

## Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 50607, PSDTX331M1, PSDTX804, and PSDTX1017M1

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)
Normal Operations Emission Cap (10)	Combustion Units, Cooling Towers, Flares/Vapor Combustor, Fugitives (5), Loading, Process Vents, Storage Tanks, and Wastewater	VOC	397.60	1024.98
		Benzene	18.41	37.28
Normal Operations Emission Cap (10)	Combustion Units, Flares/Vapor Combustor, and Process Vents	NO <sub>x</sub>	253.26	534.28
		CO	533.19	770.85
		SO <sub>2</sub>	189.06	236.25
Normal Operations Emission Cap (10)	Combustion Units, Cooling Towers, and Process Vents	PM	54.73	154.79
		PM <sub>10</sub>	54.73	154.79
Normal Operations Emission Cap (10)	Combustion Units, Flares/Vapor Combustor, Fugitives, Process Vents, and Storage Tanks	H <sub>2</sub> S	3.35	12.60
F-028	DHT/ASU (5)	NH <sub>3</sub>	0.01	0.01
F-100	No. 1 Crude (5)	NH <sub>3</sub>	0.01	0.02
F-500	No. 1 Reformer	NH <sub>3</sub>	0.01	0.01
F-850	South Merox Unit (5)	NH <sub>3</sub>	0.01	0.01
F-1000	POU (5)	NH <sub>3</sub>	0.01	0.01
F-1400	Vacuum (5)	NH <sub>3</sub>	0.01	0.01
F-1500	HCU (5)	NH <sub>3</sub>	0.01	0.02
F-2000	ROSE Unit (5)	NH <sub>3</sub>	0.01	0.01
F-2200	DOT/Reformate Splitter	NH <sub>3</sub>	0.17	0.76

Emission Sources - Maximum Allowable Emission Rates

	(5)			
F-2300	ATS (5)	NH <sub>3</sub>	0.01	0.01
F-2300	SWS (5)	NH <sub>3</sub>	0.01	0.04
F-2400	FCCU (5)	NH <sub>3</sub>	0.04	0.17
F-2400	FCCU Gas Con (5)	NH <sub>3</sub>	0.01	0.01
F-2400	FCCU Merox (5)	NH <sub>3</sub>	0.01	0.01
F-3700	HCU (5)	NH <sub>3</sub>	0.01	0.01
F-3800	No. 2 HDU (5)	NH <sub>3</sub>	0.01	0.02
F-3900	LEU (5)	NH <sub>3</sub>	0.01	0.01
F-4000	No. 1 and No. 2 SRU (5)	NH <sub>3</sub>	0.01	0.04
F-5400	BTX Unit Fugitives	NH <sub>3</sub>	0.05	0.22
H-028	Crude Charge Heater 1	NO <sub>x</sub>	11.18	23.41
		CO	14.61	44.41
		VOC	1.10	4.80
		SO <sub>2</sub>	6.17	7.56
		PM	1.51	6.63
		PM <sub>10</sub>	1.51	6.63
H-036	Crude Charge Heater 1	NO <sub>x</sub>	11.18	31.56
		CO	14.61	55.54
		VOC	1.10	4.80
		SO <sub>2</sub>	7.95	9.23
		PM	1.51	6.63
		PM <sub>10</sub>	1.51	6.63

Emission Sources - Maximum Allowable Emission Rates

H-016	Vacuum Unit Charge Heater	NO <sub>x</sub>	4.95	21.66
		CO	10.16	21.70
		VOC	0.76	3.34
		SO <sub>2</sub>	6.82	6.75
		PM	1.05	4.62
		PM <sub>10</sub>	1.05	4.62
		PM <sub>2.5</sub>	1.05	4.62
H-021	ROSE "DAGO" Heater	NO <sub>x</sub>	1.90	8.31
		CO	2.69	4.71
		VOC	0.24	0.84
		SO <sub>2</sub>	1.18	1.60
		PM	0.33	1.17
		PM <sub>10</sub>	0.33	1.17
H-022	Asphalt Heater	NO <sub>x</sub>	0.98	4.28
		CO	1.96	3.96
		VOC	0.15	0.64
		SO <sub>2</sub>	1.09	1.38
		PM	0.20	0.89
		PM <sub>10</sub>	0.20	0.89

