

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSION LIMITATIONS

Permit Number 36845

This table lists the emission caps, individual emission limitations, 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)	Emission Rates *	
			lb/hr	TPY**
02CHRGHTR	Crude A Heater			
02CHRGHTR	Crude B Heater			
02CHRGDHTR	Crude D Heater			
02BGVCMHTR	Big Vacuum Heater			
09CHRGHTR	LDH Charge Heater			
23AC-1HTR	PDA Asphalt Heater			
23GSOIHTR	PDA Gas Oil Heater			
23KTTLEHTR	PDA Tea Kettle Superheater			
15CHRGHTR	Gas Hydrotreater Charge Heater			
26C8WSTHTR	C-8 Column West Heater			
26C8ESTHTR	C-8 Column East Heater			
Emission Caps		PM	4.08	16.79
		VOC	2.03	8.11
		NO _x	22.29	90.93
		CO	19.58	80.76
		SO ₂	12.64	15.00

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			<u>lb/hr</u>	<u>TPY**</u>
02CTR14FUG	Crude Cooling Tower	VOC	0.31	1.34
		PM 0.01	0.04	
06CTR3FUG	FCCU Cooling Tower No. 3	VOC	0.36	1.56
		PM 0.01	0.04	
80CTR13FUG	DHT Cooling Tower	VOC	0.15	0.66
		PM 0.01	0.02	
37CRUDECAP	Tank Nos. 1011 Tank No. TP05	VOC (5)	5.18 4.24	7.91
37TANK0351	Tank No. 351	VOC	2.55	3.31
37TANK0350	Tank No. 350	VOC	5.71	7.86
37TANK0353	Tank No. 353	VOC	2.07	6.50
37GRACECAP	Tank No. 2044 Tank No. 2045	VOC (5)	3.32 3.32	1.38
37MDISTCAP	Tank No. 156 Tank No. 109 Tank No. 126 Tank No. 322 Tank No. 327 Tank No. 3132	VOC (5)	2.79 2.09 10.16 8.72 8.72 10.16	11.33
37HVDISTCAP	Tank No. 178 Tank No. 181 Tank No. 182 Tank No. 180	VOC (5)	0.45 0.45 0.45 0.45	0.85
37 TANK0183	Tank No. 183	VOC	6.64	12.64

37TANK0130	Tank No.130	VOC	0.10	0.09
37TANK2002	Tank No. 2002	VOC	11.75	22.38
37LTDISTCAP	Tank No. 123	VOC (5)	2.44	81.28
	Tank No. 128		11.23	
	Tank No. 122		1.72	
	Tank No. 125		6.40	
	Tank No. 184		26.07	
	Tank No. 185		6.60	
	Tank No. 3131		3.72	
02CRUDEFUG	Crude Complex Fugitives (4)	VOC	8.65	37.93
	H ₂ S	0.02	0.06	
10FGTFUG	Fuel Gas Treater Fugitives (4)	VOC	0.98	4.29
	H ₂ S	0.07	0.30	
09LDHFUG	LDH Fugitives (4)	VOC	0.56	2.45
		H ₂ S	0.04	0.19
23PDAFUG	PDA Fugitives (4)	VOC	3.04	13.16
		H ₂ S	0.04	0.19
15GOHFUG	Gas Oil Hydrotreater Fugitives (4)	VOC	0.86	3.69
	H ₂ S	0.07	0.28	
09CTR7FUG	LDH No. 7 Cooling Tower	VOC	0.13	0.59
26FMTEFUG	Reformate Splitter/C8 Column Fugitives (4)	VOC	0.57	2.41

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- (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 - particulate matter, suspended in the atmosphere, including PM₁₀.
PM₁₀ - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
CO - carbon monoxide
H₂S - hydrogen sulfide
- (4) Fugitive emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (5) Annual emission rate serves as a combined emission rate for all storage tanks listed with emission point number (EPN). Short-term emission rates apply to individual tanks for storage tanks listed with EPN.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

_____Hrs/day ____Days/week ____Weeks/year or 8,760 Hrs/year

** Compliance with annual emission limits is based on a rolling 12-month period

Dated December 14, 2007