Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 95 and PSDTX854M2

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/hr	TPY (4)	Monitoring and Testing Requirements	Record keeping Requirements	Reporting Requirements
DM-1101	No. 1 Olefins Flare (13)	VOC	359.13	111.06	12, 49	12B, 49	12
		1,3 Butadiene	184.12	23.00			
		Ethylene	150.00	20.56			
		Propylene	158.69	28.13			
		NOx	45.01	17.69			
		CO	231.90	91.79			
		SO_2	0.03	0.02			
DDM-3101	No. 2 Olefins Flare (13)	VOC	328.01	124.41	12, 49	12B, 49	12
		1,3 Butadiene	153.00	14.00			
		Ethylene	150.00	29.83			
		Propylene	150.00	35.80			
		NOx	42.95	17.69			
		CO	221.28	91.79			
		SO_2	0.03	0.02			

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FLCOMBCAP	Combustion Emission Cap for Olefins Flares (9)(13)	NOx	---	31.88	12, 49	12B, 49	12
		CO	---	165.57	12, 49	12B, 49	12
AM-1500	Dock Flare	VOC	571.71	25.35	12, 49	12B, 49	12
		1,3 Butadiene	569.08	7.97			
		Benzene	0.98	1.58			
		Propylene	218.24	2.82			
		NOx	37.73	1.94			
		CO	194.44	10.40			
		SO_2	0.01	0.01			
DF-104	Decoke Stack	CO	64.86	1.56	16	16	16
		PM	1.06	0.03			
		PM_{10}	1.06	0.03			
		$PM_{2.5}$	1.06	0.03			
		VOC	0.09	0.01			
		1,3 Butadiene	0.01	0.01			
		Benzene	0.01	0.01			
		Ethylene	0.06	0.01			
		Propylene	0.01	0.01			
DF-105	Decoke stack	CO	129.72	10.38	16	16	16
		PM	2.11	0.17			
		PM_{10}	2.11	0.17			
		$PM_{2.5}$	2.11	0.17			
		VOC	0.09	0.04			
		1,3 Butadiene	0.01	0.01			
		Benzene	0.01	0.01			

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		Ethylene	0.06	0.03			
		Propylene	0.01	0.01			
DDF-101	Decoke Stack	CO	129.72	10.38	16	16	16
		PM	2.11	0.17			
		PM_{10}	2.11	0.17			
		$PM_{2.5}$	2.11	0.17			
		VOC	0.09	0.04			
		1,3 Butadiene	0.01	0.01			
		Benzene	0.01	0.01			
		Ethylene	0.06	0.03			
		Propylene	0.01	0.01			
DDF-104	Decoke Stack	CO	64.86	2.59	16	16	16
		PM	1.06	0.04			
		PM_{10}	1.06	0.04			
		$PM_{2.5}$	1.06	0.04			
		VOC	0.09	0.01			
		1,3 Butadiene	0.01	0.01			
		Benzene	0.01	0.01			
		Ethylene	0.06	0.01			
		Propylene	0.01	0.01			
J-2	Regeneration Knock-out Drum	CO	9.62	0.96	17	17	17
		SO_2	2.90	0.29			
		NOx	6.76	0.68			
		PM	1.41	0.14			
		PM_{10}	1.41	0.14			

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	1.41	0.14			
DD-606	Hydrotreater Regenerator stack	CO	13.93	1.39	17	17	17
		SO_2	41.92	4.19			
		NOx	9.79	0.98			
		PM	2.05	0.20			
		PM_{10}	2.05	0.20			
		$PM_{2.5}$	2.05	0.20			
DDD-606	Hydrotreater Regenerator Stack	CO	13.93	1.39	17	17	17
		SO_2	41.92	4.19			
		NOx	9.79	0.98			
		PM	2.05	0.20			
		PM_{10}	2.05	0.20			
		$PM_{2.5}$	2.05	0.20			
AT-1210	No. 1 Olefins Cooling Tower	PM	10.80	33.00	31-33	31-33	31-33
		PM_{10}	2.37	7.25			
		$PM_{2.5}$	2.37	7.25			
		VOC	6.93	30.35			
		1,3 Butadiene	6.93	1.05			
		Benzene	5.96	1.08			
		Ethylene	6.93	13.59			
		Propylene	6.93	13.59			
DAT-3201	No. 2 Olefins Cooling Tower	PM	10.80	33.00	31-33	31-33	31-33
		PM_{10}	2.37	7.25			
		$PM_{2.5}$	2.37	7.25			
		VOC	6.93	30.35			

