Permit Numbers 19930, PSDTX797M1, and PSDTX790

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, sources, and related activities. 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.	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
(1)			lbs/hour	TPY (4)
AV5	Online Analyzer	voc	0.11	0.43
AV6	Online Analyzer	voc	0.01	0.03
LO-1	Loading Operations	voc	3.24	9.04
F9	West Terminal Process Fugitives (5)	voc	0.65	2.83
F-13	North Storage Process Fugitives (5)	VOC	1.86	8.14
F18	Cogen II Process Fugitives (5)	voc	0.10	0.46
F-19	900 Heat Pump Area Process Fugitives (5)	voc	0.21	0.92
F-20	800 Butamer Reactor Area Process Fugitives (5)	VOC	0.29	1.25
F-23	700 Deisobutanizer Area Process Fugitives (5)	VOC	0.18	0.80
F-25	Merox Unit Area Process Fugitives (5)	VOC	0.26	1.12
F-26	CSP Unit Area Process Fugitives (5)	voc	0.07	0.29
F-27	Defluorinator Unit Area Process Fugitives (5)	VOC	0.05	0.20
Case I: Cogen II Turbi	nes Only, Firing Natura	al Gas (Pre-upgrade)		

	1	T	1	1
20	Cogen II Unit Solar T- 4500 Gas Turbine	NO _x (7)	12.00	32.19
	1000 040 14150	со	19.70	24.88
		voc	0.10	0.44
		PM ₁₀	0.30	1.23
		SO ₂	0.70	0.28
21	Cogen II Unit Solar T- 4500 Gas Turbine	NO _x (7)	12.00	32.19
	4500 Gas Turbine	со	19.70	24.88
		VOC	0.10	0.44
		PM ₁₀	0.30	1.23
		SO ₂	0.70	0.28
22	Cogen II Unit Solar T- 4500 Gas Turbine	NO _x (7)	12.00	32.19
	4300 Gas Turbine	со	19.70	24.88
		voc	0.10	0.44
		PM ₁₀	0.30	1.23
	SO ₂	0.70	0.28	
		s, and Fired Duct Burner and F rized (6) (Pre-upgrade prior to		
20/21/22	Cogen II Unit Solar T- 4500 Gas Turbines	со	60.21	79.46
	(EPNs 20, 21, and 22),	NO _x (7)	37.98	105.24
	Duct Burner,	PM ₁₀	1.47	5.95
	and	SO ₂	2.51	1.00
	Heat Recovery Unit	VOC	0.68	2.10
		HCI (9)	0.18	0.24
Coco II. Cogon II Ti	l .	-1 C (D+	1	1
Case i. Cogen ii ii	urbines Only, Firing Natura	al Gas (Post-upgrade)		
20	Solar Centaur 40- 4700S	NO _x	4.78	18.66

Ī			1
	VOC	0.17	0.39
	PM	0.34	1.34
	PM ₁₀	0.34	1.34
	PM _{2.5}	0.34	1.34
	SO ₂	0.73	0.28
Solar Centaur 40-	NO _x	4.78	18.66
47000	со	5.82	22.73
	VOC	0.17	0.39
	РМ	0.34	1.34
	PM ₁₀	0.34	1.34
	PM _{2.5}	0.34	1.34
	SO ₂	0.73	0.28
Solar Centaur 40-	NO _x	4.78	18.66
47003	со	5.82	22.73
	VOC	0.17	0.39
	PM	0.34	1.34
	PM ₁₀	0.34	1.34
	PM _{2.5}	0.34	1.34
	SO ₂	0.73	0.28
rbines Firing Natural Ga dditional Fuels as Autho	s, and Fired Duct Burner and F orized (6) (Post-upgrade after a	leat Recovery Unit (I Il three turbines are r	HRU) Firing replaced)
Solar Centaur 40- 4700S (EPNs 20	NO _x (7)	16.32	64.64
21, and 22),	со	18.56	73.01
	VOC	0.68	1.95
Heat Recovery Unit	PM	1.47	5.95
	PM ₁₀	1.47	5.95
	Solar Centaur 40-4700S Solar Centaur 40-4700S Solar Centaur 40-4700S (EPNs 20, 21, and 22), Duct Burner, and	PM	PM

		PM _{2.5}	1.47	5.95
		SO ₂	2.51	1.00
	HCI (9)	0.18	0.24	
Case I: DIB 900 Tui	rbines Only, Firing Natura	al Gas	1	
23	DIB 900 Unit 42.1 million Btu/hr	со	48.90	74.70
	T-4500 Solar Centaur Turbine	NO _x (8)	33.00	90.30
	Centaur ruibine	PM ₁₀	0.84	3.66
		PM _{2.5}	0.84	3.66
		SO ₂	1.92	0.84
		VOC	0.90	3.93
24	DIB 900 Unit 42.1 million Btu/hr	со	48.90	74.70
	T-4500 Solar Centaur Turbine	NO _x (8)	33.00	90.30
	Centaur Furbine	PM ₁₀	0.84	3.66
		PM _{2.5}	0.84	3.66
		SO ₂	1.92	0.84
		voc	0.90	3.93
25	DIB 900 Unit 42.1 million Btu/hr	со	48.90	74.70
	T-4500 Solar Centaur Turbine	NO _x (8)	33.00	90.30
Osmaai Ta	Centaur ruibine	PM ₁₀	0.84	3.66
		PM _{2.5}	0.84	3.66
		SO ₂	1.92	0.84
		voc	0.90	3.93
Case II: DIB 900 Tu Authorized (6)	ırbines Firing Natural Gas	s, and Fired HRU Firing Nat	ural Gas and/or Add	itional Fuels as
23/24/25	DIB 900 42.1 million Btu/hr T-4500 Solar	СО	159.51	93.21
Centaur Turbines (EPNs 23, 24 and	NO _x (8)	129.42	134.70	

PM ₁₀	7.56	11.07
PM _{2.5}	7.56	11.07
SO ₂	31.95	34.08
voc	8.28	12.09
HCI (9)	0.18	0.24

- (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) VOC volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - NO_x total oxides of nitrogen
 - SO₂ sulfur dioxide
 - PM total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
 - PM₁₀ total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
 - PM_{2.5} particulate matter equal to or less than 2.5 microns in diameter
 - CO carbon monoxide HCl - hydrogen chloride
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Emissions from the turbines and each fired HRU comingle when passed through the unfired HRU. Hourly and annual emission rates are based on the turbines running simultaneously at maximum capacity.
- (7) PSDTX789M1 pollutant.
- (8) PSDTX790 pollutant.
- (9) Total hourly HCl emissions from the Cogen II and DIB 900 Units may not exceed 0.18 lbs/hour. Total annual HCl emissions from the Cogen II and DIB 900 Units may not exceed 0.24 TPY.

Date:	April 29, 2013	
Date.	April 23, 2013	