#### 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 **	
1	Plant 1 Scrubber System (Scrubber Nos. 1 and 2)	VOC CH₂O HCl Carbonyl Sulfide	<0.01 0.03 <0.01 0.006	0.02 0.018 <0.01 0.001	
2	Flare F-1	VOC EO Naphthalene Methanol PO Xylene NO <sub>x</sub> CO SO <sub>2</sub>	7.56 1.37 <0.01 <0.01 1.46 <0.01 0.35 2.97 0.01	1.62 0.18 <0.01 <0.01 0.20 <0.01 0.10 0.87 0.01	
4	Plant 2 Tank Farm	VOC	0.12	0.52	
5	Plant 2 Fugitives (4)	VOC	1.06	4.65	
6	Plant 2 Loading and Drumming	VOC	1.41	0.15	
7	3 Oil Heaters	$VOC$ $NO_x$ $CO$ $SO_2$ $PM_{10}$	0.04 0.25 0.57 0.05 0.05	0.16 1.09 2.49 0.21 0.23	
8	Plant 1 Tank Farm	VOC HCI	0.07 0.02	0.155 0.075	

Emission	Source	Air Contaminant	Emission Rates *		
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY **	
9	Plant 1 Fugitives (4), Transfer and Drumming Operations	·, VOC HCI	0.098 0.003	0.337 <0.001	
	and Braining Operations	CH <sub>2</sub> O	0.042	0.085	
		NH <sub>3</sub>	0.042	0.26	
		14113	0.00	0.20	
10	Oil/Water Separator Basin	CH₂O	<0.01	0.03	
11	Plant 2 Cooling Tower	VOC	0.36	1.58	
16	Scrubber System	VOC	1.20	0.84	
	(Scrubbers 79S-2A, 2B, and	C) Methanol	0.06	0.01	
		Xylene	0.01	0.01	
		HAN 0.17	0.01		
		Isopropanol	0.01	0.01	
		Ethylbenzene	0.01	0.01	
17	Scrubber System, S-7951	VOC	<0.01	0.01	
18	R108 Fugitives (4), Plant 3	Total VOC	5.59	3.28	
		EO	0.05	0.22	
		Naphthalene	0.04	0.05	
		Methanol	0.42	0.42	
		PO	0.05	0.12	
		Xylene	0.12	0.15	
		Acrylic Acid	0.08	0.05	
		Toluene Diisocyanate	< 0.01	0.01	
		Non-HAP VOC	3.31	2.12	
		HAN 0.01	0.02		
		Ethyl Benzene	0.01	0.01	
20	Scrubber No. S-7940	VOC	0.04	<0.01	
22	Scrubber No. S-7944	VOC	0.14	<0.01	
24	Tank 7938	VOC	0.03	<0.01	
25	Tank 7929	Code 199	6.61	0.09	

Emission			Contaminant	Emission Rates *	
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY **
26	Tank 7930		VOC	0.03	<0.01
27	Tank 7936		VOC	0.63	2.75
28	Tank 7935		HS 150	0.90	0.02
29	Tank 7934		HS 150	0.75	0.02
30	Tank 7945		VOC	<0.01	<0.01
31	R110 Drum Loading, Plant 3		VOC Polymerized Polyol	<0.01 0.12	<0.01 0.02
32	Tank 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 7950)		VOC	<0.01	<0.01
35	PTBP Storage (Tank 7947)		VOC	<0.01	<0.01
36	Tank 7925		PPG 3815	0.01	0.04
37		NO <sub>x</sub> CO	VOC 0.29 0.83	0.05 1.28 3.62	0.24
			SO <sub>2</sub> PM <sub>10</sub>	0.07 0.07	0.31 0.33
38	TF-13 Fugitives and Loading (Tanks 7956, 7957, 7958, 79 7960, 7961, 7962, 7963, 796 and 7965)	•	VOC	27.00	0.83
39	TF-15 Fugitives (Tanks 7969 and 7970)		EO PO	0.02 0.02	0.10 0.10

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY **
40	TF-16 (Tank and Fugitives)	HAN	0.02	0.07
40	(Tanks 7971 and 7972)	Xylene	0.02	0.07
	(Taliks 1911 and 1912)	Ethyl Benzene	0.02	0.01
		Polyols	0.01	0.01
		r diydis	0.01	0.03
41	Tank 7953	VOC	0.01	0.01
42	Tank 7968	VOC	0.01	0.01
	rain roos	.00	0.01	0.01
43	Tank 7940	Xylene	5.19	0.11
		,		
44	Tank 7941	DETA	0.01	0.04
	(Tank and Fugitives)	Imidazoline	0.01	0.01
46	Tank 7955	Monoethanol amine	0.16	0.01
47	Tank 7966	Imadazoline	0.03	0.02
	(Tank and Fugitives)	HAN	0.01	0.01
		Oxyalkylated Amine	0.02	0.02
		Amide	0.01	0.01
		Methanol	0.01	0.01
		2-Butoxy-ethanol	0.01	0.01
40	T   7007		0.4.4	0.45
48	Tank 7967	HAN	0.14	0.15
	(Tank and Fugitives)	Xylene	0.01	0.01
		Ethyl Benzene	0.01	0.01
		Isopropanol	0.01	0.01
		Complex Polyol	0.01	0.01
		Polyol Resin	0.01	0.01
		Nonyl Phenol Resin	0.01	0.01
49	Drum and Tote Loading,	VOC	4.95	0.15
70	Plant 4	HAN	3.45	0.10
	i mit i	Xylene	0.05	0.01
		Луюнс	0.00	0.01

