

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)	<u>Emission Rates</u> lb/hr	
<u>TPY(4)</u>			
<u>VOC CAPS:</u>			
	Combustion Units, Tanks, Process Vents, Loading, Flares, Vapor Combustors, Fugitives (5), Wastewater, Cooling Towers, Engines, Relief Valves, and Maintenance	2114.00	1510.00
<u>VOC SUBCAP:</u> (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
<u>NO_x CAPS:</u> (8)			
	Combustion Units, Flares, Vapor Combustors, Process Vents, Loading, Engines, and Maintenance	490.80	1701.00
<u>NO_x SUBCAP:</u> (7)			
	Vapor Combustor (FL-7)	2.33	1.29
<u>CO CAPS:</u>			
	Combustion Units, Flares, Vapor Combustors, Process Vents, Loading, Engines, and Maintenance	1408.00	3275.00
<u>CO SUBCAP:</u> (7)			

EMISSION SOURCES - EMISSIONS CAPS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	<u>Emission Rates</u>	
lb/hr			
<u>TPY(4)</u>			
Vapor Combustor (FL-7)		7.17	4.22
<u>SO₂ CAPS:</u>			
Combustion Units, Flares, Vapor Combustors, Process Vents, Loading, Engines, and Maintenance		1120.00	2604.00
<u>SO₂ SUBCAP: (7)</u>			
Vapor Combustor (FL-7)		0.09	0.03
<u>PM CAPS:</u>			
Combustion Units, Flares, Vapor Combustors, Process Vents, Engines, and Maintenance		138.00	569.80
<u>BENZENE CAPS:</u>			
Tanks, Cooling Towers, Loading, and Fugitives (5)		11.90	18.34
<u>BENZENE SUBCAP: (7)</u>			
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
<u>H₂S CAPS:</u>			
Flares, Process Vents, Fugitives, and Maintenance		7.60	0.70
<u>SULFURIC ACID CAPS (H₂SO₄):</u>			
Process Vents		12.40	54.10
<u>CHLORINE CAPS:</u>			

EMISSION SOURCES - EMISSIONS CAPS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	<u>Emission Rates</u>	
		lb/hr	
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TPY(4)			
Process Vents		0.40	0.50

HCl CAPS:

Process Vents and Maintenance	7.10	4.29
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NH₃ CAPS:

Process Vents, Fugitives, and Maintenance	800.40	164.80
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MAINTENANCE EMISSIONS CAPS: (6)

VOC	3671.95	46.52
NO _x	97.28	2.45
CO	646.55	7.40
SO ₂	1768.80	6.13
H ₂ S	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 ₂ S	19.31	0.05
HCl	4.00	0.002
NH ₃	700.00	0.95
PM	1.98	0.40

EMISSION SOURCES - EMISSIONS CAPS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	<u>Emission Rates</u> lb/hr
TPY(4)		

EMISSION SOURCES - INDIVIDUAL EMISSION RATE LIMITS AND SUBCAPS

Emission Point No. (1)	Source Name (2)	AIR CONTAMINANTS DATA		
		Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY(4)
B-10	No. 18 Boiler	NO _x	57.88	132.51
		CO	34.12	66.33
		VOC	1.21	3.79
		SO ₂	4.92	6.77
		PM	1.67	5.23
B-11	No. 19 Boiler	NO _x	8.73	38.23
		CO	18.93	82.93
		VOC	1.21	3.24
		SO ₂	4.72	6.13
		PM	1.67	4.47
B-12	600# Boiler	NO _x	492.85	172.69
		CO	20.85	73.05
		VOC	1.33	4.66
		SO ₂	5.84	11.91
		PM	1.84	6.43
B-19	300# Steam Boiler #1	NO _x	5.80	20.30
		CO	13.50	47.31
		VOC	0.89	3.11
		SO ₂	4.60	16.28
		PM	1.20	4.30
B-20	300# Steam Boiler #2	NO _x	5.80	20.30
		CO	13.50	47.31
		VOC	0.89	3.11
		SO ₂	4.60	16.28
		PM	1.20	4.30
B-21	300# Steam Boiler #3	NO _x	5.80	20.30
		CO	13.50	47.31
		VOC	0.89	3.11
		SO ₂	4.60	16.28
		PM	1.20	4.30
B-3	No. 10 Boiler	NO _x	23.65	82.85
		CO	17.80	22.23
		VOC	0.40	1.41
		SO ₂	2.09	3.53
		PM	0.56	1.95

