EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSIONS LIMITATIONS

Flexible Permit Numbers 38754 and PSDTX324M13

EMISSION CAP TABLE

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.

See Attachment I for Source Name and Emission Point Number Index. All caps for all compound categories must be met for all averaging periods.

VOC EMISSION CAP

Source Name	Year	lb/hr	TPY
Fired Units, Flares, Tanks, Loading, Fugitives (4), Other	Final	1,015	1,179
	NO _x EMISSION CAP		
Source Name	Year	lb/hr	TPY
Fired Units, Flares 2441.2	Final	1,155	
	SO₂ EMISSION CAP		
Source Name	Year	lb/hr	TPY
Fired Units, Flares, 168	Final	509	2,023
	CO EMISSION CAP		
Source Name	Year	lb/hr	TPY
Fired Units, Flares	Final	1,362	5,623
	PM EMISSION CAP		
Source Name	Year	lb/hr	TPY

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EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSIONS LIMITATIONS

Fired Units	Final	272	826		
H₂S EN	MISSION CAP				
Source Name	Year	lb/hr	TPY		
121, Fugitive (4), Tanks, 126, 158, and 135	Final	3.19	14.0		
BENZENE	BENZENE EMISSION CAP				
Source Name	Year	lb/hr	TPY		
Fired Units, Tanks, Flares, Loading, Fugitives (4), WWTP, Other	Final	17.8	14.7		
H₂SO₄ EMISSION CAP					
Source Name	Year	lb/hr	TPY		
121	Final	49.0	214.6		

MAINTENANCE, STARTUP, AND SHUTDOWN (MSS) FINAL EMISSION CAPS (7)

Contaminant	
me (3) lb/h	r TPY
C 1,838	59.96
0 _x 560.3	11.24
СО	3,005
1,019	37.24
I 80.5	3 1.28
6.5	9 0.22
3 4.4	1 0.17
empt solvent 1.7	6 0.60
	me (3) lb/h C 1,838 560.3 CO 1,019 80.5 6.5 3 4.4

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

to or less than 10 microns in diameter. Where PM assumed that no PM greater than 10 microns is

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission F lb/hr	Rates TPY
1 OHR 140. (1)	TVAITIC (Z)	rvarrie (6)	10/111	
31F	HF Alkylation Unit Fugitives Initial (4)(5)	HF	0.07	0.29
	HF Alkylation Unit Fugitives Final (4)(6)	HF	0.13	0.55
168	Oleflex Scrubber	HCI Cl ₂ H ₂ SO ₄	0.06 0.01 0.01	0.28 0.04 0.01
155	CRU CCR	HCI	0.1	0.29

- (1) Emission point identification either specific equipment designation or emission point number from plot plan per Attachment 1.
- Specific point source name. For fugitive sources use area name or fugitive source name. (2)
- volatile organic compounds as defined in Title 30 Texas Administrative (3) VOC Code § 101.1

Exempt Solvents - carbon compounds that have been excluded from the definition of volatile organic

	compound.
NO_x	- total oxides of nitrogen
SO_2	- sulfur dioxide
CO	- carbon monoxide
PM	- particulate matter, suspended in the atmosphere, including PM ₁₀
PM ₁₀	 particulate matter equal to or less than 10 microns in diameter. We is not listed, it shall be assumed that no PM greater than 10 memitted.
	hydrogon flourido

hydrogen flouride HF H₂S hydrogen sulfide sulfuric acid H_2SO_4 HCI hydrochloric acid

Cl2 chlorine NH_3 ammonia

- Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- These emission rates are effective until the shutdown of the East HF Alkylation Unit authorized under Flexible Permit Number 2937.
- These emission rates become effective when the emissions under footnote (5) cease to be in (6) effect.

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

(7) The annual limits tons per year apply to calendar year 2010 and for each rolling 12 month period starting January 2011. The MSS emission caps are independent of the routine operating emission caps. Authorized emissions of a pollutant from facilities in this permit is the sum of the emission cap and the MSS emission cap.