Emission Sources - Maximum Allowable Emission Rates

		1,3 Butadiene	6.93	1.05			
		Benzene	5.96	1.08			
		Ethylene	6.93	13.59			
		Propylene	6.93	13.59			
DF-502	Lube Oil Tank	VOC	0.71	0.06	19G-H	19G-H, 46	19G-H
DF-916	Lube Oil Tank	VOC	0.06	0.01	19G-H	19G-H, 46	19G-H
AF-1905	Fuel Oil Tank	VOC	0.58	0.81	19G-H	19G-H, 46	19G-H
AF-3905	Fuel Oil Tank	VOC	0.58	0.81	19G-H	19G-H, 46	19G-H
DF-1001	Fuel Oil Tank	VOC	0.77	0.58	19G-H	19G-H, 46	19G-H
DDF-1001	Fuel Oil Tank	VOC	0.60	0.58	19G-H	19G-H, 46	19G-H
AF-1105	Rerun Bottoms Tank	VOC	1.55	2.91	19G-H 19G-H	19G-H, 46 19G-H, 46	19G-H 19G-H
		Benzene	0.07	0.21			
AF-1106	Rerun Bottoms Tank	VOC	0.99	1.77	19G-H	19G-H, 46	19G-H
		Benzene	0.07	0.21			
FUELTRK1	No. 1 Olefins Truck Loading	VOC	6.19	1.38	29	29	29
FUELTRK2	No. 2 Olefins Truck Loading	VOC	6.19	1.38	29	29	29
FUELTRK3	Rerun Bottoms Truck Loading	VOC	4.23	5.11	29	29	29
		Benzene	0.26	0.32			
EFRBZCAP	External Floating Roof Tank (6) (9)	Benzene	0.77	2.02	19G-H	19G-H	19G-H
AF-1101	External Floating Roof Storage Tank (6)	VOC	3.11	13.64	19D, G-H	19D, G-H; 47	19D, G-H
		Benzene	0.22	0.62			
AF-1102	External Floating Roof Storage Tank	VOC	3.11	13.64	19D, G-H	19D, G-H; 47	19D, G-H
		Benzene	0.22	0.62			

Emission Sources - Maximum Allowable Emission Rates

	(6)						
AF-1901	External Floating Roof Storage Tank	VOC	0.35	1.48	19D, G-H	19D, G-H; 47	19D, G-H
		Benzene	0.20	0.47			
AF-1902	External Floating Roof Storage Tank	VOC	0.14	0.52	19D, G-H	19D, G-H; 47	19D, G-H
AF-1903	External Floating Roof Storage Tank	VOC	0.14	0.52	19D,G-H	19D, G-H;47	19D, G-H
AF-1904	External Floating Roof Storage Tank	VOC	0.29	1.20	19D, G-H	19D, G-H; 47	19D, G-H
		Benzene	0.17	0.41			
AF-3901	External Floating Roof Storage Tank (6)	VOC	1.34	6.51	19D, G-H	19D, G-H; 47	19D, G-H
		Benzene	0.16	0.68			
AF-3101	External Floating Roof Storage Tank (6)	VOC	3.28	14.02	19D, G-H	19D, G-H; 47	19D, G-H
		Benzene	0.26	0.63			
AF-3102	External Floating Roof Storage Tank (6)	VOC	3.28	14.02	19D, G-H	19D, G-H; 47	19D, G-H
		Benzene	0.26	0.63			
AF-1103	Acetonitrile Storage Tank	VOC	0.09	0.13	19C, G-H	19C, G-H; 47	19C, G-H
AF-1104	Acetonitrile Storage Tank	VOC	0.09	0.13	19C, G-H	19C, G-H; 47	19C, G-H
AF-3103	Acetonitrile Storage Tank	VOC	0.09	0.13	19C, G-H	19C, G-H; 47	19C, G-H
DDF-1301	Methanol Storage Tank	VOC	3.90	0.05	19G-H	19G-H, 46	19G-H
DDF-202	Methanol Storage Tank	VOC	3.90	0.11	19G-H	19G-H, 46	19G-H
DF-1301	Methanol Storage Tank	VOC	3.44	0.05	19G-H	19G-H, 46	19G-H
AF-3701	Slop	VOC	5.07	0.08	19G-H	19G-H, 46	19G-H
AF-1215	Sodium Hypochlorite	Chlorine	0.01	0.01	19G-H	19G-H, 46	19G-H
AF-3215	Sodium	Chlorine	0.01	0.01	19G-H	19G-H, 46	19G-H

