

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 9908

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.

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
<u>Phase One Completion Emission Limits</u>				
F-CBLK	Carbon Black Losses	PM/PM ₁₀	0.86	2.50
F-MAINT	Maintenance Emissions	BD	5.56	0.28
F-PACKC	Pack Out C Building Losses	Styrene	0.06	0.27
F-PACKCC	Pack Out CC Building Losses	Styrene	0.03	0.11
F-PACKD	Pack Out D Building Losses	Styrene	0.06	0.27
F-PILOT	Pilot Plant Building Losses	BD	0.01	0.02
		PM ₁₀	0.02	0.04
		Styrene	0.18	0.15
		VOC (7)	0.03	0.06
F-PROCESSC	Process C Building Losses	Styrene	0.68	1.10
F-PROCESSCC	Process CC Building Losses	Styrene	0.08	0.13
F-PROCESSD	Process D Building Losses	Styrene	0.68	1.10
F-WWT	Wastewater System	Acetone	0.26	1.16
		BD	0.09	0.38
		Styrene	2.10	9.18
		VOC (7)	0.94	4.12

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
S-CARBLK	Carbon Black Grinding	PM ₁₀ (6)	0.04	0.19
S-PILOTFLR	Pilot Plant Flare	BD	0.01	0.01
		CO	0.01	0.03
		NO _x	0.01	0.01
		SO ₂	0.01	0.01
		VOC (7)	0.10	0.44
S-PLANTFLR	Plant Flare Normal Operation	BD	0.19	0.81
		CO	0.60	2.61
		NO _x	0.11	0.48
		SO ₂	0.01	0.01
		VOC (7)	0.11	0.44
	Start-up, Shutdown, and Maintenance Emissions	BD	29.15	0.58
		CO	1.47	2.06
		NO _x	2.89	4.05
		SO ₂	0.02	0.04
		VOC	0.01	0.01
S-SUPERHEAT	Steam Super Heater	CO	0.24	1.04
		NO _x	0.28	1.24
		PM ₁₀ (5)	0.02	0.09
		SO ₂	0.01	0.01
		VOC	0.02	0.07
SOUTH-CT	South Cooling Tower	PM ₁₀	2.38	10.44
		VOC	0.39	1.69
SS-12	A Dryer	PM ₁₀	2.25	
		Styrene	18.61	
		VCH	0.64	
		VOC (8)	1.85	
SS-13	B Dryer	PM ₁₀	2.25	
		Styrene	18.67	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
SS-14	C Dryer	VCH	0.64	
		VOC (8)	1.90	
		PM ₁₀	2.25	
		Styrene	18.99	
S-DRYERD	D Dryer	VCH	0.64	
		VOC (8)	1.83	
		PM ₁₀	2.25	
		Styrene	18.84	
SS-16	E Dryer	VCH	0.64	
		VOC (8)	1.99	
		PM ₁₀	2.25	
		Styrene	18.58	
S-DRYERF	F Dryer	VCH	0.64	
		VOC (8)	2.12	
		PM ₁₀	2.25	
		Styrene	18.43	
S-DRYERG	G Dryer	VCH	0.64	
		VOC (8)	2.64	
		PM ₁₀	2.25	
		Styrene	18.45	
S-DRYERH	H Dryer	VCH	0.64	
		VOC (8)	2.34	
		PM ₁₀	2.25	
		Styrene	17.74	
SS-20	I Dryer	VCH	0.64	
		VOC (8)	1.85	
		PM ₁₀	2.25	
		Styrene	18.33	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
S-DRYERJ	J Dryer	PM ₁₀	2.25	
		Styrene	15.00	
		VCH	0.64	
		VOC (8)	4.15	
	Hourly Styrene Emission Cap for the Ten Dryers		Styrene	42.70
	Annual Emission Caps for the Ten Dryers	PM ₁₀		43.50
		Styrene		135.58
		VCH		12.41
		VOC (8)		42.76
S-PROCESSCC	I-Line Packaging Dust	PM ₁₀	0.02	0.05
T-AMINE	Amine Coagulant Tank 6C Storage	VOC	65.32	1.03
T-COAG AID1	Coagulation Aid Tank 1 6C, Make Up	VOC	0.20	
T-COAG AID2	Coagulation Aid Tank 2 6C, Supply	VOC	1.22	
T-COAG AID3	Coagulation Aid Tank 3 6CC, J Line	VOC	0.16	
T-COAG AID4	Coagulation Aid Tank 4 6D, Storage	VOC	0.20	
T-COAG AID5	Coagulation Aid Tank 5 6CC, I Line	VOC	0.20	
T-COAG AID6	Coagulation Aid Tank 6 6C, Supply	VOC	0.16	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
T-COAG AID	Coagulation Aid Tanks (Annual Emission Cap)	VOC		0.07
T-DIESEL1	Diesel Tank 1 Recovery Area Storage	VOC	0.07	
T-DIESEL2	Diesel Tank 2 Utilities Storage	VOC	0.24	
T-DIESEL3	Diesel Tank 3 Utilities Fire Pump	VOC	0.02	
T-DIESEL	Diesel Tanks (Annual Emission Cap)	VOC		0.01
T-D/L-OIL1	Extender Oil Tank PTF, Storage	VOC	1.50	
T-D/L-OIL3	Waste Oil Tank OTF, Storage	VOC	1.50	
T-D/L-OIL7	Antioxidant Tank PTF, Storage	VOC	1.49	
T-D/L-OIL8	Extender Oil Tank 1 6D, Storage	VOC	2.09	
T-D/L-OIL9	Extender Oil Tank 2 6D, Storage	VOC	2.09	
T-D/L-OIL10	Extender Oil Tank 3 6D, Storage	VOC	1.74	
T-D/L-OIL	Staining Oil Tanks (Annual Emission Cap)	VOC		0.21
T-EM/MOD1	EMMODMOX Tank 1	VOC	0.40	
T-EM/MOD2	9D, Soap Make Up	VOC	0.36	
T-EM/MOD3	9D, Soap Storage	VOC	0.40	
T-EM/MOD4	9D, Soap Storage	VOC	0.40	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
