Permit Nos. 9868A and PSD-TX-102M4

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

Year	lb/hr	TPY
1995 (Initial) ers, etc.)	-	10202 10978
1997 1998 1999 2000 2001 2002 2003 2004 2005	10776 8908 4941 4753 4608 4475 4161 3785 3428	9912 9795 9374 8898 8749 8292 7829 7219 6663
	1995 (Initial) ers, etc.) 1997 1998 1999 2000 2001 2002 2003 2004	1995 (Initial) 11071 ers, etc.) 1996 1997 10776 1998 8908 1999 4941 2000 4753 2001 4608 2002 4475 2003 4161 2004 3785 2005 3428

NO_x EMISSION CAP

Source Name	Year	1b/hr	TPY
Flares Fired Units (Furnaces, Heaters, 4632	1995 (Initial) Boilers, etc.)	2082 1996	4632 2014
FCCU CO Boilers	1997	1957	4632
Engines	1998	1957	4632
Incinerators	1999	1843	4452
	2000	1735	3882
	2001	1638	3325
	2002	1589	3111
	2003	1517	2798

2004	1518	2800
2005	1519	2809
2006 (Final)	1626	2907
SO EMTSSTON CAD		

SO₂ EMISSION CAP

Source Name	Year	1b/hr	TPY
Flares	1995 (Initial)	7128	12740
Fired Units (Furnaces, Heaters 12560		1996	7004
FCCU CO Boilers	1997	6880	12016
Engines	1998	6880	12017
Incinerators	1999	6877	12015
Sulfur Handling	2000	6860	11960
Fugitives (4)	2001	6849	11910
Wastewater (4)	2002	6849	11910
	2003	6849	11910
	2004	6850	11910
	2005	6850	11910
	2006 (Final)	6855	5200

CO EMISSION CAP

Source Name	Year	lb/hr	TPY
Flares Fired Units (Furnaces, Heaters, 5305	1995 (Initial) Boilers, etc.)	1285 1996	5305 1295
FCCU CO Boilers	1997	1302	5305
Engines	1998	1302	5305
Incinerators	1999	1260	5305
	2000	1216	5250
	2001	1174	5025
	2002	1177	5000
	2003	1182	4965
	2004	1186	4980
	2005	1188	4990
	2006 (Final)	1264	5305

PM EMISSION CAP

Source Name	Year	lb/hr	TPY
Flares Fired Units (Furnaces, Hea 1129	1995 (Initial) ters, Boilers, etc.)	271 1996	1129 271
FCCU CO Boilers	1997	271	1129
Engines	1998	271	1129
Incinerators	1999	271	1129
	2000	267	1129
	2001	263	1129
	2002	263	1129
	2003	263	1129
	2004	263	1129
	2005	263	1129
	2006 (Final)	284	1129

H₂S EMISSION CAP

Source Name	Year	1b/hr	TPY
_			
Flares	1995 (Initial)	128	307
Fired Units (Furnaces, Heaters,	Boilers, etc.)	1996	126
299			
FCCU CO Boilers	1997	125	292
Incinerators	1998	128	305
Sulfur Handling	1999	120	243
Fugitives (4)	2000	112	210
Wastewater (4)	2001	111	203
Vent (32V1)	2002	110	199
Tank (3003)	2003	106	185
	2004	102	180
	2005	102	180
	2006 (Final)	56	153

Permit Nos. 9868A and PSD-TX-102M4 Page 4

HC1 EMISSION CAP

Source Name	Year	lb/hr	TPY
Flares Fugitives (4)	1995 (Initial) 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 (Final)	13 13 12 12 12 12 12 12 12 12 12 12 12 12	30 30 28 28 28 28 28 28 28 28 28 28
	2000 (111141)		20

NH₃ EMISSION CAP

Source Name	Year	1b/hr	TPY
Fugitives (4)	1995 (Initial)	82	355
Wastewater (4)	1996	82	355
Vent (32V1)	1997	82	355
Tank (3003)	1998	82	355
	1999	5	7
	2000	5	6
	2001	5	6
	2002	5	6
	2003	5	6
	2004	5	6
	2005	5	6
	2006 (Final)	5	6

