#### Permit No. 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	Emission Rates*		
Point No. (1)	Name (2)	Name (3) #	/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> s	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

	Source Air	Contaminant <u>Emis</u>	Sion Rates		
Point No. (1)	Name (2)	Name (3) #/hr	TPY		
1J	USC Furnace	J	VOC	0.74	3.24
			NOx	29.70	130.09
			SO2	51.40	225.13
			PM	1.37	6.0
			СО	1.97	8.63
1K	USC Furnace	K	VOC	0.74	3.24
			NOx	29.70	130.09
			SO2	51.40	225.13
			PM	1.37	6.0
			СО	1.97	8.63
3A	VMR Furnace	Α	VOC	0.50	2.19
			NOx	20.00	87.6
			SO2	34.50	151.11
			PM	0.92	4.03
			CO	1.7	7.5
3B	VMR Furnace	В	VOC	0.50	2.19
			NOx	20.00	87.6
			SO2	34.50	151.11
			PM	0.92	4.03
			СО	1.7	7.5
4A	HP Steam Boi	ler A	VOC	2.23	9.77
			NOx	133.70	585.6
			SO2	324.30	1420.4
			PM	32.20	141.04
			СО	7.2	31.54
4B	HP Steam Boi	ler B	VOC	2.23	9.77
			NOx	133.70	585.6
			SO2	324.30	1420.4
			PM	32.20	141.04
			СО	7.2	31.54
4C	HP Steam Boi	ler C	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	Emission Rates*		
Point No. (1)	Name (2)	Name (3) #	<u> '/hr TPY</u>		
4D	HP Stea	m Boiler D	VOC	2.23	9.77
			NOx	133.70	585.6
			SO2	324.30	1420.4
			PM	32.20	141.04
			CO	7.2	31.54
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
			СО	2.6	11.39
6	HDA Fee	ed Heater	VOC	1.78	7.80
			NOx	18.00	78.80
			PM	0.51	2.23
			CO	1.32	5.78
7	HDA Re	c. Heater	VOC	0.02	0.09
			NOx	1.30	5.69
			PM	0.04	0.18
			CO	0.11	0.48
8	Dryer Re	egen. Heater	VOC	0.08	0.35
	•		NOx	4.70	20.59
			PM	0.14	0.61
			СО	0.30	1.31
8A	Cat. Rea	ıct. Furnace	VOC	0.11	0.48
			NOx	6.30	27.59
			PM	0.18	0.79
			CO	0.40	1.75

Emission	Source	Air Contaminan	t <u>Emis</u>	sion Rates*		
Point No. (1)	Name (2)	Name (3)	#/hr	TPY		
31	2nd S	Stage Feed Heater		VOC	0.06	0.26
				NOx	3.30	14.45
				PM	0.09	0.39

Emission Sourc		ssion Rates* TPY_		
10, 11	Hot and Cold Flares	VOC		3.00
12	Cooling Tower	VOC		3.00
13A, B, C	CPI Separators	VOC		1.00
43	Fuel Oil Truck Loading All Flanges All Pumps and Compressors All Valves Maintenance (Painting)	VOC VOC VOC VOC		4.90 5.00 0.25 30.00 3.00
16	Naphtha Feed Tank	VOC		1.52+
17	Gas Oil Feed Tank	VOC		0.46+
18	Light Fuel Oil Tank	VOC		1.13+
19	Gasoline Tank	VOC		6.41+
20A, B	Heavy Oil Fuel Tanks	VOC		8.38+
23A, B	Benzene Tanks	VOC		3.78+
24	C6-C8 Tank	VOC		2.01+
30A, B, C	Naphtha Feedstock Tanks	VOC		42.82+
32	Lube Oil Tank	VOC		0.05+
33	Wash Oil Tank	VOC		0.56+
39A	Spent Caustic Gasoline Wash Tank	VOC	0.43	0.40+
39B	Spent Caustic Gasoline Wash Tank	VOC	0.43	0.40+

Emission	Source	Air Contaminan	t <u>Emiss</u>	sion Rates*	
Point No. (1)	Name (2)	Name (3)	#/hr	TPY	
40	Pocov	ered Oil Tank		VOC	0.10+
40	Recov	ereu Oli Tarik		VOC	0.10+
41	Froth F	Holding Tank		VOC	0.09+

Emission	Source	Air Contaminant <u>E</u>	Emission Rates*		
Point No. (1)	Name (2)	Name (3) #/	<u>hr TPY</u>		
42	Metha	nol Tank	VOC		0.10+
50	Spent	Caustic Wastewater	VOC	<0.01	<0.01
51	Spent	Caustic Wastewater	VOC	<0.01	<0.01
52	Waste	water Tank	VOC	<0.01	<0.01
53	Slop C	Dil Tank	VOC	0.47	0.46
FU-4	NESH	APS Fugitives (4)	VOC	0.56	2.46
FU-5		nyl Export ives (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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# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

### AIR CONTAMINANTS DATA

Emission Source Air Contaminant <u>Emission Rates\*</u>
Point No. (1) Name (2) Name (3) #/hr TPY

Revised	