Emission Sources - Maximum Allowable Emission Rates

H-020	Isostripper Reboiler Heater	NO <sub>x</sub>	1.99	4.90
		CO	3.12	3.83
		VOC	0.27	0.75
		SO <sub>2</sub>	0.47	1.16
		PM	0.37	1.04
		PM <sub>10</sub>	0.37	1.04
B-007	"BTX" Boiler	NO <sub>x</sub>	12.33	34.16
		CO	18.02	27.76
		VOC	1.26	4.70
		SO <sub>2</sub>	0.13	0.44
		PM	1.74	6.49
		PM <sub>10</sub>	1.74	6.49
H-043	H043 BTX Reboiler Heater	NO <sub>x</sub>	4.27	9.86
		CO	5.10	5.90
		VOC	0.38	0.89
		SO <sub>2</sub>	3.43	1.90
		PM	0.53	1.22
		PM <sub>10</sub>	0.53	1.22
		PM <sub>2.5</sub>	0.53	1.22

Emission Sources - Maximum Allowable Emission Rates

H-044	BTX Reboiler Heater	NO <sub>x</sub>	1.83	5.75
		CO	3.65	4.93
		VOC	0.28	0.89
		SO <sub>2</sub>	1.50	1.68
		PM	0.39	1.22
		PM <sub>10</sub>	0.39	1.22
B-004	Boiler 6F1-A & Boiler 6F1-B	NO <sub>x</sub>	25.97	72.43
		CO	9.28	12.94
		VOC	0.80	2.23
		SO <sub>2</sub>	3.79	4.77
		PM	1.11	3.08
		PM <sub>10</sub>	1.11	3.08

Emission Sources - Maximum Allowable Emission Rates

B-006	East Plant Boiler Emissions	NO <sub>x</sub>	13.07	49.82
		CO	7.83	12.98
		VOC	0.59	2.24
		SO <sub>2</sub>	3.67	4.52
		PM	0.81	3.09
		PM <sub>10</sub>	0.81	3.09
H-041	DOT H2 Recycle Furnace	NO <sub>x</sub>	3.40	5.70
		CO	3.50	2.92
		VOC	0.27	0.44
		SO <sub>2</sub>	2.34	0.78
		PM	0.36	0.60
		PM <sub>10</sub>	0.36	0.60
		PM <sub>2.5</sub>	0.36	0.60
H-039	No. 1 SRU Hot Oil Heater	NO <sub>x</sub>	0.69	1.60
		CO	0.50	2.17
		VOC	0.04	0.16
		SO <sub>2</sub>	0.33	0.31
		PM	0.05	0.23
		PM <sub>10</sub>	0.05	0.23
H-047	No. 2 SRU Hot Oil Heater	NO <sub>x</sub>	1.84	6.58
		CO	2.46	4.38
		VOC	0.18	0.65
		SO <sub>2</sub>	1.65	1.30
		PM	0.26	0.91

Emission Sources - Maximum Allowable Emission Rates

		PM <sub>10</sub>	0.26	0.91
		PM <sub>2.5</sub>	0.26	0.91

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H-015A	Lubr. Oil Crude Atmospheric Heater (H-1001)	NO <sub>x</sub>	0.69	2.60
		CO	1.23	2.15
		VOC	0.11	0.49
		SO <sub>2</sub>	0.01	0.05
		PM	0.16	0.68
		PM <sub>10</sub>	0.16	0.68
H-015B	Lubr. Oil Crude Atmospheric Heater (H-1002)	NO <sub>x</sub>	0.38	1.41
		CO	0.67	1.17
		VOC	0.06	0.27
		SO <sub>2</sub>	0.01	0.03
		PM	0.08	0.37
		PM <sub>10</sub>	0.08	0.37
H-037	HDU Charge Heater 2	NO <sub>x</sub>	2.68	6.72
		CO	3.28	4.39
		VOC	0.26	0.66
		SO <sub>2</sub>	1.34	0.24
		PM	0.36	0.91
		PM <sub>10</sub>	0.36	0.91
H-038	HDU Reboiler Heater 2	NO <sub>x</sub>	1.85	4.65
		CO	2.88	4.18
		VOC	0.25	0.63
		SO <sub>2</sub>	0.88	0.99
		PM	0.34	0.87
		PM <sub>10</sub>	0.34	0.87



