#### Flexible Permit Number 6308 and PSD-TX-137M2

#### **EMISSION CAP TABLE**

This table lists the maximum allowable emission caps 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.

### NO<sub>x</sub> EMISSION CAP

Facility/Emission Point Categories	Year	lb/hr	TPY			
Fired Units Fired Units, Boilers	2000 through 2005 2006	425.24 448.84	921.00 1024.00			
СО	EMISSION CAP					
Facility/Emission Point Categories	Year	lb/hr	TPY			
Fired Units Fired Units, Boilers	2000 through 2005 2006	272.15 300.45	479.12 603.02			
SO <sub>2</sub>	EMISSION CAP					
Facility/Emission Point Categories	Year	lb/hr	TPY			
Fired Units Fired Units, Boilers	2000 through 2005 2006	277.09 289.08	160.20 191.80			
PM EMISSION CAP						
Facility/Emission Point Categories	Year	lb/hr	TPY			
Fired Units Fired Units, Boilers	2000 through 2005 2006	50.30 53.20	190.58 203.38			

# EMISSION SOURCES, EMISSIONS CAPS, AND INDIVIDUAL EMISSION LIMITATIONS EMISSION CAP TABLE EMISSION SOURCES

## **VOC EMISSION CAP**

Facility/Emission Source Categories	Year	lb/hr	TPY				
Fired Units, Cooling Towers, Tanks, Fugitives, Wastewater, Miscellaneous (4)	2000 through 2005	653.73	606.16				
Fired Units, Cooling Towers, Tanks, Fugitives, Wastewater, Miscellaneous, Boilers (4)	2006	647.33	578.26				
Toluene E	EMISSION CAP						
Facility/Emission Point Categories	Year	lb/hr	TPY				
Tanks E11TKS23, E11TKR17, and E11TKR18	2000	0.96	2.53				
Xylene EMISSION CAP							
Facility/Emission Point Categories	Year	lb/hr	TPY				
Tanks E11TKS32, E11TKR9, and E11TKR11	2000	11.92	13.06				
Benzene I	EMISSION CAP						
Facility/Emission Point Categories	Year	lb/hr	TPY				
Tanks E11TKS22, E11TKR5, E11TKR7, and Tank E11TKS21	2000	1.34	2.77				
Cyclohexane EMISSION CAP							
Facility/Emission Point Categories	Year	lb/hr	TPY				
Tanks E11TKS21, E11TKR34, and E11TKR40	2000	0.78	2.67				

# EMISSION CAP TABLE EMISSION SOURCES MTBE EMISSION CAP

Facility/Emission Point Categories	Year	lb/hr	TPY
Tanks E12TK146 and E18TK125	2000	2.11	4.28

#### AIR CONTAMINANTS DATA

Emission	Source	Air	Contaminant	Emission Rates	
Point No. (1)	Name (2)		Name (3)	lb/hr	<u>TPY</u>
FL-27	East Flare	NO <sub>x</sub>	VOC 2.34	23.51 7.15	71.49
		CO SO <sub>2</sub>	12.10 0.59	36.82 1.79	
		30 <sub>2</sub> H <sub>2</sub> S	0.59	0.02	
22	Boiler No. HA-5 (5)		VOC	0.65	2.84
		NO <sub>x</sub> CO	33.0 9.90	145.0 43.40	
		$SO_2$	3.68	9.67	
		$PM_{10}$	0.90	3.92	
23	Boiler No. HA-6 (5)	NO	VOC	0.65 145.0	2.84
		NO <sub>x</sub> CO	33.0 9.90	43.40	
		$SO_2$ $PM_{10}$	3.68 0.90	9.67 3.92	
		1 14110			
24	Boiler No. HA-7 (5)	NO <sub>x</sub>	VOC 33.0	0.65 145.0	2.84
		CO	9.90	43.40	
		$SO_2$ $PM_{10}$	3.68 0.90	9.67 3.92	
		10		R CONTAMINANTS DATA	
Emission	Source	Air	Contaminant	Emission Rates	*

# EMISSION CAP TABLE EMISSION SOURCES

Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
Sulfur Recovery Unit No.	1 (6)			
S-84	SRU No. 1 Tail Gas	VOC Incinerator (TGI) Stack	0.13 NO <sub>x</sub> 10.60 CO 5.75 PM 0.18 SO <sub>2</sub> 39.04 H <sub>2</sub> S 0.42	0.58 2.41 25.20 0.80 171.01 1.82
E29H417	SRU No. 1 Heater	VOC	0.02 NO <sub>x</sub> 0.58 CO 0.31 PM 0.03 SO <sub>2</sub> 0.12	0.09 2.53 1.36 0.12 0.31
F-SRU1	SRU No. 1 Fugitives	(4) VOC	0.05 CO 0.03 H <sub>2</sub> S 0.05	0.21 0.13 0.20
F-AMINE1	ARU No 1 Fugitives	(4) VOC	0.07 CO 0.01 H <sub>2</sub> S 0.02	0.31 0.03 0.09
FL-87	SRU No. 1 Flare	Emergency and	Maintenance Only VOC 0.10 NO <sub>x</sub> 0.08 CO 0.71 SO <sub>2</sub> <0.01	0.22 0.18 1.55 0.01
		AIR CONTAMINAN	ITS DATA	
	Course	Air Contoninont	Emissien De	+ +

Emission	Source	Air Contaminant	Emission Rates *
----------	--------	-----------------	------------------

Point No. (1)	Name (2)	ABLE	Name (3)	lb/hr	TPY
Sulfur Recovery Unit No	, ,		.,		
S-85	SRU No. 2 Incinerator Stack	CO PM SO <sub>2</sub> H <sub>2</sub> S	VOC NO <sub>x</sub> 14.00 0.09 11.22 0.12	0.06 1.18 61.20 0.39 49.15 0.53	0.28 5.15
ARU2SUMP	ARU No. 2 Sump		VOC	0.02	<0.01
F-SRU2	SRU No. 2 Fugitive	s CO H₂S	VOC 0.03 0.05	0.05 0.13 0.20	0.21
F-AMINE2	ARU No. 2 Fugitive	s CO H₂S	VOC 0.01 0.02	0.07 0.03 0.09	0.31
FL-88	SRU No. 2 Acid Ga	s Flare NO <sub>x</sub> CO SO <sub>2</sub>		0.10 0.18 1.55 <0.01	0.22
SRU2SUMP	SRU No. 2 Sump		VOC	0.02	<0.01

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

 $NO_x$  - total oxides of nitrogen

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

<sup>(2)</sup> Specific point source names. For fugitive sources use area name or fugitive source name.

<sup>(3)</sup> VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

#### EMISSION CAP TABLE EMISSION SOURCES

PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>

PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.

CO - carbon monoxide MTBE - methyl-tert-butyl ether H<sub>2</sub>S - hydrogen sulfide

schedule:

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Boilers HA-5, HA-6, and HA-7 emission rates are valid through 2005 or until Low-NO $_{x}$  burners have been installed. After 2005, the boilers are in the emission caps.
- (6) Permit No. 1413 which authorized SRU No. 1 was consolidated into Permit No. 6308 in August 2002.

_Hrs/day	_Days/week	_Weeks/year or _	<u>8,760</u> Hrs/year		
			Dated	August 21.	. 2002

Emission rates are based on and the facilities are limited by the following maximum operating