Permit Numbers 19930, PSDTX797M1, PSDTX790, and N174

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

Source Name (2)	Air Contaminant Name (3)	Emission Rates	
		lbs/hour	TPY (4)
Online Analyzer	VOC	0.11	0.43
Online Analyzer	VOC	0.01	0.03
Loading Operations	voc	3.24	9.04
West Terminal Process Fugitives (5)	voc	0.65	2.83
PDH Process Fugitives (5)(10)	VOC	0.07	0.31
North Storage Process Fugitives (5)	VOC	1.86	8.14
Cogen II Process Fugitives (5)	VOC	0.10	0.46
900 Heat Pump Area Process Fugitives (5)	VOC	0.21	0.92
800 Butamer Reactor Area Process Fugitives (5)	voc	0.29	1.25
700 Deisobutanizer Area Process Fugitives (5)	voc	0.18	0.80
Merox Unit Area Process Fugitives (5)	VOC	0.26	1.12
CSP Unit Area Process Fugitives (5)	VOC	0.07	0.29
Defluorinator Unit Area Process Fugitives (5)	voc	0.05	0.20
n II Turbines Only, Firing Natural Gas (Pre-	upgrade)		
Cogen II Unit Solar T-4500 Gas Turbine	NO _x (7)	12.00	32.19
	СО	19.70	24.88
	VOC	0.10	0.44
	PM ₁₀	0.30	1.23
	SO ₂	0.70	0.28
Cogen II Unit Solar T-4500 Gas Turbine	NO _x (7)	12.00	32.19
	СО	19.70	24.88
	VOC	0.10	0.44
	Online Analyzer Online Analyzer Loading Operations West Terminal Process Fugitives (5) PDH Process Fugitives (5)(10) North Storage Process Fugitives (5) Cogen II Process Fugitives (5) 900 Heat Pump Area Process Fugitives (5) 800 Butamer Reactor Area Process Fugitives (5) 700 Deisobutanizer Area Process Fugitives (5) Merox Unit Area Process Fugitives (5) CSP Unit Area Process Fugitives (5) Defluorinator Unit Area Process Fugitives (5) n II Turbines Only, Firing Natural Gas (Pre-I	Online Analyzer Online Analyzer VOC Uoc Loading Operations Voc West Terminal Process Fugitives (5) PDH Process Fugitives (5)(10) North Storage Process Fugitives (5) Cogen II Process Fugitives (5) VOC 900 Heat Pump Area Process Fugitives (5) 800 Butamer Reactor Area Process Fugitives (5) 700 Deisobutanizer Area Process Fugitives (5) Merox Unit Area Process Fugitives (5) Defluorinator Unit Area Process Fugitives (5) II Turbines Only, Firing Natural Gas (Pre-upgrade) Cogen II Unit Solar T-4500 Gas Turbine NOx (7) CO Cogen II Unit Solar T-4500 Gas Turbine Cogen II Unit Solar T-4500 Gas Turbine NOx (7) CO Cogen II Unit Solar T-4500 Gas Turbine	Source Name (2) Air Contaminant Name (3) Emission Ibs/hour Online Analyzer VOC 0.11 Online Analyzer VOC 0.01 Loading Operations VOC 3.24 West Terminal Process Fugitives (5) VOC 0.65 PDH Process Fugitives (5)(10) VOC 0.07 North Storage Process Fugitives (5) VOC 0.10 Cogen II Process Fugitives (5) VOC 0.10 900 Heat Pump Area Process Fugitives (5) VOC 0.21 800 Butamer Reactor Area Process Fugitives (5) VOC 0.29 700 Deisobutanizer Area Process Fugitives (5) VOC 0.18 Merox Unit Area Process Fugitives (5) VOC 0.26 CSP Unit Area Process Fugitives (5) VOC 0.07 Defluorinator Unit Area Process Fugitives (5) VOC 0.05 Il Turbines Only, Firing Natural Gas (Pre-upgrade) VOC 0.10 Cogen II Unit Solar T-4500 Gas Turbine NO _x (7) 12.00 PM ₁₀ 0.30 50 ₂ 0.70 Cogen II Unit Solar T-4500 Gas Turbine NO _x (

	f.	DN4	0.00	1.00
		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
		СО	19.70	24.88
		VOC	0.10	0.44
		PM ₁₀	0.30	1.23
		SO ₂	0.70	0.28
	ogen II Turbines Firing Natural Gas, and Fired s and/or Additional Fuels as Authorized (6) (P			
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
Case I: Co	gen II Turbines Only, Firing Natural Gas (Pos	st-upgrade)		
20	Solar Centaur 40-4700S	NO _x	4.78	18.66
		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
21	Solar Centaur 40-4700S	NO _x	4.78	18.66
		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
22	Solar Centaur 40-4700S	NO _x	4.78	18.66
		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
	gen II Turbines Firing Natural Gas, and Fired and/or Additional Fuels as Authorized (6) (Po			
20/21/22	Solar Centaur 40-4700S (EPNs 20, 21, and 22),	NO _x (7)	16.32	64.64
		СО	18.56	73.01
	Duct Burner,	VOC	0.68	1.95
	and	PM	1.47	5.95
	Heat Recovery Unit	PM ₁₀	1.47	5.95
		PM _{2.5}	1.47	5.95
		SO ₂	2.51	1.00
		HCI (9)	0.18	0.24
Case I: DIB	900 Turbines Only, Firing Natural Gas			•
23	DIB 900 Unit 42.1 million Btu/hr T-4500 Solar Centaur Turbine	СО	48.90	74.70
		NO _x (8)	33.00	90.30
		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 T-4500 Solar Centaur Turbine	СО	48.90	74.70
		NO _x (8)	33.00	90.30
		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	СО	48.90	74.70
	42.1 million Btu/hr T-4500 Solar Centaur Turbine	NO _x (8)	33.00	90.30
		PM ₁₀	0.84	3.66
		PM _{2.5}	0.84	3.66
		SO ₂	1.92	0.84
		VOC	0.90	3.93
	l	1	1	1

Case II: DIB 900 Turbines Firing Natural Gas, and Fired HRU Firing Natural Gas and/or Additional Fuels as Authorized (6)				
23/24/25	DIB 900 42.1 million Btu/hr T-4500 Solar Centaur Turbines (EPNs 23, 24 and 25), and Fired Heat Recovery Unit	СО	159.51	93.21
		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 HCI - 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.
- (10) Fugitive components represented by this EPN are subject to 28LAER.

Date:	January 11, 2019	
Daic.	January 11, 2013	