Emission Sources - Maximum Allowable Emission Rates

	Hypochlorite						
AF-4601A	Storm/Process Wastewater Tank	VOC	1.80	5.38	19D, G-H	19D, G-H; 47	19D, G-H
		Benzene	0.09	0.15			
AF-4601B	Storm/Process Wastewater Tank	VOC	1.80	5.38	19D, G-H	19D, G-H; 47	19D, G-H
		Benzene	0.09	0.15			
FAM1704	Olefins 1 API Separator	VOC	5.96	11.13	18	18	18
		Benzene	1.01	0.24			
FAM3706	Olefins 2 API Separator	VOC	5.96	11.13	18	18	18
		Benzene	1.01	0.24			
FUGOF1WW	Fugitive Emissions (5)	VOC	0.08	0.35	35, 37	35, 37, 48C	35, 37, 48C
		Benzene	0.03	0.13			
FUG2WWT	Fugitive Emissions (5)	VOC	0.09	0.38	35, 37	35, 37, 48C	35, 37, 48C
		Benzene	0.03	0.14			
FUG-V10F	No. 1 Olefins Unit Fugitives (5)	VOC	21.45	93.95	35, 37	35, 37, 48C	35, 37, 48C
		1,3 Butadiene	0.54	2.34			
		Benzene	0.24	1.05			
		Ethylene	2.31	10.13			
		Propylene	2.78	12.16			
FUG-V20F	No. 2 Olefins Unit Fugitives (5)	VOC	21.69	94.99	35, 37	35, 37, 48C	35, 37, 48C
		1,3 Butadiene	0.53	2.31			
		Benzene	0.24	1.04			
		Ethylene	2.28	9.99			
		Propylene	2.74	11.99			
FUG-FTF	Tank farm Fugitives (5)	VOC	0.77	3.37	35, 37	35, 37, 48C	35, 37, 48C
		Benzene	0.08	0.34			

Emission Sources - Maximum Allowable Emission Rates

FUG-VSSH	Second Stage Hydrotreater Fugitives (5)	VOC	1.09	4.78	35, 37	35, 37, 48C	35, 37, 48C
		Benzene	0.87	3.80			
FUG-VBD	Marine Dock Fugitives (5)	VOC	0.09	0.41	35, 37	35, 37, 48C	35, 37, 48C
		1,3 Butadiene	0.05	0.13			
		Benzene	0.04	0.03			
		Propylene	0.05	0.17			
FUG-VCM	Metering station fugitives (5)	VOC	0.31	1.38	35, 37	35, 37, 48C	35, 37, 48C
		Benzene	0.03	0.14			
FUG-RAIL	Rail Loading Fugitives (5)	VOC	0.09	0.39	35, 37	35, 37, 48C	35, 37, 48C
		1,3 Butadiene	0.09	0.17			
		Propylene	0.09	0.21			
FUG-SCR	SCR System Fugitives (5)	Ammonia	0.11	0.47	38A	38A	38A
FUG-A10F	No. 1 Olefins Analyzer Vent Fugitives	VOC	0.01	0.01	35, 37	35, 37, 48C	35, 37, 48C
FUG-A20F	No. 2 Olefins Analyzer Vent Fugitives	VOC	0.01	0.01	35, 37	35, 37, 48C	35, 37, 48C
CSNOXCAP	Combustion Sources NOx Cap (7) (9)	NOx	307.57	1347.17	14	14	14
DB-104	Steam Cracking Furnace (7)	CO	9.18	40.19	14, 43	14, 43, 48A	14, 43
		VOC	1.03	4.51			
		NOx	27.28	119.49			
		PM	1.42	6.23			
		PM_{10}	1.42	6.23			
		$PM_{2.5}$	1.42	6.23			
		SO_2	2.67	0.59			