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H-014	Naphtha Splitter Reboiler	NO <sub>x</sub>	4.16	13.11
		CO	4.60	6.05
		VOC	0.34	1.09
		SO <sub>2</sub>	1.96	2.09
		PM	0.48	1.50
		PM <sub>10</sub>	0.48	1.50
H-034	H.C.U. Recycle Heater	NO <sub>x</sub>	3.47	11.24
		CO	4.99	7.02
		VOC	0.37	1.21
		SO <sub>2</sub>	2.40	2.24
		PM	0.52	1.67
		PM <sub>10</sub>	0.52	1.67

Emission Sources - Maximum Allowable Emission Rates

H-035	H.C.U. Debutanizer Reboiler Heater	NO <sub>x</sub>	3.39	11.67
		CO	6.08	9.26
		VOC	0.46	1.57
		SO <sub>2</sub>	4.09	2.81
		PM	0.63	2.17
		PM <sub>10</sub>	0.63	2.17
H-018	H.C.U. Fractionation Heater	PM <sub>2.5</sub>	0.63	2.17
		NO <sub>x</sub>	4.24	10.52
		CO	2.82	3.05
		VOC	0.21	0.53
		SO <sub>2</sub>	1.85	0.93
		PM	0.29	0.73
H-019	H.C.U. Fractionation Heater	PM <sub>10</sub>	0.29	0.73
		NO <sub>x</sub>	2.70	8.02
		CO	4.30	3.47
		VOC	0.33	0.52
		SO <sub>2</sub>	2.89	1.51
		PM	0.44	0.72
		PM <sub>10</sub>	0.44	0.72
		PM <sub>2.5</sub>	0.44	0.72

Emission Sources - Maximum Allowable Emission Rates

H-045	DHT Charge Heater	NO <sub>x</sub>	2.05	8.98
		CO	2.95	5.53
		VOC	0.22	0.97
		SO <sub>2</sub>	1.93	1.82
H-046	Fractionator Feed Heater	PM	0.31	1.34
		PM <sub>10</sub>	0.31	1.34
		PM <sub>2.5</sub>	0.31	1.34
		NO <sub>x</sub>	2.88	12.59
		CO	4.59	9.06
		VOC	0.34	1.51
		SO <sub>2</sub>	2.87	3.11
H-023	Tracing Oil Heater	PM	0.48	2.09
		PM <sub>10</sub>	0.48	2.09
		PM <sub>2.5</sub>	0.48	2.09
		NO <sub>x</sub>	0.09	0.27
		CO	0.15	0.22
		VOC	0.01	0.04
		SO <sub>2</sub>	0.08	0.08
		PM	0.02	0.06
		PM <sub>10</sub>	0.02	0.06
		PM <sub>2.5</sub>	0.02	0.06

Emission Sources - Maximum Allowable Emission Rates

H-004	Lubr. HDS Charge Heater	NO <sub>x</sub>	0.41	1.79
		CO	0.88	3.85
		VOC	0.06	0.27
H-031	No. 1 HDU Stripper Reboiler Heater	SO <sub>2</sub>	0.01	0.03
		PM	0.09	0.37
		PM <sub>10</sub>	0.09	0.37
		PM <sub>2.5</sub>	0.09	0.37
		NO <sub>x</sub>	0.79	3.44
		CO	1.57	6.88
		VOC	0.12	0.51
H-010	No. 1 HDU Reactor Charge Heater	SO <sub>2</sub>	1.06	0.85
		PM	0.16	0.71
		PM <sub>10</sub>	0.16	0.71
		PM <sub>2.5</sub>	0.16	0.71
		NO <sub>x</sub>	1.05	4.59
		CO	2.10	9.18
		VOC	0.16	0.69
		SO <sub>2</sub>	1.41	1.11
		PM	0.22	0.96
		PM <sub>10</sub>	0.22	0.96
		PM <sub>2.5</sub>	0.22	0.96

