EMISSION SOURCES - EMISSIONS CAPS AND INDIVIDUAL EMISSION LIMITATIONS

Permit Numbers 9708 and PSDTX861M2

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)

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY (4)
VOC CAPS: Combustion Units, Tanks, Process Vents, Loading, Flares, Vapor Combustors, Fugitives (5), Wastewater, Cooling Towers, Engines, Relief Valves, and Maintenance			2114.00	1510.00
VOC SUBCAP: (7) Tanks (S-001, S-009, S-021, and S-229), New Railcar Rack (L-15), Vapor Combustor (FL-7), Fugitives (F-MSAT and F-MSATLOAD) (5)			25.30	43.39
NO_x CAPS: (8) Combustion Units, Flares, Vapor Combustors, Process Vents, Loading, Engines, and Maintenance			490.80	1701.00
NO_x SUBCAP: (7) Vapor Combustor (FL-7)			2.33	1.29
CO CAPS: Combustion Units, Flares, Vapor Combustors, Process Vents, Loading, Engines, and Maintenance			1408.00	3275.00
CO SUBCAP: (7) Vapor Combustor (FL-7)			7.17	4.22
SO_2 CAPS: Combustion Units, Flares, Vapor Combustors, Process Vents, Loading, Engines, and Maintenance			1120.00	2604.00

EMISSION SOURCES - INDIVIDUAL EMISSION RATE LIMITS AND SUBCAPS

AIR CONTAMINANTS DATA

SO_2 SUBCAP: (7) Vapor Combustor (FL-7)			0.09	0.03
PM CAPS: Combustion Units, Flares, Vapor Combustors, Process Vents, Engines, and Maintenance			138.00	569.80
BENZENE CAPS: Tanks, Cooling Towers, Loading, and Fugitives (5)			11.90	18.34
BENZENE SUBCAP: (7) Tanks (S-001, S-009, and S-021), New Railcar Rack (L-15), Vapor Combustor (VCU-2), Fugitives (F-MSAT and F-MSATLOAD) (5)			9.51	11.94
H_2S CAPS: Flares, Process Vents, Fugitives, and Maintenance			7.60	0.70
SULFURIC ACID CAPS (H_2SO_4): Process Vents			12.40	54.10
CHLORINE CAPS: Process Vents			0.40	0.50
HCl CAPS: Process Vents and Maintenance			7.10	4.29
NH_3 CAPS: Process Vents, Fugitives, and Maintenance			800.40	164.80
MAINTENANCE EMISSIONS CAPS: (6)		VOC	3671.97	46.52
		NO_x	97.28	2.45
		CO	646.55	7.40
		SO_2	1768.80	6.13
		H_2S	19.31	0.05
		HCl	4.00	0.002
		NH_3	700.00	0.95
		PM	1.98	0.40
INTERIM - MAINTENANCE, STARTUP, and SHUTDOWN EMISSIONS CAPS: (6)		VOC	6475.12	79.64
		NO_x	97.28	2.45
		CO	646.55	7.40
		SO_2	1768.80	6.13
		H_2S	19.31	0.05
		HCl	4.00	0.002
		NH_3	700.00	0.95
		PM	1.98	0.40
B-10	No. 18 Boiler	NO_x CO VOC	57.88 34.12 1.21	132.51 66.33 3.79

EMISSION SOURCES - INDIVIDUAL EMISSION RATE LIMITS AND SUBCAPS

AIR CONTAMINANTS DATA

		SO_2 PM	4.92 1.67	6.77 5.23
B-11	No. 19 Boiler	NO_x CO VOC SO_2 PM	8.73 18.93 1.21 4.72 1.67	38.23 82.93 3.24 6.13 4.47
B-12	600# Boiler	NO_x CO VOC SO_2 PM	492.85 20.85 1.33 5.84 1.84	172.69 73.05 4.66 11.91 6.43
B-19	300# Steam Boiler #1	NO_x CO VOC SO_2 PM	5.80 13.50 0.89 4.60 1.20	20.30 47.31 3.11 16.28 4.30
B-20	300# Steam Boiler #2	NO_x CO VOC SO_2 PM	5.80 13.50 0.89 4.60 1.20	20.30 47.31 3.11 16.28 4.30
B-21	300# Steam Boiler #3	NO_x CO VOC SO_2 PM	5.80 13.50 0.89 4.60 1.20	20.30 47.31 3.11 16.28 4.30
B-3	No. 10 Boiler	NO_x CO VOC SO_2 PM	23.65 17.80 0.40 2.09 0.56	82.85 22.23 1.41 3.53 1.95

