#### 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

<b>Emission Point</b>	Source Name	Air Contaminant	Emissio	n Rates
No. (1)	(2)	Name (3)	lbs/hour	TPY (4)
Normal Operations Emission Cap (10)	Combustion Units, Cooling Towers, Flares/Vapor	VOC	397.60	1024.98
	Combustor, Fugitives (5), Loading, Process Vents, Storage Tanks, and Wastewater	Benzene	18.41	37.28
Normal Operations Emission Cap (10)	Combustion Units, Flares/Vapor Combustor,	NO <sub>x</sub>	253.26	534.28
2esien Gap (20)	and Process Vents	СО	533.19	770.85
		SO <sub>2</sub>	189.06	236.25
Normal Operations Emission Cap (10)	Combustion Units, Cooling Towers, and Process	РМ	54.73	154.79
Επισσίοπ σαρ (10)	Vents	PM <sub>10</sub>	54.73	154.79
Normal Operations Emission Cap (10)	Combustion Units, Flares/Vapor Combustor, Fugitives, Process Vents, and Storage Tanks	H₂S	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

# Permit Numbers 50607, PSDTX331M1, PSDTX804, and PSDTX1017M1 Page 2 $\,$

	(5)			
F-2300	ATS (5)	$NH_3$	0.01	0.01
F-2300	SWS (5)	NH <sub>3</sub>	0.01	0.04
F-2400	FCCU (5)	NH₃	0.04	0.17
F-2400	FCCU Gas Con (5)	NH₃	0.01	0.01
F-2400	FCCU Merox (5)	NH₃	0.01	0.01
F-3700	HCU (5)	NH₃	0.01	0.01
F-3800	No. 2 HDU (5)	NH₃	0.01	0.02
F-3900	LEU (5)	NH₃	0.01	0.01
F-4000	No. 1 and No. 2 SRU (5)	NH₃	0.01	0.04
F-5400	BTX Unit Fugitives	NH₃	0.05	0.22
H-028	Crude Charge Heater 1	NO <sub>x</sub>	11.18	23.41
		СО	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
		СО	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

# Permit Numbers 50607, PSDTX331M1, PSDTX804, and PSDTX1017M1 Page 3 $\,$

H-016	Vacuum Unit Charge Heater	$NO_x$	4.95	21.66
	Tioutor	СО	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
		СО	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
		СО	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

# Permit Numbers 50607, PSDTX331M1, PSDTX804, and PSDTX1017M1 Page 4 $\,$

H-020	Isostripper Reboiler Heater	$NO_x$	1.99	4.90
	Tiede	СО	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
		СО	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
	nealei	СО	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
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H-044	BTX Reboiler Heater	NO <sub>x</sub>	1.83	5.75
		СО	3.65	4.93
		VOC	0.28	0.89
		SO <sub>2</sub>	1.50	1.68
		РМ	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
		СО	9.28	12.94
		VOC	0.80	2.23
		SO <sub>2</sub>	3.79	4.77
		РМ	1.11	3.08
		PM <sub>10</sub>	1.11	3.08

# Permit Numbers 50607, PSDTX331M1, PSDTX804, and PSDTX1017M1 Page 6 $\,$

B-006	East Plant Boiler Emissions	NO <sub>x</sub>	13.07	49.82
	LITIOSIONS	СО	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
		СО	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
		СО	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
		СО	2.46	4.38
		VOC	0.18	0.65
		SO <sub>2</sub>	1.65	1.30
		PM	0.26	0.91

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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	$NO_x$	0.69	2.60
	(H-1001)	СО	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	NO <sub>x</sub>	0.38	1.41
	(H-1002)	СО	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
		СО	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	$NO_x$	1.85	4.65
		СО	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
		СО	4.60	6.05
		VOC	0.34	1.09
		SO <sub>2</sub>	1.96	2.09
		РМ	0.48	1.50
		$PM_{10}$	0.48	1.50
H-034	H.C.U. Recycle Heater	NO <sub>x</sub>	3.47	11.24
		СО	4.99	7.02
		VOC	0.37	1.21
		SO <sub>2</sub>	2.40	2.24
		РМ	0.52	1.67
		PM <sub>10</sub>	0.52	1.67