T-EM/MOD5	9D, Defoamer Storage	VOC	0.40	
T-EM/MOD6	PTF, DVB Storage	VOC	0.41	
T-EM/MOD7	PTF, HTFA Storage	VOC	1.38	
T-EM/MOD8	PTF, DDM Mod Storage	VOC	0.88	
T-EM/MOD9	PTF, Sulfole Mod Storage Tank	VOC	0.79	
T-EM/MOD10	9D, Oxidant Storage Tank	VOC	0.38	
T-EM/MOD11	9D, Oxidant Feed Tank	VOC	0.01	
T-EM/MOD12	9D, Oxidant Feed Tank	VOC	0.01	
T-EM/MOD13	9D, Activator Make Up Tank	VOC	0.28	
T-EM/MOD14	9C, Activator	VOC	0.17	
T-EM/MOD15	9C, Hot Activator	VOC	0.18	
T-EM/MOD17	9C, Shortstop Make Up Tank	VOC	0.04	
T-EM/OX/MOD	Emulsifier, Oxidant and Modifier Tanks 1 through 17 (Annual Emission Cap)	VOC		0.67
T-LTX-B16	Latex Tank B16	Styrene	0.19	
T-LTX-B17	Latex Tank B17	Styrene	0.19	
T-LTX-C11	Latex Tank 11	Styrene	0.19	
T-LTX-C12	Latex Tank 12	Styrene	0.19	
T-LTX-C13	Latex Tank 13	Styrene	0.19	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
T-LTX-C14	Latex Tank 14	Styrene	0.19	
T-LTX-C15	Latex Tank 15	Styrene	0.19	
T-LTX-C16	Latex Tank 16	Styrene	0.19	
T-LTX-C17	Latex Tank 17	Styrene	0.19	
T-LTX-C18	Latex Tank 18	Styrene	0.19	
T-LTX-C19	Latex Tank 19	Styrene	0.19	
T-LTX-CC41	Latex Tank CC41	Styrene	0.19	
T-LTX-CC42	Latex Tank CC42	Styrene	0.19	
T-LTX-CC43	Latex Tank CC43	Styrene	0.19	
T-LTX-CC44	Latex Tank CC44	Styrene	0.19	
T-LTX-CC45	Latex Tank CC45	Styrene	0.19	
T-LTX-CC46	Latex Tank CC46	Styrene	0.19	
T-LTX-CD	Latex C/D Dorr Tank	Styrene	0.19	
T-LTX-D1	Latex Tank D1	Styrene	0.19	
T-LTX-D2	Latex Tank D2	Styrene	0.19	
T-LTX-D3	Latex Tank D3	Styrene	0.19	
T-LTX-D4	Latex Tank D4	Styrene	0.19	
T-LTX-D5	Latex Tank D5	Styrene	0.19	
T-LTX-D6	Latex Tank D6	Styrene	0.19	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
T-LTX-D7	Latex Tank D7	Styrene	0.19	
T-LTX-D8	Latex Tank D8	Styrene	0.19	
T-LTX-D9	Latex Tank D9	Styrene	0.19	
T-LTX-D10	Latex Tank D10	Styrene	0.19	
T-LTX-D11	Latex Tank D11	Styrene	0.19	
T-LTX	Latex Tanks (Annual Emission Cap)	Styrene		0.94
T-MSTY1	Styrene Tank 1	Styrene	6.36	
T-MSTY2	Styrene Tank 2	Styrene	4.37	
T-MSTY3	Styrene Tank 3	Styrene	4.37	
T-MSTY	Main Styrene Tanks (Annual Emission Cap)	Styrene		2.33
T-SFLEX1	Staining AO Tank 1 PTF Flexzone Storage	VOC	0.01	
T-SFLEX2	Staining AO Tank 2 9C Make Up	VOC	0.01	
T-SFLEX3	Staining AO Tank 3 9D Make Up	VOC	0.01	
T-SFLEX4	Staining AO Tank 4 9D, Emulsion Storage	VOC	0.01	
T-SFLEX5	Staining AO Tank 5 9D Make Up	VOC	0.01	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
T-SFLEX6	Staining AO Tank 6 9D Make Up	VOC	0.01	
T-SFLEX7	Staining AO Tank 7 9D Make Up	VOC	0.01	
T-SFLEX8	Staining AO Tank 8 9D Storage	VOC	0.01	
T-SFLEX9	Staining AO Tank 9 9D Storage	VOC	0.01	
T-SFLEX10	Staining AO Tank 10 6C Blend Feed	VOC	0.01	
T-SFLEX11	Staining AO Tank 11 6D Blend Feed	VOC	0.01	
T-SFLEX	Staining AO Tanks (Annual Emission Cap)	VOC		0.01
T-SGEL	PTF Nonstaining AO Storage Tank	VOC	0.04	0.01
T-SSTP1	Shortstop Tank 1 8CC, Storage	VOC	1.68	
T-SSTP2	Shortstop Tank 2 9D, Make Up	VOC	0.53	
T-SSTP3	Shortstop Tank 3 9C, Make Up	VOC	0.50	
T-SHRTSTOP	Shortstop Tanks (Annual Emission Cap)	VOC		0.01
T-SPLY1	Nonstaining AO Tank 1 9C	VOC	0.01	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
	Make Up			
T-SPLY3	Nonstaining AO Tank 3 6CC	VOC	0.01	
T-SPLY4	Nonstaining AO Tank 4 6CC	VOC	0.01	
T-SPLY5	Nonstaining AO Tank 5 6C Blend Feed	VOC	0.01	
T-SPLY6	Nonstaining AO Tank 6 6D Blend Feed	VOC	0.01	
T-SPLY	Nonstaining AO Tanks 1 - 6 (Annual Emission Cap)	VOC		0.01
T-TALLOIL1	Raw Soap Tank 1 PTF	VOC	0.51	
T-TALLOIL2	Raw Soap Tank 2 PTF	VOC	0.54	
T-TALLOIL3	Raw Soap Tank 3 PTF	VOC	0.51	
T-TALLOIL	Raw Soap Tanks (Annual Emission Cap)	VOC		0.04
T-WGAS	West Gasoline Tank	VOC	13.10	0.21
F-MONTF	Process Fugitive (4)	BD	0.59	2.57
		Styrene	0.15	0.64
F-REACCA	Process Fugitive (4)	BD	0.27	1.18
		Styrene	0.09	0.38
F-REACCB	Process Fugitive (4)	BD	0.26	1.12
		Styrene	0.09	0.38
F-REACCC	Process Fugitive (4)	BD	0.26	1.14
		Styrene	0.03	0.12