EMISSION SOURCES - INDIVIDUAL EMISSION RATE LIMITS AND SUBCAPS

AIR CONTAMINANTS DATA

B-4	No. 11 Boiler	NO_x CO VOC SO_2 PM	17.01 7.57 0.48 1.78 0.67	59.59 18.32 1.59 2.35 2.18
B-6	No. 13 Boiler	NO_x CO VOC SO_2 PM	17.24 6.95 0.44 1.81 0.61	60.42 17.59 1.55 2.30 2.14
B-8	No. 15 Boiler	NO_x CO VOC SO_2 PM	40.53 25.20 0.84 3.22 1.17	65.89 46.45 2.34 4.05 3.23
B-9	No. 16 Boiler	NO_x CO VOC SO_2 PM	40.53 12.78 0.84 3.61 1.17	35.14 46.45 2.96 5.57 4.08
H-1	No. 1 Crude Charge Heater	NO_x CO VOC SO_2 PM	31.83 22.44 1.43 7.44 1.98	46.46 91.10 6.26 14.96 8.66
H-11	No. 2 Crude Charge Heater (Anderson)	NO_x CO VOC SO_2 PM	3.25 6.54 0.42 2.17 0.58	14.23 14.11 1.83 4.27 2.52
H-13	Gas Oil Frac. Heater	NO_x CO VOC SO_2 PM	15.69 3.41 0.22 1.13 0.30	68.72 14.95 0.95 1.97 1.32
H-14	Unifiner Charge Heater	NO_x CO VOC SO_2 PM	2.60 2.24 0.14 0.03 0.20	11.39 9.83 0.63 0.11 0.87
H-15	No. 1 Hydrotreater Charge Heater	NO_x CO	1.63 3.06	7.12 12.00

EMISSION SOURCES - INDIVIDUAL EMISSION RATE LIMITS AND SUBCAPS

AIR CONTAMINANTS DATA

		VOC SO_2 PM	0.19 0.84 0.27	0.70 1.41 0.96
H-18	C.C.R. Charge Heater	NO_x CO VOC SO_2 PM	13.70 11.30 1.48 7.68 2.04	52.81 19.80 6.47 13.27 8.94
H-2	No. 1 Vacuum Charge Heater	NO_x CO VOC SO_2 PM	3.53 6.36 0.41 2.11 0.56	15.47 12.75 1.77 3.91 2.45
H-26	No. 2 Vacuum Charge Heater	NO_x CO VOC SO_2 PM	3.60 6.92 0.44 2.29 0.61	15.76 30.30 1.93 4.22 2.67
H-27	“P/P” Mole Sieve Regeneration Heater	NO_x CO VOC SO_2 PM	0.99 0.60 0.04 0.20 0.05	0.76 0.65 0.04 0.22 0.06
H-28	Active Butane Oxygenate Heater	NO_x CO VOC SO_2 PM	1.16 1.00 0.06 0.33 0.09	5.08 3.25 0.28 1.45 0.39
H-30	Asphalt Tank Heaters (5501 and 5502)	NO_x CO VOC SO_2 PM	2.54 0.82 0.05 0.27 0.07	11.12 3.57 0.23 1.18 0.31
H-31B	Tanks 27, 28 Heater	NO_x CO VOC SO_2 PM	0.44 0.14 0.01 0.05 0.01	1.92 0.62 0.04 0.20 0.05
H-32	Tank Heaters (“20MS” and “20M6”)	NO_x CO VOC SO_2	0.80 0.56 0.04 0.19	3.50 2.46 0.16 0.82

