Permit No. 19566

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>	on Rates *
Point No. (1)	Name (2) Name (3)	lb/hr TPY		
Pretreater No. 3	<u>3</u>			
F021	Fugitives (4)	VOC	0.20	0.80
Sulfur Recovery	<u>/ Unit</u>			
056 S01	SRU Stack	PM10 SO2 NOx CO VOC H2S	0.60 128.00 13.50 28.90 0.30 1.90	2.10 560.60 47.30 126.60 1.20 0.16
056 V01	SRU No. 2 Vent (5)	CO H2S COS	26.80 0.80 2.90	4.50 0.20 0.50
056 V02	SRU No. 3 Vent (5)	CO H2S COS	26.80 0.80 2.90	4.50 0.20 0.50
056 V03	Sulfur Pit Vent	H2S SO2	0.01 0.33	<0.01 0.06
056 V04	Sulfur Pit Vent	H2S SO2	0.01 0.33	<0.01 0.06
056 V05	Sulfur Loading Vent	H2S SO2	0.03 1.29	0.05 2.35
F056	Fugitives (4)	SO2	0.01	0.06

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

VOC	0.83	3.61
H2S	0.21	0.94
NH3	0.02	0.09

Emission Point No. (1)	Source Air Name (2) Name (3)	Contaminant <u>Emission</u> lb/hr TPY	Rates *	
Crude Unit B				
006 S01	Heater H-3101	PM10 SO2 NOx CO VOC	4.70 23.90 107.90 14.20 1.30	16.60 83.90 377.90 49.70 4.60
006 S01	Heater H-3102	PM10 SO2 NOx CO VOC	0.80 4.00 17.90 2.30 0.40	2.70 13.90 62.50 8.20 1.50
006 S02	Heater H-2001	PM10 SO2 NOx CO VOC	0.60 3.20 14.40 1.90 0.40	2.20 11.20 50.60 6.60 1.20
F006	Fugitives (4)	VOC	1.10	4.70
<u>Hydrocracker</u>				
035 S01	Heater H-3301	PM10 SO2 NOx CO VOC	0.20 1.10 5.10 0.70 0.10	0.80 4.00 17.90 2.40 0.40

035 S02	Heater H-3302	PM10	0.20	0.50
		SO2	0.80	2.70
		NOx	3.40	12.10
		CO	0.50	1.60
		VOC	0.10	0.30

Emission	Source	Air Contaminant Emission Ra	ates *	
Point No. (1)	Name (2) Name	(3) lb/hr TPY		
035 S03	Heater H-3303	PM10	0.20	0.50
		SO2	0.80	2.70
		NOx	3.40	12.10
		CO	0.50	1.60
		VOC	0.10	0.30
035 S04	Heater H-3304	PM10	1.50	5.10
		SO2	7.40	25.90
		NOx	33.30	116.70
		CO	4.40	15.40
		VOC	0.80	2.90
035 S05	Heater H-3305	PM10	0.30	1.20
		SO2	1.70	5.80
		NOx	7.50	26.30
		CO	1.00	3.50
		VOC	0.20	0.60
035 S06	Heater H-4001	PM10	0.40	1.30
		SO2	1.80	6.40
		NOx	8.20	28.90
		CO	1.10	3.80
		VOC	0.20	0.70

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

F035	Fugitives (4)	VOC	0.60	2.70
Pretreater No. 4				
054 S01 (6)	Heater B-7001	PM10 SO2 NOx CO VOC	0.60 3.20 14.40 1.90 0.40	2.20 11.20 50.50 6.60 1.20
054 S01 (6)	Heater B-7002	PM10 SO2 NOX CO VOC	0.80 3.90 17.40 2.30 0.40	2.70 13.50 61.00 8.00 1.50
Emission	Source Air Contamina			
Point No. (1) Name (2		nt <u>Emission Ra</u> TPY	ales <u>"</u>	
F054	Fugitives (4)	VOC	1.00	4.50
Reformer No. 4				
055 S01 (7)	Heater B-7101-4	PM10 SO2 NOx CO VOC	4.80 24.30 109.40 14.40 1.30	16.80 85.00 383.20 50.50 4.70
055 S01 (7)	Heater B-7201	PM10 SO2 NOX CO VOC	0.20 1.10 4.90 0.70 0.10	0.80 3.80 17.30 2.30 0.40
055 V01	Regenerator Vent	PM10 SO2 CO	0.01 0.10 0.96	0.04 0.40 4.20

Storage Tanks

T0781

T0781

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

		HCI CI2	0.03 0.40	0.10 1.90
F055	Fugitives (4)	VOC	1.00	4.30
<u>Coker</u>				
009 S04	Heater BA-3000	PM10 SO2 NOx CO VOC	0.60 3.00 13.50 1.80 0.30	2.10 10.50 47.30 6.20 1.20
F009	Fugitives (4)	VOC	1.50	6.70
Amine Regeneration Un	it			
F057	Fugitives (4)	VOC H2S	0.10 0.20	0.60 0.70
		AIR CONTAMINA	ANTS DATA	
Emission Point No. (1) Name (2	Source Air Contamina 2) Name (3) lb/hr	nt <u>Emission Rate</u> TPY	<u>9S *</u>	
Sour Water Stripper Unit				
F038	Fugitives (4)	VOC	0.38	1.70

Storage Tank (8)

Storage Tank (9)

