### 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.

Emission *	Source	Air Contaminant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
S-6	Surge Tank, V-2728	VOC	0.01	0.03
P-10	4-HAP Flaker Filter, MS-1916	PM <sub>10</sub> VOC	0.09 <0.01	0.38 <0.01
P-11	4-HAP Flaker, MD-57	PM VOC	0.75 <0.01	0.07 <0.01
P-12	APAP Product Mill, MG-30	PM VOC	<0.01 <0.01	0.03 <0.01
P-13	APAP Premill Blower F	Filter,	$PM_{10}$	0.02
	MS-1946	VOC	<0.01	<0.01
S-14	Flare, T-510	VOC CO NO <sub>×</sub> HF	1.60 0.03 <0.01 <0.01	7.01 0.15 0.03 <0.01
S-15	SO₂ Vent Scrubber, T-508	SO₂ VOC	0.12 0.10	0.08 0.29
S-17	Storage Tank, V-2814	VOC	<0.02	0.03
S-18	Storage Tank, V-2813	VOC	7.54	0.79
S-19	Storage Tank, V-2812	VOC	1.70	0.15

Emission	Source	Air Contaminant	<u>Emissio</u>	n Rates
<u>*</u> Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
S-20	Unit Process Fugitiv	ves (4)	VOC	1.89
S-21	Tank Farm Fugitives	$SO_2$ $HF$ $NH_3$ $SOC1_2$ (4) $VOC$	1.24 0.56 0.28 0.02 1.76	5.42 2.48 1.21 0.11 7.69
		SO <sub>2</sub> HF SOC1 <sub>2</sub>	0.48 0.28 0.01	2.01 1.22 0.06
S-23	Storage Tank, V-2747	VOC NH₃ N₂O	0.02 0.09 0.11	0.08 0.37 0.48
S-24	Oxime Reactor Vent V-2750	VOC NH₃ N₂O	<0.04 0.01 0.01	<0.03 0.05 0.06
P-25	Manual Charge Fugiti <0.01 V-2740	ves (4) VOC	PM <0.01	1.10 < 0.01
P-26	Oxime Reactor Charge Fugitives, V-2750		1.32 <0.01	0.77 <0.01
P-28	Oxime Bin Vent Filte MS-1920	er PM <sub>10</sub> VOC	0.02 <0.01	0.08 <0.01
P-29	Oxime Bin Vent Filte MS-1921	er PM <sub>10</sub> VOC	0.02 <0.01	0.08 <0.01
S-30	Centrate Surge Tank, V-2753	VOC NH₃ N₂O	<0.03 <0.01 <0.01	<0.03 <0.01 <0.01
S-31	Wash Water Tank,	VOC	<0.03	<0.03

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
	V-2754	$NH_3$ $N_2O$	<0.01 <0.01	<0.01 <0.01
P-32	Oxime Transfer Filt MS-1926	er PM <sub>10</sub> VOC	0.16 <0.01	0.09 <0.01
P-33	APAP Bin Vent Filter MS-1942	PM <sub>10</sub> VOC	<0.01 <0.01	<0.01 <0.01
P-34	APAP Bin Vent Filter MS-1943	PM <sub>10</sub> VOC	<0.01 <0.01	<0.01 <0.01
P-35	Carbon Bin Vent Filt MS-1941	er, PM <sub>10</sub>	0.04	0.01
P-36	Precoat "A" Tank Fil MS-2051	ter, PM <sub>10</sub>	<0.01	<0.01
P-37	Loading Vent	$Na_2S_2O_4-PM$	1.00	0.02
P-38	Charging Vent	РМ	0.04	<0.01
P-39	Acid Loading Filter MS-2053	PM <sub>10</sub> VOC	1.00 <0.01	0.01 <0.01
P-40	APAP Rework Blower F		$PM_{10}$	0.02
	MS-1928	VOC	<0.01	<0.01
S-41	Waste Water Tank, V-2823	VOC N₂O NH₃	<0.05 <0.01 <0.01	<0.05 0.02 0.02
S-42	Waste Water Tank, V-2822	VOC N₂O	<0.05 <0.01	<0.05 0.02

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## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Emission <u>*</u>	Source	Air Contaminant	<u>Emissic</u>	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
		$NH_3$	<0.01	0.02
S-44	Storage Tank, V-2740	) VOC	<0.02	<0.02
S-46	Centrate Tank, V-2772	VOC Na₂S₂O₄	<0.02 <0.01	<0.02 <0.01

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES AIR CONTAMINANTS DATA

Emission	Source Ai	<sup>~</sup> Contaminant	<u>Emissior</u>	n Rates
<u>*</u> Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
S-47	Centrate Tank, V-2797	VOC Na₂S₂O₄	<0.02 <0.01	<0.02 <0.01
S-48	APAP Wash Water Tank V-2796	$VOC$ $Na_2S_2O_4$	<0.02 <0.01	<0.02 <0.01
P-50	Dust Collection Filter MS-1984	Dust-PM <sub>10</sub> VOC	0.23 <0.01	0.99 <0.01
P-51	APAP Rework Blower Filt	er,	$PM_{10}$	0.02
	MS-1927	VOC	<0.01	<0.01
P-52	APAP Bin Vent Filter, MS-1952	PM <sub>10</sub> VOC	<0.01 <0.01	0.04 <0.01
P-54	Carbon Blower Filter, M <0.01	IS-1931	$PM_{10}$	0.02
P-55	Recirculation Tank Filt 0.02 MS-2059	er,	$PM_{10}$	0.13
S-56	Storage Tank, V-2779	VOC	<0.01	0.03
S-57	Tower Vacuum, V-2741	VOC	<0.02	<0.02
S-59	Vacuum System, V-2759	VOC	<0.01	<0.01
S-60	Storage Tank, V-2751	VOC NH <sub>3</sub> N <sub>2</sub> O	<0.03 <0.01 <0.01	<0.03 0.01 0.01
S-61	Centrifuge, MS-1907	VOC	<0.01	<0.01