Emission Sources - Maximum Allowable Emission Rates

DDB-101A	Steam Cracking Furnace (7)	CO	9.25	40.52	14, 43	14, 43, 48A	14, 43
		VOC	1.04	4.54			
		NOx	35.00	153.30			
		PM	1.43	6.28			
		PM_{10}	1.43	6.28			
		$PM_{2.5}$	1.43	6.28			
		SO_2	2.69	0.59			
DDB-101B	Steam Cracking Furnace (7)	CO	9.25	40.52	14, 43	14, 43, 48A	14, 43
		VOC	1.04	4.54			
		NOx	35.00	153.30			
		PM	1.43	6.28			
		PM_{10}	1.43	6.28			
		$PM_{2.5}$	1.43	6.28			
		SO_2	2.69	0.59			
DDB-101C	Steam Cracking Furnace (7)	CO	9.25	40.52	14, 43	14, 43, 48A	14, 43
		VOC	1.04	4.54			
		NOx	35.00	153.30			
		PM	1.43	6.28			
		PM_{10}	1.43	6.28			
		$PM_{2.5}$	1.43	6.28			
		SO_2	2.69	0.59			
DDB-101D	Steam Cracking Furnace (7)	CO	9.25	40.52	14, 43	14, 43, 48A	14, 43
		VOC	1.04	4.54			
		NOx	35.00	153.30			

Emission Sources - Maximum Allowable Emission Rates

		PM	1.43	6.28			
		PM_{10}	1.43	6.28			
		$PM_{2.5}$	1.43	6.28			
		SO_2	2.69	0.59			
DDB-102A	Steam Cracking Furnace (7)	VOC	0.79	3.45	14, 41-42	14, 41-42, 48A	14, 41-42
		NOx	26.60	116.51			
		CO	7.03	30.79			
		PM	1.09	4.77			
		PM_{10}	1.09	4.77			
		$PM_{2.5}$	1.09	4.77			
		SO_2	2.05	0.45			
DDB-102B	Steam Cracking Furnace (7)	VOC	0.79	3.45	14, 41-42	14, 41-42, 48A	14, 41-42
		NOx	26.60	116.51			
		CO	7.03	30.79			
		PM	1.09	4.77			
		PM_{10}	1.09	4.77			
		$PM_{2.5}$	1.09	4.77			
		SO_2	2.05	0.45			
DDB-102C	Steam Cracking Furnace (7)	VOC	0.79	3.45	14, 41-42	14, 41-42, 48A	14, 41-42
		NOx	26.60	116.51			
		CO	7.03	30.79			
		PM	1.09	4.77			
		PM_{10}	1.09	4.77			
		$PM_{2.5}$	1.09	4.77			

Emission Sources - Maximum Allowable Emission Rates

		SO_2	2.05	0.45			
DDB-102D	Steam Cracking Furnace (7)	VOC	0.79	3.45	14, 41-42	14, 41-42, 48A	14, 41-42
		NOx	26.60	116.51			
		CO	7.03	30.79			
		PM	1.09	4.77			
		PM_{10}	1.09	4.77			
		$PM_{2.5}$	1.09	4.77			
		SO_2	2.05	0.45			
DDB-104A	Steam Cracking Furnace (7)	CO	9.18	40.19	14, 43	14, 43, 48A	14, 43
		VOC	1.03	4.51			
		NOx	27.28	119.49			
		PM	1.42	6.23			
		PM_{10}	1.42	6.23			
		$PM_{2.5}$	1.42	6.23			
		SO_2	2.67	0.59			
DDB-104B	Steam Cracking Furnace (7)	CO	9.18	40.19	14, 43	14, 43, 48A	14, 43
		VOC	1.03	4.51			
		NOx	27.28	119.49			
		PM	1.42	6.23			
		PM_{10}	1.42	6.23			
		$PM_{2.5}$	1.42	6.23			
		SO_2	2.67	0.59			
DB-105	Steam Cracking Furnace (7)	NOx	24.75	108.41	14, 40-42	14, 40-42, 48A	14, 40-42
		CO	18.32	80.22			

