#### Permit No. 6308 and PSD-TX-137M1

This table lists the maximum allowable emission caps 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.

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
65A	Crude II Charge Heater A	$NO_x$		
65B	Crude II Vacuum Heater A	$NO_x$		
66A	Crude II Charge Heater B	$NO_x$		
66B	Crude II Vacuum Heater B	$NO_x$		
69, 70	DIH A Heater	$NO_x$		
67, 68	DIH B Heater	$NO_x$		
110	FCCU II Charge Heater	$NO_x$		
111	FCCU II Scrubber	$NO_x$		
101, 102	Hydrobon Charge Heater	$NO_x$		
99, 100	Hydrobon Reboiler	$NO_x$		
80	VGO Charge Heater	$NO_x$		
81	VGO Fractionator Heater	$NO_x$		
74	KHDS Charge Heater	$NO_x$		
77	DHDS Charge Heater	$NO_x$		
35, 36	BTX Rx No. 1 Heater	$NO_x$		
37, 38	BTX Rx No. 2 Heater	$NO_x$		
33, 34	BTX Depentanizer Reboiler	$NO_x$		
3	MFP Rx No. 1 Heater	$NO_x$		
4A	MFP Rx No. 2 Heater	$NO_x$		
4	MFP Stabilizer Reboiler	$NO_x$		
120	Isom DIH Reboiler	$NO_x$		
1, 2	Alky Reboiler	$NO_x$		
25	Sulfolane Heater	$NO_x$		
FL-118	Marine VRU	$NO_x$		
	Emissions Cap	$NO_x$	650.8	2374.0
65A	Crude II Charge Heater A	СО		
65B	Crude II Vacuum Heater A	CO		
66A	Crude II Charge Heater B	CO		

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
66B 69, 70 67, 68 110 111 101, 102 99, 100 80 81 74 77 35, 36 37, 38 33, 34 3 4A 4 120 1, 2 25 FL-118	Crude II Vacuum Heater B DIH A Heater DIH B Heater FCCU II Charge Heater FCCU II Scrubber Hydrobon Charge Heater Hydrobon Reboiler VGO Charge Heater VGO Fractionator Heater KHDS Charge Heater DHDS Charge Heater BTX Rx No. 1 Heater BTX Rx No. 2 Heater BTX Depentanizer Reboiler MFP Rx No. 1 Heater MFP Rx No. 1 Heater MFP Rx No. 2 Heater MFP Rx No. 2 Heater MFP Rx No. 1 Heater MFP Rx No. 1 Heater MFP Rx No. 2 Heater MFP Stabilizer Reboiler Isom DIH Reboiler Alky Reboiler Sulfolane Heater Marine VRU Emissions Cap	CO CO CO CO CO CO CO CO CO CO CO CO CO C	245.3	984.0
65A 65B 66A 66B 69, 70 67, 68 110 111 101, 102 99, 100 80 81	Crude II Charge Heater A Crude II Vacuum Heater A Crude II Charge Heater B Crude II Vacuum Heater B DIH A Heater DIH B Heater FCCU II Charge Heater FCCU II Scrubber Hydrobon Charge Heater Hydrobon Reboiler VGO Charge Heater VGO Fractionator Heater KHDS Charge Heater	SO <sub>2</sub>		

