#### 4682B/PSD-TX-761M1

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 Point No. (1)	Source Air Contaminant Emis Name (2) Name (3) #/hr	ssion Rates* TPY		
1L	USC Furnace L (5)	VOC NOx SO2 PM CO	0.5 27.3 0.21 1.8 14.1	2.2 119.6 0.92 7.9 61.8
1M	USC Furnace M (5)	VOC NOx SO2 PM CO	0.5 27.3 0.21 1.8 14.1	2.2 119.6 0.92 7.9 61.8
1N	USC Furnace N (6)	VOC NOx SO2 PM CO	0.5 27.3 0.21 1.8 14.1	2.2 119.6 0.92 7.9 61.8
9A	Decoking Cyclone (5)	PM CO	9.0** 29.2**	3.7 4.5
9B	Decoking Cyclone (5)	PM CO	9.0** 29.2**	3.9 5.1
45	Tank (6)	VOC Benzene	0.9 0.006	3.8 0.025
	Fugitives (4)	VOC Benzene	6.2 0.08	27.2 0.35

Emission	Source	Air Contaminant <u>E</u>	<u> Emission Rates*</u>		
Point No. (1)	Name (2)	Name (3) #/I	hr TPY		
1A	USC	Furnace A	VOC	0.74	3.24
			NOx	29.70	130.09
			SO2	51.40	225.13
			PM	1.37	6.0
			CO	1.97	8.63

Emission Point No. (1)	Source A Name (2)	ir Contaminant Name (3)	Emission Rates* #/hr TPY		
1B	USC Furna		VOC NOX SO2 PM CO	0.74 29.70 51.40 1.37 1.97	3.24 130.09 225.13 6.0 8.63
1C	USC Furna	ce C	VOC NOx SO2 PM CO	0.74 29.70 51.40 1.37 1.97	3.24 130.09 225.13 6.0 8.63
1D	USC Furna	ce D	VOC NOx SO2 PM CO	0.74 29.70 51.40 1.37 1.97	3.24 130.09 225.13 6.0 8.63
1E	USC Furna	ce E	VOC NOx SO2 PM CO	0.74 29.70 51.40 1.37 1.97	3.24 130.09 225.13 6.0 8.63
1F	USC Furna	ce F	VOC NOx SO2 PM CO	0.74 29.70 51.40 1.37 1.97	3.24 130.09 225.13 6.0 8.63
1G	USC Furna	ce G	VOC NOx SO2 PM CO	0.74 29.70 51.40 1.37 1.97	3.24 130.09 225.13 6.0 8.63
1H	USC Furna	ce H	VOC	0.74	3.24

Emission	Source	Air Contaminan	t <u>Emis</u>	sion Rates*		
Point No. (1)	Name (2)	Name (3)	#/hr	TPY		
				NOx	29.70	130.09
				SO2	51.40	225.13
				PM	1.37	6.0
				CO	1.97	8.63

Emission Point No. (1)	Source Air Contami Name (2) Name (	nant <u>Emission Rates*</u> 3) #/hr TPY		
1K	USC Furnace K	VOC NOx SO2 PM CO	0.74 29.70 51.40 1.37 1.97	3.24 130.09 225.13 6.0 8.63
3A	VMR Furnace A	VOC NOx SO2 PM CO	0.50 20.00 34.50 0.92 1.7	2.19 87.6 151.11 4.03 7.5
3B	VMR Furnace B	VOC NOx SO2 PM CO	0.50 20.00 34.50 0.92 1.7	2.19 87.6 151.11 4.03 7.5
4A	HP Steam Boiler A	VOC NOx SO2 PM CO	2.23 133.70 324.30 32.20 7.2	9.77 585.6 1420.4 141.04 31.54
4B	HP Steam Boiler B	VOC NOx SO2 PM CO	2.23 133.70 324.30 32.20 7.2	9.77 585.6 1420.4 141.04 31.54
4C	HP Steam Boiler C	VOC NOx SO2 PM CO	2.23 133.70 324.30 32.20 7.2	9.77 585.6 1420.4 141.04 31.54
4D	HP Steam Boiler D	VOC	2.23	9.77

