

## 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	Benzene	10.59	11.70
Normal Operations Emission Cap (10)	Combustion Units, Flares/Vapor Combustor, Fugitives, Process Vents, and Storage Tanks	H <sub>2</sub> S	2.85	6.89
H-028	Crude Charge Heater 1 (100-H1)	NO <sub>x</sub>	11.18	23.41
		CO	14.61	44.41
		VOC	1.10	4.80
		SO <sub>2</sub>	15.53	14.52
		PM	1.51	6.63
		PM <sub>10</sub>	1.51	6.63
		PM <sub>2.5</sub>	1.51	6.63
H-036	Crude Charge Heater 2 (100-H2)	NO <sub>x</sub>	11.18	31.56
		CO	14.61	55.54
		VOC	1.10	4.80
		SO <sub>2</sub>	13.53	14.52
		PM	1.51	6.63
		PM <sub>10</sub>	1.51	6.63
		PM <sub>2.5</sub>	1.51	6.63

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
H-016	Vacuum Unit Charge Heater (14-H1401)	NO <sub>x</sub>	4.95	21.66
		CO	8.43	18.45
		VOC	0.76	3.34
		SO <sub>2</sub>	9.41	10.10
		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 "DAO" Heater (160-H1)	NO <sub>x</sub>	1.90	8.31
		CO	2.41	5.27
		VOC	0.22	0.96
		SO <sub>2</sub>	2.70	2.89
		PM	0.30	1.32
		PM <sub>10</sub>	0.30	1.32
		PM <sub>2.5</sub>	0.30	1.32
H-022	Asphalt Heater (160-H2)	NO <sub>x</sub>	0.98	4.22
		CO	1.62	3.51
		VOC	0.15	0.64
		SO <sub>2</sub>	1.81	1.92
		PM	0.20	0.88
		PM <sub>10</sub>	0.20	0.88
		PM <sub>2.5</sub>	0.20	0.88

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
H-020	Isostripper Reboiler Heater (440-H1)	NO <sub>x</sub>	1.99	4.90
		CO	3.08	3.79
		VOC	0.27	0.67
		SO <sub>2</sub>	1.90	1.53
		PM	0.37	0.92
		PM <sub>10</sub>	0.37	0.92
		PM <sub>2.5</sub>	0.37	0.92
B-007	"BTX" Boiler (54-F1)	NO <sub>x</sub>	12.33	34.16
		CO	18.02	27.76
		VOC	1.26	4.70
		SO <sub>2</sub>	0.17	0.48
		PM	1.74	6.49
		PM <sub>10</sub>	1.74	6.49
		PM <sub>2.5</sub>	1.74	6.49
H-043	Reformate Splitter Heater No. 1. (54-H101)	NO <sub>x</sub>	4.27	9.86
		CO	4.24	4.90
		VOC	0.38	0.89
		SO <sub>2</sub>	4.73	2.68
		PM	0.53	1.22
		PM <sub>10</sub>	0.53	1.22
		PM <sub>2.5</sub>	0.53	1.22

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
H-044	Reformate Splitter Heater No. 2 (54-H102)	NO <sub>x</sub>	1.78	5.75
		CO	3.03	4.90
		VOC	0.27	0.89
		SO <sub>2</sub>	3.38	2.68
		PM	0.38	1.22
		PM <sub>10</sub>	0.38	1.22
		PM <sub>2.5</sub>	0.38	1.22
B-004	Boiler 6F1-A and Boiler 6F1-B (6F1-A & 6F1-B)	NO <sub>x</sub>	25.97	72.43
		CO	9.18	12.80
		VOC	0.80	2.23
		SO <sub>2</sub>	5.66	5.16
		PM	1.11	3.08
		PM <sub>10</sub>	1.11	3.08
		PM <sub>2.5</sub>	1.11	3.08
B-006	East Plant Boiler (6-F2)	NO <sub>x</sub>	13.07	49.82
		CO	6.81	12.98
		VOC	0.59	2.24
		SO <sub>2</sub>	0.08	0.23
		PM	0.81	3.09
		PM <sub>10</sub>	0.81	3.09
		PM <sub>2.5</sub>	0.81	3.09

