Emission Sources - Maximum Allowable Emission Rates

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, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
VOC CAPS: Combustion Units, Tanks, Process Vents, Loading, Flares, Vapor Combustors, Fugitives (5), Wastewater, Cooling Towers, Engines, Relief Valves, and Maintenance		VOC	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)		VOC	25.30	43.39
NO_x CAPS: (8) Combustion Units, Flares, Vapor Combustors, Process Vents, Loading, Engines, and Maintenance		NO_x	490.80	1701.00
NO_x SUBCAP: (7) Vapor Combustor (FL-7)		NO_x	2.33	1.29
CO CAPS: Combustion Units, Flares, Vapor Combustors, Process Vents, Loading, Engines, and Maintenance		CO	1408.00	3275.00
CO SUBCAP: (7) Vapor Combustor (FL-7)		CO	7.17	4.22
SO_2 CAPS: Combustion Units, Flares, Vapor Combustors, Process Vents, Loading, Engines, and Maintenance		SO_2	1120.00	2604.00

Emission Sources - Maximum Allowable Emission Rates

SO_2 SUBCAP: (7) Vapor Combustor (FL-7)		SO_2	0.09	0.03
PM CAPS: Combustion Units, Flares, Vapor Combustors, Process Vents, Engines, and Maintenance		PM	138.00	569.80
BENZENE CAPS: Tanks, Cooling Towers, Loading, and Fugitives (5)		Benzene	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)		Benzene	9.51	11.94
H_2S CAPS: Flares, Process Vents, Fugitives, and Maintenance		H_2S	7.60	0.70
SULFURIC ACID CAPS (H_2SO_4): Process Vents		H_2SO_4	12.40	54.10
CHLORINE CAPS: Process Vents		Cl_2	0.40	0.50
HCl CAPS: Process Vents and Maintenance		HCl	7.10	4.29
NH_3 CAPS: Process Vents, Fugitives, and Maintenance		NH_3	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
B-10	No. 18 Boiler	NO_x CO VOC SO_2 PM/ PM_{10}/$PM_{2.5}$	8.73 34.12 1.21 2.32 1.67	38.22 66.33 5.28 10.16 7.30
B-11	No. 19 Boiler	NO_x CO VOC SO_2 PM/PM_{10}/$PM_{2.5}$	8.73 18.93 1.21 2.32 1.67	38.23 82.93 5.28 10.16 7.30

Emission Sources - Maximum Allowable Emission Rates

B-12	600# Boiler	NO_x CO VOC SO_2 PM	49.28 20.85 1.33 7.58 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
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 13.26 0.84 3.61 1.17	35.14 46.45 2.96 5.57 4.08

Emission Sources - Maximum Allowable Emission Rates

H-1	No. 1 Crude Charge Heater	NO_x CO VOC SO_2 $PM/PM_{10}/PM_{2.5}$	31.83 26.21 1.67 8.69 2.31	46.46 91.10 6.26 14.96 8.66
H-11	No. 2 Crude Charge Heater (Anderson)	NO_x CO VOC SO_2 $PM/PM_{10}/PM_{2.5}$	3.87 7.80 0.50 2.59 0.69	14.23 14.11 1.83 4.27 2.52
H-13	Gas Oil Frac. Heater	NO_x CO VOC SO_2 $PM/PM_{10}/PM_{2.5}$	9.80 4.61 0.29 1.53 0.41	31.80 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 0.38 0.20	11.39 9.83 0.63 1.20 0.87
H-15	No. 1 Hydrotreater Charge Heater	NO_x CO VOC SO_2 PM	1.63 3.06 0.19 0.84 0.27	7.12 13.39 0.70 1.41 0.96
H-18	C.C.R. Charge Heater	NO_x CO VOC SO_2 $PM/PM_{10}/PM_{2.5}$	17.96 26.40 2.12 11.04 2.93	52.82 33.53 7.08 36.91 8.95
H-2	No. 1 Vacuum Charge Heater	NO_x CO VOC SO_2 $PM/PM_{10}/PM_{2.5}$	3.71 6.68 0.43 2.21 0.59	15.47 12.75 1.77 3.91 2.45
H-26	No. 2 Vacuum Charge Heater	NO_x CO VOC SO_2 $PM/PM_{10}/PM_{2.5}$	4.06 7.81 0.50 2.59 0.69	15.76 30.30 1.93 4.22 2.67
H-27	"P/P" Mole Sieve Regeneration Heater	NO_x CO VOC SO_2 $PM/PM_{10}/PM_{2.5}$	1.35 0.81 0.05 0.27 0.07	0.76 0.65 0.04 0.22 0.06

Emission Sources - Maximum Allowable Emission Rates

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 PM	0.80 0.56 0.04 0.19 0.05	3.50 2.46 0.16 0.82 0.22
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

