EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSIONS LIMITATIONS

Flexible Permit Numbers 6825A, PSD-TX-49, and N65

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 1 for list of Emission Point Numbers and Source Descriptions for emission points included in each Source Category.

VOC EMISSION CAP			
Source Categories	Year	Emission Rates *	
		lb/hr	TPY**
Cooling Towers, FCCU, Fired Units, Flares, Fugitives (4), Marine Loading, Storage Tanks, Sulfur Recovery Units, COEXII, and DCU-844	1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 (5) 2007 (6) 2008 (8) 2009 (9) 2011 (10) 2012 (11) 2013 (12)	3,914 3,911 3,897 3,812 801 690 647 651.40 592.40 600.40 592.18 590.95 428.68 460.99 460.99 460.99 466.85	2,851 2,859 2,873 2,612 2,208 1,771 1,582 1,505 1,319 1,352 1323.58 1318.18 862.99 1003.25 1003.25 1003.25 1028.17

VOC EMISSION CAP FOR SOURCES PERMITTED UNDER NONATTAINMENT PERMIT NUMBER N65			
Source Categories	Year	Emission Rates *	
		lb/hr	TPY**
COEXII and DCU-844	2011 (13)	41.14	124.18

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSIONS LIMITATIONS

NO_x EMISSION CAP			
Source Categories	Year	Emission Rates *	
		lb/hr	TPY**
FCCU,	1996	3,458	15,146
Fired Units,	1997	3,458	15,146
Flares,	1998	2,873	12,583
Marine Loading,	1999	2,523	11,050
Storage Tanks,	2000	2,352	10,263
Sulfur Recovery Units,	2001	1,609	7,012
COEXII, and	2002	1,405	6,117
DCU-844	2003	1417.22	6,080
	2004	1351.72	5,795
January 1, 2005 through April 15,	2005	986.72	4,187
2005	2005	986.72	4,018
After April 15, 2005	2006 (5)	971.47	3649.19
After March 9, 2006	2007 (6)	901.88	3344.39
	2008 (8)	901.88	3344.39
	2009 (9)	901.88	3344.40
	2011 (10)	911.58	3378.60
	2012 (11)	911.58	3185.40
	2013 (12)	918.18	3211.68

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSIONS LIMITATIONS

SO_2 EMISSION CAP			
Source Categories	Year	Emission Rates *	
		lb/hr	TPY**
FCCU,	1996	1,475	6,459
Fired Units,	1997	1,394	6,105
Flares,	1998	1,347	6,064
Marine Loading,	1999	1,347	6,064
Sulfur Recovery Units,	2000	1,338	6,026
COEXII, and	2001	1,325	5,896
DCU-844	2002	1,353	5,948
	2003	1599.59	6,915
	2004	1578.59	6,915
January 1, 2005 through April 15,	2005	1578.59	6,915
2005	2005	832.59	2,547
After April 15, 2005	2006 (5)	828.09	2527.38
	2007 (6)	816.29	2475.98
	2008 (8)	816.29	2475.98
	2009 (9)	816.85	2478.42
	2011 (10)	827.95	2493.32
	2012 (11)	827.95	2479.12
	2013 (12)	841.42	2497.25

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSIONS LIMITATIONS

CO EMISSION CAP			
Source Categories	Year	Emission Rates *	
		lb/hr	TPY**
FCCU,	1996	1,299	5,690
Fired Units,	1997	1,299	5,690
Flares,	1998	1,271	5,569
Marine Loading,	1999	1,276	5,588
Sulfur Recovery Units,	2000	1,277	5,519
COEXII, and	2001	1,276	5,513
DCU-844	2002	1,278	5,522
	2003	1492.20	6,164
	2004	1492.20	6,164
January 1, 2005 through April 15,	2005	969.20	4,164
2005	2005	969.20	4,124
After April 15, 2005	2006 (5)	959.28	4120.51
	2007 (6)	924.48	3968.11
	2008 (8)	924.48	3968.11
	2009 (9)	924.48	3968.12
	2011 (10)	954.68	4028.32
	2012 (11)	954.68	4016.42
	2013 (12)	989.85	4086.44

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSIONS LIMITATIONS

PM_{10} EMISSION CAP			
Source Categories	Year	Emission Rates *	
		lb/hr	TPY**
FCCU,	1996	153	671
Fired Units,	1997	153	671
Flares,	1998	150	656
Marine Loading,	1999	150	656
Sulfur Recovery Units,	2000	148	647
COEXII, and	2001	148	647
DCU-844	2002	150	659
	2003	179.03	725
	2004	179.03	725
January 1, 2005 through April 15, 2005	2005	179.03	725
	2005	141.03	605
After April 15, 2005	2006 (5)	139.15	597.41
	2007 (6)	134.75	578.41
	2008 (8)	134.75	578.41
	2009 (9)	135.46	581.51
	2011 (10)	138.76	592.71
	2012 (11)	138.76	592.71
	2013 (12)	144.55	608.14

H_2S EMISSION CAP

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSIONS LIMITATIONS

Source Categories	Year	Emission Rates *	
		lb/hr	TPY**
Flares, Fugitives (4), Land Loading, Sulfur Recovery Units, COEXII, and DCU-844	1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2008 (8) 2009 (9) 2011 (10)	5.7 5.7 4.6 3.5 2.5 1.3 1.3 5.24 4.24 4.24 4.24 4.82 5.06	25.1 25.1 20.0 15.0 10.0 5.0 5.0 14.1 10.5 8.9 8.90 11.41 12.43
HF EMISSION CAP			
Source Categories	Year	Emission Rates *	
		lb/hr	TPY**
Fired Units and Fugitives (4)	1996 1997 1998 1999 2000 2001 2002 2003 2004 2006 (5)	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.36	2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 1.79

