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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.

Emission	Source	Air Contaminant	<u>Emissi</u>	<u>on Rates</u>
<u>*</u> Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
Olefins Unit No.	1:			
1001	Pyrolysis Furnace	VOC NO_X CO TSP SO_2	0.70 30.30 8.20 0.50 0.38	3.00 132.71 35.92 2.20 1.70
1002	Pyrolysis Furnace	VOC NO_X CO TSP SO_2	0.70 30.30 8.20 0.50 0.38	3.00 132.71 35.92 2.20 1.70
1003	Pyrolysis Furnace	VOC NO_{x} CO TSP SO_{2}	0.70 30.30 8.20 0.50 0.38	3.00 132.71 35.92 2.20 1.70
1004	Pyrolysis Furnace	$\begin{array}{c} \text{VOC} \\ \text{NO}_{\text{X}} \\ \text{CO} \\ \text{TSP} \\ \text{SO}_{\text{2}} \end{array}$	0.70 30.30 8.20 0.50 0.38	3.00 132.71 35.92 2.20 1.70
1005	Pyrolysis Furnace	VOC	0.70	3.00

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Emission *	Source	Air Contaminant	<u>Emissi</u>	on Rates
<u>^</u> Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		NO_X CO TSP SO_2	30.30 8.20 0.50 0.38	132.71 35.92 2.20 1.70
Olefins Unit No.	1 (continued):			
1006	Pyrolysis Furnace	VOC NO_X CO TSP SO_2	0.70 30.30 8.20 0.50 0.38	3.00 132.71 35.92 2.20 1.70
1007	Pyrolysis Furnace	VOC NO_X CO TSP SO_2	0.70 30.30 8.20 0.50 0.38	3.00 132.71 35.92 2.20 1.70
1008	Pyrolysis Furnace	VOC NO_X CO TSP SO_2	0.70 30.30 8.20 0.50 0.38	3.00 132.71 35.92 2.20 1.70
1009	Decoke Drum (5)	CO TSP	34.62 3.20	14.00 1.30
1009B	Pyrolysis Furnace	VOC NO_X CO TSP SO_2	0.70 30.30 8.20 0.50 0.38	3.00 132.71 35.92 2.20 1.70
1010	Cooling Tower	VOC	5.29	23.19

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Emission *	Source	Air Contaminant	<u>Emissic</u>	on Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		BZ	0.17	0.73
1011	CPI Oil/Water Separat	cor VOC BZ	2.76 0.64	12.09 2.78
1012	MAPD Regenerator 3418	BF CO	17.30	0.01
Olefins Unit No.	1 (continued):			
1015	Raw Condensate Tank 6	5402F	VOC	2.21
	4.00	BZ	0.02	0.04
1017	Methanol Tank 3416F	VOC	0.65	0.02
1018	Flare	VOC NO_X CO SO_2	1.79 1.90 9.68 0.10	0.43 8.30 42.32 0.04
1019	Fugitives (4)	VOC BZ	0.72 0.02	3.16 0.10
1020	Naphtha Tank 6401F	VOC BZ	8.69 0.07	18.41 0.15
1028	Fugitives - A (4)	VOC BZ	0.72 0.02	3.16 0.10
1029	Fugitives - B (4)	VOC BZ	0.72 0.02	3.16 0.10
1030	Fugitives - C (4)	VOC BZ	0.72 0.02	3.16 0.10

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Emission *	Source	Air Contaminant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY
1031	Fugitives - D (4)	VOC BZ	0.72 0.02	3.16 0.10
1032	Fugitives - E (4)	VOC BZ	0.72 0.02	3.16 0.10
1033	Fugitives - F (4)	VOC BZ	0.72 0.02	3.16 0.10
Olefins Unit No.	1 (continued):			
1034	Fugitives - G (4)	VOC BZ	0.72 0.02	3.16 0.10
1035	Fugitives - H (4)	VOC BZ	0.72 0.02	3.16 0.10
1036	Fugitives - I (4)	VOC BZ	0.72 0.02	3.16 0.10
1037	Fugitives - J (4)	VOC BZ	0.72 0.02	3.16 0.10
1038	Fugitives - K (4)	VOC BZ	0.72 0.02	3.16 0.10
1039	Fugitives - L (4)	VOC BZ	0.72 0.02	3.16 0.10
1040	Fugitives - M (4)	VOC BZ	0.72 0.02	3.16 0.10

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Emission *	Source	Air Contaminant	<u>Emissic</u>	on Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
1041	Fugitives - N (4)	VOC BZ	0.72 0.02	3.16 0.10
1042	Fugitives - 0 (4)	VOC BZ	0.72 0.02	3.16 0.10
1043	Fugitives - P (4)	VOC BZ	0.72 0.02	3.16 0.10
1044	Fugitives - Q (4)	VOC BZ	0.72 0.02	3.16 0.10
1045	Fugitives - R (4)	VOC BZ	0.72 0.02	3.16 0.10
Olefins Unit No.	1 (continued):			
1046	Reboiler No. 1	VOC NO_X CO TSP SO_2	0.08 1.82 1.02 0.03 0.02	0.36 7.97 4.47 0.13 0.10
1047	Reboiler No. 2	VOC NO_X CO TSP SO_2	0.08 1.82 1.02 0.03 0.02	0.36 7.97 4.47 0.13 0.10
1048	Slop Oil Tank 7408F	A VOC	0.54	0.07
1049	Fugitives - T (4)	VOC BZ	0.16 <0.01	0.70 0.02
1050	H ₂ SO ₄ Tank	H_2SO_4	<0.01	<0.01

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Emission *	Source	Air Contaminant	<u>Emissic</u>	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
1051	Flare	VOC	0.22	0.47
		NO_X	1.14	2.38
		CO	9.77	20.41
		SO ₂	0.02	0.05
		BZ	0.02	0.04
Olefins Unit No.	2:			
1054-1062, 1091	Pyrolysis Furnaces	VOC		26.59
		NO _X		720.52
		CO		319.02
		TSP		18.99
		SO ₂		14.11

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Emission *	Source	Air Contaminant	Emission Rates
Point No. (1)	Name (2)	Name (3)	<u>lb/hr TPY</u>
Olefins Unit No.	2 (continued):		
1054	Pyrolysis Furnace	VOC NO_{x} CO TSP SO_{2}	0.71 19.29 8.54 0.51 0.38
1055	Pyrolysis Furnace	VOC NO_X CO TSP SO_2	0.71 19.29 8.54 0.51 0.38
1056	Pyrolysis Furnace	VOC NO_X CO TSP SO_2	0.71 19.29 8.54 0.51 0.38
1057	Pyrolysis Furnace	VOC NO_X CO TSP SO_2	0.71 19.29 8.54 0.51 0.38
1058	Pyrolysis Furnace	VOC NO_X CO TSP SO_2	0.71 19.29 8.54 0.51 0.38
1059	Pyrolysis Furnace	VOC NO _X CO	0.71 19.29 8.54

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Emission *	Source	Air Contaminant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
		TSP SO₂	0.51 0.38	
Olefins Unit No.	2 (continued):			
1060	Pyrolysis Furnace	VOC NO_X CO TSP SO_2	0.71 19.29 8.54 0.51 0.38	
1061	Pyrolysis Furnace	VOC NO_X CO TSP SO_2	0.71 19.29 8.54 0.51 0.38	
1062	Pyrolysis Furnace	VOC NO_X CO TSP SO_2	0.71 19.29 8.54 0.51 0.38	
1063	Decoke Drum (5)	CO TSP	34.62 3.18	15.39 1.41
1064	Cooling Tower	VOC BZ	5.28 0.63	23.15 2.78
1065	CPI Oil/Water Separa	tor VOC BZ	2.76 0.64	12.09 2.78
1066	MAPD Regenerator	СО	17.28	0.01
1067	Flare	VOC	7.55	33.07

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Emission *	Source	Air Contaminant	<u>Emissi</u>	on Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		NO_X	1.92	8.39
		CO	13.84	60.61
		SO_2	0.01	0.02