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
77 35, 36 37, 38 33, 34 3 4A 4 120 1, 2 25	DHDS Charge Heater BTX Rx No. 1 Heater BTX Rx No. 2 Heater BTX Depentanizer Reboiler MFP Rx No. 1 Heater MFP Rx No. 2 Heater MFP Stabilizer Reboiler Isom DIH Reboiler Alky Reboiler Sulfolane Heater Emissions Cap	SO <sub>2</sub>	283	1223.1
65A 65B 66A 66B 69, 70 67, 68 110 111 101, 102 99, 100 80 81 74 77 35, 36 37, 38 33, 34 3 4A 4 120 1, 2 25	Crude II Charge Heater A Crude II Vacuum Heater A Crude II Charge Heater B Crude II Vacuum Heater B DIH A Heater DIH B Heater FCCU II Charge Heater FCCU II Scrubber Hydrobon Charge Heater Hydrobon Reboiler VGO Charge Heater VGO Fractionator Heater KHDS Charge Heater DHDS Charge Heater BTX Rx No. 1 Heater BTX Rx No. 2 Heater BTX Depentanizer Reboiler MFP Rx No. 1 Heater MFP Rx No. 2 Heater MFP Rx No. 2 Heater MFP Rx No. 1 Heater MFP Rx No. 1 Heater MFP Rx No. 2 Heater MFP Rx No. 1 Heater MFP Rx No. 1 Heater MFP Rx No. 1 Heater MFP Rx No. 2 Heater MFP Stabilizer Reboiler Isom DIH Reboiler Sulfolane Heater	PM P		

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
	Emissions Cap	PM	51.9	226.1
65A	Crude II Charge Heater A	VOC		
65B	Crude II Vacuum Heater A	VOC		
66A	Crude II Charge Heater B	VOC		
66B	Crude II Vacuum Heater B	VOC		
69, 70	DIH A Heater	VOC		
67, 68	DIH B Heater	VOC		
F-61	Crude II/DIH Fugitives	VOC		
110	FCCU II Charge Heater	VOC		
111	FCCU II Scrubber	VOC		
F-112	FCCU II Fugitives	VOC		
F-44	FCCU I Fugitives	VOC		
101, 102	Hydrobon Charge Heater	VOC		
99, 100	Hydrobon Reboiler	VOC		
F-98	Hydrobon Fugitives	VOC		
80	VGO Charge Heater	VOC		
81	VGO Fractionator Heater	VOC		
F-79	Isomax Fugitives	VOC		
74	KHDS Charge Heater	VOC		
77	DHDS Charge Heater	VOC		
F-72	KHDS/DHDS Fugitives	VOC		
35, 36	BTX Rx No. 1 Heater	VOC		
37, 38	BTX Rx No. 2 Heater	VOC		
33, 34	BTX Depentanizer Reboiler	VOC		
F-55	BTX Fugitives	VOC		
3	MFP Rx No. 1 Heater	VOC		
4A	MFP Rx No. 2 Heater	VOC		
4	MFP Stabilizer Reboiler	VOC		
F-48	MFP Fugitives	VOC		
120	Isom DIH Reboiler	VOC		
F-121	Isom Fugitives	VOC		
1, 2	Alky Reboiler	VOC		
F-50	Alkylation Fugitives	VOC		
25	Sulfolane Heater	VOC		
F-53	Sulfolane Fugitives	VOC		

Emission	Source	Air Contaminant	<u>Emissio</u> ı	n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
F-58	Butadiene Saturation Fugitive			
F-124	Cyclohexane Fugitives	VOC		
F-123	MTBE Fugitives	VOC		
F-DIM	Dimersol Fugitives	VOC		
F-200	Benzene Tank Piping Fugitive	es VOC		
F-26	Terminal No. 2 Fugitives	VOC		
F-30	Terminal No. 3 Fugitives	VOC		
F-202	Gas Blending Fugitives	VOC		
FL-118	Marine VRU	VOC		
92	Xylene Loading	VOC		
C-103	Alkylation Cooling Tower	VOC		
C-104	MFP Cooling Tower	VOC		
C-105	FCCU I Cooling Tower	VOC		
C-106	Crude I Cooling Tower	VOC		
C-107	Sulfolane Cooling Tower	VOC		
C-108	BTX Cooling Tower	VOC		
C-109	Crude II Cooling Tower	VOC		
C-113	FCCU II Cooling Tower	VOC		
T-S2	Tank S2	VOC		
T-S3	Tank S3	VOC		
T-S25	Tank S25	VOC		
T-S43	Tank S43	VOC		
T-R19	Tank R19	VOC		
T-R20	Tank R20	VOC		
T-320	Tank 320	VOC		
T-321	Tank 321	VOC		
T-101	Tank 101	VOC		
T-102	Tank 101	VOC		
T-103	Tank 103	VOC		
T-107	Tank 107	VOC		
T-108	Tank 108	VOC		
T-109	Tank 109	VOC		
T-125	Tank 125	VOC		
T-F3	Tank F3	VOC		
T-J1	Tank J1	VOC		
T-J2	Tank J2	VOC		

