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), and Other	Final	1,201	1,218	
	NO _x EMISSION CAP			
Source Name	Year	lb/hr	TPY	
Fired Units and Flares	Final	1,155	2441.2	
SO ₂ EMISSION CAP				
Source Name	Year	lb/hr	TPY	
Fired Units, Flares and 168	Final	509	2,023	
CO EMISSION CAP				
Source Name	Year	lb/hr	TPY	
Fired Units and Flares	Final	1,362	5,623	

PM EMISSION CAP

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Source Name	Year	lb/hr	TPY
Fired Units	Final	272	826
H₂S E	MISSION CAP		
Source Name	Year	lb/hr	TPY
121, Fugitive (4), Tanks, 126, 158, and 135	Final	3.19	14.0
BENZENE EMISSION CAP			
Source Name	Year	lb/hr	TPY
Fired Units, Tanks, Flares, Loading, Fugitives (4), and WWTP	Final	14.6	11.1
H₂SO₄ EMISSION CAP			
Source Name	Year	lb/hr	TPY
121	Final	49.0	214.6

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

	Air Contaminant		
Source Name	Name (3)	lb/hr	TPY
MSS-TA CONTROLLED,	VOC	1,838	59.96
MSS-TA UNCONTROLLED,	NO_x	560.3	11.24
MSS-MA CONTROLLED, and	CO	3,005	54.35
MSS-MA UNCONTROLLED as identified	SO_2	1,019	37.24
In Attachment 4	PM	80.53	1.28
	H₂S	6.59	0.22
	NH_3	4.41	0.17
	Exempt solvent	1.76	0.60

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission F lb/hr	Rates TPY
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

- 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 Code § (3) VOC 101.1

- total oxides of nitrogen NO_{\times}

 SO_2 - sulfur dioxide CO - carbon monoxide

PM - particulate matter, suspended in the atmosphere, including PM₁₀ - particulate matter equal to or less than 10 microns in diameter. PM_{10}

HF - hydrogen flouride H_2S - hydrogen sulfide - sulfuric acid H₂SO₄ HC1 - hydrochloric acid - chlorine

 Cl_2

- (4) 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.
- The annual limits (ton 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.

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

ATTACHMENT 1

Flexible Permit Numbers 38754 and PSDTX324M13

Permit Emission Points by Type

Category: Fired Units		EPN Description
	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 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	Truck Loading Combustor
	195	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

Category: Fired Units (cont'd.) <u>EPN</u> <u>Description</u>

	16-P-07 83-P-904 83-P-905	Diesel Pump Diesel Pump Diesel Pump
Category: Flares	<u>EPN</u>	<u>Description</u>
	126 127 128 135 Only) 158	Main Flare MTBE Flare Halo Flare (Emergency Use Only) Acid Gas Flare (Emergency Use Ground Flare
Category: Tanks	<u>EPN</u>	Description
	5 6 7 8 9 10 11 12 13 15 16 17 34 35 36 37 46 48 TK-51 60	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. 110 Tank No. 97 Tank No. 98 Tank No. 99 Tank No. 99 Tank No. 137 Tank No. 139 Tank No. 139 Tank No. 14
	61 63	Tank No. 15 Tank No. 149
	64 69 70 71	Tank No. 150 Tank No. 9 Tank No. 16 Tank No. 17
Category: Tanks (cont'd.)	<u>EPN</u>	<u>Description</u>

	72 88 89 90 91 92 93 94 95 96 TK-112 TK-114 129 140 142 156 157 164 165 166 169 173 174 196 197 198	Tank No. 18 Tank No. 57 Tank No. 58 Tank No. 59 Tank No. 60 Tank No. 61 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. 63 Tank No. 64 Tank No. 65 Tank No. 76 Tank No. 75 Tank No. 75 Tank No. 715 Tank No. 116 Tank No. 70-TK-66 Tank No. 70-TK-66 Tank No. 70-TK-67 Tank No. 70-TK-68
Category: Fugitive	<u>EPN</u>	<u>Description</u>
Category: Fugitive (cont'd.)	21/22F	Crude Unit Vacuum Unit LEU Desalter Unit HDS Unit SMR HRLEU Unit LRU Description
	30B02F 30B03F	30-B-02 30-B-03

31F	HF Alkylation Unit
36F	Butamer Unit
37 F	MTRE

37F MTBE 38F Oleflex

41/46/24F SULF/SEU/SRU

47F HCU 47PSAF PSA 48F NHT 49F CRU

54F MTBE/TAME Unit 133F Powerhouse 175 49-RSU/XFU

FUG-DOCKS Docks

FUELDRM Fuel Gas Drum
GBF Gas Blending
LPGSTGF LPG Storage

MVRUF
T1F
Terminal 1
T2/2AF
T3F
Terminal 3
TRKRACKFUG
ATU3FUG
SRU3FUG
MVRU
Terminal 1
Terminal 2/2A
Truck Rack
Amine
SRU

SCOTFUG SCOT
GD-FUG Gasoline Desulfurization
LPGSTGF Propane Pump Fugitives

Category: Loading <u>EPN</u> <u>Description</u>

Category: Other

VRU Marine loading VRU

31 Barge Loading (Heavy Oil)

SHIP FUG Ship Dock Fugitives TRUCKFUG Truck Loading

Loading-East Loading East EPN Description

1CT CU/VRU Cooling Tower 122 HOC Cooling Tower 123 ALKY Cooling Tower 167-CT BUP Cooling Tower

AE-49601A/B Analyzer Vent AE-49601A/B AE-49900A/B Analyzer Vent AE-49900A/B

AE-49901A/B Analyzer Vent AE-49901A/B

Dated March 29, 2010