NH3

H2S

VOC

VOC

0.01

0.01

6.10

5.09

0.10

0.10

26.70

22.30

T1324

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

T0782	Storage Tank	VOC	5.14	22.50
T1150	Storage Tank (8)	VOC	22.60	99.00
T1150	Storage Tank (9)	VOC	0.59	2.60
T1151	Storage Tank (8)	VOC	22.60	99.00
T1151	Storage Tank (9)	VOC	0.59	2.60
T1158	Storage Tank	VOC	0.59	2.60
T1165	Storage Tank	VOC	0.73	3.20
T1212	Storage Tank	VOC	0.57	2.50
T1213	Storage Tank	VOC	0.68	3.00
T1215	Storage Tank (8)	VOC	28.49	124.80
T1215	Storage Tank (9)	VOC	0.84	3.70
T1300	Storage Tank (8)	VOC	23.68	103.70
T1300	Storage Tank (9)	VOC	0.62	2.70
T1314	Storage Tank (8)	VOC	17.76	77.80
		AIR CONT	AMINANTS DATA	
Emission Point No. (1)	Source Air Conta Name (2) Name (3) lb/		n Rates *	
T1314	Storage Tank (9)	VOC	0.48	2.10
T1320	Storage Tank (8)	VOC	17.76	77.80
T1320	Storage Tank (9)	VOC	0.46	2.00
- 4004			• • •	

VOC

3.80

0.87

Storage Tank

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

T1329	Storage Tank	VOC	0.41	1.80	
T1332	Storage Tank	VOC	0.30	1.30	
T1334	Storage Tank (8)	VOC	21.71	95.10	
T1334	Storage Tank (9)	VOC	0.57	2.50	
T1335	Storage Tank (8)	Storage Tank (8) VOC 26.89			
T1335	Storage Tank (9)	VOC	0.96	4.20	
T1338	Storage Tank	VOC	0.57	2.50	
T1361	Storage Tank	VOC	5.14	22.5	
T1362	Storage Tank (8)	VOC	34.25	150.00	
T1362	Storage Tank (9)	VOC	1.03	4.50	
T2119	Storage Tank	VOC	0.66	2.90	
T2198	Storage Tank (8)	VOC	17.92	78.50	
T2198	Storage Tank (9)	VOC	0.64	2.80	
T2199	Storage Tank (8)	VOC	17.83	78.10	
T2199	Storage Tank (9)	VOC	0.55	2.40	
T2200	Storage Tank (8)	VOC	13.24	58.00	
		AIR CONTA	AMINANTS DATA		
Emission Point No. (1)	Source Air Conta Name (2) Name (3) Ib	aminant <u>Emissio</u> /hr TPY_	1 Rates *		
T2200	Storage Tank (9)	VOC	0.37	1.60	

T2201	Storage Tank (8)	VOC	13.24	58.00
T2201	Storage Tank (9)	VOC	0.37	1.60
T2202	Storage Tank	VOC	0.48	2.10
T2203	Storage Tank (8)	VOC	3.22	14.10
T2203	Storage Tank (9)	VOC	2.58	11.30
T2209	Storage Tank (8)	VOC	26.71	117.00
T2209	Storage Tank (9)	VOC	0.78	3.40
T2210	Storage Tank (8)	VOC	26.71	117.00
T2210	Storage Tank (9)	VOC	0.78	3.40
T2212	Storage Tank (8)	VOC	26.71	117.00
T2212	Storage Tank (9)	VOC	0.78	3.40
T2213	Storage Tank	VOC	0.78	3.40
T2221	Storage Tank (8)	VOC	17.76	77.80
T2221	Storage Tank (9)	VOC	0.48	2.10
T2222	Storage Tank (8)	VOC	17.76	77.80
T2222	Storage Tank (9)	VOC	0.48	2.10
T2223	Storage Tank (8)	VOC	13.33	58.40
T2223	Storage Tank (9)	VOC	0.48	2.10
T2224	Storage Tank	VOC	0.37	1.60

Emission Point No. (1) Nam		aminant <u>Emissior</u> o/hr TPY	n Rates *		
T2225	Storage Tank (8)	VOC	34.11	149.40	
T2225	Storage Tank (9)	VOC	0.89	3.90	
T1377	SWS Storage Tank	VOC	5.31	22.90	
T1378	SWS Storage Tank (8)	VOC	52.03	227.50	
T1378	SWS Storage Tank (9)	VOC	5.31	22.90	
Fluid Catalytic Cracking Unit					
010 S01	CO Boiler	PM10 SO2 NOx CO VOC	155.00 6588.00 984.00 457.00 1.74	675.00 13101.00 2650.00 2000.00 7.60	

- (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) PM10 particulate matter less than 10 microns
 - VOC volatile organic compounds as defined in General Rule 101.1
 - NOx total oxides of nitrogen
 - SO2 sulfur dioxide
 - CO carbon monoxide
 - H2S hydrogen sulfide
 - NH3 ammonia
 - HCI hydrogen chloride
 - Cl2 chlorine
 - COS carbonyl sulfide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) TPY rate is based on operating 336 hours/year (rolling annual basis) with the tail gas incinerator down.

- (6) Heaters B-7001 and B-7002 share a common stack.
- (7) Heaters B-7101-4 and B-7201 share a common stack.
- (8) Emission limit prior to equipping the tank with an internal floating roof (IFR) or equivalent.
- (9) Emission limit after January 1, 1999 or after equipping the tank with an IFR or equivalent, whichever occurs first.

*	Emission rat schedule:		on and the facilit	ies are limited by the fo	llowing maximum oper	ating
	Hrs/day	Days/week	Weeks/year	or Hrs/year 8,760		

Revised___