Permit Number 4005

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	Rates *
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY (5)
1	Scrubber System (Scrubber Nos. 1 and 2)		VOC CH ₂ O HCI COS	<0.01 0.03 <0.01 0.006	0.02 0.018 <0.01 0.001
2	Flare		VOC EO Naphthalene MeOH PO Xylene	4.70 1.37 <0.01 <0.01 1.46 <0.01	1.20 0.18 <0.01 <0.01 0.20 <0.01
3	Gas-Fired Boiler	СО	NO _x 0.24	0.63 1.05	2.76
4	Dept. 79 - Tank Farm		VOC	0.12	0.52
5	Dept. 79 - Fugitives (4)		VOC	1.06	4.65
6	Vent Transfer and Drumming Operations (Dept. 79)	g	VOC	1.41	0.15
7	Oil Heaters	СО	VOC NO _x 1.51	0.016 0.90 6.62	0.07 3.94
8	Dept. 41 - Tank Farm		VOC HCI	0.07 0.02	0.155 0.075

Emission	Source	-		Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY (5)	
9	Fugitives and Transfer	VOC	0.021	<0.01	
-	and Drumming Operations (4)		0.003	<0.001	
	()	CH₂O	0.042	0.085	
		NH ₃	0.06	0.26	
10	Aeration Basin	CH₂O	<0.01	0.03	
11	Cooling Tower	VOC	0.36	1.58	
12	Raw Material Tank (4)	TMA	0.02	<0.01	
	`,	MC	0.36	1.28	
		EPI	0.02	0.02	
13	Reaction Area (4)	TMA	<0.01	<0.01	
	` ,	MC	0.01	0.04	
		EPI	<0.01	<0.01	
14	Scrubber No. 79S-1	TMA	<0.01	<0.01	
		MC	4.33	0.03	
		EPI	0.04	<0.01	
15	Product Storage and Loading	TMA	0.02	<0.01	
		MC	< 0.01	<0.01	
		EPI	<0.01	<0.01	
16	Scrubber System	VOC	1.20	0.84	
	(Scrubbers 79S-2A, 2B and C	C) MeOH	0.06	0.01	
	×	(ylene	0.01	0.01	
	F	HAN 0.17	0.01		
	Is	sopropanol	0.01	0.01	
	E	Ethylbenzene	0.01	0.01	
17	Scrubber System	VOC	<0.01	0.01	
18	Fugitives (4)	Total VOC	4.60	3.18	
		EO	0.05	0.22	

Emission	Source			n Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY (5)	
		Naphthalene MeOH	0.04 0.42	0.05 0.42	
		PO	0.05	0.12	
		Xylene	0.12	0.15	
		Acrylic Acid	0.08	0.05	
		TDÍ	< 0.01	0.01	
		Non-HAP VOC	3.31	2.12	
		HAN 0.01	0.02		
		Ethyl Benzene	0.01	0.01	
19	Tank 7946 and Rinse	VOC	<0.01	<0.01	
20	Scrubber No. S7940	VOC	0.04	<0.01	
21	Scrubber No. S7943	VOC	2.01	0.21	
22	Scrubber No. S7944	VOC	0.03	<0.01	
23	Tank 7942	VOC	<0.01	<0.01	
24	Tank 7938	VOC	0.03	<0.01	
25	Tank 7929	VOC	0.03	<0.01	
26	Tank 7930	VOC	0.03	<0.01	
27	Tank 7936	VOC	0.63	2.75	
28	Tank 7935	VOC	0.58	0.01	
29	Tank 7934	VOC	0.57	0.01	
30	Tank 7945	VOC	<0.01	<0.01	
31	Drum Loading	VOC Polymerized Polyol	<0.01 0.12	<0.01 0.02	

Emission	Source	Air Contaminant		Emission Rates *	
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY (5)
32	T-7949	Ethyl	Xylene Benzene	0.46 0.12	0.01 0.01
33	Resin Storage (Tank 7948)		VOC	0.98	0.16
34	Fatty Acid Storage (Tank 79	50)	VOC	<0.01	<0.01
35	PTBP Storage (Tank 7947)		VOC	<0.01	<0.01
36	T-7925		Polyol	0.98	0.04
37	Boiler	NO _x	VOC 0.98 0.83	0.05 4.29 3.64	0.22
38	TF-13		VOC	27.00	0.83
39	TF-15 Fugitives	РО	EO 0.02	0.02 0.10	0.10
40	TF-16 (Tank and Fugitives)	Xyler Ethyl Polyd	Benzene	0.02 0.02 0.01 0.01	0.07 0.01 0.01 0.05
41	T-7953		VOC	0.01	0.01
42	T-7968		VOC	0.01	0.01
43	T-7940 (Tank and Fugitives)		Deta	0.01	0.02
44	T-7941 (Tank and Fugitives)		Deta imidazoline	0.01 0.01	0.04 0.01
45	T-7942		Deta	0.01	0.04

(Tank and Fugitives	k and Fugi	tives
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46	T-7955 (Tank and Fugitives)	Monoethanol amine	0.01	0.03
47	T-7966 (Tank and Fugitives)	imadazoline HAN Oxyalkylated Amine Amide MeOH 2-Butoxy-ethanol	0.03 0.01 0.02 0.01 0.01 0.01	0.02 0.01 0.02 0.01 0.01 0.01
48	T-7967 (Tank and Fugitives)	HAN Xylene Ethyl Benzene IPA Complex Polyol Polyol Resin Nonyl Phenol Resin	0.14 0.01 0.01 0.01 0.01 0.01 0.01	0.15 0.01 0.01 0.01 0.01 0.01
49	Drum and Tote Loading	VOC HAN Xylene MeOH IPA Ethyl Benzene	4.95 3.45 0.05 1.23 0.16 0.01	0.15 0.10 0.01 0.04 0.01 0.01
50	T-7910	HAN Naphthalene	0.68 0.01	0.03 0.01

Permit Number 4005 Page 6

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION SOURCES

(1)	Emission point identification - either specific equipment designation or emission point number from plot plan.
(2) (3)	Specific point source name. For fugitive sources use area name or fugitive source name. VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code
	§ 101.1
	CH ₂ O - formaldehyde
	HCl - hydrogen chloride
	COS - carbonyl sulfide
	EO - ethylene oxide
	MeOH - methyl alcohol
	HAN - heavy aromatic naphtha
	IPA - isopropanol
	PO - polypropylene oxide
	NO _x - total oxides of nitrogen
	CO - carbon monoxide
	NH ₃ - ammonia
	TMA - trimethylamine
	MC - methyl chloride
	EPI - epichlorohydrin
	TDI - toluene diisocyanate
	non-HAP VOC - nonhazardous air pollutant VOC
(4)	total VOC - total volatile organic compound
(4)	Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
	eniission rate.
*	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>
(5)	Annual emissions are based on a rolling 12-month basis.
	DatedJanuary 30, 2004