Permit Nos. 9868A and PSD-TX-102M4 Page 5

HF EMISSION CAP

Source Name	Year	lb/hr	TPY
Fugitives (4)	1995 (Initial) 1996	0.56 0.56	2.44
	1997	0.56	2.44
	1998	0.56	2.44
	1999	0.56	2.44
	2000	0.56	2.44
	2001	0.56	2.44
	2002	0.56	2.44
	2003	0.51	2.23
	2004	0.51	2.23
	2005	0.51	2.23
	2006 (Final)	0.51	2.23

SPECIATED VOC EMISSION CAPS

Benzene CAP

Source Name	Year	lb/hr	TPY
Flares	1995 (Initial)	47	78
Tanks	1996	45	75
Truck and Rail Loading	1997	42	68
Fugitives (4)	1998	41	67
Wastewater (4)	1999	22	65
, ,	2000	13	41
	2001	13	41
	2002	12	40
	2003	12	39
	2004	11	39
	2005	10	35
	2006 (Final)	10	35

Cyclohexane CAP

Source Name	Year	lb/hr	TPY
Flares	1995 (Initial)	828	316
Tanks	1996	827	316
Truck and Rail Loading	1997	813	268
Fugitives (4)	1998	308	223
Wastewater (4)	1999	104	211
	2000	87	170
	2001	87	169
	2002	87	169
	2003	86	167
	2004	79	159
	2005	78	155
	2006 (Final)	70	147

Ethylbenzene CAP

Source Name	Year	<u>lb/hr</u>	TPY	
Flares	1995 (Initial)	15	61	
Tanks	1996	15	61	
Fugitives (4)	1997	15	61	
Wastewater (4)	1998	14	60	
,	1999	13	55	
	2000	12	50	
	2001	12	49	
	2002	12	49	
	2003	12	49	
	2004	10	38	
	2005	10	38	
	2006 (Final)	10	38	

Hexane CAP

Source Name	Year	1b/hr	TPY	
Flares	1995 (Initial)	1353	400	
Tanks	1996	1353	399	
Truck and Rail Loading	1997	1333	368	
Fugitives (4)	1998	576	350	
Wastewater (4)	1999	163	341	
	2000	138	303	
	2001	137	302	
	2002	137	301	
	2003	133	284	
	2004	133	282	
	2005	131	274	
	2006 (Final)	131	273	

Toluene CAP

Source Name	Year	lb/hr	TPY	
Flares	1995 (Initial)	104	110	
Tanks	1996	103	106	
Fugitives (4)	1997	102	102	
Wastewater (4)	1998	76	101	
• •	1999	29	97	
	2000	26	87	
	2001	26	86	
	2002	25	84	
	2003	25	84	
	2004	24	83	
	2005	23	78	
	2006 (Final)	23	77	

Xylene CAP

Source Name	Year	lb/hr	TPY	
Flares Tanks	1995 (Initial) 1996	15 14	67 63	
Fugitives (4)	1997	14	63	
Wastewater (4)	1998	13	63	
	1999	13	60	
	2000	11	51	
	2001	10	51	
	2002	10	48	
	2003	10	48	
	2004	10	48	
	2005	9	47	
	2006 (Final)	9	47	

- (1) Emission point identification either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources use area name or fugitive source name.
- (3) VOC volatile organic compounds as defined in 30 Texas Administrative Code Section 101.1
 - NO_x total oxides of nitrogen
 - SO₂ sulfur dioxide
 - PM particulate matter
 - CO carbon monoxide
 - H₂S hydrogen sulfide
 - HCl hydrogen chloride
 - NH₃ ammonia
 - HF hydrogen fluoride
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

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

Hrs/day	_Days/week	Weeks/year	or	Hrs/year_	8,760
	-			_	

Dated					