Emission	Source	Air Contaminant	<u>Emiss</u>	sion Rates*		
Point No. (1)	Name (2)	Name (3)	#/hr	TPY		
				NOx	133.70	585.6
				SO2	324.30	1420.4
				PM	32.20	141.04
				CO	7.2	31.54

Emission	Source	Air Contaminant	<b>Emission Rates*</b>		
Point No. (1)	Name (2)	Name (3)	#/hr TPY		
5A	Steam :	S. Heater A	VOC	0.67	2.93
			NOx	39.90	174.80
			SO2	96.80	423.98
			PM	9.61	42.1
			CO	2.6	11.39
5B	Steam	S. Heater B	VOC	0.67	2.93
			NOx	39.90	174.80
			SO2	96.80	423.98
			PM	9.61	42.1
			CO	2.6	11.39
6	HDA F	eed Heater	VOC	1.78	7.80
			NOx	18.00	78.80
			PM	0.51	2.23
			СО	1.32	5.78
7	HDA R	ec. Heater	VOC	0.02	0.09
			NOx	1.30	5.69
			PM	0.04	0.18
			CO	0.11	0.48
8	Dryer R	Regen. Heater	VOC	0.08	0.35
			NOx	4.70	20.59
			PM	0.14	0.61
			CO	0.30	1.31
8A	Cat. Re	act. Furnace	VOC	0.11	0.48
			NOx	6.30	27.59
			PM	0.18	0.79
			CO	0.40	1.75
31	2nd Sta	nge Feed Heater	VOC	0.06	0.26
			NOx	3.30	14.45
			PM	0.09	0.39
10, 11	Hot and	d Cold Flares	VOC		3.00

Emission So	urce Air Contami	inant <u>Emission Rates*</u>	
Point No. (1) Na	ame (2) Name (	(3) #/hr TPY_	
12	Cooling Tower	VOC	3.00
13A, B, C	CPI Separators	VOC	1.00

Emission Point No. (1) 43		ntaminant <u>Emission Ra</u> ame (3) #/hr TPY ading VO		4.90
43	All Flanges All Pumps and Co	VO	C	5.00 0.25
	All Valves Maintenance (Pa	VO	C	30.00 3.00
16	Naphtha Feed Ta	<b>G</b> ,	C	1.52+
17	Gas Oil Feed Tar	nk VO	C	0.46+
18	Light Fuel Oil Tar	nk VO	C	1.13+
19	Gasoline Tank	VO	C	6.41+
20A, B	Heavy Oil Fuel Ta	anks VO	C	8.38+
23A, B	Benzene Tanks	VO	C	3.78+
24	C6-C8 Tank	VO	C	2.01+
30A, B, C	Naphtha Feedsto	ck Tanks VO	C	42.82+
32	Lube Oil Tank	VO	C	0.05+
33	Wash Oil Tank	VO	C	0.56+
39A	Spent Caustic Ga Wash Tank	asoline VO	0.43	0.40+
39B	Spent Caustic Ga Wash Tank	asoline VO	0.43	0.40+
40	Recovered Oil Ta	ınk VO	C	0.10+
41	Froth Holding Ta	nk VO	C	0.09+
42	Methanol Tank	VO	C	0.10+

Emission	Source	Air Contaminant Emis	sion Rates*		
Point No. (1)	Name (2)	Name (3) #/hr	TPY		
50	Spent	Caustic Wastewater	VOC	<0.01	<0.01
51	Spent	Caustic Wastewater	VOC	<0.01	<0.01

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates* #/hr TPY		
52		rater Tank	VOC	<0.01	<0.01
53	Slop Oil	Tank	VOC	0.47	0.46
FU-4	NESHA	PS Fugitives (4)	VOC	0.56	2.46
FU-5	Bipheny Fugitiv	rl Export es (4)	VOC	0.23	1.01

- (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 General Rule 101.1
  - NOx total oxides of nitrogen
  - SO2 sulfur dioxide
  - PM particulate matter
  - CO carbon monoxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Modified source.
- (6) New source.
- \*\* Averaged over 12 hours.
- + The individual TPY emission rates for each storage tank may be exceeded as long as the aggregate emissions from all storage tanks do not exceed 71.41 TPY.
- \* 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_	8,760
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