### EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

### Permit No. 7719A

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 *	Source	Air Contaminant	<u>Emission</u>	n Rates
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY
F-CT3	Cooling Tower	VOC Chlorine Bromine	0.07 0.03 0.03	0.29 0.12 0.12
F-R1	Process Fugitives (4)	VOC H₂S	1.82 0.03	7.99 0.13
	Process Fugitives (4,	5) VOC H₂S	2.10 0.05	9.22 0.22
F-R2	Powder Boxing Stations	s PM	<0.01	0.01
	Powder Boxing Stations 0.02	5 (5)	PM	<0.01
F-R3	Blower Discharge	РМ	0.14	0.61
H-8	No. 1 Heater	CO NO <sub>x</sub> SO <sub>2</sub> VOC PM	1.25 2.39 0.96 0.10 0.49	5.48 10.48 0.10 0.44 2.15
H-9	No. 2 Heater	$CO$ $NO_{x}$ $SO_{2}$ $VOC$ $PM$	1.25 2.39 0.96 0.10 0.49	5.48 10.48 0.10 0.44 2.15
R-R1	North DCB Railcar	VOC	0.62	2.72
R-R2	NaSH Railcar	H₂S	0.07	0.34

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Emission *	Source	Air Contaminant	<u>Emissi</u>	on Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
R-V1	Acetic Acid Scrubbe	r VOC	0.01	<0.01

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Emission	Source	Air Contaminant	<u>Emissic</u>	on Rates
<u>*</u> Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
R-V2	Crude NMP Surge Tan 2.38	k Cond.	VOC	0.54
	2.30	H₂S	0.10	0.38
R-V3	No. 1 Cure Vessel	VOC PM <sub>10</sub> PM	0.14 0.62 3.45	0.52 1.92 14.29
	No. 1 Cure Vessel (	5) VOC PM <sub>10</sub> PM	0.14 <0.01 0.03	0.52 0.01 0.14
R-V4	No. 2 Cure Vessel	VOC PM <sub>10</sub> PM	0.14 0.62 3.45	0.52 1.92 14.29
	No. 2 Cure Vessel (	5) VOC PM <sub>10</sub> PM	0.14 <0.01 0.03	0.52 0.01 0.14
R-V5	No. 3 Cure Vessel	VOC PM <sub>10</sub> PM	0.14 0.62 3.45	0.52 1.92 14.29
	No. 3 Cure Vessel (	5) VOC PM <sub>10</sub> PM	0.14 <0.01 0.03	0.52 0.01 0.14
R-V6	No. 4 Cure Vessel	VOC PM <sub>10</sub> PM	0.14 0.62 3.45	0.52 1.92 14.29
	No. 4 Cure Vessel (	5) VOC PM <sub>10</sub> PM	0.14 <0.01 0.03	0.52 0.01 0.14

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Emission	Source A	Air Contaminant	<u>Emissio</u>	n Rates
<u>*</u> Point No. (1)	Name (2)	Name (3)	 1b/hr	TPY
	c (2)	Hame (5)		
R-V7	DCB Skid Vacuum Pump	VOC	0.03	0.11
R-V8	Dehydration Scrubber	VOC H₂S	0.01 <0.01	0.03 0.01
R-V9	Extruder Vacuum Jet	VOC	0.04	0.12
	Extruder Vacuum Jet (	5) VOC	0.06	0.12
R-V10	Glass Port Blower Ven	t VOC	1.05	4.38
	Glass Port Blower Ven 4.38	t (5)	VOC	1.74
R-V11	Low-Pressure K. O. Po	t VOC H₂S	0.57 0.39	2.02 1.73
R-V12	Process Water Sump	VOC	0.02	0.07
R-V13	No. 1 Dryer Vent (6)	VOC	0.75	3.28
R-V14	No. 3 Dryer Vent	VOC PM <sub>10</sub>	4.30 1.43	11.66 6.28
R-V15	No. 1 Belt Filter	H₂S	0.01	0.03
R-V16	Train B No. 2 Dryer V 11.66	ent (5)	VOC	4.29
	11.00	$PM_{10}$	0.28	1.23
R-V17	Train B No. 2 Dehydra Scrubber (5)	tion VOC H₂S	0.01 <0.01	0.03 0.01

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Emission	Source	Air Contaminant	<u>Emissio</u>	n Rates
<u>*</u> Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
R-V18	No. 2 Low-Pressure K Pot (5)	. O. H₂S	0.39	1.70
T-95-28	Lights Column Phase S 0.33	Separator	VOC	0.07
T-95-114	NMP Storage Tank	VOC	0.02	0.07
T-95-136	Filter Feed Tank	VOC H₂S	0.12 0.12	0.45 0.45
T-95-160	No. 6 Slurry Tank	VOC	0.01	0.04
T-95-166	NMP Heavies (M-5)	VOC	0.86	0.10
T-95-167	Crude NMP Tank (M-6)	VOC	0.02	0.07
T-95-169A	S. Fresh/Recycle NMP	VOC	0.02	0.07
T-95-169B	N. Fresh/Recycle NMP	VOC	0.02	0.07
T-95-170	NaSH Storage Tank	H₂S	3.24	0.56
T-95-174	No. 1 Slurry Tank	VOC	0.01	0.04
T-95-182	NaSH Waste/Recycle Ta	ank H₂S	4.68	0.07
T-95-YA04	Train B No. 2 Feed Fi	ilter Tank	VOC	0.12
	0.45	$H_2S$	0.12	0.45

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

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

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## AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	Emission Rates
_ <u>Point No.</u>	(1) Name (2)	Name (3)	<u>lb/hr TPY</u>
(3) VO  101.1  NOx -  SO2 -  PM <sub>10</sub> -  PM -  CO -  H <sub>2</sub> S -  (4) Fu  conside  (5) Em  specifi interim  (6) Em  increas  * Emissio followi	total oxides of nite sulfur dioxide particulate mater le particulate matter; carbon monoxide hydrogen sulfide gitive emissions ared as a maximum alle ission rate after ed in Special Condit limit. ission point void afted above the interim n rates are based ng maximum operating	ess than 10 microns in diamerincludes PM <sub>10</sub> from that emison reactive emission rate. The installation of emission No. 7 and production infinit.  The deottlenecking allows production in the facilities are	ter sion point  should not be ion controls as crease above the production to be limited by the
		Dated	