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

Source Name	Year	lb/hr	TPY
Flares	1995 (Initial)	11071	10202
Fired Units (Furnaces, Heaters,		1996	10978
10134			
FCCU CO Boilers	1997	10776	9912
Engines	1998	8908	9795
Cooling Towers	1999	4938	9359
Wastewater (4)	2000	4750	8883
Tanks	2001	4606	8739
Truck and Rail Loading	2002	4473	8282
Fugitives (4)	2003	4158	7819
Incinerators	2004	3783	7209
Vents (56V1)	2005	3425	6653
	2006 (Final)	2588	6348

NO_x EMISSION CAP

Source Name	Year	lb/hr	TPY
Flares	1995 (Initial)	2082	4632
Fired Units (Furnaces, Heaters 4632	, Boilers, etc.)	1996	2014
FCCU CO Boilers	1997	1957	4632
Engines	1998	1957	4632
Incinerators	1999	1801	4138
	2000	1693	3568
	2001	1638	3325
	2002	1589	3111

EMISSION SOURCES -	MAXIMUM	ALLOWABLE	EMISSION	RATES
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2003	1517	2798
2004	1518	2800
2005	1519	2809
2006 (Final)	1626	2907
CO EMICCION CAD		

SO₂ EMISSION CAP

Source Name	Year	lb/hr	TPY
	1005 (5 1 1 7)	7400	10710
Flares	1995 (Initial)	7128	12740
Fired Units (Furnaces, Heat	ers, Boilers, etc.)	1996	7004
12560			
FCCU CO Boilers	1997	6880	12016
Engines	1998	6880	12017
Incinerators	1999	6866	11965
Sulfur Handling	2000	6849	11910
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	1995 (Initial)	1285	5305
Fired Units (Furnaces, Heaters,	•	1996	1295
5305 FCCU CO Boilers	1997	1302	5305
Engines	1998	1302	5305
Incinerators	1999	1217	5275
	2000	1173	5020
	2001	1174	5025
	2002	1177	5000
	2003	1182	4965
	2004	1186	4980
	2005	1188	4990
	2006 (Final)	1264	5305

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PM EMISSION CAP

Source Name	Year	lb/hr	TPY
Flares Fired Units (Furnaces, Heaters, 1129	1995 (Initial) Boilers, etc.)	271 1996	1129 271
FCCU CO Boilers	1997	271	1129
Engines	1998	271	1129
Incinerators	1999	267	1129
	2000	263	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	lb/hr	TPY
Flares	1995 (Initial)	128	307
Fired Units (Furnaces, Heate	rs, 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
	2000 (1 111a1)	30	TJJ

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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

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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	lb/hr	TPY
Flares Tanks Truck and Rail Loading Fugitives (4) Wastewater (4)	Year 1995 (Initial) 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 (Final)	1b/hr 1353 1353 1333 576 162 137 136 133 132 130 130	TPY 400 399 368 350 338 300 299 298 281 279 270 270
	2000 (111141)	130	270

Toluene CAP

Source Name	Year	1b/hr	TPY
	4005 (5 ! ! 3)	404	
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	1b/hr	TPY
Flares	1995 (Initial)	15	67
Tanks	1996	14	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 General Rule 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	