EMISSION SOURCES - INDIVIDUAL EMISSION RATE LIMITS AND SUBCAPS

AIR CONTAMINANTS DATA

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

EMISSION SOURCES - INDIVIDUAL EMISSION RATE LIMITS AND SUBCAPS

AIR CONTAMINANTS DATA

H-14	Unifiner Charge Heater	NO _x	2.60	11.39
		CO	2.24	9.83
		VOC	0.14	0.63
		SO ₂	0.03	0.11
		PM	0.20	0.87
H-15	No. 1 Hydrotreater Charge Heater	NO _x	1.63	7.12
		CO	3.06	12.00
		VOC	0.19	0.70
		SO ₂	0.84	1.41
		PM	0.27	0.96
H-18	C.C.R. Charge Heater	NO _x	13.70	52.81
		CO	11.30	19.80
		VOC	1.48	6.47
		SO ₂	7.68	13.27
		PM	2.04	8.94
H-2	No. 1 Vacuum Charge Heater	NO _x	3.53	15.47
		CO	6.36	12.75
		VOC	0.41	1.77
		SO ₂	2.11	3.91
		PM	0.56	2.45
H-26	No. 2 Vacuum Charge Heater	NO _x	3.60	15.76
		CO	6.92	30.30
		VOC	0.44	1.93
		SO ₂	2.29	4.22
		PM	0.61	2.67
H-27	"P/P" Mole Sieve Regeneration Heater	NO _x	0.99	0.76
		CO	0.60	0.65
		VOC	0.04	0.04
		SO ₂	0.20	0.22
		PM	0.05	0.06
H-28	Active Butane Oxygenate Heater	NO _x	1.16	5.08
		CO	1.00	3.25
		VOC	0.06	0.28
		SO ₂	0.33	1.45
		PM	0.09	0.39

EMISSION SOURCES - INDIVIDUAL EMISSION RATE LIMITS AND SUBCAPS

AIR CONTAMINANTS DATA

H-30	Asphalt Tank Heaters (5501 and 5502)	NO _x	2.54	11.12
		CO	0.82	3.57
		VOC	0.05	0.23
		SO ₂	0.27	1.18
		PM	0.07	0.31
H-31B	Tanks 27, 28 Heater	NO _x	0.44	1.92
		CO	0.14	0.62
		VOC	0.01	0.04
		SO ₂	0.05	0.20
		PM	0.01	0.05
H-32	Tank Heaters ("20MS" and "20M6")	NO _x	0.80	3.50
		CO	0.56	2.46
		VOC	0.04	0.16
		SO ₂	0.19	0.82
		PM	0.05	0.22
H-32C	Asphalt Tank Heater "20M7"	NO _x	0.33	1.43
		CO	0.28	1.23
		VOC	0.02	0.08
		SO ₂	0.09	0.41
		PM	0.02	0.11
H-33	Tank Heaters 34, 551, 121, 141, and 552	NO _x	1.99	8.74
		CO	1.40	6.16
		VOC	0.09	0.39
		SO ₂	0.46	2.04
		PM	0.12	0.54
H-34	C.C.D.R. Stabilizer Reboiler Heater	NO _x	3.08	20.45
		CO	2.17	8.68
		VOC	0.14	0.59
		SO ₂	0.68	1.21
		PM	0.19	0.81
H-35	Tank "300M2" Heaters (4 Stacks)	NO _x	1.59	6.99
		CO	1.12	4.93
		VOC	0.07	0.31
		SO ₂	0.37	1.63
		PM	0.10	0.43

