EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 22038/PSD-TX-815

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) Name (3)		Air Contaminant lb/hr TPY		<u>Emiss</u>	Emission Rates *	
	BINE WITH DUC GE FRAI	F BURNER FIRME 7 E (75 MW) BTU/HR		NO _x CO SO ₂ PM ₁₀ VOC SO ₃	89.8 85.5 7.9 12.3 5.2	367.0 343.8 19.5 53.9 21.8	
CG2	GE FRAI TURBINE 265 MME DUCT BU	E (75 MW) BTU/HR		NO_x CO SO_2 PM_{10} VOC SO_3	89.8 85.5 7.9 12.3 5.2	367.0 343.8 19.5 53.9 21.8	
FECG	Fugitives	(4)		VOC	.33	1.45	
CASE II: TURBINE ONLY - DUCT BURNER UI CG1 GE FRAME 7 TURBINE (75 MW) 265 MMBTU/HR DUCT BURNER		NFIRED	NO_x CO SO_2 PM_{10} VOC SO_3	58.0 59.0 .7 7.0 2.0	227.8 227.8 2.8 30.7 7.9 .10		
CG2	GE FRAI TURBINE 265 MME DUCT BU	E (75 MW) BTU/HR		NO _x CO SO ₂ PM ₁₀ VOC	58.0 59.0 .7 7.0 2.0	227.8 227.8 2.8 30.7 7.9	

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SO₃ .03

- (1) Emission point identification either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources use area name or fugitive source name.
- (3) PM_{10} particulate matter less than 10 microns
 - VOC volatile organic compounds as defined in General Rule 101.1
 - NO_x total oxides of nitrogen
 - SO₂ sulfur dioxide
 - CO carbon monoxide
 - SO₃ sulfur trioxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Maximum hourly emission based on 20°F ambient temperature.
- (6) Annual emissions based on 70°F ambient temperature with duct burners in operation.
- * SO_2 lb/hr emission rates are based on 100% conversion of .25 grains of hydrogen sulfide (H_2S) per 100 dry standard cubic feet in the refinery fuel gas to SO_2 . SO_2 tpy emission rates are based on 100% conversion of 10 grains of hydrogen sulfide (H_2S) per 100 dry standard cubic feet in the refinery fuel gas to SO_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