EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSIONS LIMITATIONS

Permit Numbers 6825A/PSD-TX-49

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	651.40	1,504.99
	2004	592.40	1,318.99
	2005 (Final)	600.40	1,351.99

NO_x EMISSION CAP

Source Name	Year	lb/hr	<u>TPY **</u>
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	1,417.72	6,080
	2004	1,351.72	5,795
	2005 (Final)	986.72	4,187

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSIONS LIMITATIONS $SO_2 \ EMISSION \ CAP$

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	1,599.59	6,915
	2004	1,578.59	6,915
January 1 through April 15	2005	1,578.59	6,915
After April 15	2005 (Final)	832.59	3,647

CO EMISSION CAP

Source Name	Year	lb/hr	TPY **
Fired Units Flores	1006	1 200	E 600
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	1,492.20	6,164
	2004	1,492.20	6,164
	2005 (Final)	969.20	4,164

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSIONS LIMITATIONS PM EMISSION CAP

Source Name	Year	lb/hr	TPY **
Electricity	1000	450	074
Fired Units,	1996	153	671
FCCU, Coke, and	1997	153	671
Sulfur Recovery Units	1998	150	656
	1999	150	656
	2000	148	647
	2001	148	647
	2002	150	659
	2003	179.03	725
	2004	179.03	725
January 1 through April 15	2005	179.03	725
After April 15	2005 (Final)	141.03	605

H₂S EMISSION CAP

Source Name	Year	lb/hr	<u>TPY **</u>
Sulfur Recovery Units, Flares,	1996	5.7	25.1
Fugitive (4), and	1997	5.7	25.1
Land Loading	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	5.24	14.1
	2004 (Final)	4.24	10.5

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSIONS LIMITATIONS HF EMISSION CAP

Year	lb/hr	TPY **
1996 (Initial)	0.5	2.4
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
	1996 (Initial) 1997 1998 1999 2000 2001 2002 2003	1996 (Initial) 0.5 1997 0.5 1998 0.5 1999 0.5 2000 0.5 2001 0.5 2002 0.5 2003 0.5

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 - EMISSION CAPS AND INDIVIDUAL EMISSIONS LIMITATIONS 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 2004 (Final)	11.6 10.9 10.9 10.8 10.8 2.9 2.9 2.91	14.9 11.6 11.5 11.3 11.2 9.7 9.7 9.74
	MTBE CAP		
Source Name	Year	lb/hr	TPY **
Tanks, Fugitives (4), and Marine Loading	1996 1997 1998 1999 2000 2001 2002 2003 2004 (Final)	19.2 19.2 19.2 19.2 13.2 13.2 13.2 13.2 13.2	31.1 31.1 31.1 30.4 30.4 30.4 30.4 30.4

CLEAN FUEL POINT SOURCES

EPN	Source Name	Air Contaminant (3)	lb/hr	TPY **
E-01-245	Reactor Heater	SO ₂	0.85	3.73
_ 00	redeter Freder	NO _x	1.44	6.31
		CO	2.48	10.84
		PM_{10}	0.24	1.07
		VOC	0.18	0.77
EPN	Source Name	Air Contaminant (3)	lb/hr	TPY **

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSIONS LIMITATIONS

E-26-Flare	Flare 26	SO_2	0.80	3.50
		NO_x	0.87	3.81
		CO	2.40	10.50
		VOC	0.06	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	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) CO carbon monoxide

HF - hydrogen fluoride

H₂S - hydrogen sulfide

MTBE - methyl-tert-butyl ether

NH₃ - ammonia

NO_x - total oxides of nitrogen

PM - particulate matter, suspended in the atmosphere, including PM₁₀.

PM₁₀ - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed,

it shall be assumed that no particulat e matter greater than 10 microns

in emitted.

SO₂ - sulfur dioxide

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

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

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EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSIONS LIMITATIONS

**	Compliance with annual emission limits is based on a calendar basis through December 31,	,
	2004, and on a 12-month rolling average thereafter.	

Dated <u>June 23, 2004</u>