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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.

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	<u>Emissio</u>	n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
Pretreater No. 3				
F021	Fugitives (4)	VOC	0.20	0.80
Sulfur Recovery Unit				
056 S01	SRU Stack	$\begin{array}{c} PM_{10} \\ SO_2 \\ NO_x \\ CO \\ VOC \\ H_2 S \end{array}$	0.60 128.00 13.50 28.90 0.30 0.75	2.10 560.60 47.30 126.60 1.20 3.28
056 V01	SRU No. 2 Vent (5)	CO H_2S COS SO_2 PM_{10} CS_2	36.80 1.05 7.70 0.10 0.10 0.80	
056 V02	SRU No. 3 Vent (5)	CO H_2S COS SO_2 PM_{10} CS_2	36.80 1.05 7.70 0.10 0.10 0.80	

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Emission	Source	AIR CONTA Air Contaminant	MINANTS DA Emissic	ATA on Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
056 V01 and 056 V02	SRU No. 2 Vent and SRU No. 3 Vent (5)	CO H_2S COS SO_2 PM CS_2		10.68 0.38 1.79 0.02 0.02 0.13
056 V03	Sulfur Pit Vent (5)	H_2S SO_2	0.04 1.67	0.01 0.28
056 V05	Sulfur Loading Vent (5)	H ₂ S SO ₂	0.03 1.29	<0.01 0.11
F056	SRU 2/3 Fugitives (4)	SO_2 VOC H_2S NH_3	0.02 0.92 0.24 0.02	0.07 4.04 1.05 0.10
0124-G1	SRU 1 Fugitives (4)	SO ₂ H ₂ S	1.79 1.71	7.82 7.51
Crude Unit B				
006 S01	Heater H-3101	PM_{10} SO_2 NO_x CO VOC	4.70 23.90 107.90 14.20 1.30	16.60 83.90 377.90 49.70 4.60
006 S02	Heater H-3102	PM_{10} SO_2 NO_x CO VOC	0.80 4.00 17.90 2.30 0.40	2.70 13.90 62.50 8.20 1.50

		AIR CONTAMINANTS DATA			
Emission	Source	Air Contaminant	<u>Emissio</u> ı	n Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY	
006 S04	Heater H-2001	PM ₁₀ SO ₂ NO _x 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	$\begin{array}{c} PM_{10} \\ SO_2 \\ NO_{x} \\ CO \\ VOC \end{array}$	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	$\begin{array}{c} PM_{10} \\ SO_2 \\ NO_{x} \\ CO \\ VOC \end{array}$	0.20 0.80 3.40 0.50 0.10	0.50 2.70 12.10 1.60 0.30	
035 S03	Heater H-3303	PM_{10} SO_2 NO_x CO VOC	0.20 0.80 3.40 0.50 0.10	0.50 2.70 12.10 1.60 0.30	
035 S04	Heater H-3304	$\begin{array}{c} PM_{10} \\ SO_2 \\ NO_x \\ CO \\ VOC \end{array}$	1.50 7.40 33.30 4.40 0.80	5.10 25.90 116.70 15.40 2.90	

		AIR CONTAM	IINANTS DA	ATA
Emission	Source	Air Contaminant	<u>Emissic</u>	n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
035 S05	Heater H-3305	PM ₁₀ SO ₂	0.30 1.70	1.20 5.80
		NO_x	7.50	26.30
		CO	1.00	3.50
		VOC	0.20	0.60
F035	Fugitives (4)	VOC	0.60	2.70
Pretreater No. 4				
054 S01 (6)	Heater B-7001	PM_{10} SO_2 NO_x	0.60 3.20 14.40	2.20 11.20 50.50
		CO	1.90	6.60
		VOC	0.40	1.20
054 S01 (6)	Heater B-7002	$\begin{array}{c} PM_{10} \\ SO_2 \\ NO_x \\ CO \\ VOC \end{array}$	0.80 3.90 17.40 2.30 0.40	2.70 13.50 61.00 8.00 1.50
Reformer No. 4				
055 S01 (7)	Heater B-7101-4	PM_{10} SO_2 NO_x CO VOC	11.80 24.30 109.40 14.40 1.30	47.80 85.00 383.20 50.50 4.70
055 S01 (7)	Heater B-7201	PM_{10} SO_2 NO_x CO VOC	0.20 1.10 4.90 0.70 0.10	0.80 3.80 17.30 2.30 0.40