Emission	Source	Air Contaminant	Emission Rates *		
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY **	
		Methanol Isopropanol Ethyl Benzene	1.23 0.16 0.01	0.04 0.01 0.01	
50	Tank 7910	Code 1506 HAN Naphthalene	5.88 0.68 0.01	0.20 0.03 0.01	
51	Tank 7903	VOC	0.68	0.01	
52	Tank 7908	VOC	0.18	0.01	
53	Tank 7911	VOC	0.01	0.01	
54	Tank 7947	VOC	0.01	0.02	
55	Tank 7948	VOC	9.63	0.46	
56	Tank 7950	VOC	0.06	0.01	
57	Tank 7956	VOC	4.65	0.39	
58	Tank 7960	VOC	5.22	0.40	
59	Tank 7964	VOC	0.01	0.01	
60	Tank 7976	VOC	5.24	0.34	
61	Tank 7977	VOC	5.22	0.28	
62	Tank 7978	Methanol	20.90	0.72	
63 64	Tank 7984 Tank 7985	VOC VOC	5.24 0.48	0.28 0.03	
65	R113 Fugitives (4)	VOC	0.33	1.46	

Emission	Source	Air Contaminant	Emissio	Emission Rates *		
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY **		
66	Thermal Fluid Heater HOH-4	$VOC$ $NO_x$ $CO$ $SO_2$ $PM_{10}$	0.04 0.28 0.63 0.10 0.06	0.18 1.20 2.75 0.44 0.25		
67	Flare F-2	VOC $NO_x$ CO $SO_2$ $SO_2$ (landfill gas)	0.52 1.45 12.52 0.01 0.06	0.02 0.67 4.30 0.01 0.10		
68	Thermal Oxidizer TO-1	VOC (R111) VOC (R113) VOC (R114) VOC (R115) VOC (T4132) VOC (T4146) VOC (T4146) VOC (natural gas) NO <sub>x</sub> (natural gas) CO (natural gas) SO <sub>2</sub> (natural gas) PM <sub>10</sub> (natural gas) VOC (landfill gas) NO <sub>x</sub> (landfill gas) CO (landfill gas) SO <sub>2</sub> (landfill gas)	0.20 0.18 0.32 1.06 0.15 0.01 0.20 0.17 0.01 0.02 0.03 0.50 0.42 0.02 0.04	0.01 0.01 0.03 0.01 0.05 0.90 0.75 0.02 0.07 0.12 2.18 1.84 0.06 0.17		
69	R113 Truck Loading Losses	VOC	0.20	0.01		
70	Tank 4105	VOC	0.04	<0.01		
71	Tank 4106	VOC	0.04	<0.01		
73	Tank 4119	VOC	0.09	<0.01		
75	Tank 4145	VOC	0.10	<0.01		

Emission	Source	Air Contaminant		n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY **</u>
76	Tank 4128	VOC	0.06	0.01
78	Tank 4134	VOC	0.05	0.01
79	9 Tank 4135 VOC		0.01	<0.01
81	Tank 4143	VOC	0.07	0.01
82	Tank 4144	VOC	0.09	0.01
83	Tank 7982	VOC	<0.01	<0.01
84	R114 Fugitives (4)	VOC	0.12	0.52
85	R115 Fugitives (4)	VOC	0.08	0.35
86	R114/R115 Tank Fugitives (4)	VOC	0.32	1.41
87	R114 Truck Loading Losses	VOC	0.47	0.01
88	R115 Truck Loading Losses	VOC	0.35	0.01
89	R111 Truck Loading Losses	VOC	0.50	0.01
90	R111 Fugitives (4)	VOC	0.11	0.14
T7983	Tank 7983	VOC	3.38	0.10
ACCUTANK	Accumulator Tank	VOC	0.25	<0.01
SRULOAD	SRU Truck Loading Losses	VOC	0.99	0.05
SRUFUG	SRU Equipment Fugitives	VOC	0.43	1.87

<sup>(1)</sup> Emission point identification - either specific equipment designation or emission point number from plot plan.

Ξmi	ssion	Source				_	Emission F	
Emission Source Air Contaminant Point No. (1) Name (2) Name (3)  (2) Specific point source name. For fugitive sources use area name of (3) VOC - volatile organic compounds as defined in Title 3  101.1  CH <sub>2</sub> O - formaldehyde HCI - hydrogen chloride DETA - diethylenetriamine			b/hr	<u>TPY **</u>				
	•	- volatile c	•			•		
(4)	HCI DETA EO HAN PO NH <sub>3</sub> non-HAF Total VC NO <sub>x</sub> CO SO <sub>2</sub> PM <sub>10</sub>	- formalde - hydroger - diethyler - ethylene - heavy ar - propylen - ammonia - VOC - nonhaza - total vola - total oxio - carbon n - sulfur dio	chloride etriamine oxide omatic naphtha e oxide dous air polluta tile organic com es of nitrogen onoxide xide e matter equal t	pounds o or less tl				ments of the
(7)	Limboloi	applicable special	•		•	•		nents of the
*	Emission	rates are based schedule:	on and the facil	ities are li	mited by the	following	g maximu	m operating
	Hrs/day_	Days/week_	Weeks/yea	ır or	Hrs/year <u>8,7</u>	760		
** 12-	Complia month p	ance with the eriod.	annual em	nission	rates is	based	l on a	rolling
							Dated <u>A</u> ı	oril 30, 2008