EMISSION SOURCES - INDIVIDUAL EMISSION RATE LIMITS AND SUBCAPS

AIR CONTAMINANTS DATA

H-36	No. 2 Naphtha Hydrotreater Charge Heater	NO _x	1.78	7.80
		CO	4.86	5.72
		VOC	0.31	0.97
		SO ₂	1.11	1.70
		PM	0.43	1.34
H-37	No. 2 Naphtha Hydrotreater Des2 Reboiler	NO _x	6.40	15.97
		CO	2.41	9.59
		VOC	0.16	0.65
		SO ₂	0.30	1.21
		PM	0.22	0.89
H-38	#2 Reformer Charge Heater	NO _x	13.58	59.46
		CO	29.45	81.85
		VOC	1.88	5.02
		SO ₂	6.73	10.28
		PM	2.59	6.93
H-39	#2 Reformer Stabilizer Reboiler Heater	NO _x	2.92	12.78
		CO	2.06	6.59
		VOC	0.13	0.44
		SO ₂	0.63	0.89
		PM	0.18	0.60
H-40	P.D.A. Asph. Htr.	NO _x	8.49	37.17
		CO	5.61	5.11
		VOC	0.36	1.00
		SO ₂	1.40	1.59
		PM	0.49	1.37
H-41	No. 2 Crude Charge Heater	NO _x	16.40	71.83
		CO	26.18	13.21
		VOC	1.67	6.99
		SO ₂	8.36	14.12
		PM	2.31	9.66
H-42	Hydrocracker Recycle Heater	NO _x	3.49	15.28
		CO	7.20	12.64
		VOC	0.46	1.98
		SO ₂	2.39	2.99
		PM	0.63	2.73

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AIR CONTAMINANTS DATA

H-43	Hydrocracker "DEC4" Reboiler Heater	NO _x	3.31	14.49
		CO	7.37	11.77
		VOC	0.47	1.85
		SO ₂	2.36	3.84
		PM	0.65	2.55
H-45	#1 Hydrotreater Charge Heater	NO _x	2.66	11.67
		CO	5.93	4.82
		VOC	0.35	0.73
		SO ₂	0.89	1.44
		PM	0.48	1.01
H-46	C.C.R. Interheater	NO _x	7.48	32.77
		CO	13.76	60.27
		VOC	0.88	3.84
		SO ₂	4.56	8.79
		PM	1.21	5.31
H-47	Asphalt Blowstill Heater	NO _x	0.90	3.95
		CO	1.02	2.89
		VOC	0.06	0.21
		SO ₂	0.27	0.35
		PM	0.09	0.28
H-48	Turbine Fuel HDSU Heater	NO _x	3.78	16.55
		CO	8.88	14.24
		VOC	0.57	2.45
		SO ₂	2.94	4.26
		PM	0.78	3.38
H-51	Asphalt Tank Heater 300M3 (4 Stacks)	NO _x	0.53	2.33
		CO	1.12	4.93
		VOC	0.07	0.31
		SO ₂	0.37	1.63
		PM	0.10	0.43
H-6	Dago Heater	NO _x	3.39	14.87
		CO	2.32	6.22
		VOC	0.15	0.44
		SO ₂	0.60	0.71
		PM	0.21	0.59