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
F-REACDA	Process Fugitive (4)	BD	0.27	1.19
		Styrene	0.11	0.49
F-REACDB	Process Fugitive (4)	BD	0.36	1.57
		Styrene	0.13	0.56
F-RECOVCA	Process Fugitive (4)	BD	0.14	0.63
		Styrene	0.03	0.11
F-RECOVCB	Process Fugitive (4)	BD	0.10	0.43
		Styrene	0.01	0.05
F-RECOVCC	Process Fugitive (4)	BD	0.04	0.19
		Styrene	0.01	0.05
F-RECOVDA	Process Fugitive (4)	BD	0.08	0.34
		Styrene	0.02	0.09
F-RECOVDB	Process Fugitive (4)	BD	0.12	0.54
		Styrene	0.01	0.05
<u>Phase Two Completion Emission Limits</u>				
F-CBLK	Carbon Black Losses	PM/PM ₁₀	0.86	2.50
F-MAINT	Maintenance Emissions	BD	5.56	0.32
F-PACKC	Pack Out C Building Losses	Styrene	0.07	0.31
F-PACKCC	Pack Out CC Building Losses	Styrene	0.03	0.14
F-PACKD	Pack Out D Building Losses	Styrene	0.07	0.31
F-PILOT	Pilot Plant Building Losses	BD	0.01	0.02
		PM ₁₀	0.02	0.05
		Styrene	0.18	0.14
		VOC (7)	0.03	0.08
F-PROCESSC	Process C Building Losses	Styrene	0.68	0.90