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		Ammonia	4.36	9.56			
		VOC	2.05	9.00			
		PM	3.39	12.55			
		PM_{10}	3.39	12.55			
		$PM_{2.5}$	3.39	12.55			
		SO_2	5.33	1.17			
DB-106	Steam Cracking Furnace (7)	NOx	24.75	108.41	14, 40-42	14, 40-42, 48A	14, 40-42
		CO	18.32	80.22			
		Ammonia	4.36	9.56			
		VOC	2.05	9.00			
		PM	3.39	12.55			
		PM_{10}	3.39	12.55			
		$PM_{2.5}$	3.39	12.55			
		SO_2	5.33	1.17			
DB-107	Steam Cracking Furnace (7)	NOx	24.75	108.41	14, 40-42	14, 40-42, 48A	14, 40-42
		CO	18.32	80.22			
		Ammonia	4.36	9.56			
		VOC	2.05	9.00			
		PM	3.39	12.55			
		PM_{10}	3.39	12.55			
		$PM_{2.5}$	3.39	12.55			
		SO_2	5.33	1.17			
DB-108	Steam Cracking Furnace (7)	NOx	24.75	108.41	14, 40-42	14, 40-42, 48A	14, 40-42
		CO	18.32	80.22			
		Ammonia	4.36	9.56			

Emission Sources - Maximum Allowable Emission Rates

		VOC	2.05	9.00			
		PM	3.39	12.55			
		PM_{10}	3.39	12.55			
		$PM_{2.5}$	3.39	12.55			
		SO_2	5.33	1.17			
DB-109	Steam Cracking Furnace (7)	NOx	24.75	108.41	14, 40-42	14, 40-42, 48A	14, 40-42
		CO	18.32	80.22			
		Ammonia	4.36	9.56			
		VOC	2.05	9.00			
		PM	3.39	12.55			
		PM_{10}	3.39	12.55			
		$PM_{2.5}$	3.39	12.55			
		SO_2	5.33	1.17			
DB-201	Regeneration Furnace	NOx	5.85	25.62	14	14	14
		VOC	0.32	1.39			
		CO	4.85	21.23			
		PM	0.44	1.92			
		PM_{10}	0.44	1.92			
		$PM_{2.5}$	0.44	1.92			
		SO_2	0.55	0.12			
DB-601	Regeneration Heater	NOx	0.81	3.55	14	14	14
		VOC	0.04	0.19			
		CO	0.67	2.94			
		PM	0.06	0.27			
		PM_{10}	0.06	0.27			

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		$PM_{2.5}$	0.06	0.27			
		SO_2	0.08	0.02			
DDB-201	Regeneration Heater	NOx	5.85	25.62	14	14	14
		VOC	0.32	1.39			
		CO	4.85	21.23			
		PM	0.44	1.92			
		PM_{10}	0.44	1.92			
		$PM_{2.5}$	0.44	1.92			
		SO_2	0.55	0.12			
DDB-601	Regeneration Heater	NOx	0.81	3.55	14	14	14
		VOC	0.04	0.19			
		CO	0.67	2.94			
		PM	0.06	0.27			
		PM_{10}	0.06	0.27			
		$PM_{2.5}$	0.06	0.27			
		SO_2	0.08	0.02			
PP4DRV	PP4 Dryer Vents VOC CAP (8)	VOC	42.00	46.88	44	44,50	44
		Propylene	6.53	1.15			
J-1	2nd Stage Hydrotreater Feed Heater	NOx	1.50	6.57	14	14	14
		VOC	0.08	0.36			
		CO	1.24	5.44			
		PM	0.11	0.49			
		PM_{10}	0.11	0.49			
		$PM_{2.5}$	0.11	0.49			
		SO_2	0.14	0.03			

Emission Sources - Maximum Allowable Emission Rates

A-100	Cogen (7)	VOC	2.04	8.93	41-42, 54	41-42, 54	41-42, 54
		NOx	58.62	256.77			
		CO	35.68	156.30			
		PM	4.38	19.20			
		PM_{10}	4.38	19.20			
		$PM_{2.5}$	4.38	19.20			
		SO_2	1.68	7.35			
DM-1101MSS	Olefins 1 flare routine startup, shutdown and maintenance emissions (10)(11)	NOx	1227.40	30.68	58	58	58
		CO	6254.32	156.36			
		VOC	3500.00	87.50			
		1,3 Butadiene	1050.00	17.50			
		Ethylene	3500.00	78.75			
		Propylene	3500.00	78.75			
DDM-3101MSS	Olefins 2 flare routine startup, shutdown and maintenance emissions (10) (11)	NOx	1227.40	30.68	58	58	58
		CO	6254.32	156.36			
		VOC	3500.00	87.50			
		1,3 Butadiene	1050.00	17.50			
		Ethylene	3500.00	78.75			
		Propylene	3500.00	78.75			
FLAREMSSCAP	Olefins 1 and 2 flare routine startup, shutdown and maintenance emissions (10)(11)	NOx	1227.40	30.68	58	58	58
		CO	6254.32	156.36			
		VOC	3500.00	87.50			
		1,3 Butadiene	1050.00	17.50			
		Ethylene	3500.00	78.75			
		Propylene	3500.00	78.75			