Emission Sources - Maximum Allowable Emission Rates

H-030	No. 2 Reformer Charge Heaters	NO <sub>x</sub>	19.06	-
		CO	15.46	-
		VOC	2.38	-
H-032	No. 2 Reformer Charge Heater	SO <sub>2</sub>	11.39	-
		PM	3.29	-
		PM <sub>10</sub>	3.29	-
		PM <sub>2.5</sub>	3.29	-
		NO <sub>x</sub>	12.27	-
		CO	10.31	-
		VOC	0.97	-
H-033	No. 2 Reformer Stab. Reboiler	SO <sub>2</sub>	8.72	-
		PM	1.34	-
		PM <sub>10</sub>	1.34	-
		PM <sub>2.5</sub>	1.34	-
		NO <sub>x</sub>	2.25	-
		CO	4.05	-
		VOC	0.30	-
H-012	No.1 Reformer Charge Heaters	SO <sub>2</sub>	2.71	-
		PM	0.42	-
		PM <sub>10</sub>	0.42	-
		PM <sub>2.5</sub>	0.42	-
		NO <sub>x</sub>	5.41	-
		CO	7.56	-

Emission Sources - Maximum Allowable Emission Rates

H-013	No. 1 Stabilizer Reboiler Heater	VOC	0.57	-
		SO <sub>2</sub>	4.94	-
		PM	0.78	-
		PM <sub>10</sub>	0.78	-
		PM <sub>2.5</sub>	0.78	-
		NO <sub>x</sub>	1.86	-
		CO	1.24	-
H-030, H-032, H-033, H-012, and	Subcaps for No.1 and No. 2 Reformer Unit	VOC	0.09	-
		SO <sub>2</sub>	0.83	-
		PM	0.13	-
		PM <sub>10</sub>	0.13	-
		PM <sub>2.5</sub>	0.13	-
		NO <sub>x</sub>	-	91.88
		CO	-	79.42
S-007, S-008, S-009, S-031, S-032, S-033, S-034, S-035, S-036, S-037, S-038, S-039, S-040, S-041, S-042, S-043, S-044, S-100, S-101, S-102, S-108, S-114, S-115, S-116, S-119,	Subcaps for Storage Tanks	VOC	-	10.46
		SO <sub>2</sub>	-	17.68
		PM	-	14.46
		PM <sub>10</sub>	-	14.46
		PM <sub>2.5</sub>	-	14.46
		VOC	84.69	134.74

Emission Sources - Maximum Allowable Emission Rates

H-012	No.1 Reformer Charge Heaters	NO <sub>x</sub>	5.41	-
		CO	7.56	-
		VOC	0.57	-
		SO <sub>2</sub>	4.94	-
		PM	0.78	-
		PM <sub>10</sub>	0.78	-
		PM <sub>2.5</sub>	0.78	-
H-013	No. 1 Stabilizer Reboiler Heater	NO <sub>x</sub>	1.86	-
		CO	1.24	-
		VOC	0.09	-
		SO <sub>2</sub>	0.83	-
		PM	0.13	-
		PM <sub>10</sub>	0.13	-
		PM <sub>2.5</sub>	0.13	-
H-030, H-032, H-033, H-012, and H-013	Subcaps for No.1 and No.2 Reformer Unit Heaters	NO <sub>x</sub>	-	91.88
		CO	-	79.42
		VOC	-	10.46
		SO <sub>2</sub>	-	17.68
		PM	-	14.46
		PM <sub>10</sub>	-	14.46
		PM <sub>2.5</sub>	-	14.46