Dated: <u>June 1, 2010</u>

ATTACHMENT 1

Flexible Permit Numbers 38754 and PSDTX324M13

Permit Emission Points by Type

Category: Fired Units		EPN <u>Description</u>
	1	Crude Heater
	74	Vacuum Unit Heater
	114	Desalter Heater
	115	HDS Charge Heaters
	116	HDS Heavy Oil Preheater
	117	Alky Fract Reboiler
	118	Hydrogen Reformer Heater
	119	Sulften Heater
	120	Butamer Heater
	121	HOC (incinerator and scrubber
	121	stack)
	124	API Separator Combustor
	131	Crude Preflash Heater
	132	Crude Stabilizer Heater
	150	HCU Heater
	151	NHT Heater
	152	CRU Heaters
	153	Boiler 30-B-02
	162	Oleflex Heaters
	172	RSU Heater
	49H90	
		C7 Splitter Reboiler
	TRUCKCOMB 195	Truck Loading Combustor
		GD Charge Heater
	73-P-3	Diesel Pump
	73-P-4	Diesel Pump
	73-P-5	Diesel Pump
	72-P-6	Diesel Pump
	72-P-7	Diesel Pump
	72-P-8	Diesel Pump
	72-P-9	Diesel Pump
	72-P-10	Diesel Pump
	72-P-11	Diesel Pump
	72-P-14A	Diesel Pump
	72-P-14B	Diesel Pump
	50-P-16	Diesel Pump
	50-P-20	Diesel Pump
	16-P-04	Diesel Pump
	16-P-07	Diesel Pump
	83-P-904	Diesel Pump
	83-P-905	Diesel Pump

Category:	Flares	EPN 126 127 128 135 158	Description Main Flare MTBE Flare Halo Flare (Pilots Only) Acid Gas Flare (Pilots Only) Ground Flare
Category:	Tanks	<u>EPN</u>	<u>Description</u>
		5 6 7 8 9 10 11 12 13 15 16 17 34 35 36 37 46 48 TK-51 60 61 63 64 69 70 71 72 88 89 90 91 92	Tank No. 93 Tank No. 94 Tank No. 95 Tank No. 96 Tank No. 101 Tank No. 102 Tank No. 103 Tank No. 104 Tank No. 105 Tank No. 108 Tank No. 109 Tank No. 109 Tank No. 97 Tank No. 98 Tank No. 99 Tank No. 137 Tank No. 137 Tank No. 139 Tank No. 139 Tank No. 14 Tank No. 15 Tank No. 14 Tank No. 15 Tank No. 15 Tank No. 150 Tank No. 16 Tank No. 17 Tank No. 18 Tank No. 18 Tank No. 57 Tank No. 59 Tank No. 60 Tank No. 60

Category: Tanks (cont'd.)	<u>EPN</u>	<u>Description</u>
	93 94 95 96 TK-112 TK-114 129 140 142 156 157 164 165 166 169 173 174 196 197	Tank No. 19 Tank No. 20 Tank No. 77 Tank No. 78 Tank No. 112 Tank No. 114 Tank No. 156 Tank No. 161 Tank No. 161 Tank No. 62 Tank No. 62 Tank No. 63 Tank No. 64 Tank No. 65 Tank No. 76 Tank No. 75 Tank No. 75 Tank No. 115 Tank No. 116 Tank No. 70-TK-66 Tank No. 70-TK-67 Tank No. 70-TK-67
Category: Fugitive	<u>EPN</u>	<u>Description</u>
	1F 2F 4F 11F 12F 13F 18F 20F 21/22F 30B02F 30B03F 31F 36F 37F 38F	Crude Unit Vacuum Unit LEU Desalter Unit HDS Unit SMR HRLEU Unit LRU HOC Unit 30-B-02 30-B-03 HF Alkylation Unit Butamer Unit MTBE Oleflex

Category: Fugitive (cont'd.)	<u>EPN</u>	<u>Description</u>
	41/46/24F 47F 47PSAF 48F 49F 54F 133F 175 FUG-DOCKS FUELDRM GBF LPGSTGF MVRUF T1F T2/2AF T3F TRKRACKFUG ATU3FUG SRU3FUG SCOTFUG GD-FUG LPGSTGF 201	SULF/SEU/SRU HCU PSA NHT CRU MTBE/TAME Unit Powerhouse 49-RSU/XFU Docks Fuel Gas Drum Gas Blending LPG Storage MVRU Terminal 1 Terminal 2/2A Terminal 3 Truck Rack Amine SRU SCOT Gasoline Desulfurization Propane Pump Fugitives Railcar Unloading
Category: Loading	<u>EPN</u>	<u>Description</u>
	VRU 31 SHIP FUG TRUCKFUG Loading-East	Marine loading VRU Barge Loading (Heavy Oil) Ship Dock Fugitives Truck Loading Loading East
Category: Other	<u>EPN</u>	<u>Description</u>
	1CT 122 123 167-CT	CU/VRU Cooling Tower HOC Cooling Tower ALKY Cooling Tower BUP Cooling Tower

Category:	Other (cont'd.)	<u>EPN</u>	<u>Description</u>
		AE-49601A/B AE-49900A/B AE-49901A/B V-201	Analyzer Vent AE-49601A/B Analyzer Vent AE-49900A/B Analyzer Vent AE-49901A/B Unloading Vent (MSS only)

Dated: <u>June 1, 2010</u>