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
T-S23	Tank S23	VOC		
T-R17	Tank R17	VOC		
T-R18	Tank R18	VOC		
T-S32	Tank S32	VOC		
T-R9	Tank R9	VOC		
T-R11	Tank R11	VOC		
T-S1	Tank S1	VOC		
T-S5	Tank S5	VOC		
T-S8	Tank S8	VOC		
T-S41	Tank S41	VOC		
T-S42	Tank S42	VOC		
T-113	Tank 113	VOC		
T-114	Tank 114	VOC		
T-115	Tank 115	VOC		
T-117	Tank 117	VOC		
T-S6	Tank S6	VOC		
T-S7	Tank S7	VOC		
T-S30	Tank S30	VOC		
T-S31	Tank S31	VOC		
T-144	Tank 144	VOC		
T-322	Tank 322	VOC		
T-324	Tank 324	VOC		
T-328	Tank 328	VOC		
T-160	Tank 160	VOC		
T-S33	Tank S33	VOC		
T-145	Tank 145	VOC		
T-146	Tank 146	VOC		
T-S22	Tank S22	VOC		
T-R5	Tank R5	VOC		
T-R7	Tank R7	VOC		
T-S21	Tank S21	VOC		
T-R34	Tank R34	VOC		
T-R40	Tank R40	VOC		
T-323	Tank 323	VOC		
T-R36	Tank R36	VOC		
T-421	Tank 421	VOC		

Emission	Source	Air Contaminant	Emissio	n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
T-423 T-100 T-142 T-143 T-S26 T-S27 T-S34 T-111 T-112	Tank 423 Tank 100 Tank 142 Tank 143 Tank S26 Tank S27 Tank S34 Tank 111 Tank 112 Emissions Cap	VOC VOC VOC VOC VOC VOC VOC VOC VOC	626.5	1138.8
T-S23 T-R17 T-R18	Tank S23 Tank R17 Tank R18 Emissions Cap	Toluene Toluene Toluene Toluene	21.56	29.58
T-S32 T-R9 T-R11	Tank S32 Tank R9 Tank R11 Emissions Cap	Xylene Xylene Xylene Xylene	19.6	14.1
T-S22 T-R5 T-R7	Tank S22 Tank R5 Tank R7 Emissions Cap	Benzene Benzene Benzene Benzene	1.23	1.68
T-S21 T-R34 T-R40	Tank S21 Tank R34 Tank R40 Emissions Cap	Cyclohexane Cyclohexane Cyclohexane Cyclohexane	0.64	2.56
T-145 T-146	Tank 145 Tank 146 Emissions Cap	MTBE MTBE MTBE	1.26	2.08

Emission	Source	Air Contaminant	Emission	Rates *
Point No. (1)	Name (2)	Name (3)	<u>lb/hr</u>	<u>TPY</u>
(1) Emission noi	nt identification - either snec	ific equipment designation or emi	ission noint r	number from
plot plan.	The laction called open	mo oquipmont doolgridation of onit	colon point i	
(3) VOC - vo $NO_x$ - tot $SO_2$ - su PM - pa CO - ca MTBE - me	latile organic compounds as all oxides of nitrogen lfur dioxide rticulate matter rbon monoxide ethyl-tert-butyl ether	sources use area name or fugitive defined in General Rule 101.1  and should not be considered a		
emission ra	-	and should not be considered a	o a maxima	in anowabic
* Emission rat schedule:	es are based on and the fa	acilities are limited by the follow	ring maximu	m operating
Hrs/day _	_ Days/week Weeks/yea	r or <u>8,760</u> Hrs/year		
			Dated	8-8-95