#### Permit Number 3295

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	nt <u>Emission Rat</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
TK-1	Tank 1	VOC	0.22	0.96
TK-2	Tank 2	VOC	1.40	4.02
TK-4	Tank 4	VOC	0.66	2.89
TK-7	Tank 7	VOC	0.04	0.07
TK-8	Tank 8	NaOH	0.11	0.02
TK-9	Tank 9	NaHS	0.06	0.02
TK-11	Tank 11	VOC	0.69	0.41
TK-12	Tank 12	VOC	0.69	0.41
TK-13	Tank 13	VOC	0.69	0.41
TK-14	Tank 14	VOC	0.69	0.41
TK-40	Tank 40	VOC	0.36	1.59
TK-41	Tank 41	VOC	0.36	1.60
TK-48	Tank 48	VOC	0.42	1.83
TK-52	Tank 52	VOC	5.02	8.26
TK-54	Tank 54	VOC	0.99	4.30

Emission	Source	Air Contaminant	Emission	n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
TK-55 TK-56	Tank 55 Tank 56	VOC VOC	1.7 1.2	4.66 3.53
TK-57	Tank 57	VOC	1.38	6.03
TK-61	Tank 61	VOC	1.38	6.03
TK-62	Tank 62	VOC	1.01	1.40
TK-63	Tank 63	VOC	0.65	0.94
TK-64	Tank 64	VOC	1.11	4.51
TK-65	Tank 65	VOC	0.12	1.49
TK-66	Tank 66	VOC	0.91	3.98
TK-67	Tank 67	NaOH	<0.01	<0.01
TK-68	Tank 68	NaHS	<0.01	<0.01
H-110	T-1- Reboiler	PM SO <sub>2</sub> NO <sub>x</sub> CO VOC	0.01 0.04 0.15 0.13 0.01	0.05 0.16 0.67 0.56 0.04
H-2	Hex Treater Preheater	PM SO <sub>2</sub> NO <sub>x</sub> CO VOC	0.02 0.07 0.31 0.26 0.02	0.10 0.33 1.34 1.13 0.07
H-111	T-11 Reboiler	PM SO <sub>2</sub>	0.01 0.04	0.05 0.16

Emission	Source	Air Contaminant	Emission	
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
		NO <sub>x</sub> CO VOC	0.15 0.13 0.01	0.67 0.56 0.04
F-3/F-4	Aromax Reactor Preheater	PM SO <sub>2</sub> NO <sub>x</sub> CO VOC	0.02 0.07 0.29 0.25 0.02	0.10 0.33 1.29 1.08 0.07
H-1	HDS Preheater	$PM$ $SO_2$ $NO_x$ $CO$ $VOC$	0.09 0.34 1.23 1.03 0.07	0.41 1.47 5.37 4.51 0.30
H-3	Hot Oil Heater	PM SO <sub>2</sub> NO <sub>x</sub> CO VOC	0.12 0.43 1.58 1.33 0.09	0.53 1.88 6.92 5.82 0.38
B-1	Boiler	PM SO <sub>2</sub> NO <sub>x</sub> CO VOC	0.18 0.21 1.80 0.65 0.04	0.33 0.90 3.38 2.84 0.19
H-108	T-3 Reboiler	$PM$ $SO_2$ $NO_x$	0.01 0.04 0.12	0.04 0.16 0.54

Emission	Source	Air Contaminant	Emissior	n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
		CO VOC	0.10 0.01	0.45 0.03
H-105	T-17 Reboiler	PM SO <sub>2</sub> NO <sub>x</sub> CO VOC	<0.01 0.02 0.06 0.05 <0.01	0.02 0.08 0.27 0.22 0.02
H-107	T-9 Reboiler	PM SO <sub>2</sub> NO <sub>x</sub> CO VOC	0.02 0.07 0.28 0.24 0.02	0.09 0.33 1.24 1.04 0.07
H-101	T-15 Reboiler	PM SO <sub>2</sub> NO <sub>x</sub> CO VOC	0.17 0.60 2.25 1.90 0.12	0.75 2.62 9.88 8.30 0.54
H-102	T-16 Reboiler	PM SO <sub>2</sub> NO <sub>x</sub> CO VOC	0.31 0.36 3.12 1.13 0.07	0.59 1.55 5.90 4.96 0.32
H-103	Hot Oil Heater	PM SO <sub>2</sub> NO <sub>x</sub> CO	0.31 0.36 3.12 1.13	0.59 1.55 5.90 4.96
RH-1	Reformer Reactor Preheater	VOC PM SO <sub>2</sub> NO <sub>x</sub>	0.07 0.11 0.39 1.47	0.32 0.49 1.72 6.44

Emission	Source	Air Contaminant	Emission	
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
		CO VOC	1.23 0.08	5.41 0.35
RH-2	Reformer Reactor Preheater	PM SO <sub>2</sub> NO <sub>x</sub> CO VOC	0.07 0.26 0.98 0.82 0.05	0.33 1.15 4.29 3.61 0.24
RH-3	Reformer Reactor Preheater	PM SO <sub>2</sub> NO <sub>x</sub> CO VOC	0.04 0.13 0.49 0.41 0.03	0.16 0.57 2.15 1.80 0.12
H-104	T-4 Reboiler	PM SO <sub>2</sub> NO <sub>x</sub> CO VOC	0.06 0.21 0.73 0.62 0.04	0.24 0.90 3.22 2.70 0.18
F-1	Aromax Reactor Preheater	PM SO <sub>2</sub> NO <sub>x</sub> CO VOC	0.05 0.17 0.61 0.52 0.03	0.20 0.74 2.69 2.26 0.15
H-106	T-8 Reboiler	PM SO <sub>2</sub> NO <sub>x</sub> CO VOC	0.02 0.07 0.31 0.26 0.02	0.10 0.33 1.34 1.13 0.07
F-2	Aromax Reactor Preheater	PM SO <sub>2</sub> 0.74	0.05	0.20 0.17
		$NO_x$	0.61	2.69

Emission	Source	Air	Contaminant	Emission	Rates *
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY
			CO VOC	0.52 0.03	2.26 0.15
H-113	AA HDS Preheater		PM SO <sub>2</sub>	0.09	0.41 0.34
	1.47		NO <sub>x</sub> CO VOC	1.23 1.03 0.07	5.37 4.51 0.30
H-109	Sieve Regeneration Heater		PM SO <sub>2</sub> NO <sub>x</sub> CO VOC	<0.01 0.02 0.06 0.05 <0.01	0.02 0.08 0.27 0.22 0.02
H-116		6O2 1Ox	PM 0.17 0.61 CO VOC	0.05 0.74 2.68 0.52 0.03	0.20 2.26 0.15
H-117		6O <sub>2</sub> NO <sub>x</sub>	PM 0.17 0.61 CO VOC	0.05 0.74 2.68 0.52 0.03	0.20 2.26 0.15
H-118		SO <sub>2</sub> NO <sub>x</sub>	PM 0.544 2.70 CO VOC	0.16 2.32 11.50 1.69 0.11	0.65 7.18 0.47

Emission	Source	Aiı	<sup>r</sup> Contaminant	Emission	Rates *
Point No. (1)	Name (2)		Name (3)	lb/hr	<u>TPY</u>
H-213	T-21 Reboiler	SO <sub>2</sub> NO <sub>x</sub>	PM 0.34 0.61 CO	0.09 1.47 2.68 1.03	0.41 4.51
			VOC	0.07	0.30
H-243	T-24 Reboiler	SO <sub>2</sub> NO <sub>x</sub>	PM 0.34 0.61	0.09 1.47 2.68	0.41
			CO VOC	1.03 0.07	4.51 0.30
H-253	T-25 Reboiler	SO <sub>2</sub> NO <sub>x</sub>	PM 0.17 0.61	0.05 0.74 2.68	0.20
		110%	CO VOC	0.52 0.03	2.26 0.15
H-263	T-26 Reboiler	SO <sub>2</sub> NO <sub>x</sub>	PM 0.34 0.61	0.09 1.47 2.68	0.41
			CO VOC	1.03 0.07	4.51 0.30
H-283	T-28 Reboiler		PM SO <sub>2</sub> NO <sub>x</sub> CO VOC	0.05 0.17 0.61 0.52 0.03	0.20 0.74 2.68 2.26 0.15
H-293	T-29 Reboiler		PM SO <sub>2</sub> NO <sub>x</sub> CO VOC	0.05 0.17 0.61 0.52 0.03	0.20 0.74 2.68 2.26 0.15

#### AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission	ı Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
F-10	Flare	NO <sub>x</sub> CO VOC	0.41 2.94 5.99	1.12 7.89 15.19
DR-1	Drum Filling	VOC	2.20	1.08
FUG	Fugitives (4)	VOC	3.09	13.50

(1) Emission point identification - either specific equipment designation or emission point number from a

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 Title 30 Texas Administrative Code § 101.1

NO<sub>x</sub> - total oxides of nitrogen

SO<sub>2</sub> - sulfur dioxide

PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>.

 $PM_{10}\,$  - particulate matter 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 in emitted.

CO - carbon monoxide NaOH - sodium hydroxide NaHS - sodium hydrosulfide

(4) Fugitive emissions are an estimate only and should not be considered as maximum allowable emission

rates.

(5) The total emission of hazardous air pollutants (HAPs), as defined in 40 CFR Part 61 and 40 CFR Part 63, from all sources at the site of this permit (TCEQ Account No. HF-0017-K) shall be limited to a maximum of 10 tpy of any single HAP and a maximum of 25 tpy for all HAPs combined.

Ξm	ission	Source	Air Contaminant	<u>Emissior</u>	n Rates *
⊃oi	nt No. (1)	Name (2)	Name (3)	lb/hr	TPY
*	Emission ra	ates are based on and	the facilities are limited by the following	g maximu	m operating
	Hrs/day	_ Days/week We	ks/year or Hrs/year <u>8,760</u>		
			Date	d Janua	arv 24. 2005