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
H-041	DOT H <sub>2</sub> Recycle Furnace (F2201)	NO <sub>x</sub>	3.40	5.70
		CO	2.90	2.43
		VOC	0.26	0.44
		SO <sub>2</sub>	3.24	1.33
		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 (H101)	NO <sub>x</sub>	0.69	1.60
		CO	0.43	0.50
		VOC	0.04	0.08
		SO <sub>2</sub>	0.27	0.20
		PM	0.05	0.11
		PM <sub>10</sub>	0.05	0.11
		PM <sub>2.5</sub>	0.05	0.11
H-047	No. 2 SRU Hot Oil Heater (H401)	NO <sub>x</sub>	1.84	6.58
		CO	2.06	3.69
		VOC	0.18	0.65
		SO <sub>2</sub>	2.28	2.00
		PM	0.25	0.91
		PM <sub>10</sub>	0.25	0.91
		PM <sub>2.5</sub>	0.25	0.91

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
H-015A	Lubricating Oil Crude Atmospheric Heater (H1001)	NO <sub>x</sub>	0.58	2.53
		CO	1.01	2.20
		VOC	0.09	0.38
		SO <sub>2</sub>	0.02	0.04
		PM	0.12	0.53
		PM <sub>10</sub>	0.12	0.53
		PM <sub>2.5</sub>	0.12	0.53
H-015B	Lubricating Oil Crude Atmospheric Heater (H1002)	NO <sub>x</sub>	0.32	1.41
		CO	0.55	1.23
		VOC	0.05	0.22
		SO <sub>2</sub>	0.01	0.03
		PM	0.06	0.30
		PM <sub>10</sub>	0.06	0.30
		PM <sub>2.5</sub>	0.06	0.30
H-037	HDU Charge Heater 2 (H101)	NO <sub>x</sub>	2.68	8.68
		CO	3.02	4.88
		VOC	0.26	0.85
		SO <sub>2</sub>	1.86	1.96
		PM	0.36	1.17
		PM <sub>10</sub>	0.36	1.17
		PM <sub>2.5</sub>	0.36	1.17

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
H-038	HDU Reboiler Heater 2 (H102)	NO <sub>x</sub>	1.85	4.65
		CO	2.86	3.60
		VOC	0.25	0.63
		SO <sub>2</sub>	1.76	1.45
		PM	0.34	0.87
		PM <sub>10</sub>	0.34	0.87
		PM <sub>2.5</sub>	0.34	0.87
H-014	Crude Charge Heater 3 (H1102)	NO <sub>x</sub>	4.16	13.11
		CO	5.51	8.69
		VOC	0.50	1.58
		SO <sub>2</sub>	6.16	4.76
		PM	0.69	2.18
		PM <sub>10</sub>	0.69	2.18
		PM <sub>2.5</sub>	0.69	2.18
H-034	H.C.U. Recycle Heater (H1401)	NO <sub>x</sub>	3.47	11.24
		CO	4.29	6.95
		VOC	0.37	1.21
		SO <sub>2</sub>	2.64	2.80
		PM	0.52	1.67
		PM <sub>10</sub>	0.52	1.67
		PM <sub>2.5</sub>	0.52	1.67

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
H-035	H.C.U. Debutanizer Reboiler Heater (H1402)	NO <sub>x</sub>	3.39	11.67
		CO	5.24	9.02
		VOC	0.46	1.57
		SO <sub>2</sub>	3.23	3.63
		PM	0.63	2.17
		PM <sub>10</sub>	0.63	2.17
		PM <sub>2.5</sub>	0.63	2.17
H-018	H.C.U. Fractionation Heater (H1501A)	NO <sub>x</sub>	2.40	10.51
		CO	3.71	16.22
		VOC	0.32	1.42
		SO <sub>2</sub>	2.28	3.27
		PM	0.45	1.96
		PM <sub>10</sub>	0.45	1.96
		PM <sub>2.5</sub>	0.45	1.96
H-019	H.C.U. Fractionation Heater (H1501B)	NO <sub>x</sub>	2.40	8.02
		CO	3.71	6.20
		VOC	0.32	1.09
		SO <sub>2</sub>	2.28	2.50
		PM	0.45	1.50
		PM <sub>10</sub>	0.45	1.50
		PM <sub>2.5</sub>	0.45	1.50



