### 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 Ai	r Contaminant	Emission	Rates
Point No. (1)	Name (2)	Name (3)	lb/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 and 9.88	d 5)	VOC	2.25
		H₂S	0.05	0.22
F-R2	Powder Boxing Stations	PM	<0.01	0.01
Powder Boxing Stations (5		(5)	РМ	<0.01
F-R3	Blower Discharge	PM	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 <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

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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-R1	North DCB Railcar	VOC	0.62	2.72
R-R2	NaSH Railcar	H₂S	0.07	0.34
R-V1	Acetic Acid Scrubber	VOC	0.01	<0.01
R-V2	Crude NMP Surge Tank		0.54	2.38
	Cond.	H₂S	0.10	0.38
		Acetone	<0.01	<0.01
R-V3	Cure Vessel Vent	VOC	0.28	1.04
	Scrubber YA25	$PM_{10}$	<0.01	0.02
		PM	0.06	0.28
		Acetone	<0.01	<0.01
R-V5	Cure Vessel Vent	VOC	0.28	1.04
	Scrubber YA24	PM <sub>10</sub>	<0.01	0.02
		PM	0.06	0.28
		Acetone	<0.01	<0.01
R-V7	DCB Skid Vacuum Pump	VOC	0.03	0.11
	,	Acetone	<0.01	<0.01
R-V8	Dehydration Scrubber	· VOC	0.01	0.03
		H₂S	<0.01	0.01
		Acetone	<0.01	<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 Ve	ent VOC	0.99	4.14
		Acetone	0.06	0.24
	Glass Port Blower Ve 4.14	ent (5)	VOC	1.64

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Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		Acetone	0.10	0.24
R-V11	Low-Pressure K. O. F	Pot VOC H₂S Acetone	0.55 0.39 0.02	1.95 1.73 0.07
R-V12	Process Water Sump	VOC Acetone	0.02 <0.01	0.06 0.01
R-V13	No. 1 Dryer Vent (6)	VOC Acetone	0.70 0.05	3.07 0.21
R-V14	No. 3 Dryer Vent	VOC PM <sub>10</sub> Acetone	4.03 1.16 0.27	10.93 5.54 0.74
R-V15	No. 1 Belt Filter	H₂S	0.01	0.03
R-V16	Train B No. 2 Dryer Vent (5)	VOC PM <sub>10</sub> Acetone	4.02 0.28 0.27	10.92 1.23 0.74
R-V17	Train B No. 2 Dehydr 0.03	ration	VOC	0.01
	Scrubber (5)	H₂S Acetone	<0.01 <0.01	0.01 <0.01
T-95-28	Lights Column Phase Separator	VOC Acetone	0.06 0.01	0.31 0.02
T-95-114	NMP Storage Tank	VOC	0.02	0.07
T-95-136	Filter Feed Tank	VOC H₂S Acetone	0.12 0.12 <0.01	0.43 0.45 0.02
T-95-160	No. 6 Slurry Tank	VOC	0.01	0.04

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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
		Acetone	<0.01	<0.01
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 Acetone	0.01 <0.01	0.04 <0.01
T-95-182	NaSH Waste/Recycle Ta	ank H₂S	4.68	0.07
T-95-YA04	-95-YA04 Train B No. 2 Feed Filter 0.44		VOC	0.12
	Tank (5)	H₂S Acetone	0.12 <0.01	0.45 0.02

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

(3) VOC - volatile organic compounds as defined in General Rule 101.1

H₂S - hydrogen sulfide

 $\,$  PM  $\,$  - particulate matter, suspended in the atmosphere, including  $\text{PM}_{\text{10}}$  from that emission point

CO - carbon monoxide

 $NO_x$  - total oxides of nitrogen

SO<sub>2</sub> - sulfur dioxide

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

Source

Emission

### EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

### AIR CONTAMINANTS DATA

Air Contaminant <u>Emission Rates</u>

– Point No. (1) Name (2)	Name (3)	lb/hr	TPY
PM <sub>10</sub> - particulate matter equal Where PM is not listed, it matter greater than 10 micror (4) Fugitive emissions are considered as a maximum allowak (5) Emission rate after the specified in Special Condition interim limit. (6) Emission point void after	shall be assumed as is emitted. an estimate only ole emission rate. installation of emission of emissi	that no pai and should mission con n increase a	not be trols as above the
<ul><li>increased above the interim lin</li><li>* Emission rates are based on</li></ul>	and the facilities	are limited	d by the
following maximum operating schBrs/dayDays/week		r <u>8,760</u>	Hrs/year
	Dated		