

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Nos. 6825A and 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,	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	823	2,263
Fugitives (4), and	2001	712	1,826
Sulfur Recovery Units	2002	669	1,637
	2003	591	1,354
	2004 (Final)	592	1,337

NO_x EMISSION CAP

Source Name	Year	lb/hr	TPY
Fired Units,	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	2,409	10,514
	2001	1,667	7,263
	2002	1,462	6,368
	2003	437	1,875
	2004 (Final)	606	2,612

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SO₂ EMISSION CAP

<u>Source Name</u>	<u>Year</u>	<u>lb/hr</u>	<u>TPY</u>
Fired Units , 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	1,436	6,453
	2001	1,422	6,323
	2002	1,450	6,375
	2003	1,461	6,422
	2004 (Final)	826	3,732

CO EMISSION CAP

<u>Source Name</u>	<u>Year</u>	<u>lb/hr</u>	<u>TPY</u>
Fired Units, 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	1,316	5,687
	2001	1,314	5,681
	2002	1,316	5,690
	2003	1,308	5,675
	2004 (Final)	903	3,896

PM EMISSION CAP

<u>Source Name</u>	<u>Year</u>	<u>lb/hr</u>	<u>TPY</u>
Fired Units, FCCU, and Sulfur Recovery Units	1996	153	671
	1997	153	671
	1998	150	656
	1999	150	656
	2000	155	679
	2001	155	679
	2002	158	691
	2003	158	692
	2004 (Final)	134	587

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H₂S EMISSION CAP

Source Name	Year	lb/hr	TPY
Sulfur Recovery Units, 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	2.7	10.2
	2001	1.5	5.2
	2002	1.5	5.2
	2003	1.5	5.2
	2004 (Final)	0.7	2.1

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	0.5	2.4

NH₃ 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	0.1	0.2

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SPECIATED VOC EMISSION CAPS

Benzene CAP

Source Name	Year	lb/hr	TPY
Tanks, 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	2.9	9.7
	2004	2.9	9.7

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	13.2	30.4

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan per Attachment 1.
- (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
- NO_x - total oxides of nitrogen
- SO₂ - sulfur dioxide

PM - particulate matter
CO - carbon monoxide
H₂S - 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.