EMISSION SOURCES - INDIVIDUAL EMISSION RATE LIMITS AND SUBCAPS

AIR CONTAMINANTS DATA

		PM		
H-32C	Asphalt Tank Heater "20M7"	NO_x CO VOC SO_2 PM	0.33 0.28 0.02 0.09 0.02	1.43 1.23 0.08 0.41 0.11
H-33	Tank Heaters 34, 551, 121, 141, and 552	NO_x CO VOC SO_2 PM	1.99 1.40 0.09 0.46 0.12	8.74 6.16 0.39 2.04 0.54
H-34	C.C.D.R. Stabilizer Reboiler Heater	NO_x CO VOC SO_2 PM	3.08 2.17 0.14 0.68 0.19	20.45 8.68 0.59 1.21 0.81
H-35	Tank "300M2" Heaters (4 Stacks)	NO_x CO VOC SO_2 PM	1.59 1.12 0.07 0.37 0.10	6.99 4.93 0.31 1.63 0.43
H-36	No. 2 Naphtha Hydrotreater Charge Heater	NO_x CO VOC SO_2 PM	1.78 4.86 0.31 1.11 0.43	7.80 5.72 0.97 1.70 1.34
H-37	No. 2 Naphtha Hydrotreater Des2 Reboiler	NO_x CO VOC SO_2 PM	6.40 2.41 0.16 0.30 0.22	15.97 9.59 0.65 1.21 0.89
H-38	#2 Reformer Charge Heater	NO_x CO VOC SO_2 PM	13.58 29.45 1.88 6.73 2.59	59.46 81.85 5.02 10.28 6.93
H-39	#2 Reformer Stabilizer Reboiler Heater	NO_x CO VOC SO_2 PM	2.92 2.06 0.13 0.63 0.18	12.78 6.59 0.44 0.89 0.60
H-40	P.D.A. Asph. Htr.	NO_x	8.49	37.17

EMISSION SOURCES - INDIVIDUAL EMISSION RATE LIMITS AND SUBCAPS

AIR CONTAMINANTS DATA

		CO VOC SO_2 PM	5.61 0.36 1.40 0.49	5.11 1.00 1.59 1.37
H-41	No. 2 Crude Charge Heater	NO_x CO VOC SO_2 PM	16.40 26.18 1.67 8.36 2.31	71.83 13.21 6.99 14.12 9.66
H-42	Hydrocracker Recycle Heater	NO_x CO VOC SO_2 PM	3.49 7.20 0.46 2.39 0.63	15.28 12.64 1.98 2.99 2.73
H-43	Hydrocracker “DEC4” Reboiler Heater	NO_x CO VOC SO_2 PM	3.31 7.37 0.47 2.36 0.65	14.49 11.77 1.85 3.84 2.55
H-45	#1 Hydrotreater Charge Heater	NO_x CO VOC SO_2 PM	2.66 5.93 0.35 0.89 0.48	11.67 4.82 0.73 1.44 1.01
H-46	C.C.R. Interheater	NO_x CO VOC SO_2 PM	7.48 13.76 0.88 4.56 1.21	32.77 60.27 3.84 8.79 5.31
H-47	Asphalt Blowstill Heater	NO_x CO VOC SO_2 PM	0.90 1.02 0.06 0.27 0.09	3.95 2.89 0.21 0.35 0.28
H-48	Turbine Fuel HDSU Heater	NO_x CO VOC SO_2 PM	3.78 8.88 0.57 2.94 0.78	16.55 14.24 2.45 4.26 3.38
H-51	Asphalt Tank Heater 300M3 (4 Stacks)	NO_x CO VOC	0.53 1.12 0.07	2.33 4.93 0.31

