EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 49127

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**
F-MAINT	Maintenance Emissions	BD	5.56	0.21
F-PACKC	Pack Out C Building Losses	Styrene	0.11	0.38
F-PACKCC	Pack Out CC Building Losses	Styrene	0.05	0.15
F-PACKD	Pack Out D Building Losses	Styrene	0.11	0.38
F-PILOT	Pilot Plant Building Losses	BD	0.02	0.08
		PM_{10} 0.02	0.06	
		Styrene	0.20	0.69
		VOC (7)	0.06	0.20
F-PROCESSC	Process C Building Losses	Styrene	1.82	3.99
F-PROCESSCC	Process CC Building Losses	Styrene	0.22	0.48
F-PROCESSD	Process D Building Losses	Styrene	1.82	3.99
F-WWT	Wastewater System	Acetone	0.19	0.83
		BD 0.06	0.26	
		Styrene	1.54	6.75
		VOC (7)	0.68	3.02
S-CARBLK	Carbon Black Grinding	PM_{10} (6)	0.04	0.19
S-DRYERH	Dryer H	PM_{10}	1.80	6.31
		Styrene	19.30	67.61
		VOC (7)	3.42	12.00

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**
S-DRYERJ	Dryer J	PM_{10}	1.28	3.61
		Styrene	14.80	41.94
		VOC (7)	2.43	6.87
S-PILOTFLR	Pilot Plant Flare	BD	0.29	0.01
		CO 0.01	0.02	
		NO_x	0.03	0.04
		SO_2 0.01	0.01	
		VOC 0.01	0.01	
S-PLANTFLR	Plant Flare	BD	29.15	0.58
	(Start-up, Shutdown and	CO	1.47	2.06
	Maintenance Emissions)	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	
T-AMINE	Amine Coagulant Tank	VOC	65.29	0.78
T-COAGAID1	Coagulation Tank 1	VOC	0.20	
T-COAGAID2	Coagulation Tank 2	VOC	1.22	
T-COAGAID3	Coagulation Tank 3	VOC	0.16	
T-COAGAID4	Coagulation Tank 4	VOC	0.20	
T-COAGAID5	Coagulation Tank 5	VOC	0.20	
T-COAGAID6	Coagulation Tank 6	VOC	0.16	
T-COAGAID	Coagulation Aid Tanks	VOC		0.06

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**
	(Annual Emission Cap)			
T-DIESEL1	Diesel Tank 1	VOC	0.07	
T-DIESEL2	Diesel Tank 2	VOC	0.24	
T-DIESEL3	Diesel Tank 3	VOC	0.02	
T-DIESEL	Diesel Tanks (Annual Emission Cap)	VOC		0.01
T-D/L-OIL1	Staining Oil Tank 1	VOC	1.50	
T-D/L-OIL2	Staining Oil Tank 2	VOC	2.43	
T-D/L-OIL3	Staining Oil Tank 3	VOC	1.50	
T-D/L-OIL4	Staining Oil Tank 4	VOC	1.50	
T-D/L-OIL5	Staining Oil Tank 5	VOC	1.50	
T-D/L-OIL6	Staining Oil Tank 6	VOC	1.50	
T-D/L-OIL7	Staining Oil Tank 7	VOC	1.49	
T-D/L-OIL8	Staining Oil Tank 8	VOC	2.09	
T-D/L-OIL9	Staining Oil Tank 9	VOC	2.09	
T-D/L-OIL10	Staining Oil Tank 10	VOC	1.74	
T-D/L-OIL	Staining Oil Tanks (Annual Emission Cap)	VOC		0.26
T-EM/MOD1	EMMODMOX Tank 1	VOC	0.40	
T-EM/MOD2	EMMODMOX Tank 2	VOC	0.36	
T-EM/MOD3	EMMODMOX Tank 3	VOC	0.40	

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-EM/MOD4	EMMODMOX Tank 4	VOC	0.40	
T-EM/MOD5	EMMODMOX Tank 5	VOC	0.40	
T-EM/MOD6	EMMODMOX Tank 6	VOC	0.41	
T-EM/MOD7	EMMODMOX Tank 7	VOC	1.38	
T-EM/MOD8	EMMODMOX Tank 8	VOC	0.88	
T-EM/MOD9	EMMODMOX Tank 9	VOC	0.79	
T-EM/MOD10	EMMODMOX Tank 10	VOC	0.38	
T-EM/MOD11	EMMODMOX Tank 11	VOC	0.01	
T-EM/MOD12	EMMODMOX Tank 12	VOC	0.01	
T-EM/MOD13	EMMODMOX Tank 13	VOC	0.28	
T-EM/MOD14	EMMODMOX Tank 14	VOC	0.17	
T-EM/MOD15	EMMODMOX Tank 15	VOC	0.18	
T-EM/MOD16	EMMODMOX Tank 16	VOC	0.05	
T-EM/MOD17	EMMODMOX Tank 17	VOC	0.04	
T-EM/MOD18	EMMODMOX Tank 18	VOC	0.05	
T-EM/OX/MOD	Emulsifier, Oxidant and Modifier Tanks (Annual Emission Cap)	VOC		0.54
T-LTX-C11	Latex Tank 11	Styrene	0.22	