Emission Sources - Maximum Allowable Emission Rates

S-007, S-008, S-031, S-032, S-033, S-034, S-035, S-036, S-037, S-038, S-039, S-040, S-041, S-042, S-043, S-044, S-100, S-101, S-102, S-108, S-114, S-115, S-116, S-119, S-120, S-127, S-128, S-129, S-130, S-200, S-201, S-206, S-207, S-208, 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-300, S-301, S-302, S-303, S-304, S-305, S-306, S-308, S-309, S-310, S-311, S-312, S-313, S-314, S-315, S-316, S-317, S-318, S-319, S-331, S-332, S-333, S-334, S-335, S-336, S-337 S-338, S-339, S-340, S-401 S-402, S-403, S-680-6, S-680-7, S-680-8, S-680-9	Subcaps for Storage Tanks	VOC	84.69	134.74
FL-003, FL-004, FL-006, FL-501, FL-005	Subcaps for Flares	NO <sub>x</sub>	16.27	17.32
		CO	84.41	90.11
		VOC	74.90	118.63
		SO <sub>2</sub>	5.30	6.42



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F-28, F-100 (#1 Crude, Desalter), F-400, F-500, F-620, F-660 (EPItFlareE, EPItFlareS, West Plant Flare System), F-700, F-820, F-830S, F-850 (S Merox Unit, Tank Farm), F-900, F-1000, F-1200, F-1400, F-1500, F-2000, F-2100, F-2200 (DOT/Ref Splitter, East Plant Alky Splitter), F-2300 (ATS, SWS), F-2400 (FCCU, FCCU Gas Con, FCCU Merox), F-2500, F-2600, F-2700, F-2800 (EP Cool Twr, EP Utilities), F-3700 (HCU, HCU Hot Oil Drum), F-3800, F-3900 (LEU, HCU), F-4000, F-4300, F-5400, F-2600N, F-660N, F-660 (EPItFlareW), F-680 (WWTP Tanks), F-680W, F-800E, F-800W, F-830 (RAIL, West Rack), F-830E, F-830N, F-830W, F-850N, F-850S, F-ROSE	VOC Subcaps for Equipment Fugitives (5)(10)			
		VOC	133.40	584.67
F-0670	West Plant Cooling Tower (5)	VOC	0.25	1.10
		PM	0.36	1.58
		PM <sub>10</sub>	0.36	1.58
F-2810	East Plant Cooling Tower (5)	VOC	1.68	7.36
		PM	2.40	10.52
		PM <sub>10</sub>	2.40	10.52

Emission Sources - Maximum Allowable Emission Rates

F-3670	No. 2 West Plant Cooling Tower (5)	VOC	0.59	2.57
F-0680	F-0680 Open-Top Biotreatment	PM	0.84	3.69
		PM <sub>10</sub>	0.84	3.69
		VOC	23.08	36.23
F-0671	No. 2 API Separator	VOC	0.48	0.95
F-0682	Crude Unit Sump	VOC	3.27	6.50
F-0683	No. 1 Reformer Sump	VOC	1.66	3.31
F-0684	600 Unit Sump	VOC	0.01	0.03
F-0685	R. R. Rack Sump	VOC	0.10	0.20
F-0686	Truck Loading Sump	VOC	0.09	0.18
F-0687	Land Farm	VOC	2.26	4.50
F-0688	Vacuum Unit Sump	VOC	2.08	4.14
F-0689	Crude Unload Sump	VOC	0.24	0.47
F-3110	No. 2 Reformer Sump	VOC	0.59	1.18

Emission Sources - Maximum Allowable Emission Rates

V-006	No. 1 Reformer Regeneration	CO	37.5	1.50
		VOC	1.40	0.06
		Cl <sub>2</sub>	0.40	0.02
V-007	No. 2 Reformer Regeneration	CO	5.00	14.02
		VOC	0.04	0.13
		Cl <sub>2</sub>	0.01	0.04
V-010	FCCU Regeneration Vent	NO <sub>x</sub>	62.69	28.82
		CO	195.47	184.29
		VOC	6.16	14.51
		SO <sub>2</sub>	43.64	52.65
		PM	30.00	69.98
		PM <sub>10</sub>	30.00	69.98
		H <sub>2</sub> SO <sub>4</sub>	13.69	59.96
V-008, V-009	Subcaps for Sulfur Plants	O <sub>3</sub>	7.22	31.62
		NO <sub>x</sub>	6.16	14.12
		CO	29.09	116.32
		VOC	12.21	38.43
		SO <sub>2</sub>	48.13	98.22
		PM	0.37	1.58
		PM <sub>10</sub>	0.37	1.58
		TRS	2.26	9.94
V-003	A.T.S. Secondary Absorber	SO <sub>2</sub>	0.09	0.01
L-001	Oil Truck Loading Rack	VOC	0.02	0.02
L-002	Gasoline Truck Loading	VOC	16.20	8.30

