Permit No. 17573

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.

Emission *	Source	Air Contaminant	<u>Emission</u>	Rates
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY
EA-1	"X" Pneumatic Stack	VOC Styrene	23.0 19.2	11.4 9.5
EA-2	"Y" Pneumatic Stack	VOC Styrene	23.0 19.2	11.4 9.5
EA-3	"Z" Pneumatic Stack	VOC Styrene	23.0 19.2	11.4 9.5
E4-1	Butadiene Absorber Vent 7.9	(5) 1,3-Buta	adiene	1.8
E4-1	Butadiene Absorber Vent 0.0	(6) 1,3-Buta	adiene	0.0
E9-1	Bale Dryer	VOC NO _x CO PM	<0.1 0.2 <0.1 <0.1	0.1 0.6 0.1 0.1
E9-2	Bale Dryer	VOC NO _x CO PM	<0.1 0.2 <0.1 <0.1	0.1 0.6 0.1 0.1
E10-1	Baghouse	PM	1.0	4.3
E10-2	Baghouse	PM	0.4	1.8

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Emission	Source	Air Contaminant	<u>Emission</u>	Rates	
<u>*</u> Point No. (1)	Name (2)	Name (3)	lb/hr	TPY	
			•		
E10-3	Baghouse	PM	0.1	0.4	
E10-4	Scrubber	PM	1.2	5.3	
E11-1	NH ₃ Compressor (440-hp)	VOC NO_{\times} CO	0.1 8.6 6.0	0.5 37.7 26.2	

Emission *	Source	Air Contaminant	Emission	Rates	
Point No. (1)	Name (2)	Name (3)	1b/hr	<u>TPY</u>	
E11-2	NH ₃ Compressor (440-hp)	VOC NO _× CO	0.1 8.6 6.0	0.5 37.7 26.2	
E11-3	NH₃ Compressor (550-hp)	VOC NO _x CO	0.1 10.7 7.5	0.6 47.2 32.7	
E11-4	NH₃ Compressor (440-hp)	VOC NO _x CO	0.1 8.6 6.0	0.5 37.7 26.2	
E11-5	NH₃ Compressor (440-hp)	VOC NO _x CO	0.1 8.6 6.0	0.5 37.7 26.2	
E13-1	Styrene Tank T-101	VOC		0.2	
E13-2	Styrene Tank T-102	VOC		0.2	
E13-3	Pure Styrene T-103	VOC		0.2	
E13-4	Pure Styrene T-104	VOC		0.2	
E13-6	Sulfuric Acid Tank (7)	SO ₂	<0.1	<0.1	
E-15	Butadiene Flare (8)	VOC NO _x CO	0.04 <0.01 0.01	0.16 0.01 0.05	
E15-1	Regenerative Thermal Ox	idizer	VOC	16.6	
	22.5	NO_{x} SO_{2} PM	7.7 2.3 0.2	33.7 10.0 0.9	

Emission *	Source A	ir Contaminan	t <u>Emission</u>	Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		CO	12.6	55.0
F3-1	Reactor Area Fugitives (4) VOC NH₃	1.76 9.0	9.2 39.4
F4-1	Recovery Area Fugitives (10.0	4 and 9)	VOC	2.15
F5-1	Latex Area Fugitives (4)	Styrene	0.02	0.10
F6-1	Coagulation Area Fugitive 22.8	s (4)	VOC	5.8
	(53 Building Exhaust Ve 19.0	nts) S	Styrene	4.8
E6-1	Coagulation Area Stack	VOC Styrene	7.4 6.2	9.9 8.2
F7-1	Butadiene Comp Fugitives 0.1	(4)	VOC	0.02
F13-1	Tank Farm Fugitives (4)	VOC	0.1	0.35
F10-1	Carbon Black Fugitives (4) PM	0.3	1.5
F11-1	NH₃ Compressor (4)	NH_3	3.86	16.9
F12-1	Wastewater Fugitives Building Fugitives	VOC Styrene	10.7 8.9	28.1 23.4
E-13-5	Styrene Unloading Compone 0.11 Fugitives (4 and 10)	nt S	Styrene	0.03
E16-1	Wastewater Vacuum Decante	r Styrene	0.28	1.23

System (11)

F-20
Butadiene Unloading Area 1,3-Butadiene 0.41 1.37
Fugitives (4 and 12)

Electrodialysis Reversal Water Cl₂ 0.02
0.07
Treatment System (13)

- (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 volatile organic compounds as defined in General Rule 101.1 including styrene
 - NO_x total oxides of nitrogen
 - CO carbon monoxide
 - PM particulate matter
 - SO₂ sulfur dioxide
 - NH₃ anhydrous ammonia
 - Cl₂ chlorine
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) The Butadiene Absorber Vent (EPN E4-1), which was authorized under Standard Permit No. 35702 to be routed to the Butadiene Flare (EPN E-15), shall be replaced with a refrigerated condenser also routed to the Butadiene Flare by May 1, 1998. The change from the butadiene absorber to the refrigerated condenser was previously authorized under Standard Exemption Registration No. 36031.
- (6) Maximum allowable emission rates apply after May 1, 1998.
- (7) Source previously authorized under Permit Exemption No. X-21126.
- (8) Previous authorizations under Permit Exemption No. X-22986, Standard Permit No. 35702, and Standard Exemption Registration No. 36031.
- (9) Includes fugitive emissions associated with the refrigerated condenser previously authorized under Standard Exemption Registration

	No.	360)31.								
(10)	Sourc	e	previously	authorized	under	Standar	d Exempti	on	Registrat	ion	No.
3452	3.										
-				authorized			•				
				authorized							
(13)	Sourc	e	previously	authorized	under	Permit	Exemption	ı No	. X-21127		
<pre>(13) Source previously authorized under Permit Exemption No. X-21127. * Emission rates are based on and the facilities are limited by the following maximum operating schedule: Hrs/dayDays/weekWeeks/yearor Hrs/year8,760</pre>											

Dated ____