

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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.

## AIR CONTAMINANTS DATA

Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
EA-1	"X" Pneumatic Stack	VOC	23.0	12.0
		Styrene	19.2	10.0
EA-2	"Y" Pneumatic Stack	VOC	23.0	12.0
		Styrene	19.2	10.0
EA-3	"Z" Pneumatic Stack	VOC	23.0	12.0
		Styrene	19.2	10.0
E10-1	Baghouse	PM	1.0	4.3
E10-2	Baghouse	PM	0.4	1.8
E10-3	Baghouse	PM	0.1	0.4
E10-4	Scrubber	PM	1.2	5.3
E11-1	NH <sub>3</sub> Compressor (440-hp)	VOC	0.1	0.5
		NO <sub>x</sub>	8.6	37.7
		CO	6.0	26.2
E11-2	NH <sub>3</sub> Compressor (440-hp)	VOC	0.1	0.5
		NO <sub>x</sub>	8.6	37.7
		CO	6.0	26.2
E11-3	NH <sub>3</sub> Compressor (550-hp)	VOC	0.1	0.6
		NO <sub>x</sub>	10.7	47.2
		CO	7.5	32.7

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
E11-4	NH <sub>3</sub> Compressor (440-hp)	VOC	0.1	0.5
		NO <sub>x</sub>	8.6	37.7
		CO	6.0	26.2
E11-5	NH <sub>3</sub> Compressor (440-hp)	VOC	0.1	0.5
		NO <sub>x</sub>	8.6	37.7
		CO	6.0	26.2
E13-1	Recycle Styrene Tank T-101 0.2	VOC		
E13-2	Recycle Styrene Tank T-102	VOC		0.2
E13-3	Pure Styrene Tank T-103	VOC		0.2
E13-4	Pure Styrene Tank T-104	VOC		0.2
E13-6	Sulfuric Acid Tank (5)	SO <sub>2</sub>	<0.1	<0.1
E-15	Butadiene Flare (6)	VOC	0.04	0.16
		NO <sub>x</sub>	<0.01	0.01
		CO	0.01	0.05
E15-1	Regenerative Thermal Oxidizer 24.3	VOC		16.6
		NO <sub>x</sub>	7.7	33.7
		SO <sub>2</sub>	2.3	10.0
		PM	0.2	0.9
		CO	12.6	55.0
F3-1	Reactor Area Fugitives (4)	VOC	1.76	9.2
		NH <sub>3</sub>	9.0	39.4

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
F4-1	Recovery Area Fugitives (4 and 7) 10.0	VOC		2.15
F5-1	Latex Area Fugitives (4)	Styrene	0.02	0.10
F6-1	Coagulation Area Fugitives (4) 22.8	VOC		5.8
	(53 Building Exhaust Vents) 19.0	Styrene		4.8
E6-1	Coagulation Area Stack	VOC	7.4	10.4
		Styrene	6.2	8.7
F7-1	Butadiene Comp Fugitives (4) 0.1	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	NH <sub>3</sub> Compressor (4)	NH <sub>3</sub>	3.86	16.9
F12-1	Wastewater Fugitives	VOC	10.7	32.4
	Building Fugitives	Styrene	8.9	27.1
E-13-5	Styrene Unloading Component 0.11 Fugitives (4 and 8)	Styrene		0.03
E16-1	Wastewater Vacuum Decanter System (9)	Styrene	0.28	1.23
F-20	Butadiene Unloading Area Fugitives (4 and 10)	1,3-Butadiene	0.41	1.86
E17-1	Electrodialysis Reversal Water	Cl <sub>2</sub>		0.02

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3)	<u>lb/hr</u>	<u>TPY</u>

0.07  
Treatment System (11)

- (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 30 Texas Administrative Code Section 101.1 including styrene  
 PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>.  
 PM<sub>10</sub> - particulate matter 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.  
 NO<sub>x</sub> - total oxides of nitrogen  
 CO - carbon monoxide  
 SO<sub>2</sub> - sulfur dioxide  
 NH<sub>3</sub> - anhydrous ammonia  
 Cl<sub>2</sub> - chlorine
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Source previously authorized under Permit Exemption No. X-21126.
- (6) Previous authorizations under Permit Exemption No. X-22986, Standard Permit No. 35702, and Standard Exemption Registration No. 36031.
- (7) Includes fugitive emissions associated with the refrigerated condenser previously authorized under Standard Exemption Registration No. 36031.

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(8) Source previously authorized under Standard Exemption  
Registration No. 34523.

(9) Source previously authorized under Permit Exemption No. X-21136.

(10) Source previously authorized under Permit Exemption No. X-22985.

(11) 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/day\_\_\_\_\_Days/week\_\_\_\_\_Weeks/year\_\_\_\_\_or Hrs/year 8,760

Dated \_\_\_\_\_