#### Permit Number30513

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**
7-0-0	Unit 7 Piping Fugitives (4)	VOC	0.90	3.94
11-0-0	Unit 11 Piping Fugitives (4)	VOC	4.03	17.66
11-36-1	Unit 11 Prefac Furnace	NO <sub>x</sub> CO 4.94 VOC 0.32 SO <sub>2</sub> 1.36 PM <sub>10</sub> 0.45	3.60 21.64 1.42 1.87 1.96	15.77
11-36-5	Unit 11 HDS Furnace	$\begin{array}{c} & NO_x \\ CO & 5.76 \\ VOC & 0.38 \\ SO_2 & 1.59 \\ PM_{10} & 0.52 \\ \end{array}$	4.20 25.25 1.65 2.18 2.28	18.40
14-0-0	Unit 14 Piping Fugitives (4)	VOC	4.83	21.14
14-36-3	Unit 14 Prefac Furnace	NO <sub>x</sub> CO 6.59 VOC 0.43 SO2 1.82 PM <sub>10</sub> 0.60	4.80 28.86 1.89 2.49 2.61	21.02
14-36-4	Unit 14 HDS Furnace	$\begin{array}{c} & NO_x \\ CO & 4.53 \\ VOC & 0.30 \\ SO_2 & 1.25 \\ PM_{10} & 0.41 \\ \end{array}$	3.30 19.84 1.30 1.71 1.79	14.45

Emission	Source	Air Contaminant	Emission	n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
17-0-0	Unit 17 Piping Fugitives (4)	VOC	0.18	0.81
35-0-0	CCR Fugitives (4)	VOC	4.71	20.61
35-36-1	CCR Furnace	NO <sub>x</sub> CO 32.94 VOC 2.16 SO <sub>2</sub> 9.09 PM <sub>10</sub> 2.98	24.00 144.28 9.45 12.44 13.05	105.12
35-95-102	Caustic Scrubber	HCI Cl <sub>2</sub> 0.04	0.08 0.19	0.34
54-22-2	Unit 11 Cooling Tower	VOC Ethylene Propylene	0.39 0.01 0.01	1.72 0.05 0.05
54-22-8	Unit 14 Cooling Tower	VOC Ethylene Propylene	0.52 0.02 0.02	2.30 0.07 0.07
54-22-11	Unit 7 Cooling Tower	VOC Ethylene Propylene	0.08 0.01 0.01	0.37 0.01 0.01
54-22-18	Unit 35 Cooling Tower	VOC Ethylene Propylene	0.57 0.02 0.02	2.48 0.07 0.07
56-61-1	Flare 1	NO <sub>x</sub> CO 4.44 VOC 6.34 SO <sub>2</sub> 0.01	0.52 19.44 12.35 0.04	2.27
56-61-11	Flare 11	NO <sub>x</sub>	0.07	0.29

Emission	Source	Air Contamina	nt <u>Emiss</u>	ion Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
	(Routine)	CO VOC (5) SO <sub>2</sub> 0.12 Ethylene Propylene	0.34 1.35 0.53 0.01 0.01	1.50 5.91 0.01 0.06
	Flare 11 (Unit 7 SSM Emissions from Flare 11) (6	NO <sub>x</sub> CO VOC	0.01 0.06 0.19	0.01 0.01 0.01
	Flare 11 (Unit 17 SSM Emissions from Flare 11) (6	NO <sub>x</sub> CO VOC	0.01 0.05 0.15	0.01 0.01 0.01
	Flare 11 (Unit 35 SSM Emissions from Flare 11) (6	NO <sub>x</sub> CO VOC	0.03 0.21 0.65	0.01 0.02 0.07
56-61-16	Flare 16	$NO_x$ $CO$ 1.89 $VOC$ (5) $SO_2$ 4.29 $Ethylene$ $Propylene$	0.83 8.30 4.57 18.78 0.01 0.53	3.64 20.02 0.02 2.32
	Flare 16 (Unit 7 SSM Emissions from Flare 16) (6	NO <sub>x</sub> CO VOC	0.02 0.05 0.19	0.01 0.01 0.01
	Flare 16 (Unit 17 SSM Emissions from Flare 16) (6 VOC	NO <sub>x</sub> O) CO	0.02 0.04 15	0.01 0.01 0.01
	Flare 16 (Unit 35 SSM Emissions from Flare 16) (6	NO <sub>x</sub> O	0.08 0.17	0.01 0.02

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
		VOC	0.65	0.07
68-95-66	Sour Naphtha Storage Tank	VOC	1.14	3.81
68-95-74	Sour Naphtha Storage Tank	VOC	1.20	4.05
68-95-75	Sour Naphtha Storage Tank	VOC	1.09	3.63
68-95-76	Sour Naphtha Storage Tank	VOC	1.06	3.50
68-95-85	Benzene/Toluene Storage Tank	VOC	0.17	0.64
68-95-86	Benzene Storage Tank	VOC	0.29	0.48
68-95-87	Benzene Storage Tank	VOC	0.29	0.44
68-95-92	Benzene Storage Tank	VOC	0.18	0.49
68-95-93	Benzene Storage Tank	VOC	0.20	0.55
68-95-205	Heavy Aromatics Storage Tank	VOC	0.78	1.92
68-95-206	Hydrotreated Naphtha Tank	VOC	1.90	6.79
68-95-210	Raffinate Storage Tank	VOC	3.66	13.13
68-95-216	Toluene Storage Tank	VOC	0.66	0.80
68-95-409	Xylene Storage Tank	VOC	0.14	0.28
68-95-410	Unit 7 Extractor Charge Tank	VOC	0.75	2.35
68-95-411 68-95-413	Unit 7 Extract Storage Tank Xylene Storage Tank	VOC VOC	0.31 0.14	0.59 0.27
7-SSM-0	Unit 7 SSM Emissions (6)	VOC	1.83	0.05

#### AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
17-SSM-0	Unit 17 SSM Emissions (6)	VOC	1.30	0.04
35-SSM-0	Unit 35 SSM Emissions (6)	VOC	24.06	1.35

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

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

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

PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter.

CO - carbon monoxide HCI - hydrogen chloride

Cl<sub>2</sub> - chlorine

SSM - start-up, shutdown & maintenance

- (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (5) Ethylene and propylene emissions are included in the total VOC.
- (6) These SSM emissions shall not occur simultaneously at Units 7, 17, and 35.
- \* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day	Days/week	_Weeks/year or	8,760	Hrs/year
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\*\* Compliance with annual emission limits is based on a rolling 12-month period.

Dated February 12, 2007