EMISSION SOURCES - INDIVIDUAL EMISSION RATE LIMITS AND SUBCAPS

AIR CONTAMINANTS DATA

		SO_2 PM	0.37 0.10	1.63 0.43
H-6	Dago Heater	NO_x CO VOC SO_2 PM	3.39 2.32 0.15 0.60 0.21	14.87 6.22 0.44 0.71 0.59
H-64	No. 4 Hydrotreater Charge Heater	NO_x CO VOC SO_2 PM	1.26 2.81 0.18 0.86 0.25	5.54 12.33 0.71 1.34 0.96
H-70	No. 2 Crude Charge Heater	NO_x CO VOC SO_2 PM	4.25 9.90 0.66 3.40 0.90	18.63 43.40 2.87 14.90 3.97
H-71	No. 3 Vacuum Heater	NO_x CO VOC SO_2 PM	2.13 5.00 0.30 1.70 0.45	6.06 14.10 0.90 4.80 1.29
H-72	PDA Asphalt Heater	NO_x CO VOC SO_2 PM	1.55 3.60 0.20 1.20 0.30	6.78 15.80 1.00 5.40 1.40
H-73	No. 3 Crude Heater-Petrochem (North)	NO_x CO VOC SO_2 PM	3.80 8.80 0.60 3.00 0.80	16.52 38.40 2.50 13.20 3.50
H-74	Hydrocracker Recycle Heater	NO_x CO VOC SO_2 PM	4.20 8.10 0.50 2.80 0.70	15.25 35.50 2.30 12.20 3.20
H-75	Hydrocracker “DEC4” Reboiler Heater	NO_x CO VOC SO_2 PM	3.80 7.40 0.50 2.60 0.70	13.98 32.50 2.20 11.20 3.00

EMISSION SOURCES - INDIVIDUAL EMISSION RATE LIMITS AND SUBCAPS

AIR CONTAMINANTS DATA

H-76	Diesel Hydrotreater Charge Heater	NO_x CO VOC SO_2 PM	2.01 4.86 0.31 1.61 0.43	8.81 21.29 1.36 7.06 1.88
H-77	No. 1 Reformer Charge Heater	NO_x CO VOC SO_2 PM	12.29 28.60 1.89 9.83 2.62	53.82 125.26 8.29 43.04 11.46
H-78	No. 1 Reformer Interheaters	NO_x CO VOC SO_2 PM	3.67 8.55 0.57 2.94 0.78	16.09 37.46 2.48 12.87 3.43
H-79	No. 1 Ref. Stabilizer Reboiler	NO_x CO VOC SO_2 PM	1.16 2.70 0.18 0.93 0.25	5.08 11.83 0.78 4.06 1.08
H-8	HCU Fractionation Charge Heater	NO_x CO VOC SO_2 PM	4.69 7.22 0.48 1.93 0.66	20.52 28.77 1.42 3.69 1.96
H-80	FCC Gas HDS Charge Heater	NO_x CO VOC SO_2 PM	3.05 8.33 0.53 2.33 0.73	13.36 36.46 2.32 5.03 3.21
H-81	C4 ISOM Heater	NO_x CO VOC SO_2 PM	0.31 0.70 0.05 0.20 0.07	1.36 3.20 0.20 1.09 0.29
H-82	Coker Heater	NO_x CO VOC SO_2 PM	5.80 13.50 0.89 4.60 1.20	25.40 59.10 3.90 20.30 5.40
H-83	Polymer Modified Asphalt Heater	NO_x CO	0.39 0.90	1.69 3.90

EMISSION SOURCES - INDIVIDUAL EMISSION RATE LIMITS AND SUBCAPS

AIR CONTAMINANTS DATA

		VOC SO_2 PM	0.06 0.30 0.08	0.26 1.36 0.36
H-84	No. 2 Reformer No. 1 Interheater	NO_x CO VOC SO_2 PM	3.79 8.80 0.58 3.00 0.80	16.60 38.60 2.56 13.30 3.50
H-85	No. 2 Ref. Stab. Reboiler	NO_x CO VOC SO_2 PM	1.52 3.50 0.20 1.20 0.30	6.67 15.50 1.00 5.30 1.40
H-86	No. 2 Naphtha Hydrotreater Charge Heater (Final)	NO_x CO VOC SO_2 PM	2.00 4.70 0.30 1.60 0.40	8.81 20.50 1.40 7.00 1.90
H-87	SRU No. 3 Hot Oil Heater	NO_x CO VOC SO_2 PM	0.72 1.70 0.10 0.58 0.15	3.15 7.30 0.49 2.50 0.67
H-88	Acid Plant Feed Heater	NO_x CO VOC SO_2 PM	0.79 0.48 0.03 0.16 0.04	3.46 0.43 0.03 0.50 0.04
H-9	No. 3 Crude Heater-Petrochem (South)	NO_x CO VOC SO_2 PM	13.08 7.48 0.37 1.36 0.51	57.31 6.99 1.22 2.16 1.68
F-20	No. 1 Refinery Cooling Tower	VOC	2.62	11.46
F-21	Gasoline Plant Cooling Tower (4)	VOC	1.75	7.68
F-47	No. 2 Refinery Cooling Tower	VOC	1.29	5.63
F-93	No. 3 Refinery Cooling Tower	VOC	1.89	8.28
E-7	Unifiner Engine (Clark)	NO_x	4.56	19.98