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
F-PROCESSCC	Process CC Building Losses	Styrene	0.08	0.11
F-PROCESSD	Process D Building Losses	Styrene	0.68	0.90
F-WWT	Wastewater System	Acetone	0.30	1.33
		BD	0.10	0.44
		Styrene	2.40	10.51
		VOC (7)	1.08	4.71
S-CARBLK	Carbon Black Grinding	PM ₁₀ (6)	0.04	0.19
S-PILOTFLR	Pilot Plant Flare	BD	0.01	0.01
		CO	0.01	0.03
		NO _x	0.01	0.01
		SO ₂	0.01	0.01
		VOC (7)	0.09	0.39
S-PLANTFLR	Plant Flare Normal Operation	BD	0.21	0.94
		CO	0.61	2.66
		NO _x	0.11	0.49
		SO ₂	0.01	0.01
		VOC (7)	0.11	0.45
	Start-up, Shutdown, and Maintenance Emissions	BD	29.15	0.58
		CO	1.47	2.06
		NO _x	2.89	4.05
		SO ₂	0.02	0.04
		VOC	0.01	0.01
S-SUPERHEAT	Steam Super Heater	CO	0.24	1.04
		NO _x	0.28	1.24
		PM ₁₀ (5)	0.02	0.09
		SO ₂	0.01	0.01
		VOC	0.02	0.07
SOUTH-CT	South Cooling Tower	PM ₁₀	2.75	12.06