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H-035	H.C.U. Debutanizer Reboiler Heater	NO <sub>x</sub>	3.39	11.67
	Treboner Fleater	СО	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
		PM <sub>2.5</sub>	0.63	2.17
H-018	H.C.U. Fractionation Heater	NO <sub>x</sub>	4.24	10.52
		со	2.82	3.05
		VOC	0.21	0.53
		SO <sub>2</sub>	1.85	0.93
		PM	0.29	0.73
		PM <sub>10</sub>	0.29	0.73
H-019	H.C.U. Fractionation Heater	NO <sub>x</sub>	2.70	8.02
		СО	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

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H-045	DHT Charge Heater	NO <sub>x</sub>	2.05	8.98
		СО	2.95	5.53
		VOC	0.22	0.97
		SO <sub>2</sub>	1.93	1.82
		РМ	0.31	1.34
		PM <sub>10</sub>	0.31	1.34
		PM <sub>2.5</sub>	0.31	1.34
H-046	Fractionator Feed Heater	NO <sub>x</sub>	2.88	12.59
		СО	4.59	9.06
		VOC	0.34	1.51
		SO <sub>2</sub>	2.87	3.11
		РМ	0.48	2.09
		PM <sub>10</sub>	0.48	2.09
		PM <sub>2.5</sub>	0.48	2.09
H-023	Tracing Oil Heater	NO <sub>x</sub>	0.09	0.27
		СО	0.15	0.22
		VOC	0.01	0.04
		SO <sub>2</sub>	0.08	0.08
		РМ	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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H-004	Lubr. HDS Charge Heater	NO <sub>x</sub>	0.41	1.79
		СО	0.88	3.85
		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	NO <sub>x</sub>	0.79	3.44
		СО	1.57	6.88
		VOC	0.12	0.51
		SO <sub>2</sub>	1.06	0.85
		РМ	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	NO <sub>x</sub>	1.05	4.59
		СО	2.10	9.18
		VOC	0.16	0.69
		SO <sub>2</sub>	1.41	1.11
		РМ	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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H-030	No. 2 Reformer Charge	NO <sub>x</sub>	19.06	-
	Heaters	СО	15.46	-
		VOC	2.38	-
		SO <sub>2</sub>	11.39	-
		PM	3.29	-
		PM <sub>10</sub>	3.29	-
		PM <sub>2.5</sub>	3.29	-
H-032	No. 2 Reformer Charge	NO <sub>x</sub>	12.27	-
	Heater	СО	10.31	-
		VOC	0.97	-
		SO <sub>2</sub>	8.72	-
		PM	1.34	-
		PM <sub>10</sub>	1.34	-
		PM <sub>2.5</sub>	1.34	-
H-033	No. 2 Reformer Stab.	NO <sub>x</sub>	2.25	-
	Reconer	СО	4.05	-
		VOC	0.30	-
		SO <sub>2</sub>	2.71	-
		PM	0.42	-
		PM <sub>10</sub>	0.42	-
		PM <sub>2.5</sub>	0.42	-
H-012	No.1 Reformer Charge Heaters	NO <sub>x</sub>	5.41	-
		СО	7.56	-

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		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	-
	Healei	СО	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	Subcaps for No.1 and No.2 Reformer Unit	NO <sub>x</sub>	-	91.88
		СО	-	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
\$-00-7, \$-000, \$-031, \$-032, \$-033, \$-034, \$-035, \$-036, \$-037, \$-038, \$-039, \$-040, \$-041, \$-042, \$-043, \$-044, \$-100, \$-101, \$-102, \$-108, \$-114, \$-115, \$-116, \$-119,	Subcaps for Storage Tanks	VOC	84.69	134.74

