EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 20459/PSD-TX-789M1

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>Emiss</u>	sion Rates * lb/hr				
<u>TPY</u>								
Case I: Turbine Only Firing With Unfired Heat Recovery Unit								
20 (CHRU-T1)	Solar T-4500 Gas Turbine	CO NO_x SO_2 PM_{10} VOC	19.7 12.0 0.08 0.25 0.10	31 32 0.33 1.1 0.44				
21 (CHRU-T2)	Solar T-4500 Gas Turbine	CO NO_x SO_2 PM_{10} VOC	19.7 12.0 0.08 0.25 0.10	31 32 0.33 1.1 0.44				
22 (CHRU-T3)	Solar T-4500 Gas Turbine	CO NO_x SO_2 PM_{10} VOC	19.7 12.0 0.08 0.25 0.10	31 32 0.33 1.1 0.44				
20, 21, 22	Combined Gas Turbine Emission	ns CO NO_x SO_2 PM_{10} VOC		93.0 96.0 1.0 3.3 1.32				
Case II: Turbine and Duct Burner Firing With Unfired Heat Recovery Unit								
20 (CHRU-T1)	Solar T-4500 Gas Turbine	CO NO_x SO_2 PM_{10}	20.07 12.66 0.09 .40	32.62 34.88 0.40 1.76				

		VOC	.16	.70
21 (CHRU-T1)	Solar T-4500 Gas Turbine	СО	20.07	32.62
		NO_x	12.66	34.88
		SO_2	0.09	0.40
		PM_{10}	.40	1.76
		VOC	.16	.70

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AIR CONTAMINANTS DATA

Emission Point No. (1) TPY	Source Name (2)	Air Contaminant Name (3)	Emiss	sion Rates * lb/hr
22 (CHRU-T1)	Solar T-4500 Gas Turbine	СО	20.07	32.62
		NO _x SO ₂	12.66 0.09	34.88 0.40
		PM ₁₀ VOC	.40 .16	1.76 .70
20, 21, 22	Combined Gas Turbine and Duct Burner Emissions	CO NO _x SO ₂ PM ₁₀ VOC		97.9 104.6 1.20 5.28 2.10
F18 (F-COGEN)	Fugitive (4)	VOC	0.04	0.17

- (1) Emission point identification emission point number from plot plan.
- (2) Specific point source name. For fugitive sources use area name or fugitive source name.
- (3) VOC volatile organic compounds as defined in General Rule 101.1
 - NO_x total oxides of nitrogen
 - SO₂ sulfur dioxide
 - PM₁₀ particulate matter less than 10 microns in aerodynamic diameter
 - CO carbon monoxide
- (4) Turbine hourly emissions based on minimum ambient temperature.
- (5) Turbine annual emissions based on full load at 60°F (approximate average annual ambient temperature).
 - * Emission rates are based on and the facilities are limited by the following maximum operating schedule: