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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		Aiı	Contaminant	Emission Rates *		
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY	
Pretreater No. 3						
27FUG_001	PTR3 Fugitives (4)		VOC	0.20	0.80	
Sulfur Recovery Unit						
32STK_001	SRU2/3 Thermal Oxidizer	H ₂ S	CO 0.75 NO _X PM ₁₀ SO ₂ VOC	28.90 3.28 13.50 0.60 128.00 0.30	126.60 47.30 2.10 560.60 1.20	
32VNT_002	SRU2/3 No. 2 Vent (5)		CO COS CS_2 H_2S PM_{10} SO_2	36.80 7.70 0.80 1.05 0.10 0.10		
32VNT_003	SRU2/3 No. 3 Vent (5)		CO COS CS ₂ H ₂ S PM ₁₀ SO ₂	36.80 7.70 0.80 1.05 0.10 0.10		
32VNT_002 and 32VNT_003	SRU2/3 No. 2 Vent and SRU2/3 No. 3 Vent (5)		CO COS CS ₂ H ₂ S PM ₁₀ SO ₂		10.68 1.79 0.13 0.38 0.02 0.02	

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Emission *	Source	Air Contaminant	<u>Emission</u>	Rates
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY
30VNT_003	SRU1 Sulfur Pit (5)	H ₂ S SO ₂	0.04 1.67	0.01 0.28
32VNT_005	SRU2/3 Sulfur Truck Loadin	g (5) H ₂ S SO ₂	0.03 1.29	<0.01 0.11
32FUG_001	SRU 2/3 Fugitives (4)	H_2S NH_3 SO_2 VOC	0.31 0.02 0.028 0.927	1.086 0.10 0.106 4.068
30FUG_001	SRU 1 Fugitives (4)	H ₂ S SO ₂	1.71 1.79	7.51 7.82
Crude Unit B				
05STK_001	Crude B Atm. Heater H-310: Stack	1 CO NO _X PM ₁₀ SO ₂ VOC	58.16 94.32 4.72 22.01 1.10	106.15 344.27 17.50 40.16 4.02
05STK_002	Crude B Vacuum Heater H-3102 Stack	CO NO_X PM_{10} SO_2 VOC	11.01 17.90 0.80 4.00 0.40	8.20 62.50 2.70 13.90 1.50
05STK_004	Crude B Heater H-2001 Stack	CO NO_X PM_{10} SO_2 VOC	8.80 14.40 0.60 3.20 0.40	6.60 50.60 2.20 11.20 1.20

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Emission	Source	Air Contaminant	<u>Emission</u>	n Rates
<u>*</u> Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
	riame (2)		,	
05FUG_001	Crude B Fugitives (4)	VOC	2.44	10.57
<u>Hydrocracker</u>				
20STK_001	HDC First Stage West Furn H-3301 Stack	ace CO NO_X PM_{10} SO_2 VOC	0.11 1.36 0.18 0.99 0.09	0.36 4.38 0.59 1.53 0.30
20STK_002	HDC First Stage East Furna H-3302 Stack	ace CO NO_X PM_{10} SO_2 VOC	0.40 3.00 0.13 0.73 0.08	1.60 12.10 0.50 1.41 0.30
20STK_003	HDC Second Stage Furnac H-3303 Stack	e CO NO_X PM_{10} SO_2 VOC	0.40 3.00 0.13 0.73 0.08	1.60 12.10 0.50 1.41 0.30
20STK_004	HDC Stabilizer Reboiler He H-3304 Stack	ater CO NO _X PM ₁₀ SO ₂ VOC	4.61 11.76 1.18 5.68 0.55	19.56 49.93 4.99 11.65 2.33
20STK_005	HDC Splitter Reboiler H-3305 Stack	CO NO_X PM_{10} SO_2 VOC	0.02 3.75 0.49 2.18 0.20	0.06 14.24 1.85 3.99 0.74

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Emission *	Source	Air Contaminant	<u>Emissior</u>	Rates
- Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
20FUG 001	HDC Fugitives (4)	VOC	0.84	3.72
20F0G_001	HDC Fugitives (4)	VOC	0.64	3.72
Pretreater No. 4				
28STK_001	PTR4 Rx Charge Heater B-7001 (Common Stack with B-7002)	CO NO_X PM_{10} SO_2 VOC	8.88 14.40 0.60 3.36 0.40	31.12 50.46 2.10 5.89 1.20
28STK_001	PTR4 Depen. Reboiler Heater B-7002 (Common Stack with B-7001)	CO NO_X PM_{10} SO_2 VOC	10.73 17.40 0.80 4.06 0.41	37.60 60.97 2.69 7.11 1.52
Reformer No. 4				
28STK_003	PTR4 Reformer Heater B-7101-4 (Common Stack with B-7201)	CO NO_X PM_{10} SO_2 VOC	13.84 105.16 8.76 23.35 1.25	42.91 326.14 27.16 36.12 4.07
28STK_003	PTR4 Debut Reboiler B-7201 (Common Stack with B-7101-4)	CO NO_X PM_{10} SO_2 VOC	0.70 4.90 0.20 1.10 0.10	2.30 17.30 0.80 3.80 0.40
28VNT_001	PTR4 Reactor Regeneration Vent	Cl ₂ CO HCI PM ₁₀	0.40 0.96 0.03 0.01	1.90 4.20 0.10 0.04

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emission</u>	Rates
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY
		SO_2	0.10	0.40
28FUG_001	PTR4 Fugitives (4) (includes Pretreater)	Cl ₂ VOC	0.10 13.84	0.44 60.60
<u>Coker</u>				
04STK_004	Coker Far West Furnace	CO NO_X PM_{10} SO_2 VOC	9.27 13.50 0.84 3.33 0.61	26.64 38.79 2.42 9.57 1.75
04FUG_001	Coker Fugitives (4)	VOC	3.16	13.95
Amine Regeneration	<u>Unit</u>			
18FUG_001	DEA3 Fugitives (4)	H₂S VOC	0.20 0.12	0.70 0.71
Sour Water Stripper L	<u>Jnit</u>			
29FUG_001	SWS Fugitives (4)	H₂S NH₃ VOC	0.01 0.01 0.38	0.10 0.10 1.70
Storage Tanks				
49TFX_0720 Tar	OMCC1 Fixed-Roof nk 720	VOC	7.16	12.03
49TFX_0721 Tar	OMCC1 Fixed-Roof nk 721	VOC	7.16	12.03
49TIF_0782	OMCC1 Int. Floating Roof	VOC	2.68	10.61

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
	Tank 782			
48TEF_1150	Ethyl Ext. Floating Roof Tank 1150	VOC	4.09	15.14
48TEF_1151	Ethyl Ext. Floating Roof Tank 1151	VOC	4.09	15.11
48TEF_1158	Ethyl Ext. Floating Roof Tank 1158	VOC	2.42	7.86
48TEF_1165	Ethyl Ext. Floating Roof Tank 1165	VOC	2.20	9.16
48TEF_1212	Ethyl Ext. Floating Roof Tank 1212	VOC	2.52	8.56
48TEF_1213	Ethyl Ext. Floating Roof Tank 1213	VOC	2.44	8.24
49TEF_1215	OMCC1 Ext. Floating Roof Tank 1215	VOC	3.01	12.94
48TEF_1251	Ethyl Ext. Floating Roof Tank 1251	VOC	2.67	8.30
44TEF_1300	OMCC1 Ext. Floating Roof Tank 1300	VOC	2.67	8.48
49TEF_1314	OMCC1 Ext. Floating Roof Tank 1314	VOC	2.20	9.11
49TEF_1320	OMCC1 Ext. Floating Roof Tank 1320	VOC	2.93	9.38

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
48TEF_1324	Ethyl Ext. Floating Roof Tank 1324	VOC	2.86	10.78
48TEF_1325	Ethyl Ext. Floating Roof Tank 1325	VOC	1.76	7.37
48TEF_1329	Ethyl Ext. Floating Roof Tank 1329	VOC	3.46	9.73
19TEF_1323	Dualayer Ext. Floating Roof Tank 1323	VOC	1.18	5.18
19TEF_1332	Dualayer Ext. Floating Roof Tank 1332	VOC	1.31	7.32
48TEF_1334	Ethyl Ext. Floating Roof Tank 1334	VOC	2.44	7.73
49TEF_1335	OMCC1 Ext. Floating Roof Tank 1335	VOC	2.37	9.07
48TEF_1338	Ethyl Ext. Floating Roof Tank 1338	VOC	2.43	7.73
48TEF_1350	Ethyl Ext. Floating Roof Tank 1350	VOC	2.50	7.65
48TEF_1361	Ethyl Ext. Floating Roof Tank 1361	VOC	1.09	4.78
48TEF_1362	Ethyl Ext. Floating Roof Tank 1362	VOC	3.45	13.93
48TEF_1389	Ethyl Ext. Floating Roof Tank 1389	VOC	3.24	11.72