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
		VOC	0.44	1.94
SS-12	A Dryer	PM ₁₀	2.25	
		Styrene	18.61	
		VCH	0.64	
		VOC (8)	1.85	
SS-13	B Dryer	PM ₁₀	2.25	
		Styrene	18.67	
		VCH	0.64	
		VOC (8)	1.90	
SS-14	C Dryer	PM ₁₀	2.25	
		Styrene	18.99	
		VCH	0.64	
		VOC (8)	1.83	
S-DRYERD	D Dryer	PM ₁₀	2.25	
		Styrene	18.84	
		VCH	0.64	
		VOC (8)	1.99	
SS-16	E Dryer	PM ₁₀	2.25	
		Styrene	18.58	
		VCH	0.64	
		VOC (8)	2.08	
S-DRYERF	F Dryer	PM ₁₀	2.25	
		Styrene	18.43	
		VCH	0.64	
		VOC (8)	2.12	
S-DRYERG	G Dryer	PM ₁₀	2.25	
		Styrene	18.45	
		VCH	0.64	
		VOC (8)	2.64	
S-DRYERH	H Dryer	PM ₁₀	2.25	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
		Styrene	17.74	
		VCH	0.64	
		VOC (8)	2.34	
SS-20	I Dryer	PM ₁₀	2.25	
		Styrene	18.33	
		VCH	0.64	
		VOC (8)	1.85	
S-DRYERJ	J Dryer	PM ₁₀	2.25	
		Styrene	15.00	
		VCH	0.64	
		VOC (8)	4.15	
	Hourly Styrene Emission Cap for the Ten Dryers	Styrene	42.70	
	Annual Emission Caps for the Ten Dryers	PM ₁₀		50.25
		Styrene		128.14
		VCH		14.34
		VOC (8)		49.88
S-PROCESSCC	I-Line Packaging Dust	PM ₁₀	0.02	0.05
T-AMINE	Amine Coagulant Tank 6C Stage	VOC	65.32	1.18
T-COAGID1	Coagulation Aid Tank 1 6C Make Up	VOC	0.20	
T-COAGID2	Coagulation Aid Tank 2 6C Supply	VOC	1.22	
T-COAGID3	Coagulation Aid Tank 3 6CC J Line	VOC	0.16	
T-COAGID4	Coagulation Aid Tank 4 6D Stage	VOC	0.20	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
T-COAGAID5	Coagulation Aid Tank 5 6CC I Line	VOC	0.20	
T-COAGAID6	Coagulation Aid Tank 6 6C Supply	VOC	0.16	
T-COAGAID	Coagulation Aid Tanks (Annual Emission Cap)	VOC		0.07
T-DIESEL1	Diesel Tank 1 Recovery Area Stage	VOC	0.07	
T-DIESEL2	Diesel Tank 2 Utilities Stage	VOC	0.24	
T-DIESEL3	Diesel Tank 3 Utilities Fire Pump	VOC	0.02	
T-DIESEL	Diesel Tanks (Annual Emission Cap)	VOC		0.01
T-D/L-OIL1	Extender Oil Tank PTF Stage	VOC	1.50	
T-D/L-OIL3	Waste Oil Tank OTF Stage	VOC	1.50	
T-D/L-OIL7	Antioxidant Tank PTF Stage	VOC	1.49	
T-D/L-OIL8	Extender Oil Tank 1 6D Stage	VOC	2.09	
T-D/L-OIL9	Extender Oil Tank 2 6D Stage	VOC	2.09	
T-D/L-OIL10	Extender Oil Tank 3 6D Stage	VOC	1.74	
T-D/L-OIL	Staining Oil Tanks (Annual Emission Cap)	VOC		0.22
T-EM/MOD1	EMMODMOX Tank 1	VOC	0.40	