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Emission *	Source	Air Contaminant	<u>Emission</u>	Rates
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY
Olefins Unit No.	2 (continued):			
1068	Fugitives - A (4)	VOC BZ	2.01 0.02	8.78 0.09
1069	Fugitives - B (4)	VOC BZ	2.01 0.02	8.78 0.09
1070	Fugitives - C (4)	VOC BZ	2.01 0.02	8.78 0.09
1071	Fugitives - D (4)	VOC BZ	2.01 0.02	8.78 0.09
1072	Fugitives - E (4)	VOC BZ	2.01 0.02	8.78 0.09
1073	Fugitives - F (4)	VOC BZ	2.01 0.02	8.78 0.09
1074	Fugitives - G (4)	VOC BZ	2.01 0.02	8.78 0.09
1075	Fugitives - H (4)	VOC BZ	2.01 0.02	8.78 0.09
1076	Fugitives - I (4)	VOC BZ	2.01 0.02	8.78 0.09
1077	Fugitives - J (4)	VOC BZ	2.01 0.02	8.78 0.09
1078	Fugitives - K (4)	VOC BZ	2.01 0.02	8.78 0.09

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Emission *	Source	Air Contaminant	<u>Emissi</u>	on Rates
- Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
1079	Fugitives - L (4)	VOC BZ	2.01 0.02	8.78 0.09
Olefins Unit No.	2 (continued):			
1080	Fugitives - M (4)	VOC BZ	2.01 0.02	8.78 0.09
1081	Fugitives - N (4)	VOC BZ	2.01 0.02	8.78 0.09
1082	Fugitives - 0 (4)	VOC BZ	2.01 0.02	8.78 0.09
1083	Fugitives - P (4)	VOC BZ	2.01 0.02	8.78 0.09
1085	Pyrolysis Fuel Oil 1 1.23	ank 6499FA	VOC	2.07
1086	Pyrolysis Fuel Oil 1 1.23	ank 6499FB	VOC	2.07
1087	Flare	VOC NO_{x} CO SO_{2} BZ	0.14 1.45 12.42 0.02 0.10	0.51 6.34 54.38 0.08 0.43
1088	Wash Oil Day Tank 24	110F VOC	2.60	0.10
1089	Slop Oil Tank 7408FE	3 VOC	2.54	0.03
1090	H₂SO4 Tank	H_2SO_4	<0.01	<0.01

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Emission <u>*</u>	Source	Air Contaminant	<u>Emission Rates</u>
Point No. (1)	Name (2)	Name (3)	lb/hr TPY
1091	Pyrolysis Furnace	VOC	0.71
		NO_X	19.29
		CO	8.54
		TSP	0.51
		SO_2	0.38

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Emission *	Source	Air Contaminant	<u>Emissi</u>	on Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
1092	Olefins 1 Fugitives 1.41	- U (4)	VOC	0.32
		BZ	0.01	0.03
Gasoline Hydrotr	eater Unit:			
8001B	Regeneration Heater	VOC	0.03	0.01
		NO_X	0.66	0.14
		C0	0.67	0.15
		TSP	0.15	0.03
		SO ₂	0.01	<0.01
8002B	Second Stage Feed H	eater VOC	0.02	0.09
00022		NO _X	0.24	1.05
		CO	0.11	0.48
		TSP	0.05	0.22
		SO_2	0.01	0.01
8003B	Flare	VOC	1.21	4.24
00000	Tale	NO _X	1.80	4.24
		CO	3.60	9.83
		SO ₂	0.01	0.02
		5.52		
8402F	Decoke Drum	CO	3.31	0.01
8801U	Cooling Tower	VOC	1.32	5.79
00010	cooling tone.	BZ	0.32	1.39
8801F	Process Fugitives (4) VOC	0.29	1.27
	-	•		
Propylene Purifi	cation Unit:			
PPUFUG-1	Unloading Station F 2.04	ugitives (4)	VOC	0.47

PPUFUG-2	Process Area Fugitives (4) 2.72	VOC	0.62
PPUFUG-3	Storage Spheres Fugitives (4) 0.82	VOC	0.19

- (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 30 Texas Administrative Code Section 101.1

 NO_X - total oxides of nitrogen

CO - carbon monoxide

TSP - total suspended particulate

SO₂ - sulfur dioxide

BZ - benzene

H₂SO₄ - sulfuric acid (98 percent)

- (4) Fugitive emission rates are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) No more than two pyrolysis furnaces shall be decoked at any one time, one furnace to Decoke Drum EPN 1009 and one furnace to Decoke Drum EPN 1063.
 - * Emission rates are based on and the facilities are limited by the following maximum operating schedule:

 Hrs/year 8,760

Dated
