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	1b/hr	TPY
Flares	1995 (Initial)	11072	10202
Fired Units (Furnaces, Heaters		1996	10202
10134	s, borrers, etc.)	1990	10979
FCCU CO Boilers	1997	10778	9912
Engines	1998	8903	9756
Cooling Towers	1999	4938	9348
Wastewater (4)	2000	4750	8871
Tanks	2001	4606	8727
Truck and Rail Loading	2002	4473	8269
Fugitives (4)	2003	4158	7806
Incinerators	2004	3779	7180
Vents (56V1)	2005	3421	6624
, ,	2006 (Final)	2584	6318

NO_x EMISSION CAP

Source Name	Year	lb/hr	TPY
Flares	1995 (Initial)	2082	4632
Fired Units (Furnaces, Heater 4632	s, 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)	131	322
Fired Units (Furnaces, Heat	ers, Boilers, etc.)	1996	130
315			
FCCU CO Boilers	1997	128	307
Incinerators	1998	128	303
Sulfur Handling	1999	112	236
Fugitives (4)	2000	105	203
Wastewater (4)	2001	103	196
Vent (32V1)	2002	102	192
Tank (3003)	2003	99	177
,	2004	93	165
	2005	93	165
	2006 (Final)	47	138
	•		

HC1 EMISSION CAP

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

NH₃ EMISSION CAP

Source Name	Year	lb/hr	TPY
Fugitives (4)	1995 (Initial)	82	354
Wastewater (4)	1996	82	354
Vent (32V1)	1997	82	354
Tank (3003)	1998	82	354
	1999	2	3
	2000	1	1
	2001	1	1
	2002	1	1
	2003	1	1
	2004	1	1
	2005	1	1
	2006 (Final)	1	1

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HF EMISSION CAP

Source Name	Year	1b/hr	TPY
Fugitives (4)	1995 (Initial)	0.56	2.44
	1996	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	1b∕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	64
	2000	13	41
	2001	13	40
	2002	12	40
	2003	12	39
	2004	11	38
	2005	10	35
	2006 (Final)	10	35

Cyclohexane CAP

Source Name	Year	1b∕hr	TPY
Flares	1995 (Initial)	828	317
Tanks	1996	827	317
Truck and Rail Loading	1997	813	268
Fugitives (4)	1998	308	223
Wastewater (4)	1999	105	211
	2000	87	170
	2001	87	169
	2002	87	169
	2003	86 79	167 159
	2004 2005	78	154
	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	9	38
	2005	9	38
	2006 (Final)	9	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 576 162 137 137 136 133 132 130 130	TPY 400 399 368 350 338 300 299 298 281 279 270 269
	2000 (111141)	130	203

Toluene CAP

Source Name	Year	lb/hr	TPY
5 3	1005 (7.1.1.1.1)	104	110
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	77
	2006 (Final)	23	77

Xylene CAP

Source Name	Year	lb/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	10	51
	2001	10	50
	2002	10	48
	2003 2004	10 9	48 47
	2005 2006 (Final)	9 9	47 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
