Permit Numbers 19930, PSD-TX-797M1, and PSD-TX-790

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.

Emission	Source	Air Contaminant	<u>Emissio</u>	Emission Rates *		
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY **		
AV5	Online Analyzer	VOC	0.11	0.43		
AV6	Online Analyzer	VOC	0.01	0.03		
LO-1	Loading Operations	VOC	10.07	21.96		
Case I: Turbine Only Firing Cogen II Unit						
20	Solar T-4500 Gas Turbine	CO NO_x (5) PM_{10} SO_2 VOC	19.70 12.00 0.30 0.70 0.10	24.88 32.19 1.23 0.28 0.44		
21	Solar T-4500 Gas Turbine	CO NO_x (5) PM_{10} SO_2 VOC	19.70 12.00 0.30 0.70 0.10	24.88 32.19 1.23 0.28 0.44		
22	Solar T-4500 Gas Turbine	CO NO_x (5) PM_{10} SO_2 VOC	19.70 12.00 0.30 0.70 0.10	24.88 32.19 1.23 0.28 0.44		

Emission	Source	Air Contaminant	Emissio	Emission Rates *		
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY **		
Case II: Turbine and Heat Recovery Unit Firing Cogen II Unit						
20	Solar T-4500 Gas Turbine	CO NO _x (5) PM ₁₀ SO ₂ VOC	20.07 12.66 0.45 0.81 0.16	26.50 35.08 1.89 0.33 0.70		
21	Solar T-4500 Gas Turbine	CO NO _x (5) PM ₁₀ SO ₂ VOC	20.07 12.66 0.45 0.81 0.16	26.50 35.08 1.89 0.33 0.70		
22	Solar T-4500 Gas Turbine	CO NO_x (5) PM_{10} SO_2 VOC	20.07 12.66 0.45 0.81 0.16	26.50 35.08 1.89 0.33 0.70		
Case I: Turbines Only Firing Natural Gas DIB 900 Unit						
23	42.1 million Btu/hr at 30°F T-4500 Solar Centaur Turbii 90.30	CO ne (7)	48.90 NO _x (6)	74.70 33.00		
		PM ₁₀ 0.84 SO ₂ VOC	3.66 1.92 0.90	0.84 3.93		
24	42.1 million Btu/hr at 30°F T-4500 Solar Centaur Turbii 90.30	,	48.90 NO _x (6)	74.70 33.00		
	P	PM ₁₀ 0.84 SO ₂ VOC	3.66 1.92 0.90	0.84 3.93		

Emission	Source	Air Contaminant	<u>Emissior</u>	Emission Rates *			
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY **			
25	42.1 million Btu/hr at 30°F T-4500 Solar Centaur Turbi 90.30	T-4500 Solar Centaur Turbine (7)		74.70 33.00			
	F	PM ₁₀ 0.84 SO ₂ VOC	3.66 1.92 0.90	0.84 3.93			
Case II: Turbines Firing Natural Gas, Fired Waste Heat Recovery Unit Burners Firing Isomerization Off-gas, Natural Gas and/or Merox Off-gas DIB 900 Unit							
23	42.1 million Btu/hr at 30°F T-4500 Solar Centaur Turbi		53.13 0.06	93.21 0.24			

23	42.1 million Btu/hr at 30°F	CO	53.13	93.21
	T-4500 Solar Centaur Turbine	HCI	0.06	0.24
	and 84.5 million Btu/hr HRU (7)	$NO_x(6)$	43.14	134.70
		PM_{10}	2.52	11.07
	SO ₂	10.65	34.08	
		VOC	2.76	12.09
24	42.1 million Btu/hr at 30°F	СО	53.13	93.21
	T-4500 Solar Centaur Turbine	HCI	0.06	0.24
	and 84.5 million Btu/hr HRU (7)	$NO_x(6)$	43.14	134.70
	()	PM_{10}	2.52	11.07
	SO_2	10.65	34.08	
		VOC	2.76	12.09
25	42.1 million Btu/hr at 30°F	СО	53.13	93.21
	T-4500 Solar Centaur Turbine	HCI	0.06	0.24
	and 84.5 million Btu/hr HRU (7)	$NO_x(6)$	43.14	134.70
	()	PM_{10}	2.52	11.07
	SO_2	10.65	34.08	
		VOC	2.76	12.09
F9	West Terminal Process Fugitives 1.65	(4)	VOC	0.38
F-13	North Storage Process Fugitives (2.86	(4)	VOC	0.65

Emission Source Air Contamina		Air Contaminant	<u>Emissior</u>	ission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY **	
F18	Cogen II Process Fugitives ((4) VOC	0.04	0.17	
F-19	900 Heat Pump Area Process Fugitives (4)	VOC	0.21	0.92	
F-20	800 Butamer Reactor Area Process Fugitives (4)	VOC	0.24	1.04	
F-23	700 Deisobutanizer Area Process Fugitives (4)	VOC	0.18	0.80	
F-25	Merox Unit Area Process Fugitives (4)	VOC	0.19	0.84	
F-26	CSP Unit Area Process Fugitives (4)	VOC	0.03	0.13	
F-27	Defluorinator Unit Area Process Fugitives (4)	VOC	0.04	0.18	

- (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) CO carbon monoxide
 - HCI hydrogen chloride
 - NO_x total oxides of nitrogen
 - PM₁₀ particulate matter less than 10 microns in diameter
 - SO₂ sulfur dioxide
 - VOC volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) PSD-TX-789M1 pollutant
- (6) PSD-TX-790 pollutant
- (7) Maximum emissions occurring from one stack. Maximum emissions can not occur from all three

AIR CONTAMINANTS DATA

Dated <u>April 5, 2006</u>

Emission		Source	Air Contaminant	Emission Rates *		
Point No. (1) Nam		Name (2)	ame (2) Name (3)		TPY **	
	stacks at the same	e time.				
*	* Emission rates are based on and the facilities are limited by the following maximum operating schedule:					
	24 Hrs/day <u>7</u>	Days/week <u>52</u> Weeks/yea	r			
**	Compliance with a	annual emission limits is base	ed on a rolling 12-month perio	od.		