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-C12	Latex Tank 12	Styrene	0.22	
T-LTX-C13	Latex Tank 13	Styrene	0.22	
T-LTX-C14	Latex Tank 14	Styrene	0.22	
T-LTX-C15	Latex Tank 15	Styrene	0.22	
T-LTX-C16	Latex Tank 16	Styrene	0.22	
T-LTX-C17	Latex Tank 17	Styrene	0.22	
T-LTX-C18	Latex Tank 18	Styrene	0.22	
T-LTX-C19	Latex Tank 19	Styrene	0.22	
T-LTX-CC41	Latex Tank CC41	Styrene	0.22	
T-LTX-CC42	Latex Tank CC42	Styrene	0.22	
T-LTX-CC43	Latex Tank CC43	Styrene	0.22	
T-LTX-CC44	Latex Tank CC44	Styrene	0.22	
T-LTX-CC45	Latex Tank CC45	Styrene	0.22	
T-LTX-CC46	Latex Tank CC46	Styrene	0.22	
T-LTX-CD	Latex C/D Dorr Tank	Styrene	0.22	
T-LTX-D1	Latex Tank D1	Styrene	0.22	
T-LTX-D2	Latex Tank D2	Styrene	0.22	
T-LTX-D3	Latex Tank D3	Styrene	0.22	

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	0.22	
T-LTX-D5	Latex Tank D5	Styrene	0.22	
T-LTX-D6	Latex Tank D6	Styrene	0.22	
T-LTX-D7	Latex Tank D7	Styrene	0.22	
T-LTX-D8	Latex Tank D8	Styrene	0.22	
T-LTX-D9	Latex Tank D9	Styrene	0.22	
T-LTX	Latex Tanks (Annual Emission Cap)	Styrene		0.56
T-MSTY1	Styrene Tank 1	Styrene	12.43	
T-MSTY2	Styrene Tank 2	Styrene	5.64	
T-MSTY3	Styrene Tank 3	Styrene	5.64	
T-MSTY	Main Styrene Tanks (Annual Emission Cap)	Styrene		1.80
T-SFLEX1	Flexone Tank 1	VOC	0.02	
T-SFLEX2	Flexone Tank 2	VOC	0.02	
T-SFLEX3	Flexone Tank 3	VOC	0.01	
T-SFLEX4	Flexone Tank 4	VOC	0.01	
T-SFLEX5	Flexone Tank 5	VOC	0.01	
T-SFLEX6	Flexone Tank 6	VOC	0.01	

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY**
T-SFLEX7	Flexone Tank 7	VOC	0.01	
T-SFLEX8	Flexone Tank 8	VOC	0.01	
T-SFLEX9	Flexone Tank 9	VOC	0.01	
T-SFLEX10	Flexone Tank 10	VOC	0.02	
T-SFLEX11	Flexone Tank 11	VOC	0.02	
T-SFLEX	Flexone Tanks (Annual Emission Cap)	VOC		0.01
T-SGEL	Geltrol Tank	VOC	0.04	0.01
T-SSTP1	Shortstop Tank 1	VOC	1.68	
T-SSTP2	Shortstop Tank 2	VOC	0.52	
T-SSTP3	Shortstop Tank 3	VOC	0.50	
T-SHRTSTOP	Shortstop Tanks (Annual Emission Cap)	VOC		0.02
T-SPLY1	Nonstaining AO Tank 1	VOC	0.01	
T-SPLY2	Nonstaining AO Tank 2	VOC	0.01	
T-SPLY3	Nonstaining AO Tank 3	VOC	0.01	
T-SPLY4	Nonstaining AO Tank 4	VOC	0.01	
T-SPLY5	Nonstaining AO Tank 5	VOC	0.01	
T-SPLY6	Nonstaining AO Tank 6	VOC	0.01	
T-SPLY	Nonstaining AO Tanks 1 - 6	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**
	(Annual Emission Cap)			
T-TALLOIL1	Tall Oil Tank 1	VOC	0.60	
T-TALLOIL2	Tall Oil Tank 2	VOC	0.66	
T-TALLOIL3	Tall Oil Tank 3	VOC	0.63	
T-TALLOIL	Tall Oil Tanks (Annual Emission Cap)	VOC		0.04
T-WGAS	West Gasoline Tank	VOC	13.10	0.21
SOUTH-CT	South Cooling Tower	PM_{10}	1.73	7.59
		VOC	1.09	4.76
F-MONTF	Process Fugitives (4)	BD	0.83	3.63
		Styrene	0.36	1.56
F-REACCA	Process Fugitives (4)	BD	0.22	0.97
		Styrene	0.03	0.14
F-REACCB	Process Fugitives (4)	BD	0.25	1.11
		Styrene	0.03	0.13
F-REACCC	Process Fugitives (4)	BD	0.39	1.72
		Styrene	0.03	0.15
F-REACDA	Process Fugitives (4)	BD	0.19	0.84
		Styrene	0.03	0.15
F-REACDB	Process Fugitives (4)	BD	0.17	0.74
		Styrene	0.03	0.12
F-RECOVCA	Process Fugitives (4)	BD	0.11	0.48
		Styrene	0.03	0.13

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-RECOVCB	Process Fugitives	(4)	BD	0.08	0.35
			Styrene	0.01	0.05
F-RECOVCC	Process Fugitives	(4)	BD	0.04	0.18
			Styrene	0.01	0.05
F-RECOVDA	Process Fugitives	(4)	BD	0.07	0.32
			Styrene	0.02	0.10
F-RECOVDB	Process Fugitives	(4)	BD	0.11	0.50
			Styrene	0.01	0.06

(1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
(2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
(3) BD - 1,3 butadiene
CO - carbon monoxide
NO_x - total oxides of nitrogen
PM_{10} - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
SO_2 - sulfur dioxide
VOC - volatile organic compounds as defined in the Title 30 Texas Administrative Code § 101.1.
(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
(5) PM_{10} emissions from the carbon black grinding area shall cease emitting from this EPN by March 1, 2007.
(6) PM_{10} emissions from the carbon black grinding area shall emit from this EPN on and after March 1, 2007.
(7) VOC emissions do not include styrene

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

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**

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

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

Dated June 29, 2005