Emission Sources - Maximum Allowable Emission Rates

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 10.65 0.97 1.70 1.34
H-37	No. 2 Naphtha Hydrotreater Des2 Reboiler	NO_x CO VOC SO_2 PM	6.40 5.41 0.16 0.91 0.22	15.97 13.51 0.65 1.65 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 $PM/PM_{10}/PM_{2.5}$	3.47 2.44 0.16 0.89 0.22	12.78 9.01 0.44 0.89 0.60
H-40	P.D.A. Asph. Htr.	NO_x CO VOC SO_2 $PM/PM_{10}/PM_{2.5}$	10.21 6.75 0.43 2.45 0.59	37.17 12.28 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 43.57 6.99 14.12 9.66
H-42	Hydrocracker Recycle Heater	NO_x CO VOC SO_2 $PM/PM_{10}/PM_{2.5}$	3.64 7.51 0.48 2.49 0.66	15.28 15.76 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 16.13 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 0.99 0.48	11.67 12.99 0.73 3.18 1.01

Emission Sources - Maximum Allowable Emission Rates

H-46	C.C.R. Interheater	NO_x CO VOC SO_2 $PM/PM_{10}/PM_{2.5}$	9.53 17.53 1.12 5.81 1.54	32.77 60.27 3.84 8.79 5.31
H-47	Asphalt Blowstill Heater	NO_x CO VOC SO_2 PM	0.90 1.69 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 $PM/PM_{10}/PM_{2.5}$	3.42 6.67 0.56 2.92 0.77	14.98 14.61 2.46 4.26 3.39
H-51	Asphalt Tank Heater 300M3 (4 Stacks)	NO_x CO VOC SO_2 PM	0.53 1.12 0.07 0.37 0.10	2.33 4.93 0.31 1.63 0.43
H-6	Dago Heater	NO_x CO VOC SO_2 PM	3.39 2.39 0.15 0.60 0.21	14.87 10.48 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

Emission Sources - Maximum Allowable Emission Rates

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
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

Emission Sources - Maximum Allowable Emission Rates

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 VOC SO_2 PM	0.39 0.90 0.06 0.30 0.08	1.69 3.90 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

Emission Sources - Maximum Allowable Emission Rates

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 16.38 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 CO VOC SO_2 PM	4.56 0.56 0.17 0.01 0.07	19.98 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	2.42 12.35 7.85 1.10 0.012	7.97 40.60 25.75 1.09 0.012
FL-1	No.1 Main Refinery Flare (10)	NO_x CO VOC SO_2 H_2S	12.67 65.28 41.51 35.10 4.09	11.89 61.27 38.96 23.37 0.25
FL-3	FCCU Flare (10)	NO_x CO VOC SO_2 H_2S	16.73 87.95 271.06 23.35 1.79	6.95 50.17 87.26 7.68 0.08

Emission Sources - Maximum Allowable Emission Rates

FL-4	HCU Flare (10)	NO_x CO VOC SO_2 H_2S	8.63 44.48 31.66 35.47 4.20	7.50 38.62 27.49 11.44 0.12
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 Short Term and Annual Caps for Flares FL-1, FL-3, FL-4, and FL-8 (11)		NO_x CO VOC SO_2 H_2S	40.46 210.06 352.09 19.05 6.07	34.31 190.66 179.46 15.69 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 SO_2	6.12 17.79 18.01 0.13	9.98 27.45 14.20 0.06
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/L-11	Railcar/ Truck Loading Rack	VOC	13.15	9.05
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

Emission Sources - Maximum Allowable Emission Rates

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	$PM/PM_{10}/PM_{2.5}$	0.09	0.02
V-14	Lime Silo Vent	$PM/PM_{10}/PM_{2.5}$	0.09	0.02
V-17	FCC Catalyst Silo Vent	PM	0.01	0.01
V-5	SRU No. 1 Incinerator	NO_x CO VOC SO_2 $PM/PM_{10}/PM_{2.5}$	0.40 1.37 0.12 6.87 0.26	1.75 5.98 0.53 21.54 1.13
V-16	SRU No. 2 Incinerator	NO_x CO VOC SO_2 $PM/PM_{10}/PM_{2.5}$	0.56 13.66 0.20 10.96 0.84	2.45 59.82 0.87 48.01 3.69
V-28	SRU No. 3 Incinerator	NO_x CO VOC SO_2 PM	1.60 5.02 0.54 28.69 0.12	7.01 21.99 2.38 125.64 0.52
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

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F-1CRUDE, F-1REF_HT, F-2ALKY, F-2CRUDE, F-2REF_HT, F-3CRUDE, 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-MSATLOAD, F-ALKY, F-SUMP	VOC Sub cap for Fugitives (5)	VOC	164.88	710.51

Emission Sources - Maximum Allowable Emission Rates

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-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	Sub cap for Storage Tanks	VOC	141.70	380.94

Emission Sources - Maximum Allowable Emission Rates

Permit by rule (PBR) sources incorporated by reference. Sources remain authorized by the PBR(s) as listed below:				
PBR Registration Number 87455				
E-1				
No. 1 RLE Compressor Engine				
NO_x			2.92	12.80
		CO	0.36	1.56
		VOC	0.11	0.49
		SO_2	0.01	0.01
		$PM/PM_{10}/PM_{2.5}$	0.05	0.20
		NO_x	2.92	12.80
		CO	0.36	1.56
		VOC	0.11	0.49
		SO_2	0.01	0.01
		$PM/PM_{10}/PM_{2.5}$	0.05	0.20
OX-001				
F-Centrifuge				
NO_x			0.01	0.01
		CO	0.14	0.63
		VOC	0.01	0.01
		SO_2	0.15	0.67

(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) Pre-FGRS limits.
(11) Post-FGRS limits.

Date: February 4, 2013