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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
H-045	DHT Charge Heater (H28001)	NO <sub>x</sub>	1.91	8.37
		CO	2.28	4.99
		VOC	0.21	0.91
		SO <sub>2</sub>	2.55	2.73
		PM	0.28	1.25
		PM <sub>10</sub>	0.28	1.25
		PM <sub>2.5</sub>	0.28	1.25
H-046	Fractionator Feed Heater (H28002)	NO <sub>x</sub>	2.69	11.76
		CO	3.56	7.79
		VOC	0.32	1.41
		SO <sub>2</sub>	3.97	4.26
		PM	0.44	1.95
		PM <sub>10</sub>	0.44	1.95
		PM <sub>2.5</sub>	0.44	1.95
H-023	Dowtherm Heater (160-H3)	NO <sub>x</sub>	0.09	0.27
		CO	0.15	0.22
		VOC	0.01	0.04
		SO <sub>2</sub>	0.17	0.13
		PM	0.02	0.06
		PM <sub>10</sub>	0.02	0.06
		PM <sub>2.5</sub>	0.02	0.06

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
H-004	Process Oil Treater (POT) (H401)	NO <sub>x</sub>	0.41	1.79
		CO	0.72	3.12
		VOC	0.06	0.27
		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
H-031	No. 1 HDU Stripper Reboiler Heater (H501)	NO <sub>x</sub>	0.79	3.44
		CO	1.32	5.79
		VOC	0.12	0.51
		SO <sub>2</sub>	1.46	1.57
		PM	0.16	0.71
		PM <sub>10</sub>	0.16	0.71
		PM <sub>2.5</sub>	0.16	0.71
H-010	No. 1 HDU Reactor Charge Heater (H502)	NO <sub>x</sub>	1.05	4.59
		CO	1.76	7.71
		VOC	0.16	0.69
		SO <sub>2</sub>	1.95	2.09
		PM	0.22	0.96
		PM <sub>10</sub>	0.22	0.96
		PM <sub>2.5</sub>	0.22	0.96

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
H-030	No. 2 Reformer Charge Heaters (H201, H203, H204)	NO <sub>x</sub>	19.06	-
		CO	13.63	-
		VOC	2.38	-
		SO <sub>2</sub>	16.78	-
		PM	3.29	-
		PM <sub>10</sub>	3.29	-
		PM <sub>2.5</sub>	3.29	-
H-032	No. 2 Reformer Charge Heater (H202)	NO <sub>x</sub>	12.27	-
		CO	11.16	-
		VOC	0.97	-
		SO <sub>2</sub>	6.87	-
		PM	1.35	-
		PM <sub>10</sub>	1.35	-
		PM <sub>2.5</sub>	1.35	-
H-033	No. 2 Reformer Stab. Reboiler (H205)	NO <sub>x</sub>	2.25	-
		CO	3.48	-
		VOC	0.30	-
		SO <sub>2</sub>	2.14	-
		PM	0.42	-
		PM <sub>10</sub>	0.42	-
		PM <sub>2.5</sub>	0.42	-

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
H-012	No.1 Reformer Charge Heaters (H504, H505A, H505B)	NO <sub>x</sub>	5.41	-
		CO	6.34	-
		VOC	0.57	-
		SO <sub>2</sub>	7.00	-
		PM	0.78	-
		PM <sub>10</sub>	0.78	-
		PM <sub>2.5</sub>	0.78	-
H-013	No. 1 Stabilizer Reboiler Heater (H506)	NO <sub>x</sub>	1.86	-
		CO	1.05	-
		VOC	0.09	-
		SO <sub>2</sub>	1.15	-
		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 (H504, H505A, H505B, H506, H201, H202, H203, H204, H205)	NO <sub>x</sub>	-	91.88
		CO	-	59.57
		VOC	-	10.46
		SO <sub>2</sub>	-	26.77
		PM	-	14.46
		PM <sub>10</sub>	-	14.46
		PM <sub>2.5</sub>	-	14.46