EMISSION SOURCES - INDIVIDUAL EMISSION RATE LIMITS AND SUBCAPS

AIR CONTAMINANTS DATA

		CO VOC SO_2 PM	0.56 0.17 0.01 0.07	2.44 0.76 0.01 0.29
FL-9	Brine Degas Drum Flare	NO_x CO VOC SO_2	8.21 16.38 30.15 0.01	0.99 1.98 5.52 0.01
FL-8	No. 2 Main Refinery Flare (10)	NO_x CO VOC SO_2 H_2S	40.46 210.06 352.09 19.05 6.07	26.49 147.95 141.07 4.12 0.27
FL-1	No.1 Main Refinery Flare (10)	NO_x CO VOC SO_2 H_2S	40.46 210.06 352.09 19.05 6.07	26.49 147.95 141.07 4.12 0.27
FL-3	FCCU Flare (10)	NO_x CO VOC SO_2 H_2S	40.46 210.06 352.09 19.05 6.07	26.49 147.95 141.07 4.12 0.27
FL-4	HCU Flare (10)	NO_x CO VOC SO_2 H_2S	40.46 210.06 352.09 19.05 6.07	26.49 147.95 141.07 4.12 0.27
FL-6	Wastewater Flare	NO_x CO VOC SO_2	1.90 9.70 4.54 3.41	4.17 21.26 9.95 1.21
Combined Compliance Annual Caps for Flares FL-1, FL-3, FL-4, and FL-8		NO_x CO VOC SO_2 H_2S		26.49 147.95 141.07 4.12 0.27
FGR-SUMP	FGR Oily Water Sump	VOC	0.03	0.07
F-Coke PM	Coker PM Fugitives	PM	0.41	1.35
FL-7	Loading Rack Vapor Combustor	NO_x CO VOC	9.53 26.30 26.52	11.06 29.46 20.25

EMISSION SOURCES - INDIVIDUAL EMISSION RATE LIMITS AND SUBCAPS

AIR CONTAMINANTS DATA

		SO_2		
L-11	Truck Loading Rack	VOC	11.05	2.12
L-13	Railcar Loading Rack	VOC	0.25	0.10
L-14	North Railcar Rack	VOC	18.35	0.81
L-2	Asphalt Truck Loading Rack	VOC	4.49	2.28
L-5	Railcar Rack (Diesel)	VOC	3.41	1.83
L-7	Asphalt Railcar Rack	VOC	0.42	1.37
V-29	Sulfuric Acid Plant Vent	SO_2	21.67	70.17
V-22	Asphalt Blowstill Vent	NO_x CO VOC SO_2 PM	2.15 42.37 2.15 2.16 7.18	3.78 74.33 3.78 4.35 12.60
V-20	F.C.C.U. (Fluidized Catalytic Cracking Unit)	NO_x CO VOC SO_2 PM NH_3 (9) H_2SO_4	220.11 37.80 10.55 459.69 80.00 40.74 12.40	163.36 93.07 38.19 138.69 294.02 146.00 41.98
V-18	No. 1 Reformer Cat Regenerator Vent	CO VOC	3.27 0.62	14.31 2.72
V-21	No. 2 Reformer Cat Regenerator Vent	CO VOC	70.00 0.03	3.36 0.08
V-13	Soda Ash Silo	PM	0.01	0.01
V-14	Lime Silo Vent	PM	0.01	0.01
V-17	FCC Catalyst Silo Vent	PM	0.01	0.01
V-5	SRU No. 1 Incinerator	NO_x CO VOC SO_2 PM	0.40 1.37 0.12 6.87 0.03	1.75 5.98 0.53 21.54 0.13
V-16	SRU No. 2 Incinerator	NO_x CO VOC SO_2 PM	0.56 13.66 0.20 10.96 0.04	2.45 59.82 0.87 48.01 0.18
V-28	SRU No. 3 Incinerator	NO_x CO VOC SO_2	1.60 5.02 0.54 28.69	7.01 21.99 2.38 125.64