EMISSION SOURCES - INDIVIDUAL EMISSION RATE LIMITS AND SUBCAPS

AIR CONTAMINANTS DATA

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

EMISSION SOURCES - INDIVIDUAL EMISSION RATE LIMITS AND SUBCAPS

AIR CONTAMINANTS DATA

H-76	Diesel Hydrotreater Charge Heater	NO _x	2.01	8.81
		CO	4.86	21.29
		VOC	0.31	1.36
		SO ₂	1.61	7.06
		PM	0.43	1.88
H-77	No. 1 Reformer Charge Heater	NO _x	12.29	53.82
		CO	28.60	125.26
		VOC	1.89	8.29
		SO ₂	9.83	43.04
		PM	2.62	11.46
H-78	No. 1 Reformer Interheaters	NO _x	3.67	16.09
		CO	8.55	37.46
		VOC	0.57	2.48
		SO ₂	2.94	12.87
		PM	0.78	3.43
H-79	No. 1 Ref. Stabilizer Reboiler	NO _x	1.16	5.08
		CO	2.70	11.83
		VOC	0.18	0.78
		SO ₂	0.93	4.06
		PM	0.25	1.08
H-8	HCU Fractionation Charge Heater	NO _x	4.69	20.52
		CO	7.22	28.77
		VOC	0.48	1.42
		SO ₂	1.93	3.69
		PM	0.66	1.96
H-80	FCC Gas HDS Charge Heater	NO _x	3.05	13.36
		CO	8.33	36.46
		VOC	0.53	2.32
		SO ₂	2.33	5.03
		PM	0.73	3.21
H-81	C4 ISOM Heater	NO _x	0.31	1.36
		CO	0.70	3.20
		VOC	0.05	0.20
		SO ₂	0.20	1.09
		PM	0.07	0.29

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AIR CONTAMINANTS DATA

H-82	Coker Heater	NO _x	5.80	25.40
		CO	13.50	59.10
		VOC	0.89	3.90
		SO ₂	4.60	20.30
		PM	1.20	5.40
H-83	Polymer Modified Asphalt Heater	NO _x	0.39	1.69
		CO	0.90	3.90
		VOC	0.06	0.26
		SO ₂	0.30	1.36
		PM	0.08	0.36
H-84	No. 2 Reformer No. 1 Interheater	NO _x	3.79	16.60
		CO	8.80	38.60
		VOC	0.58	2.56
		SO ₂	3.00	13.30
		PM	0.80	3.50
H-85	No. 2 Ref. Stab. Reboiler	NO _x	1.52	6.67
		CO	3.50	15.50
		VOC	0.20	1.00
		SO ₂	1.20	5.30
		PM	0.30	1.40
H-86	No. 2 Naphtha Hydrotreater Charge Heater (Final)	NO _x	2.00	8.81
		CO	4.70	20.50
		VOC	0.30	1.40
		SO ₂	1.60	7.00
		PM	0.40	1.90
H-87	SRU No. 3 Hot Oil Heater	NO _x	0.72	3.15
		CO	1.70	7.30
		VOC	0.10	0.49
		SO ₂	0.58	2.50
		PM	0.15	0.67
H-88	Acid Plant Feed Heater	NO _x	0.79	3.46
		CO	0.48	0.43
		VOC	0.03	0.03
		SO ₂	0.16	0.50
		PM	0.04	0.04

EMISSION SOURCES - INDIVIDUAL EMISSION RATE LIMITS AND SUBCAPS

AIR CONTAMINANTS DATA

H-9	No. 3 Crude Heater-Petrochem (South)	NO _x	13.08	57.31
		CO	7.48	6.99
		VOC	0.37	1.22
		SO ₂	1.36	2.16
		PM	0.51	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
		CO	0.56	2.44
		VOC	0.17	0.76
		SO ₂	0.01	0.01
		PM	0.07	0.29
FL-9	Brine Degas Drum Flare	NO _x	8.21	0.99
		CO	16.38	1.98
		VOC	30.15	5.52
		SO ₂	0.01	0.01
FL-8	No. 8 Main Refinery Flare (Pre-FGRS)	NO _x	2.42	7.97
		CO	12.35	40.60
		VOC	7.85	25.75
		SO ₂	1.10	1.09
		H ₂ S	0.012	0.012
FL-1	No.1 Main Refinery Flare (Pre-FGRS)	NO _x	12.67	11.89
		CO	65.28	61.27
		VOC	41.51	38.96
		SO ₂	384.25	23.37
		H ₂ S	4.09	0.25
FL-3	FCCU Flare (Pre-FGRS)	NO _x	16.73	6.95
		CO	87.95	50.17
		VOC	87.26	71.79
		SO ₂	168.13	7.68
		H ₂ S	1.79	0.08