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H-012	No.1 Reformer Charge Heaters	NO <sub>x</sub>	5.41	-
	Ticalcis	СО	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	-
		СО	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	Subcaps for No.1 and No.2 Reformer Unit	NO <sub>x</sub>	-	91.88
H-013	Heaters	СО	-	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

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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,	Subcaps for Storage Tanks	VOC	84.69	134.74
FL-003, FL-004, FL-006, FL-501,	Subcaps for Flares	NO <sub>x</sub>	16.27	17.32
FL-005		СО	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-2000 (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-2600N, F-660N, F-660N, F-660 (EPItFlareW), F-680 (WWTP Tanks), F-680W, F-800E, F-800W, F-830 (RAIL, West Rack), F-830K, F-830N, F-830W, F-850N, F-850N		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

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F-3670	No. 2 West Plant Cooling Tower (5)	VOC	0.59	2.57
		PM	0.84	3.69
		PM <sub>10</sub>	0.84	3.69
F-0680	F-0680 Open-Top	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

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V-006	No. 1 Reformer Regeneration	СО	37.5	1.50
		VOC	1.40	0.06
		Cl <sub>2</sub>	0.40	0.02
V-007	No. 2 Reformer Regeneration	СО	5.00	14.02
		VOC	0.04	0.13
		Cl <sub>2</sub>	0.01	0.04
V-010	FCCU Regeneration Vent	NOx	62.69	28.82
		СО	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
		O <sub>3</sub>	7.22	31.62
V-008, V-009	Subcaps for Sulfur Plants	NO <sub>x</sub>	6.16	14.12
		СО	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

			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 Ra	ack	VOC		0.02	0.02
L-002	Gasoline Truck Loadi Rack	ing	VOC		16.20	8.30
L-004	Tank Car Loading Ra	ack	VOC		0.01	0.01
L-005	Aromatic Rail Load Rack Fugitives		VOC		7.56	2.05
S-311	Storage Tank 311		VOC		1.24	1.53
VCU-1	Loading Rack Vapor Combustor		NO <sub>x</sub>		0.88	0.55
			СО		2.52	1.60
			VOC		9.60	5.92
Planned Maintenanc	e, Startup, and Shutdo	own (N	ISS) Emission l	Limitati	ons	
Cooling Towers, Combustion Units,	V	/OC (6)	) (7)	4,	711.24	99.82
Flares/Vapor Combustor	N	NO <sub>x</sub> (6) (7)		30	05.53	17.71
Fugitives (5), Loading,	CO (6) ( SO <sub>2</sub> (6)		(7)	1,	,187.84	42.14
Process Vents, Storage Tanks, and			(7)	89	94.13	61.54
Wastewater	P	PM (6) (	(7)	3.	.14	0.57
	PM <sub>10</sub> (6		) (7)	3.	.14	0.57
	P	PM <sub>2.5</sub> (6	) (7)	3.	.14	0.57
	F	H <sub>2</sub> S (6)	(7)	2.	.65	0.52
	В	3enzen	e (6) (7) (8)	90	0.70	2.90

#### Emission Sources - Maximum Allowable Emission Rates

1	1			_		
		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	r 83511					
B-010	BTX Boiler	NO <sub>x</sub>	5.10	22.34		
		СО	12.31	53.93		
		VOC	1.83	8.03		
		NH₃	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.
- volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1 (3) VOC

total oxides of nitrogen  $NO_x$ 

carbon monoxide CO

SO<sub>2</sub> sulfur dioxide

total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub> PM

particulate matter equal to or less than 10 microns in diameter  $PM_{10}$ 

 $PM_{2.5}$ particulate matter equal to or less than 2.5 microns in diameter

chlorine  $Cl_2$ 

COS carbonyl sulfide  $CS_2$ carbon disulfide - hydrogen sulfide H<sub>2</sub>S H<sub>2</sub>SO<sub>4</sub> - sulfuric acid  $NH_3$ ammonia

TRS total reduced sulfur

 $O_3$ 

- Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the (5) applicable special conditions and permit application representations.

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#### Emission Sources - Maximum Allowable Emission Rates

- (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) 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: August 27, 2015