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
S-036, S-119, S-120, S-130, S-680-6, S-680-7, S-680-8, S-680-9, S-680-21	Subcaps for Storage Tanks	VOC	9.38	27.36
FL-003, FL-004, FL-006 and FL-501	Subcaps for Flares	NO <sub>x</sub>	15.59	18.83
		CO	80.33	96.98
		VOC	63.01	117.58
		SO <sub>2</sub>	5.17	7.00
F-28, F-100 (#1 Crude, Desalter), F-400, F-500, F-620, F-660 (EPltFlareE, EPltFlareS, 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 (SWS), F-2400 (FCCU, FCCU Gas Con, FCCU Merox),	VOC and NH <sub>3</sub> Subcaps for Equipment Fugitives (5)(10)	VOC	130.66	572.32

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
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		NH <sub>3</sub>	0.01	0.04
F-0670	No.1 West Plant Cooling Tower (5)	VOC	0.25	1.10
		PM	0.36	1.58
		PM <sub>10</sub>	0.14	0.60
		PM <sub>2.5</sub>	0.01	0.01
F-2810	East Plant Cooling Tower (5)	VOC	1.68	7.36
		PM	2.40	10.52
		PM <sub>10</sub>	0.36	1.58
		PM <sub>2.5</sub>	0.01	0.01
F-3670	No. 2 West Plant Cooling Tower (5)	VOC	0.59	2.58
		PM	0.84	3.68
		PM <sub>10</sub>	0.32	1.41
		PM <sub>2.5</sub>	0.01	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
F-0680	F-0680 Open-Top Biotreatment	VOC	23.08	36.23
F-0671	No. 2 API Separator	VOC	0.48	0.95
F-0682	Crude Unit Sump	VOC	3.70	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

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
V-006	No. 1 Reformer Regeneration Vent	CO	37.50	1.50
		Cl <sub>2</sub>	0.40	0.02
		VOC	1.40	0.06
V-007	No. 2 Reformer Regeneration Vent	CO	5.00	14.02
		Cl <sub>2</sub>	0.01	0.04
		VOC	0.04	0.13
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>	25.11	58.58
		PM <sub>2.5</sub>	25.11	58.58
		H <sub>2</sub> SO <sub>4</sub>	13.69	59.96
		O <sub>3</sub>	13.08	31.62
		HCN	19.49	45.47
V-008, V-009	Subcaps for Sulfur Plants	NO <sub>x</sub>	6.83	19.32
		CO	29.09	82.32
		VOC	12.21	34.56
		SO <sub>2</sub>	38.88	98.27
		PM	0.37	1.02
		PM <sub>10</sub>	0.37	1.02



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		PM <sub>2.5</sub>	0.37	1.02
		TRS	2.63	9.51
L-001	Oil Truck Loading Rack	VOC	0.02	0.02
L-002	Gasoline Truck Loading Rack	VOC	9.09	3.46
L-004	Tank Car Loading Rack	VOC	0.01	0.01
VCU-1	Loading Rack Vapor Combustor	NO <sub>x</sub>	3.01	0.71
		CO	8.75	2.07
		VOC	17.98	6.88
VCU-2	WWTP Vapor Combustor	VOC	1.41	2.09
		NOx	0.30	0.86
		CO	2.51	6.93
		SO <sub>2</sub>	0.19	0.16
		PM	0.03	0.10
		PM <sub>10</sub>	0.03	0.10
		PM <sub>2.5</sub>	0.03	0.10
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	75.49
		NO <sub>x</sub> (6) (7)	305.53	16.34
		CO (6) (7)	1,202.92	43.12
		SO <sub>2</sub> (6) (7)	894.13	61.04
		PM (6) (7)	4.54	0.66
		PM <sub>10</sub> (6) (7)	4.54	0.66
		PM <sub>2.5</sub> (6) (7)	4.54	0.66
		H <sub>2</sub> S (6) (7)	2.65	0.51

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			lbs/hour	TPY (4)
		Benzene (6) (7) (8)	90.70	2.65
		CS <sub>2</sub> (7)	0.33	0.02
		COS (7)	1.89	0.11
Standard Permit (SP) sources incorporated by reference. Sources remain authorized by the SP(s) as listed below:				
Registration Number 83511				
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> - 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

Emission Sources - Maximum Allowable Emission Rates

NH<sub>3</sub> - ammonia  
TRS - total reduced sulfur  
O<sub>3</sub> - ozone  
HCN - hydrogen cyanide

- (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.
- (7) 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 30, 2022