EMISSION SOURCES - INDIVIDUAL EMISSION RATE LIMITS AND SUBCAPS

AIR CONTAMINANTS DATA

		PM		
S-044	Tank 144	Caustic	0.01	0.01
S-142	Tank 232	Caustic	0.01	0.01
CARBON CAN	Carbon Canister System Fugitives (CAS1 - CAS7)	VOC	5.04	11.04
F-1CRUDE, F-REF_HT, F-2ALKY, F-2CRUDE, F-2REF_HT, F-CRUDE, F-4HT, F-85, F-HCU, F-ALKY_PDA, F-ASPHALT, F-BRINE, F-C4ISOM, F-CASING, F-CAVERN, F-FGR, F-COKE_VOC, F-DESALT, F-DHDSU, F-ETNKFRM, F-FCCU, F-GASBLD, F-GASPLT, F-GHDS, F-HDS_GOF, F-LPG, F-IOCTENE, F-NBULKLD, F-NTNKFRM, F-ORU, F-PENEX, F-PMA, F-PSA, F-PUMPSTA, F-RAILLOAD, F-RLE, F-SBULKLD, F-SRU1, F-SRU2, F-SRU3, F-SWS, F-UNIFINER, F-WTNKFRM, F-MSAT, F-WWTP, F-AMINE2, F-ALKY, F-MSATLOAD, FGR-SUMP	VOC Sub cap for Fugitives (5)	VOC	159.90	700.35
S-001, S-002, S-003, S-004, S-005, S-006, S-007, S-008, S-009, S-010, S-011, S-012, S-013, S-014, S-015, S-016, S-017, S-018, S-019, S-020, S-021, S-022, S-023, S-024, S-025, S-026, S-027, S-028, S-031, S-032, S-033, S-035, S-037, S-	Sub cap for Storage Tanks	VOC	141.70	380.94

EMISSION SOURCES - INDIVIDUAL EMISSION RATE LIMITS AND SUBCAPS

AIR CONTAMINANTS DATA

038, S-039, S-040, S-042, S-043, S-045, S-046, S-049, S-052, S-053, S-055, S-056, S-057, S-058, S-059, S-060, S-063, S-064, S-065, S-066, S-067, S-068, S-069, S-070, S-071, S-072, S-073, S-074, S-075, S-076, S-086, S-090, S-095, S-137, S-138, S-139, S-140, S-141, S-143, S-144, S-150, S-168, S-173, S-174, S-175, S-176, S-177, S-179, S-180, S-183, S-184, S-186, S-187, S-192, S-194, S-195, S-196, S-197, S-198, S-199, S-200, S-202, S-203, S-204, S-209, S-210, S-211, S-212, S-213, S-214, S-215, S-216, S-217, S-218, S-219, S-220, S-221, S-222, S-223, S-224, S-225, S-229				

EMISSION SOURCES - EMISSIONS CAPS AND INDIVIDUAL EMISSION RATE LIMITS

(1) Emission point identification - either specific equipment designation or emission point number (EPN) from a plot plan.
(2) Specific point source names. For fugitive sources, use an 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
CO - carbon monoxide
SO_2 - sulfur dioxide
H_2S - hydrogen sulfide
H_2SO_4 - sulfuric acid
HCl - hydrogen chloride
NH_3 - ammonia
PM - particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$
PM_{10} - particulate matter equal to or less than 10 microns in diameter
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period
(5) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
(6) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
In accordance with Special Condition No. 59, the maintenance emission caps become effective on December 15, 2010. The interim maintenance emission caps are effective from June 17, 2010 through December 15, 2010.
(7) The emission rates listed for the VOC, NO_x, and CO subcaps are included in the total VOC, NO_x, and CO cap for the site. These subcaps were established to establish that the Benzene Concentrate Extraction System project was not subject to PSD review.
(8) The emission caps have been carried forward from the flexible permit and do not include MSS emissions. The only emission caps that are limiting (lower than the sum of the subcaps and individual emission rate limits for that air contaminant) are those for NO_x.
(9) FCCU contribution to the ammonia cap.
(10) Short term emission rates are emissions caps and represent the combined emission rates from flare EPNs FL-1, FL-3. FL-4, and FL-8.

Dated: March 8, 2012