VOC (6)	VOC	0.4	2

AIR CONTAMINANTS DATA

	Source	Air Contaminant	Emission F	Rates *
EPN (1)	Name (2)	Name (3)	lb/hr (4)	TPY (5)

^{*} Emission rates are based on, and limited by, the turbines in stand alone mode and a maximum operating schedule of 8,760 hours per year.

Compliance with the annual emission limits and operating schedules is based on a rolling 12-month year rather than the calendar year.

AIR CONTAMI NANTS DATA

EPN (1)	Source Name (2)	Air	Contaminant Name (3)	Emission F lb/hr (4)	Rates * TPY (5)
Boilers - Firing Refir	nery Fuel Gas:				
81BF5601	No. 1 Package Boiler (235.7 MMBtu/hr)	VOC PM SO _x NH ₃	NO _x CO 1.18 1.63 5.86 1.07	2.62 8.88	
81BF5602	No. 2 Package Boiler (235.7 MMBtu/hr)	VOC PM SO _x NH ₃	NO _x CO 1.18 1.63 5.86 1.07	2.62 8.88	

AIR CONTAMINANTS DATA

	Source	Air	Contaminant	Emission R	
EPN (1)	Name (2)		Name (3)	lb/hr (7)	TPY (8)
81BF5603	No. 3 Package Boiler		NO _x	2.62	
	(235.7 MMBtu/hr)	VOC PM SO _x NH ₃	CO 1.18 1.63 5.86 1.07	8.88	
81BF5601, 81BF5602, and 81BF5603	Package Boilers (Nos. 1, 2, and 3)	PM SO _x NH ₃	NO _x CO VOC 21.4 40.5 14.1		34.5 116.7 15.6
81 FUG	81FUG		NH₃ VOC	0.01 1.0	0.04 4.0

- (1) Emission point identification emission point number from plot plan.
- (2) Specific point source name.

ISO - Rated electric output at International Standards Organization 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 Title 30Texas Administrative Code § 101.1

 NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

PM - particulate matter suspended in the atmosphere, including PM₁₀.

 PM_{10} - 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

NH₃ - Ammonia

- (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.

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

- (6) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (7) Hourly rates are based on maximum firing rate and a maximum operating schedule of 8,760 hours.
- (8) Compliance with annual emission limits is based on a rolling 12-month period.

Dated May 13, 2004