Emission Sources - Maximum Allowable Emission Rates

		SO <sub>2</sub>	48.13	98.22
		PM	0.37	1.58
		PM <sub>10</sub>	0.37	1.58
		TRS	2.26	9.94
V-003	A.T.S. Secondary Absorber	SO <sub>2</sub>	0.09	0.01
L-001	Oil Truck Loading Rack	VOC	0.02	0.02
L-002	Gasoline Truck Loading Rack	VOC	16.20	8.30
L-004	Tank Car Loading Rack	VOC	0.01	0.01
L-005	Aromatic Rail Load Rack Fugitives	VOC	7.56	2.05
VCU-1	Loading Rack Vapor Combustor	NO <sub>x</sub>	0.88	0.55
		CO	2.52	1.60
		VOC	9.60	5.92
Planned Maintenance, Startup, and Shutdown (MSS) Emission Limitations				
Cooling Towers, Combustion Units, Flares/Vapor Combustor Fugitives (5), Loading, Process Vents, Storage Tanks, and Wastewater		VOC (6) (7)	4,711.24	99.82
		NO <sub>x</sub> (6) (7)	305.53	17.71
		CO (6) (7)	1,187.84	42.14
		SO <sub>2</sub> (6) (7)	894.13	61.54
		PM (6) (7)	3.14	0.57
		PM <sub>10</sub> (6) (7)	3.14	0.57
		PM <sub>2.5</sub> (6) (7)	3.14	0.57
		H <sub>2</sub> S (6) (7)	2.65	0.52
		Benzene (6) (7) (8)	90.70	2.90
		CS <sub>2</sub> (7)	0.33	0.02

Emission Sources - Maximum Allowable Emission Rates

		COS (7)	1.89	0.11
<b>Standard Permit (SP) sources incorporated by reference. Sources remain authorized by the SP(s) as listed below:</b>				
<b>Registration Number 83511</b>				
B-010	BTX Boiler	NO <sub>x</sub>	5.10	22.34
		CO	12.31	53.93
		VOC	1.83	8.03
		NH <sub>3</sub>	1.49	6.55
		SO <sub>2</sub>	4.55	19.93
		PM	2.53	11.10
		PM <sub>10</sub>	2.53	11.10
		PM <sub>2.5</sub>	2.53	11.10

- (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<sub>x</sub> - total oxides of nitrogen  
CO - carbon monoxide  
SO<sub>2</sub> - sulfur dioxide  
PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>  
PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter  
PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter  
Cl<sub>2</sub> - chlorine  
COS - carbonyl sulfide  
CS<sub>2</sub> - carbon disulfide  
H<sub>2</sub>S - hydrogen sulfide  
H<sub>2</sub>SO<sub>4</sub> - sulfuric acid  
NH<sub>3</sub> - ammonia  
TRS - total reduced sulfur  
O<sub>3</sub> - ozone
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (6) Planned MSS VOC, NO<sub>x</sub>, CO, SO<sub>2</sub>, PM<sub>10</sub>, H<sub>2</sub>S, and Benzene allowable emissions are NOT included in the Normal Operations Emission Caps.

Emission Sources - Maximum Allowable Emission Rates

- (7) The MSS emission rates beginning January 1, 2012 through December 31, 2012, shall be the sum of the monthly MSS emissions for CY 2012. The MSS emissions for this period shall not include the MSS emissions prior to January 1, 2012. Beginning January 1, 2013, MSS emissions shall be based on a rolling 12-month period.
- (8) Benzene MSS allowables are included in the VOC allowables.
- (9) Ammonia fugitive allowable emissions are specified by EPN.
- (10) These emission caps have been carried forward from the flexible permit and do not include MSS emissions. The caps have been lowered to equal the sum of the normal operation individual limits and subcaps. The caps do not include emissions from EPN B-010, incorporated by reference from Standard Permit 83511.

Dated: November 10, 2014