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			lb/hr	TPY **
T-EM/MOD2	9D Soap Make Up	VOC	0.36	
T-EM/MOD3	9D Soap Stage	VOC	0.40	
T-EM/MOD4	9D Soap Stage	VOC	0.40	
T-EM/MOD5	9D Defoamer Stage	VOC	0.40	
T-EM/MOD6	PTF DVB Stage	VOC	0.41	
T-EM/MOD7	PTF HTFA Stage	VOC	1.38	
T-EM/MOD8	PTF DDM Mod Stage	VOC	0.88	
T-EM/MOD9	PTF Sulfole Mod Stage Tank	VOC	0.79	
T-EM/MOD10	9D Oxidant Stage Tank	VOC	0.38	
T-EM/MOD11	9D Oxidant Stage Tank	VOC	0.01	
T-EM/MOD12	9D Oxidant Stage Tank	VOC	0.01	
T-EM/MOD13	9D Activator Make Up Tank	VOC	0.28	
T-EM/MOD14	9C Activator	VOC	0.17	
T-EM/MOD15	9C Hot Activator	VOC	0.18	
T-EM/MOD17	9C Shortstop Make Up Tank	VOC	0.04	
T-EM/OX/MOD	Emulsifier, Oxidant and Modifier Tanks 1 through 17 (Annual Emission Cap)	VOC		0.76
T-LTX-B16	Latex Tank B16	Styrene	0.19	
T-LTX-B17	Latex Tank B17	Styrene	0.19	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
T-LTX-C11	Latex Tank 11	Styrene	0.19	
T-LTX-C12	Latex Tank 12	Styrene	0.19	
T-LTX-C13	Latex Tank 13	Styrene	0.19	
T-LTX-C14	Latex Tank 14	Styrene	0.19	
T-LTX-C15	Latex Tank 15	Styrene	0.19	
T-LTX-C16	Latex Tank 16	Styrene	0.19	
T-LTX-C17	Latex Tank 17	Styrene	0.19	
T-LTX-C18	Latex Tank 18	Styrene	0.19	
T-LTX-C19	Latex Tank 19	Styrene	0.19	
T-LTX-CC41	Latex Tank CC41	Styrene	0.19	
T-LTX-CC42	Latex Tank CC42	Styrene	0.19	
T-LTX-CC43	Latex Tank CC43	Styrene	0.19	
T-LTX-CC44	Latex Tank CC44	Styrene	0.19	
T-LTX-CC45	Latex Tank CC45	Styrene	0.19	
T-LTX-CC46	Latex Tank CC46	Styrene	0.19	
T-LTX-CD	Latex C/D Dorr Tank	Styrene	0.19	
T-LTX-D1	Latex Tank D1	Styrene	0.19	
T-LTX-D2	Latex Tank D2	Styrene	0.19	
T-LTX-D3	Latex Tank D3	Styrene	0.19	

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
T-LTX-D4	Latex Tank D4	Styrene	0.19	
T-LTX-D5	Latex Tank D5	Styrene	0.19	
T-LTX-D6	Latex Tank D6	Styrene	0.19	
T-LTX-D7	Latex Tank D7	Styrene	0.19	
T-LTX-D8	Latex Tank D8	Styrene	0.19	
T-LTX-D9	Latex Tank D9	Styrene	0.19	
T-LTX-D10	Latex Tank D10	Styrene	0.19	
T-LTX-D11	Latex Tank D11	Styrene	0.19	
T-LTX	Latex Tanks (Annual Emission Cap)	Styrene		0.95
T-MSTY1	Styrene Tank 1	Styrene	6.36	
T-MSTY2	Styrene Tank 2	Styrene	4.37	
T-MSTY3	Styrene Tank 3	Styrene	4.37	
T-MSTY	Main Styrene Tanks (Annual Emission Cap)	Styrene		2.51
T-SFLEX1	Staining AO Tank 1 PTF Flexzone Storage	VOC	0.01	
T-SFLEX2	Staining AO Tank 2 9C Make Up	VOC	0.01	
T-SFLEX3	Staining AO Tank 3 9D Make Up	VOC	0.01	