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES AIR CONTAMINANTS DATA

Emission *	Source Ai	r Contaminant	<u>Emission</u>	Rates
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY
S-62	Storage Tank, V-2755	VOC	<0.01	<0.01
S-63	Vacuum System, V-2780	VOC	<0.01	<0.0
S-64	Vacuum Jet Vent, HE-290	04 VOC	<0.01	<0.01
P-65	APAP Vent Header	$Na_2S_2O_4$	<0.01	<0.01
S-66	Drying System, V-2799	VOC	<0.01	<0.01
P-67	APAP Bin Vent Filter	PM <sub>10</sub> VOC	0.02 <0.01	0.07 <0.01
S-68	Vacuum Jet Vent HE-2885	VOC NH₃ N₂O	3.00 0.08 0.11	<0.01 0.37 0.48
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 Unloading	SO₂ HC1	4.00 4.56	0.36 0.35
P-72	Oxime Rework Guard Filt	er	PM	0.18
	MS-1969	VOC	<0.01	<0.01
P-73	Precoat "B" Tank Filter MS-2052	, 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

Emission	Source	Air Contaminant	<u>Emissic</u>	n Rates
<u>*</u> Point No. (1)	Name (2)	Name (3)	 ]b/hr	TPY
TOTHE NO. (I)	Name (2)	Name (3)	10/111	<u> </u>
P-75	Acid Solution Tank F 0.02	Filter	$PM_{10}$	0.28
	MS-2050	VOC	<0.01	<0.01
P-76	APAP Packaging Vent MS-3052	PM <sub>10</sub> VOC	<0.01 <0.01	<0.01 <0.01
P-77	Rework Conveyor APAP Part to Blend	PM d (4) VOC	<0.01 <0.01	0.03 <0.01
P-78	APAP Packaging Syste	em Filter	PM	0.02
	MS-2054	VOC	<0.01	<0.01
P-79	Dust Collection Blow 0.99	ver Filter	PM	0.23
	MS-2061	VOC	<0.01	<0.01
P-80	APAP Rework Bin Vent	Filter	PM	<0.01
	MS-1951	VOC	<0.01	<0.01
S-81	Oxime Centrifuge	PM	<0.01	<0.01
S-82	Reaction Vessel	VOC NH₃ N₂O	0.04 0.01 0.01	<0.03 0.05 0.06
P-83	Crystal Blender Bin Vent Filter	PM VOC	<0.01 <0.01	<0.01 <0.01
P-84	Crystal Blender Loop Guard Filter	PM VOC	0.05 <0.01	0.20 <0.01
P-85	Crystal Packaging Ho	opper PM	<0.01	<0.01

#### AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	<b>Emission</b>	Rates
<u>*</u>				
Point No. (1)	Name (2)	Name (3)	<u> 1b/hr</u>	<u>TPY</u>
	Bin Vent Filter	VOC	<0.01	<0.01
P-86	Crystal Packaging Ro Fugitives (4)	om PM	<0.01	0.03
P-87	Oxime Dryer Vent MS-1923	PM VOC	0.03 <0.01	0.14 <0.01
P-88	APAP Dryer Vent MS-1939	PM VOC	0.03 <0.01	0.14 <0.01
P-90	APAP Packaging Hoppe 0.01	r Filter	PM	<0.01
	MS-3050	VOC	<0.01	<0.01
S-91	Sump Segregation Tan	k VOC	<0.05	<0.05
S-92	Storage Tank	HAS NH₃ N₂O	0.05 0.08 0.11	0.12 0.37 0.48

<sup>(1)</sup> Emission point identification - either specific equipment designation or emission point number from plot plan.

 $\ensuremath{\text{PM}_{10}}$  – particulate matter less than 10 microns

VOC - volatile organic compounds as defined in General Rule 101.1

 $NO_x$  - total oxides of nitrogen

SO<sub>2</sub> - sulfur dioxide CO - carbon monoxide HF - hydrogen fluoride

NH₃ - ammonia

 $N_2O$  - nitrous oxide

<sup>(2)</sup> Specific point source name. For fugitive sources use area name or fugitive source name.

<sup>(3)</sup> PM - particulate matter

### AIR CONTAMINANTS DATA

Dated \_\_\_\_

Emission	Source	Air Contaminant	<u>Emission</u>	Rates
<u>*</u> Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
$SOC1_2$ - thion $Na_2S_2O_4$ HAS - hydro (4) Fugitiv	minophen - 4-hydroxyacetopher yl chloride - sodium dithionite xyl ammonium sulfate	n estimate only and	should	not be
	es are based on and ximum operating sche	d the facilities are dule:	limited	by the
Hrs/dayI	Days/weekWeeks/	/yearor Hrs/year_	8,760	