Permit No. 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	Emission F	Rates *
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	4.00
TK-4	Tank 4	VOC	0.66	2.89
TK-7	Tank 7	VOC	3.12	0.27
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

Emission	Source	Air Contaminant	<u>Emission</u>	Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
TK-14	Tank 14	VOC	3.20	0.56
TK-40	Tank 40	VOC	0.36	1.56
TK-41	Tank 41	VOC	0.36	1.56
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
TK-55	Tank 55	VOC	1.7	4.66
TK-56	Tank 56	VOC	1.2	3.53
TK-57	Tank 57	VOC	1.37	5.98
TK-61	Tank 61	VOC	1.37	5.87
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 ₂ NO _X CO VOC	<0.01 <0.04 0.20 0.05 <0.01	0.02 <0.01 0.88 0.22 0.02

Emission	Source	Air Contaminant	<u>Emissio</u>	n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
H-2	Hex Treater Preheater	PM SO ₂	<0.01 0.08	0.04 <0.01
		NO _X	0.40	1.77
		CO	0.10	0.44
		VOC	<0.01	0.04
H-111	T-11 Reboiler	PM	<0.01	0.02
		SO_2	0.04	<0.01
		NO_X	0.20	0.88
		CO	0.05	0.22
		VOC	<0.01	0.02
F-3/F-4	Aromatic Reactor Preheater	PM	< 0.01	0.02
		SO_2	0.05	<0.01
		NO_X	0.24	1.06
		CO	0.06	0.26
		VOC	<0.01	0.02
H-1	HDS Preheater	PM	0.04	0.15
		SO_2	0.31	0.03
		NO _X	1.61	7.06
		CO	0.40	1.77
		VOC	0.03	0.14
H3	Hot Oil Heater	PM	0.04	0.20
		SO_2	0.40	0.04
		NO _X	2.08	9.11
		CO	0.52	2.28
		VOC	0.04	0.18
B-1	Boiler	PM	0.04	0.18
		SO_2	0.37	0.04
		NOx	1.94	8.48
		CO	0.48	2.12
		VOC	0.04	0.17

Emission	Source	Air Contaminant	<u>Emissio</u>	n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
H-108	T-3 Reboiler	PM SO ₂ NO _X CO VOC	<0.01 0.03 0.16 0.04 <0.01	0.02 <0.01 0.71 0.18 0.01
H-105	T-17 Reboiler	PM SO ₂ NO _X CO VOC	<0.01 0.03 0.16 0.04 <0.01	0.02 <0.01 0.71 0.18 0.01
H-107	T-9 Reboiler	PM SO ₂ NO _X CO VOC	0.01 0.07 0.37 0.09 0.01	0.04 0.01 1.62 0.41 0.03
H-101	T-15 Reboiler	PM SO ₂ NO _X CO VOC	0.06 0.57 2.97 0.74 0.07	0.28 0.06 13.00 3.25 0.29
H-102	T-16 Reboiler	PM SO ₂ NO _X CO VOC	0.04 0.34 1.78 0.44 0.04	0.17 0.03 7.77 1.94 0.16
H-103	Hot Oil Heater	PM SO ₂ NO _X CO VOC	0.04 0.35 1.77 0.45 0.04	0.17 0.04 7.77 1.94 0.16

Emission	Source	Air Contaminant	<u>Emission</u>	Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
				_
RH-1	Reformer Reactor Preheater	PM	0.04	0.17
		SO_2	0.35	0.04
		NO _X	1.84	8.05
		CO	0.46	2.01
		VOC	0.04	0.16
RH-2	Reformer Reactor Preheater	PM	0.03	0.12
		SO_2	0.25	0.03
		NO _X	1.26	5.51
		CO	0.32	1.38
		VOC	0.03	0.11
RH-3	Reformer Reactor Preheater	PM	0.02	0.06
		SO_2	0.13	0.02
		NO_X	0.65	2.83
		CO	0.16	0.71
		VOC	0.02	0.06
H-104	T-4 Reboiler	PM	0.02	0.08
		SO_2	0.16	0.02
		NO_X	0.81	3.53
		CO	0.21	0.88
		VOC	0.02	0.07
F-1	Aromax Reactor Preheater	PM	0.04	0.15
		SO_2	0.30	0.03
		NO_X	1.53	6.71
		CO	0.39	1.68
		VOC	0.04	0.13
H-106	T-8 Reboiler	PM	0.01	0.04
		SO ₂	0.08	0.01
		NO _X	0.41	1.77
		co	0.11	0.44
		VOC	0.01	0.04

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	<u>Emissio</u>	n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
F-2	Aromax Reactor Preheater	PM SO ₂ NO _X CO VOC	0.02 0.13 0.65 0.17 0.02	0.07 0.02 2.83 0.71 0.06
H-113	T-13 Reboiler	PM SO ₂ NO _x CO VOC	0.04 0.31 1.61 0.40 0.03	0.15 0.03 7.06 1.77 0.14
H-109	Sieve Regeneration Heater	PM SO ₂ NO _X CO VOC	<0.01 0.02 0.08 0.02 <0.01	<0.01 <0.01 0.35 0.09 0.01
F-10	Flare	NO _x CO VOC	0.10 0.10 0.95	0.40 0.40 0.61
DR-1	Drum Filling	VOC	1.60	0.40
FUG	Fugitives (4)	VOC	8.81	38.7

(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

SO₂ - sulfur dioxide

- particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not

Emission	Source	Air Contaminant	Emission Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr TPY
CO NaOH	- carbon monoxide - sodium hydroxide		listed, it shall be assumed that no PM greater than 10 microns is emitted.
NaHS (4) Fugitive emiss		e mate only and should not be considere	ed as maximum allowable
* Emi sched		on and the facilities are limited by the f	ollowing maximum operating
Hrs/day	Days/week \	eeks/year or Hrs/year <u>8,760</u>	
		Dated	