Permit Numbers 6825Z and PSD-TX-49Z

EMISSION CAP TABLE

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.

See Attachment I for Source Name and Emission Point Number Index.

VOC EMISSION CAP

Source Name	Year	lb/hr	TPY
Fired Units, Flares,	1996	3,914	2,851
FCCU,	1997	3,911	2,859
Tanks,	1998	3,897	2,873
Cooling Towers,	1999	3,812	2,612
Marine Loading,	2000	801	2,208
Fugitives (4), and	2001	690	1,771
Sulfur Recovery Units	2002	647	1,582
•	2003	620	1,373
	2004	561	1,187
	2005 (Final)	569	1,220

NO_x EMISSION CAP

Source Name	Year	lb/hr	TPY
Fired Units, Flares,	1996	3,458	15,146
FCCU,	1997	3,458	15,146
Marine Loading, and	1998	2,873	12,583
Sulfur Recovery Units	1999	2,523	11,050
	2000	2,352	10,263
	2001	1,609	7,012
	2002	1,405	6,117
	2003	1328	5,773
	2004	1262	5,488
	2005 (Final)	897	3,880

SO₂ EMISSION CAP

Source Name	Year	lb/hr	TPY
Fired Units, Flares,	1996	1,475	6,459
FCCU,	1997	1,394	6,105
Marine Loading, and	1998	1,347	6,064
Sulfur Recovery Units	1999	1,347	6,064
•	2000	1,338	6,026
	2001	1,325	5,896
	2002	1,353	5,948
	2003	1487	6,422
	2004	1466	6,422
January 1 through April 15	2005	1466	6,422
After April 15	2005 (Final)	720	3,154

CO EMISSION CAP

Source Name	Year	lb/hr	TPY
Fired Units, Flares,	1996	1,299	5,690
FCCU,	1997	1,299	5,690
Marine Loading, and	1998	1,271	5,569
Sulfur Recovery Units	1999	1,276	5,588
•	2000	1,277	5,519
	2001	1,276	5,513
	2002	1,278	5,522
	2003	1384	5,690
	2004	1384	5,690
	2005 (Final)	861	3,690

PM EMISSION CAP

Source Name	Year	lb/hr	TPY
Fired Units,	1996	153	671
FCCU, and	1997	153	671
Sulfur Recovery Units	1998	150	656
•	1999	150	656
	2000	148	647
	2001	148	647
	2002	150	659
	2003	164	671
	2004	164	671
	2005 (Final)	126	551

H₂S EMISSION CAP

Year	lb/hr	TPY
1996	5.7	25.1
1997	5.7	25.1
1998	4.6	20.0
1999	3.5	15.0
2000	2.5	10.0
2001	1.3	5.0
2002	1.3	5.0
2003	1.5	5.5
2004 (Final)	0.5	1.9
	1996 1997 1998 1999 2000 2001 2002 2003	1996 5.7 1997 5.7 1998 4.6 1999 3.5 2000 2.5 2001 1.3 2002 1.3 2003 1.5

HF EMISSION CAP

Source Name	Year	lb/hr	TPY
Fugitives (4) and	1996 (Initial)	0.5	2.4
Fired Units	1997	0.5	2.4
	1998	0.5	2.4
	1999	0.5	2.4
	2000	0.5	2.4
	2001	0.5	2.4
	2002	0.5	2.4
	2003	0.5	2.4
	2004 (Final)	0.5	2.4

NH₃ EMISSION CAP

Source Name	Year	lb/hr	TPY
Fugitives (4) and	1996 (Initial)	0.1	0.2
Tanks	1997 `	0.1	0.2
	1998	0.1	0.2
	1999	0.1	0.2
	2000	0.1	0.2
	2001	0.1	0.2
	2002	0.1	0.2
	2003	0.1	0.2
	2004 (Final)	0.1	0.2

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES SPECIATED VOC EMISSION CAPS

Benzene CAP

Source Name	Year	lb/hr	TPY
Tanks, Flares, Fugitives (4), and Marine Loading	1996 1997 1998 1999 2000 2001 2002 2003	11.6 10.9 10.9 10.8 10.8 2.9 2.9	14.9 11.6 11.5 11.3 11.2 9.7 9.7 9.69
	2004 (Final)	2.9	9.65

MTBE CAP

Source Name	Year	lb/hr	TPY
Tanks,	1996	19.2	31.1
Fugitives (4), and	1997	19.2	31.1
Marine Loading	1998	19.2	31.1
	1999	19.2	31.1
	2000	13.2	30.4
	2001	13.2	30.4
	2002	13.2	30.4
	2003	13.2	30.4
	2004 (Final)	13.2	30.4

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES CLEAN FUEL POINT SOURCES

EPN	Source Name	Air Contaminant(3)	lb/hr	TPY
E-01-245	Reactor Heater	SO_2 NO_x CO PM_{10} VOC	0.85 1.44 2.48 0.24 0.18	3.73 6.31 10.84 1.07 0.77
E-26-Flare	Flare 26	SO ₂ NO _x CO VOC	0.80 0.87 2.40 0.06	3.50 3.81 10.50 0.28
F-Pipe	Piping Fugitives (4)	VOC	0.18	0.78
F-CT-400	Cooling Tower CT-400	VOC	0.50	2.21
F-245	Fugitives - Gasoline Hydrotreating	VOC	1.32	5.78
TK-FCCGAS	S FCC Gasoline Tank	VOC	1.85	8.08

- (1) Emission point identification either specific equipment designation or emission point number from a plot plan per Attachment 1.
- (2) Specific point source names. For fugitive sources use area name or fugitive source name.
- (3) VOC volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

PM - particulate matter, suspended in the atmosphere, including PM_{10} .

PM₁₀ - 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 in emitted.

CO - carbon monoxide H_2S - hydrogen sulfide

MTBE - methyl-tert-butyl ether

NH₃ - ammonia

HF - hydrogen fluoride

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.