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${\tt EMISSION} \ \ {\tt SOURCES} \ \ {\tt -} \ \ {\tt MAXIMUM} \ \ {\tt ALLOWABLE} \ \ {\tt EMISSION} \ \ {\tt RATES}$

Emission *	Source	Air Contaminant	<u>Emission</u>	Rates
<u> </u>	Name (2)	Name (3)	lb/hr	TPY
48TEF_1390	Ethyl Ext. Floating Roof Tank 1390	VOC	3.14	11.28
50TEF_2119	OMCC2 Ext. Floating Roof Tank 2119	VOC	4.54	6.91
50TEF_2202	OMCC2 Ext. Floating Roof Tank 2202	VOC	1.65	5.03
50TEF_2209	OMCC2 Ext. Floating Roof Tank 2209	VOC	3.60	5.49
50TEF_2210	OMCC2 Ext. Floating Roof Tank 2210	VOC	3.63	6.52
50TEF_2212	OMCC2 Ext. Floating Roof Tank 2212	VOC	3.63	5.61
50TEF_2213	OMCC2 Ext. Floating Roof Tank 2213	VOC	3.60	5.94
50TEF_2221	OMCC2 Ext. Floating Roof Tank 2221	VOC	2.20	8.61
50TEF_2223	OMCC2 Ext. Floating Roof Tank 2223	VOC	1.82	7.97
50TEF_2225	OMCC2 Ext. Floating Roof Tank 2225	VOC	3.17	5.00
49TEF_1377	OMCC1 Ext. Floating Roof Tank 1377	VOC	1.17	3.71
49TEF_1378	OMCC1 Ext. Floating Roof Tank 1378	VOC	1.15	3.63

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FCC Gasoline Splitter Unit

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Emission	Source	Air Contaminant	<u>Emission</u>	Rates
<u>*</u>				
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY

Fluid Catalytic Cracking Unit (Grandfathered)										
06STK_001	FCC CO Boiler	NO _X PM ₁₀ SO ₂ VOC	CO 984.00 155.00 4610.00 1.74	457.00 2650.00 675.00 12833.75 7.60	2000.00					
20CTL_005	Cooling Tower No. 5		VOC	1.51	6.62					
Petroleum Coke Hand	ling Facility									
04FUG002	Coke Pit (6)		PM ₁₀ PM	0.20 0.42	0.11 0.22					
04FUG003	Stockpile (6)		PM ₁₀	1.07 2.27	0.26 0.54					
04FUG004	Conveyor System 1 (6)		PM ₁₀	0.81 1.71	0.07 0.15					
04FUG005	Conveyor System 2 (6)		PM ₁₀	0.94 1.98	0.08 0.17					
<u>Dualayer Unit</u>										
19CTL_025	Dualayer Cooling Tower N	o. 25	VOC	0.11	0.50					
19FUG_001	Dualayer Fugitives (4)		VOC	6.93	30.34					

Emission <u>*</u>	Source	Air Contaminant	<u>Emission</u>	Rates
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY
66FUG_001	FCC Gasoline Splitter Fugitives (4)	VOC	1.75	7.64
49FUG002	Low Sulfur Gasoline Project Interconnecting Piping Fugitives (4)	t- VOC	1.60	7.03

- (1) Emission point identification either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. 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

CO - carbon monoxide

H₂S - hydrogen sulfide

NO_x - total oxides of nitrogen

PM - particulate matter, suspended in the atmosphere, including PM₁₀

PM₁₀ - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted

SO₂ - sulfur dioxide COS - carbonyl sulfide CS₂ - carbon disulfide

Cl₂ - chlorine

HCl - hydrogen chloride

NH₃ - ammonia

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) The annual emission rate in TPY is based on operating 336 hours/year (rolling annual basis) with the stack burner/thermal oxidizer down.
- (6) The PM emissions include PM_{10} emissions. PM and TSP are considered interchangeable.

Emission schedule:		are	based	on	and	the	facilities	are	limited	by	the	following	maximum	operating
Hrs/day_	Da	ays/\	week		Wee	ks/y	ear	or H	rs/year_	8,7	60			

)ai	ted	