

# 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, FCCU, Tanks, Cooling Towers, Marine Loading, Fugitives (4), and Sulfur Recovery Units	1996	3,914	2,851
	1997	3,911	2,859
	1998	3,897	2,873
	1999	3,812	2,612
	2000	801	2,208
	2001	690	1,771
	2002	647	1,582
	2003	651.40	1,505
	2004	592.40	1,319
	2005 (Final)	600.40	1,352

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

Source Name	Year	lb/hr	TPY **
Fired Units, Flares, FCCU, Marine Loading, and Sulfur Recovery Units	1996	3,458	15,146
	1997	3,458	15,146
	1998	2,873	12,583
	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
	January 1 through April 15	2005	986.72
	4,187		
After April 15	2005 (Final)	986.72	4,018

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SO<sub>2</sub> EMISSION CAP

Source Name	Year	lb/hr	TPY **
Fired Units, Flares, FCCU, Marine Loading, and Sulfur Recovery Units	1996	1,475	6,459
	1997	1,394	6,105
	1998	1,347	6,064
	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 After April 15	2005 2005 (Final)	6,915 2,547
		1,578.59 832.59	

CO EMISSION CAP

Source Name	Year	lb/hr	TPY **
Fired Units, Flares, FCCU, Marine Loading, and Sulfur Recovery Units	1996	1,299	5,690
	1997	1,299	5,690
	1998	1,271	5,569
	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
	January 1 through April 15 After April 15	2005 2005 (Final)	4,164 4,124
		969.20 969.20	

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PM EMISSION CAP

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

H<sub>2</sub>S EMISSION CAP

Source Name	Year	lb/hr	TPY **
Sulfur Recovery Units, Flares, Fugitive (4), and Land Loading	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	5.24	14.1
	2004	4.24	10.5
	2005 (Final)	4.24	8.9

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HF EMISSION CAP

Source Name	Year	lb/hr	TPY **
Fugitives (4) and Fired Units	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

NH<sub>3</sub> EMISSION CAP

Source Name	Year	lb/hr	TPY **
Fugitives (4) and Tanks	1996 (Initial)	0.1	0.2
	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

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SPECIATED VOC EMISSION CAPS

Benzene CAP

Source Name	Year	lb/hr	TPY **
Tanks, Flares, Fugitives (4), and Marine Loading	1996	11.6	14.9
	1997	10.9	11.6
	1998	10.9	11.5
	1999	10.8	11.3
	2000	10.8	11.2
	2001	2.9	9.7
	2002	2.9	9.7
	2003	2.91	9.74
	2004 (Final)	2.91	9.74

MTBE CAP

Source Name	Year	lb/hr	TPY **
Tanks, Fugitives (4), and Marine Loading	1996	19.2	31.1
	1997	19.2	31.1
	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

CLEAN FUEL POINT SOURCES

EPN	Source Name	Air Contaminant (3)	lb/hr	TPY **
E-01-245	Reactor Heater	SO <sub>2</sub>	0.85	3.73
		NO <sub>x</sub>	1.44	6.31
		CO	2.48	10.84
		PM <sub>10</sub>	0.24	1.07
		VOC	0.18	0.77
EPN	Source Name	Air Contaminant (3)	lb/hr	TPY **

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E-26-Flare	Flare 26	SO <sub>2</sub>	0.80	3.50
		NO <sub>x</sub>	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  
 H<sub>2</sub>S - hydrogen sulfide  
 MTBE - methyl-tert-butyl ether  
 NH<sub>3</sub> - ammonia  
 NO<sub>x</sub> - total oxides of nitrogen  
 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 in diameter is emitted.

SO<sub>2</sub> - 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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\*\* Compliance with annual emission limits is based on a calendar basis through December 31, 2004, and on a 12-month rolling average thereafter.

Dated February 18, 2005