Emission Sources - Maximum Allowable Emission Rates

MSSFUG1 & MSSCAP2	Portable Fugitive Sources and Activities resulting in MSS emissions & Flexible cap for sitewide MSS emissions not individually listed (12)	VOC	83.74	3.08	59-70	59-70	59-70
		NOx	0.17	0.07			
		CO	0.89	0.35			
		SO_2	0.01	0.01			
FUGOF1WW/ FUG2WWT	Olefins 1 and 2 Wastewater Unit Cleaning	VOC	40.0	0.24	58	58	58
		1,3 Butadiene	0.01	0.01			
		Benzene	4.00	0.02			

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.
(2) Specific point source name. For fugitive sources, use area name or fugitive source name.
(3) VOC (14) - 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
PM - total 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, including $PM_{2.5}$
$PM_{2.5}$ - 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) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
(6) External Floating Roof Tank Cap includes tank EPN's: AF-1101, AF-1102, AF-3101, AF-3102, AF-3901. The individual emissions limitations for these EPNs are independently enforceable from the emissions limitation in EFRBZCAP. The basis for the cap is that any individual tank may store pyrolysis gasoline, but pyrolysis gasoline may be stored in no more than three tanks at any one time.
(7) Combustion Sources NOx Cap includes the following EPN's: DB-104, DDB-101A, DDB-101B, DDB-101C, DDB-101D, DDB-102A, DDB-102B, DDB-102C, DDB-102D, DDB-104A, DDB-104B, DB-105, DB-106, DB-107, DB-108, DB-109, A-100. The individual emissions limitations for these EPNs are independently enforceable from the emissions limitation in CSNOXCAP. These sources are related because they all contribute high-pressure steam to the Chocolate Bayou steam system. The basis of this cap is to ensure overall emissions are not increased from the contributions of these sources to the Subchapter G Permit NOx Cap (0.05 lb/MMBtu on sources beginning "DB" and "DDB"; plus 25 ppmv at 15% O_2 for A-100 Cogen) from the permit issued June 30, 2009.

(8) PP4 Dryer vents include the following VOC emitting EPN's: P4PEDRYER1 and P4PEDDRYER2.
(9) Emissions caps do not remove the obligation to assess federal permitting applicability per the major modification definition in 30 TAC 116.12.

Emission Sources - Maximum Allowable Emission Rates

(10) The hourly emissions limits for EPNs DM-1101 and DDM-3101 for maintenance, startup and shutdown apply instead of the hourly emissions limits listed for normal operation; they do not apply in addition to the limits for normal operation. The annual emissions limits for these flare for maintenance, startup and shutdown apply in addition to the limits for normal operation.

(11) The flare MSS cap includes EPNs DM-1101 and DDM-3101. The individual emissions limitations for these EPNs are independently enforceable from the emissions limitation in FLAREMSSCAP. Total MSS emissions from flaring at these two EPNs, is limited to the amount in the permit issued November 9, 2005. These emissions may occur at either flare or any combination of both flares in any given annual period.

(12) EPNs MSSFUG1 & MSSCAP2 represent sitewide emissions from planned MSS activities not otherwise listed in the MAERT. It represents emissions from uncontrolled venting of miscellaneous process equipment after purging to the flare (as applicable) and represents VOC emissions after control for temporary control devices. Emissions from these EPNs are intended for miscellaneous MSS activities that may occur during normal operation or during shutdown.

(13) Combustion cap for Olefins Flares EPNs DM-1101 and DDM-3101. The individual emissions limitations for these EPNs are independently enforceable from the emissions limitation in FLCOMBCAP. These sources are related because process streams can be transferred from one unit to the other. The basis of this cap is to ensure that overall olefins flare combustion emissions are not increased from the contribution of these sources to the Subchapter G Permit NOx and CO caps from the flexible permit issued on June 30, 2009.

(14) All VOC emission rates incorporated in this table include any benzene, ethylene, propylene, and/or 1,3 butadiene contributions.