EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSIONS LIMITATIONS

Flexible Permit Numbers 38754 and PSD-TX-324-M12

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	1201	1218
	NO _x EMISSION CAP		
Source Name	Year	lb/hr	TPY
Fired Units, Flares	Final	1155	2860
	SO ₂ EMISSION CAP		
Source Name	Year	lb/hr	TPY
Fired Units, Flares, 168	Final	509	2023
	CO EMISSION CAP		
Source Name	Year	lb/hr	TPY

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Fired Units, Flares	Final	1362	5623	
	PM EMISSION CAP			
Source Name	Year	lb/hr	TPY	
Fired Units Final	272826			
	H₂S EMISSION 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), WWTP	Final	14.6	11.1	
H₂SO₄ EMISSION CAP				
Source Name	Year	lb/hr	TPY	
121	Final	49.0	214.6	

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emi	ssion	Source	Air Contaminant	Emissio	n Rates
<u>Poir</u>	nt No. (1)	Name (2)	Name (3)	lb/hr	TPY
31F		HF Alkylation Unit Fugitives Initial (4)(5)	HF	0.07	0.29
31F		HF Alkylation Unit Fugitives Final (4)(6)	HF	0.13	0.55
168		Oleflex Scrubber	HCI CI 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)(2)(3)	Ü	n or emission point number from plot p	ooint source name. Fooint	or fugitive s VOC - ve ve Code ' 1 -total -sulfur d -carbon -particul is not listed	sources use platile 01.1 oxides of ioxide monoxide ate matter, ate matter
	HF H ₂ S				en nounde en sulfide

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

 H_2SO_4 -sulfuric acid HCI -hydrochloric acid Cl_2 -chlorine

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

Dated June 6, 2008

ATTACHMENT 1

Flexible Permit Numbers 38754 and PSD-TX-324M12

Permit Emission Points by Type

Category: Fired Units				<u>EPN</u>	<u>Description</u>
	73-P-3 73-P-4 73-P-5 72-P-6 72-P-7 72-P-9 72-P-10 72-P-11 72-P-14 50-P-16 50-P-20	Charge Cincine Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel A B Diesel Diesel Diesel	VDHHAHSBCCHNCBCHNCBCHNCBCHNCBCHNCBCHNCBCCCHNCBCCCHNCBCCHNCBCCCHNCBCCCCCCCC	esalter IDS Cha IDS Hea Ily Frac Ilydroge Fulften Foutamer Frude Si ICU Hea IC	Unit Heater Heater arge Heaters avy Oil Preheater ct Reboiler n Reformer Heater Heater Heater reflash Heater tabilizer Heater ater ater aters 0-B-02 Heaters ater rer Reboiler arator Combustor bading Combustor rubber stack)
	16-P-04			~	

	16-P-07 Diesel Pump		
	83-P-904	Diesel Pump	1
	83-P-905	Diesel Pump	1
Category: Flares		<u>EPN</u>	<u>Description</u>
	126Main Flare		
	127	MTBE Fla	are
	128Halo Flare (Έmergency ι	Jse Only)
	135Acid Gas Fl	are (Emerger	ncy Use Only)
	158Ground Flai	re	

	158Ground Flare	
Category: Tanks	<u>EPN</u>	<u>Description</u>
	5	Tank No. 93
	6	Tank No. 94
	7	Tank No. 95
	8	Tank No. 96
	9	Tank No. 101
	10	Tank No. 102
	11	Tank No. 103
	12	Tank No. 104
	13	Tank No. 105
	15	Tank No. 108
	16	Tank No. 109
	17	Tank No. 110
	34	Tank No. 97
	35	Tank No. 98
	36	Tank No. 99
	37	Tank No. 100
	46	Tank No. 137
	48	Tank No. 139
	TK-51	Tank No. 51
	60	Tank No. 14
	61	Tank No. 15
	63	Tank No. 149
	64 69	Tank No. 150
	70	Tank No. 9
	70 71	Tank No. 16 Tank No. 17
	71 72	Tank No. 17
	72 88	Tank No. 18
	89	Tank No. 57
	90	Tank No. 56
	91	Tank No. 60
	эт	Tatik NU. OU

		92	Tank No. 61
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 196Tank No. 70 198Tank No. 70	O-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 SULF/SEU/SRU

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

54F MTBE/TAME Unit

133F Powerhouse175 49-RSU/XFU

FUG-DOCKS Docks

FUELDRM Fuel Gas Drum
GBF Gas Blending
LPGSTGF LPG Storage

MVRUF MVRU
T1F Terminal 1
T2/2AF Terminal 2/2A
T3F Terminal 3
TRKRACKFUG Truck Rack

ATU3FUG Amine SRU3FUG SRU SCOTFUG SCOT

GD-FUG Gasoline Desulfurization

LPGSTGF Propane Pump Fugitives

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

VRU Marine loading VRU

31 Barge Loading (Heavy Oil)

SHIP FUG Ship Dock Fugitives

TRUCKFUG Truck Loading Loading-East Loading East

Category: Other <u>EPNDescription</u>

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

Category: Other (cont=d) <u>EPNDescription</u>

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 <u>June 6, 2008</u>