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	AIR CONTAMINANTS DATA	
			Emission Rates *	TPY **
			lb/hr	
T-SFLEX4	Staining AO Tank 4 9D Emulsion Storage	VOC	0.01	
T-SFLEX5	Staining AO Tank 5 9D Make Up	VOC	0.01	
T-SFLEX6	Staining AO Tank 6 9D Make Up	VOC	0.01	
T-SFLEX7	Staining AO Tank 7 9D Make Up	VOC	0.01	
T-SFLEX8	Staining AO Tank 8 9D Storage	VOC	0.01	
T-SFLEX9	Staining AO Tank 9 9D Storage	VOC	0.01	
T-SFLEX10	Staining AO Tank 10 6C Blend Feed	VOC	0.01	
T-SFLEX11	Staining AO Tank 11 6D Blend Feed	VOC	0.01	
T-SFLEX	Staining AO Tanks (Annual Emission Cap)	VOC		0.01
T-SGEL	PTF Nonstaining AO Stage Storage Tank	VOC	0.04	0.01
T-SSTP1	Shortstop Tank 1 8CC Stage Storage	VOC	1.68	
T-SSTP2	Shortstop Tank 2 9D Make Up	VOC	0.53	
T-SSTP3	Shortstop Tank 3 9C Make Up	VOC	0.50	
T-SHRTSTOP	Shortstop Tanks (Annual Emission Cap)	VOC		0.01

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
T-SPLY1	Nonstaining AO Tank 1 9C Make Up	VOC	0.01	
T-SPLY3	Nonstaining AO Tank 3 6CC	VOC	0.01	
T-SPLY4	Nonstaining AO Tank 4 6CC	VOC	0.01	
T-SPLY5	Nonstaining AO Tank 5 6C Blend Feed	VOC	0.01	
T-SPLY6	Nonstaining AO Tank 6 6D Blend Feed	VOC	0.01	
T-SPLY	Nonstaining AO Tanks 1 - 6 (Annual Emission Cap)	VOC		0.01
T-TALLOIL1	Raw Soap Tank 1 PTF	VOC	0.50	
T-TALLOIL2	Raw Soap Tank 2 PTF	VOC	0.53	
T-TALLOIL3	Raw Soap Tank 3 PTF	VOC	0.50	
T-TALLOIL	Raw Soap Tanks (Annual Emission Cap)	VOC		0.04
T-WGAS	West Gasoline Tank	VOC	13.10	0.21
F-MONTF	Process Fugitive (4)	BD	0.59	2.57
		Styrene	0.15	0.64
F-REACCA	Process Fugitive (4)	BD	0.27	1.18
		Styrene	0.09	0.38
F-REACCB	Process Fugitive (4)	BD	0.26	1.12
		Styrene	0.09	0.38

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
F-REACCC	Process Fugitive (4)	BD	0.26	1.14
		Styrene	0.03	0.12
F-REACDA	Process Fugitive (4)	BD	0.27	1.19
		Styrene	0.11	0.49
F-REACDB	Process Fugitive (4)	BD	0.36	1.57
		Styrene	0.13	0.56
F-REACNB	Process Fugitives (4)	BD	0.27	1.18
		Styrene	0.07	0.31
F-RECOVCA	Process Fugitive (4)	BD	0.14	0.63
		Styrene	0.03	0.11
F-RECOVCB	Process Fugitive (4)	BD	0.10	0.43
		Styrene	0.01	0.05
F-RECOVCC	Process Fugitive (4)	BD	0.04	0.19
		Styrene	0.01	0.05
F-RECOVDA	Process Fugitive (4)	BD	0.08	0.34
		Styrene	0.02	0.09
F-RECOVDB	Process Fugitive (4)	BD	0.12	0.54
		Styrene	0.01	0.05
F-RECOVNB	Process Fugitives (4)	BD	0.14	0.63
		Styrene	0.01	0.05

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

- (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) PM - particulate matter, suspended in the atmosphere, including PM₁₀
PM₁₀ - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
BD - 1,3-butadiene
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code ' 101.1
CO - carbon monoxide
NO_x - nitrogen oxide
SO₂ - sulfur dioxide
VCH - vinyl cyclohexene
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) PM₁₀ emissions from the carbon black grinding area shall cease emitting from this EPN by June 1, 2007.
- (6) PM₁₀ emissions from the carbon black grinding area shall emit from this EPN on and after June 1, 2007.
- (7) VOC emissions do not include styrene, 1,3-butadiene and vinyl cyclohexene
- (8) VOC emissions do not include styrene and vinyl cyclohexene.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day 24 Days/week 7 Weeks/year 52

** Compliance with annual emission limits is based on a rolling 12-month period.

Dated April 24, 2007

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES