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.

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emissio</u> lb/hr	n Rates * TPY**
B-1	Boiler	CO NO _x PM ₁₀ SO ₂ VOC	0.58 0.69 0.05 0.19 0.04	2.52 3.00 0.23 0.81 0.17
DR-1	Drum Filling	VOC	16.86	2.77
F-1	Aromax Reactor Preheator	CO NO_x PM_{10} SO_2 VOC	0.48 0.57 0.04 0.16 0.03	2.10 2.50 0.19 0.68 0.14
F-2	Aromax Reactor Preheator	CO NO_x PM_{10} SO_2 VOC	0.48 0.57 0.04 0.16 0.03	2.10 2.50 0.19 0.68 0.14
F-3	Aromax F-3	CO NO _x PM ₁₀ SO ₂ VOC	0.21 0.25 0.02 0.07 0.01	0.90 1.10 0.08 0.29 0.06
F-4	Aromax F-4	CO NO_x PM_{10} SO_2	0.21 0.25 0.02 0.07	0.90 1.10 0.08 0.29

		VOC	0.01	0.06
F-10	Flare	CO NO _x SO ₂ VOC	14.36 2.05 0.01 39.91	8.47 1.42 0.01 12.88
MAINFUG	Main Plant Truck Loading Fugitives (4)	VOC	76.60	18.11
H-1	HDS Preheater	CO NO_x PM_{10} SO_2 VOC	0.77 0.91 0.07 0.25 0.05	3.36 4.00 0.30 1.08 0.22
H-2	Hex Treater Preheater	CO NO_x PM_{10} SO_2 VOC	0.14 0.17 0.01 0.05 0.01	0.63 0.74 0.06 0.02 0.04
H-3	Hot Oil Heater	CO NO_x PM_{10} SO_2 VOC	0.98 1.17 0.09 0.32 0.06	4.29 5.10 0.39 1.38 0.28
H-101	T-15 Reboiler	CO NO_x PM_{10} SO_2 VOC	1.38 1.64 0.13 0.45 0.09	6.05 7.20 0.55 1.95 0.40
H-102	T-16 Reboiler	CO NO_x PM_{10} SO_2 VOC	1.15 1.40 0.10 0.37 0.08	5.05 6.03 0.46 1.62 0.33
H-103	Hot Oil Heater	CO NO _x	0.86 4.50	3.78 4.50

		PM ₁₀ SO ₂ VOC	0.34 1.22 0.25	0.34 1.22 0.25
H-104	T-4 Reboiler	CO NO_x PM_{10} SO_2 VOC	0.38 0.46 0.03 0.12 0.03	1.68 2.00 0.15 0.54 0.11
H-105	T-17 Reboiler	CO NO_x PM_{10} SO_2 VOC	0.05 0.06 0.01 0.02 0.01	0.22 0.27 0.02 0.08 0.02
H-106	T-8 Reboiler	CO NO_x PM_{10} SO_2 VOC	0.26 0.31 0.02 0.07 0.02	1.13 1.34 0.10 0.33 0.07
H-107	T-9 Reboiler	CO NO _x PM ₁₀ SO ₂ VOC	0.19 0.13 0.02 0.06 0.01	0.84 1.00 0.08 0.27 0.06
H-108	T-3 Reboiler/ T-27 Reboiler	CO NO_x PM_{10} SO_2 VOC	0.16 0.20 0.01 0.05 0.01	0.72 0.88 0.07 0.23 0.05
H-109	Sieve Regeneration Heater	CO NO _x PM ₁₀ SO ₂ VOC	0.05 0.06 0.01 0.02 0.01	0.22 0.27 0.02 0.08 0.02

H-110	T-1 Reboiler	CO NO_x PM_{10} SO_2 VOC	0.13 0.15 0.01 0.04 0.01	0.56 0.67 0.05 0.16 0.04
H-111	T-11 Reboiler	CO NO_x PM_{10} SO_2 VOC	0.13 0.15 0.01 0.04 0.01	0.56 0.67 0.05 0.16 0.04
H-113	AA HDS Preheater	CO NO_x PM_{10} SO_2 VOC	0.77 0.91 0.07 0.25 0.05	3.36 4.00 0.30 1.08 0.22
H-116	T-13 Reboiler	CO NO_x PM_{10} SO_2 VOC	0.38 0.46 0.03 0.12 0.03	1.68 2.00 0.15 0.54 0.11
H-117	AA Hydrogenation Preheater	CO NO_x PM_{10} SO_2 VOC	0.38 0.46 0.03 0.12 0.03	1.68 2.00 0.15 0.54 0.11
H-118	T-30 Reboiler	CO NO_x PM_{10} SO_2 VOC	1.28 2.29 0.12 0.41 0.08	5.52 9.00 0.51 1.81 0.37
H-213	T-21 Reboiler	CO NO_x PM_{10} SO_2	0.77 0.46 0.07 0.25	3.37 2.00 0.30 1.09

		VOC	0.05	0.22
H-243	T-24 Reboiler	CO NO_x PM_{10} SO_2 VOC	1.03 0.61 0.09 0.34 0.07	4.51 2.68 0.41 1.09 0.30
H-253	T-25 Reboiler	CO NO_x PM_{10} SO_2 VOC	0.38 0.46 0.03 0.12 0.03	1.68 2.00 0.15 0.54 0.11
H-263	T-26 Reboiler	CO NO_x PM_{10} SO_2 VOC	0.77 0.46 0.07 0.25 0.05	3.37 2.00 0.30 1.09 0.22
H-283	T-28 Reboiler	CO NO_x PM_{10} SO_2 VOC	0.82 0.49 0.07 0.26 0.05	3.57 2.13 0.32 1.15 0.22
H-293	T-29 Reboiler	CO NO _x PM ₁₀ SO ₂ VOC	0.66 0.79 0.06 0.21 0.04	2.89 3.44 0.26 0.93 0.19
H-323	T-32 Reboiler	CO NO_x PM_{10} SO_2 VOC	0.74 0.88 0.07 0.24 0.05	3.25 3.86 0.29 1.05 0.21
H-343	T-34 Reboiler	CO NO _x	0.58 0.07	2.52 3.07

		PM ₁₀ SO ₂ VOC	0.05 0.18 0.04	0.23 0.81 0.17
H-353	T-35 Reboiler	CO NO_x PM_{10} SO_2 VOC	1.32 1.60 0.12 0.42 0.09	5.77 7.01 0.52 1.85 0.38
H-383	T-38 Reboiler	CO NO_x PM_{10} SO_2 VOC	0.82 1.00 0.07 0.26 0.05	3.61 4.38 0.33 1.16 0.24
H-403	T-40 Reboiler	CO NO_x PM_{10} SO_2 VOC	2.22 2.70 0.20 0.71 0.15	9.74 11.83 0.88 3.12 0.64
H-423	T-42 Reboiler	CO NO_x PM_{10} SO_2 VOC	0.45 0.55 0.04 0.15 0.03	1.98 2.41 0.18 0.64 0.13
H-433	T-43 Reboiler	CO NO_x PM_{10} SO_2 VOC	0.91 1.10 0.08 0.29 0.06	3.97 4.82 0.36 1.27 0.26
H-700	HDS Heater	CO NO_x PM_{10} SO_2 VOC	1.73 2.10 0.16 0.55 0.11	7.57 9.20 0.69 2.43 0.50

RH-1	Reformer Reactor Preheater	CO NO_x PM_{10} SO_2 VOC	1.65 2.00 0.15 0.53 0.11	7.21 8.76 0.65 2.31 0.47
RH-2	Reformer Reactor Preheater	CO NO_x PM_{10} SO_2 VOC	0.82 1.00 0.07 0.26 0.05	3.61 4.38 0.33 1.16 0.24
RH-3	Reformer Reactor Preheater	CO NO_x PM_{10} SO_2 VOC	0.66 0.80 0.06 0.21 0.04	2.89 3.50 0.26 0.92 0.19
TK-1	Tank 1	VOC	0.28	1.22
TK-2	Tank 2	VOC	1.40	1.00
TK-4	Tank 4	VOC	0.66	2.89
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	0.19
TK-41	Tank 41	VOC	0.36	0.21
TK-48	Tank 48	VOC	0.42	1.83

TK-52	Tank 52	VOC	5.02	3.00
TK-55	Tank 55	VOC	1.70	2.00
TK-56	Tank 56	VOC	1.20	2.20
TK-57	Tank 57	VOC	1.13	4.69
TK-61	Tank 61	VOC	1.15	4.76
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	1.00
TK-65	Tank 65	VOC	0.12	0.53
TK-66	Tank 66	VOC	0.91	3.98
TK-67	Tank 67	NaOH	0.01	0.01
TK-68	Tank 67	NaHS	0.01	0.01
WESTFUG	West Plant Truck Loading Losses	VOC	0.19	0.07
FUG	Process Fugitives (4)	VOC	4.30	18.83

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

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

PM₁₀ - particulate matter equal to or less than 10 microns in diameter

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

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

⁽²⁾ Specific point source names. For fugitive sources, use an area name or fugitive source name.

⁽³⁾ VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

- * Emission rates are based on and the facilities are limited by the following maximum operating schedule:
 - 24 Hrs/day 7 Days/week 52 Weeks/year or 8,760 Hrs/year
- ** Compliance with annual emission limits is based on a rolling 12-month period.

Dated July 5, 2010