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSIONS LIMITATIONS

NH_3 EMISSION CAP			
Source Categories	Year	Emission Rates *	
		lb/hr	TPY**
Fugitives (4), Storage Tanks, COEXII, and DCU-844	1996	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
	2011 (10)	1.43	4.87
	2012 (11)	9.33	39.07
	2013 (12)	11.47	47.57

SPECIATED VOC EMISSION CAPS

Benzene CAP			
Source Categories	Year	Emission Rates *	
		lb/hr	TPY**
Flares, Fugitives (4), Marine Loading, Storage Tanks, COEXII, and DCU-844	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	2.91	9.74
	2009 (9)	3.02	10.23

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSIONS LIMITATIONS

MTBE CAP			
Source Categories	Year	Emission Rates *	
		lb/hr	TPY**
Fugitives (4), Marine Loading, Storage Tanks, and COEXII	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

INDIVIDUAL EMISSIONS LIMITATIONS				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
E-01-WGS	Wet Gas Scrubber	NO_x (7)		271.93
E-01-245	HTU-245 Reactor Heater	VOC NO_x SO_2 CO PM_{10}	0.18 1.44 0.85 2.48 0.24	0.77 6.31 3.73 10.84 1.07
E-V54	Chlorosorb Vent	VOC HCl	0.16 0.02	0.70 0.07
F-Pipe	Piping Fugitives (4)	VOC	0.18	0.78
F-245	HTU-245 fugitives	VOC	1.32	5.78

ROUTINE MAINTENANCE, START-UP, AND SHUTDOWN EMISSIONS

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSIONS LIMITATIONS

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
E-20-Flare	Flare No. 20 MSS Emissions	VOC NO_x SO_2 CO	0.06 0.87 0.80 2.40	0.28 3.81 3.50 10.50
E-01-1241	FCCU-1241 Boiler B-103A MSS Emissions	VOC NO_x SO_2 CO PM_{10}	0.1 0.2 0.01 0.2 0.1	0.4 0.9 0.01 0.9 0.4
E-02-1241	FCCU-1241 Boiler B-103B MSS Emissions	VOC NO_x SO_2 CO PM_{10}	0.1 0.2 0.01 0.2 0.1	0.4 0.9 0.01 0.9 0.4

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSIONS LIMITATIONS

(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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
CO - carbon monoxide
PM - particulate matter, suspended in the atmosphere, including PM_{10}.
PM_{10} - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns in emitted.
H_2S - hydrogen sulfide
HCl - hydrogen chloride
HF - hydrogen fluoride
NH_3 - ammonia
MTBE - methyl-tertiary-butyl ether

(4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
(5) Cap contributions for FCCU-1241 Heaters B-103A (EPN E-01-1241) and B-103B (EPN E-02-1241) were removed from the flexible permit caps and individual emission limits for these heaters were established because FCCU-1241 Heaters B-103A and B-103B are used for start-up only. Additional reductions of 2006 flexible permit caps were made due to dismantling of FCCU-1241 Heater B-103C; Tank 2109 no longer belonging to permit holder; voluntary reduction of 362 tons per year of NO_x emissions from EPN E-01-WGS; and reduction of emissions from supplemental fuel for CO9 Boiler.

Note: Reduction of NO_x and CO emissions from the shutdown of the CO9 Boiler were previously reflected in the caps.

(6) After planned shutdown of EPNs E-04-18BH and E-05-18BH.
(7) Emission limit for NO_x emissions from wet gas scrubber after March 9, 2006. The purpose of establishing this limit is to make emission reductions enforceable so that permit holder can claim emission reduction credits.
(8) Cap contributions for EPNs 5105, 5121, 5122, 5209, 5214, 5215, 5217, 5238, 7373, 7374, F-PH1, F-PH11, E-07-SRURK, E-07-SRURK, E-07-SRURK, E-07-SRURK, E-07-SRURK, E-07-SRURK, E-01-FLARE, and E-08-FLARE were removed from the flexible permit caps because these EPNs were permanently shutdown or dismantled.
(9) Flexible permit caps increased due to transfer of storage tanks from Permit Numbers 2303, 5491, 7600, and 56456 into the flexible permit and incorporation of unregistered PBRs and PBR Registration Numbers 76069 and 81668 into the flexible permit. The cap contributions for the storage tanks and PBRs do not include a 9 percent insignificant allowance.

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSIONS LIMITATIONS

(10) Cap contributions for sources associated with COEX II Project included in flexible permit caps. The cap contributions for the COEX II EPNs do not include a 9 percent insignificant allowance.

(11) Cap contributions for EPNs E-01-19BH, E-02-19BH, and E-03-19BH included in flexible permit caps and cap contributions for EPNs E-02-15BH and EPN E-03-15BH removed from flexible permit cap. The cap contributions for the EPNs added do not include a 9 percent insignificant allowance.

(12) Cap contributions for sources associated with Delayed Coker Unit 844 (DCU-844) Project included in flexible permit caps. The cap contributions for the DCU-844 Project EPNs added do not include a 9 percent insignificant allowance.

(13) The VOC emissions from COEX II and DCU-844 sources are subject to a separate emission limit in order to establish enforceable emission limits for these sources which are authorized by Nonattainment Permit Number 65.

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

_____Hrs/day _____Days/week _____Weeks/year or 8,760 Hrs/year

** Compliance with annual emission limits is based on a calendar basis through December 31, 2004, and on a 12-month rolling average thereafter.

Dated March 30, 2009