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AIR CONTAMINANTS DATA				
FL-4	HCU Flare (Pre-FGRS)	NO _x	8.63	7.50
		CO	44.48	38.62
		VOC	31.66	27.49
		SO ₂	395.17	11.44
FL-6	Wastewater Flare	H ₂ S	4.20	0.12
		NO _x	1.90	4.17
		CO	9.70	21.26
		VOC	4.54	9.95
FL-1	No.1 Main Refinery Flare (Post FGRS)	SO ₂	3.41	1.21
		NO _x		34.31
		CO		190.66
		VOC		179.46
FL-3	FCCU Flare (Post FGRS)	SO ₂		15.69
		H ₂ S		0.27
		NO _x		34.31
		CO		190.66
FL-4	HCU Flare (Post FGRS)	VOC		179.46
		SO ₂		15.69
		H ₂ S		0.27
		NO _x		34.31
FL-8	No. 8 Main Refinery Flare (Post FGRS)	CO		190.66
		VOC		179.46
		SO ₂		15.69
		H ₂ S		0.27
Combined Annual Cap for Flares FL-1, FL-3, FL-4, and FL-8		NO _x		34.31
		CO		190.66
		VOC		179.46
		SO ₂		15.69
F-Coke_PM FL-7	Coker PM Fugitives Loading Rack Vapor Combustor	H ₂ S		0.27
		PM	0.41	1.35
		NO _x	9.53	11.06
		CO	26.30	29.46
L-11	Truck Loading Rack	VOC	26.52	20.25
		SO ₂	0.13	0.05
L-13	Railcar Loading Rack	VOC	11.05	2.12
L-14	North Railcar Rack	VOC	0.25	0.10
			18.35	0.81

EMISSION SOURCES - INDIVIDUAL EMISSION RATE LIMITS AND SUBCAPS

AIR CONTAMINANTS DATA				
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	2.15	3.78
		CO	42.37	74.33
		VOC	2.15	3.78
		SO ₂	2.16	4.35
		PM	7.18	12.60
V-20	F.C.C.U. (Fluidized Catalytic Cracking Unit)	NO _x	220.11	163.36
		CO	37.80	93.07
		VOC	10.55	38.19
		SO ₂	459.69	138.69
		PM	80.00	294.02
		NH ₃ (9)	40.74	146.00
		H ₂ SO ₄	12.40	41.98
V-18	No. 1 Reformer Cat Regenerator Vent	CO	3.27	14.31
		VOC	0.62	2.72
V-21	No. 2 Reformer Cat Regenerator Vent	CO	70.00	3.36
		VOC	0.03	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	0.40	1.75
		CO	1.37	5.98
		VOC	0.12	0.53
		SO ₂	6.87	21.54
		PM	0.03	0.13
V-16	SRU No. 2 Incinerator	NO _x	0.56	2.45
		CO	13.66	59.82
		VOC	0.20	0.87
		SO ₂	10.96	48.01
		PM	0.04	0.18
V-28	SRU No. 3 Incinerator	NO _x	1.60	7.01
		CO	5.02	21.99
		VOC	0.54	2.38
		SO ₂	28.69	125.64
		PM	0.12	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

EMISSION SOURCES - INDIVIDUAL EMISSION RATE LIMITS AND SUBCAPS

AIR CONTAMINANTS DATA			
F-1CRUDE, F-1REF_HT, F-2ALKY, F-2CRUDE, F-2REF_HT, F-3CRUDE, F-4HT, F-85, F-ALKY_PDA, F-ASPHALT, F-BRINE, F-C4ISOM, F-CASING, F-CAVERN, F-COKE_VOC, F-DESALT, F-DHDSU, F-ETNKFRM, F-FCCU, F-GASBLD, F-GASPLT, F-GHDS, F-HCU, 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-WWTP, F-MSAT, F-MSATLOAD	VOC Sub cap for Fugitives (5)	VOC	157.56 690.11

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-	Sub cap for Storage Tanks	VOC	141.70 380.94
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EMISSION SOURCES - INDIVIDUAL EMISSION RATE LIMITS AND SUBCAPS

AIR CONTAMINANTS DATA

- (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
SO₂ - sulfur dioxide
H₂S - hydrogen sulfide
H₂SO₄ - sulfuric acid
HCl - hydrogen chloride
NH₃ - ammonia
PM - particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}.
PM₁₀ - 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.

Dated: September 16, 2011