

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 17276

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		Air Contaminant		Emission Rates *	
	Name (2)	Name (3)	lb/hr	TPY		
S-6	Surge Tank, V-2728		VOC		0.02	0.05
P-10	4-HAP Flaker Filter, MS-1916		PM <sub>10</sub>		<0.01	0.03
			VOC		<0.01	<0.01
P-11	4-HAP Flaker, MD-57		PM		<0.01	0.01
			VOC		<0.01	<0.01
P-12	APAP Product Mill, MG-30		PM		<0.01	0.03
			VOC		<0.01	<0.01
P-13	Cartridge Filter, MS-1946		PM <sub>10</sub>		<0.01	<0.01
			VOC		<0.01	<0.01
S-14	Flare, T-510		VOC		0.98	4.20
			CO		0.03	0.15
			NO <sub>x</sub>		<0.01	0.03
			HF		<0.01	<0.01
S-15	SO <sub>2</sub> Vent Scrubber, T-508		VOC		0.07	0.28
			SO <sub>2</sub>		0.02	0.07
			HF		<0.01	<0.01
S-17	Storage Tank, V-2814		VOC		<0.01	0.02
S-18	Storage Tank, V-2813		VOC		0.61	1.16
S-19	Storage Tank, V-2812		VOC		0.04	0.17
S-20	Process Fugitives (4)		VOC		1.45	6.33
			SO <sub>2</sub>		0.14	0.59
			HF		0.10	0.43
			NH <sub>3</sub>		0.04	0.16

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
S-21	Tank Farm Fugitives (4)	VOC	1.20	5.29
		SO <sub>2</sub>	0.04	0.19
		HF	0.04	0.17
		SOCl <sub>2</sub>	0.01	0.06

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			lb/hr	TPY
S-23	Storage Tank, V-2747	VOC	0.02	0.08
S-24	Oxime Reactor Vent	VOC	0.29	0.01
P-25	Manual Charge Fugitives, V-2740 (4)	PM VOC	0.48 <0.01	0.03 <0.01
P-26	Oxime Reactor Charge Fugitives, V-2750 (4)	PM VOC	1.19 <0.01	0.60 <0.01
P-28	Oxime Bin Vent Filter	PM <sub>10</sub> VOC	0.02 <0.01	0.07 <0.01
P-29	Oxime Bin Vent Filter	PM <sub>10</sub> VOC	0.02 <0.01	0.07 <0.01
S-30	Centrate Surge Tank, V-2753	VOC	<0.01	<0.01
S-31	Wash Water Tank, V-2754	VOC	<0.01	<0.01
P-32	Baghouse, MS-1926	PM <sub>10</sub> VOC	0.16 <0.01	0.08 <0.01
P-33	APAP Bin Vent Filter	PM <sub>10</sub> VOC	<0.01 <0.01	<0.01 <0.01
P-34	APAP Bin Vent Filter	PM <sub>10</sub> VOC	<0.01 <0.01	<0.01 <0.01
P-35	Carbon Bin Vent Filter	PM <sub>10</sub>	0.04	0.01
P-36	Baghouse, MS-2051	PM <sub>10</sub>	<0.01	<0.01
P-37	Loading Vent	PM	0.50	0.03
P-38	Charging Vent	PM	0.05	<0.01

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			lb/hr	TPY		
P-39		Baghouse, MS-2053		PM <sub>10</sub>	0.35	0.02
				VOC	<0.01	<0.01
P-40		Cartridge Filter, MS-1928		PM <sub>10</sub>	0.02	<0.01
				VOC	<0.01	<0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
S-41	Waste Water Tank, V-2823	VOC	<0.01	0.01
		N <sub>2</sub> O	0.06	0.23
		NH <sub>3</sub>	0.04	0.16
S-42	Waste Water Tank, V-2822	VOC	<0.01	0.01
		N <sub>2</sub> O	0.51	2.07
		NH <sub>3</sub>	0.35	1.41
S-44	Storage Tank, V-2740	VOC	0.04	<0.01
S-46	Centrate Tank, V-2772	VOC	<0.01	<0.01
S-47	Centrate Tank, V-2797	VOC	<0.01	<0.01
S-48	APAP Wash Water Tank	VOC	<0.01	<0.01
P-50	Baghouse, MS-1984	PM <sub>10</sub>	0.23	0.90
		VOC	<0.01	<0.01
P-51	Cartridge Filter, MS-1927	PM <sub>10</sub>	0.02	<0.01
		VOC	<0.01	<0.01
P-52	APAP Bin Vent Filter, MS-1952	PM <sub>10</sub>	<0.01	0.04
		VOC	<0.01	<0.01
P-54	Cartridge Filter, MS-1931	PM <sub>10</sub>	0.02	<0.01
P-55	Storage Tank, V-2793	PM <sub>10</sub>	0.13	0.02
S-56	Storage Tank, V-2779	VOC	<0.01	0.03
S-57	Tower Vacuum, V-2741	VOC	<0.01	0.01
S-59	Vacuum System, V-2759	VOC	<0.01	0.01
S-60	Storage Tank, V-2751	VOC	0.08	0.01
S-61	Centrifuge, MS-1907	VOC	0.03	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
S-62	Storage Tank, V-2755	VOC	0.02	0.01
S-63	Vacuum System, V-2780	VOC	<0.01	0.01

S-64	Vacuum Jet Vent, HE-2904	VOC	<0.01	0.01
P-65	APAP Vent Header	PM	<0.01	<0.01
S-66	Drying System, V-2799	VOC	0.02	0.01
P-67	APAP Bin Vent Filter	PM <sub>10</sub> VOC	0.02 <0.01	0.06 <0.01
S-68	Vacuum Jet Vent	VOC	3.00	0.01
S-69	Jet Condenser Vent	VOC	<0.01	0.01
P-70	4-HAP Pack Room Fugitives (4)	PM VOC	<0.01 <0.01	0.03 <0.01
S-71	Thionyl Chloride Drum Cleaning	SO <sub>2</sub> HCl	4.00 4.55	0.36 0.41
P-72	Oxime Discharge Blower	PM VOC	0.20 <0.01	0.01 <0.01
P-73	Baghouse	PM <sub>10</sub>	<0.01	<0.01
P-74	APAP Pack Room Fugitives (4)	PM VOC	<0.01 <0.01	0.03 <0.01
P-75	Cartridge Filter	PM <sub>10</sub> VOC	0.35 <0.01	0.02 <0.01
P-76	Hopper Vent, MS-3052	PM <sub>10</sub>	<0.01	<0.01
P-77	Rework Conveyor (4)	PM	<0.01	0.03

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- (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
  - PM<sub>10</sub> - particulate matter less than 10 microns
  - VOC - volatile organic compounds as defined in General Rule 101.1
  - NO<sub>x</sub> - total oxides of nitrogen
  - SO<sub>2</sub> - sulfur dioxide
  - CO - carbon monoxide
  - HF - hydrogen fluoride
  - NH<sub>3</sub> - ammonia
  - N<sub>2</sub>O - nitrous oxide
  - HCl - hydrogen chloride
  - APAP - acetaminophen
  - 4-HAP - 4-hydroxyacetophenone
  - SOCl<sub>2</sub> - thionyl chloride
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

\* 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 \_\_\_\_\_