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		AIR CONTAMINANTS DATA		
Emission	Source	Air Contaminant	<u>Emissio</u>	n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
055 V01	Regenerator Vent	$\begin{array}{c} PM_{10} \\ SO_2 \\ CO \\ HCI \\ CI_2 \end{array}$	0.01 0.10 0.96 0.03 0.40	0.04 0.40 4.20 0.10 1.90
F055	Fugitives (4)	VOC	1.00	4.30
<u>Coker</u>				
009 S04	Heater BA-3000	$\begin{array}{c} PM_{10} \\ SO_2 \\ NO_x \\ CO \\ VOC \end{array}$	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 U	<u>nit</u>			
F057	Fugitives (4)	VOC H₂S	0.10 0.20	0.60 0.70
Sour Water Stripper Ur	<u>nit</u>			
F038	Fugitives (4)	VOC NH₃ H₂S	0.38 0.01 0.01	1.70 0.10 0.10
Storage Tanks				
T0781	Storage Tank (8)	VOC	6.10	26.70
T0781	Storage Tank (9)	VOC	5.09	22.30
T0782	Storage Tank	VOC	5.14	22.50

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		AIR CONTAMINANTS DATA		
Emission	Source	Air Contaminant	<u>Emissic</u>	n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
T1150	Storage Tank (9)	VOC	0.59	2.60
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 (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 (9)	VOC	0.48	2.10
T1320	Storage Tank (9)	VOC	0.46	2.00
T1324	Storage Tank	VOC	0.87	3.80
T1329	Storage Tank	VOC	0.41	1.80
T1332	Storage Tank	VOC	0.30	1.30
T1334	Storage Tank (9)	VOC	0.57	2.50
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

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		AIR CONTAMINANTS DATA		
Emission	Source	Air Contaminant	<u>Emissic</u>	n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
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
T2200	Storage Tank (9)	VOC	0.37	1.60
T2202	Storage Tank	VOC	0.48	2.10
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 (9)	VOC	0.78	3.40
T2213	Storage Tank	VOC	0.78	3.40
T2221	Storage Tank (9)	VOC	0.48	2.10
T2222 T2222	Storage Tank (8) Storage Tank (9)	VOC VOC	17.76 0.48	77.80 2.10

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		AIR CON I	ONTAMINANTS DATA		
Emission	Source	Air Contaminant	<u>Emiss</u>	ion Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY	
		, ,			_
T2223	Storage Tank (8)	VOC	13.33	58.40	
T2223	Storage Tank (9)	VOC	0.48	2.10	
	(1)				
T2225	Storage Tank (8)	VOC	34.11	149.40	
T2225	Storage Tank (9)	VOC	0.89	3.90	
	C (,				
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 Crackir	ng Unit				
010 S01	CO Boiler	PM_{10}	155.00	675.00	
010 001	OO DOIICI	SO_2	6588.00	13101.00	
		NO _x	984.00	2650.00	
		CO	457.00	2000.00	
		VOC	1.74	7.60	

- Emission point identification either specific equipment designation or emission point number (1) from plot plan.
- Specific point source name. For fugitive sources use area name or fugitive source name. (2)
- PM₁₀ particulate matter less than 10 microns
 - VOC volatile organic compounds as defined in General Rule 101.1
 - NO_x total oxides of nitrogen
 - sulfur dioxide SO_2
 - carbon monoxide CO
 - H₂S hydrogen sulfide
 - NH₃ ammonia
 - HCl hydrogen chloride
 - chlorine Cl_2
 - COS carbonyl sulfide
 - CS₂ carbon disulfide

- (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 stack burner/thermal oxidizer 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 rates are based on and the facilities are limited by the following maximum operating

schedule:

Hrs/day___Days/week___Weeks/year___or Hrs/year_<u>8,760</u>

Dated			