Permit Number 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.

Emission	Source	Air Contaminant	Emission	Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
F-CT3	Cooling Tower	VOC	0.23	0.99
F-R1	Process Fugitives (4)(5)	VOC H₂S	0.16 0.01	0.7 0.01
	Process Fugitives (4)(6)	VOC H₂S	0.88 0.06	3.84 0.25
F-R2	Product Packaging Stations	PM (12) PM (13)	0.01 0.01	0.02 0.03
H-8	No. 1 Heater	CO NO_{x} SO_{2} VOC PM_{10}	2.64 2.16 0.87 0.17 0.24	11.54 9.46 1.92 0.76 1.04
H-9	No. 2 Heater	CO NO_{x} SO_{2} VOC PM_{10}	2.64 2.16 0.87 0.17 0.24	11.54 9.46 1.92 0.76 1.04
F-R4	Maintenance - Unplugging Reactor Dump Line	VOC	29.99	0.18
R-V1	Acetic Acid Scrubber	VOC	0.01	0.01

R-V2	Crude NMP Surge Tank Condenser Scrubber	VOC H₂S	4.16 0.10	3.23 0.38
R-V3	Cure Vessel Vent Scrubber YA25	VOC PM ₁₀ PM	0.48 0.01 0.06	1.04 0.03 0.28
R-V5	Cure Vessel Vent Scrubber YA24	VOC PM ₁₀ PM	0.48 0.01 0.06	1.04 0.03 0.28
R-V8	A Dehydration Scrubber	VOC H ₂ S	0.01 0.01	0.03 0.01
R-V11	Heat Treater Scrubber Vent	H ₂ S	0.01	0.02
R-V12	Process Water Sump	VOC H ₂ S 0.05 0.24	0.01	0.04
R-V14	A Dryer Vent	VOC PM ₁₀ Acetone	4.03 1.21 0.27	10.93 5.28 0.74
R-V15	A1 Belt Filter	H ₂ S	0.01	0.01
R-V16	B Dryer Vent	VOC PM ₁₀ Acetone	4.02 0.24 0.27	10.92 1.03 0.74
R-V17	B Dehydration Scrubber	VOC H ₂ S	0.01 0.01	0.03 0.01
R-V19	A2 Belt Filter Vent	H ₂ S	0.01	0.01
R-V20	B1 Belt Filter Vent	H ₂ S	0.01	0.01
R-V21 B2 Belt Filter	Vent H₂S 0.01 0.01			
R-V22	Polymer Dryer Vent	VOC	0.11	0.48
R-V23	Caustic Scrubber 95-60020	VOC H₂S	1.01 1.84	4.42 2.94
R-V24	Wash System Scrubber	VOC H ₂ S	0.02 0.01	0.01 0.01

Emission	Source	Air Contaminant	Emission F	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
T-95-28	Lights Column Phase Separator	VOC	0.07	0.33
T-95-114	NMP Storage Tank	VOC	0.07	0.01
T-95-136	B1 Feed Filter Tank	VOC H₂S	0.12 0.12	0.45 0.45
T-95-160	B Slurry Tank	VOC H₂S	0.01 0.05	0.04 0.21
T-95-167	Crude NMP Tank (M-6) & NMP Heavies Tank (M-5)	VOC	0.1	0.02
T-95-168	A1 Feed Filter Tank	VOC H₂S	0.12 0.12	0.45 0.45
T-95-169A	S. Fresh/Recycle NMP	VOC	0.07	0.01
T-95-169B	N. Fresh/Recycle NMP	VOC	0.07	0.01
T-95-170	NaSH Storage Tank	H ₂ S	2.96	0.67
T-95-YA15	A Slurry Tank	VOC H₂S	0.01 0.05	0.04 0.21
T-95-182	NaSH Waste/Recycle Tank	H ₂ S	2.84	0.03
R-LR1	Truck Loading at Tank N-2 (1	4) VOC	0.46	0.01
T-95-Y-044	No. 1 Supersack Silo	PM ₁₀	0.02	0.08
T-95-Y-076	No. 2 Supersack Silo	PM ₁₀	0.03	0.12
T-95-Y-084	No.3 Supersack Silo	PM_{10}	0.03	0.12

Emission	Source	Air Contaminant	Emission	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
T-95-Y-046	No. 1 Valve Bag Tank	PM_{10}	0.02	0.08
T-95-Y-091	No. 2 Valve Bag Tank	PM_{10}	0.02	80.0
T-95-40140	No.4 Supersack Silo	PM_{10}	0.06	0.25
T-95-40141	No.5 Supersack Silo	PM_{10}	0.11	0.49
T-95-40142	No.6 Supersack Silo	PM_{10}	0.17	0.74
H-10	No. 3 Heater	NO _x CO (7) CO (8) CO (9) CO (10) CO (11) VOC SO ₂ PM ₁₀	2.94 8.65 8.65 8.65 8.65 0.45 1.24 0.63	12.86 34.05 32.41 31.32 29.13 27.98 1.98 2.71 2.74
R-LR2	Truck Loading at Quench Heavies Storage Tank	VOC	0.19	0.01
FWW8	Brine Filter Press	VOC H ₂ S 0.01 0.01	0.01	0.01
T-95-70050	Brine Filter Tank	VOC H₂S	0.01 0.01	0.01 0.01
T-95-70060	Post-Filtration Brine Tank	VOC H₂S	0.01 0.01	0.01 0.01
T-95-80014	Hot Oil Quench Storage Tank	voc	0.27	0.01
TN-02	Waste NMP Heavies Tank (1	4) VOC	0.05	0.01

Emission	Source	Air Contaminant	Emission I	Rates *
Point No. (1	.) Name (2)	Name (3)	lb/hr	TPY**
` '	nission point identification - from plot plan.	either specific equipment design	ation or emis	sion point
(2) Spe (3) VOC	cific point source name. For fu		latile	ame. organic
H₂S ·	hydrogen sulfide	as Administrative Code Section 103 ed in the atmosphere, including F		emission
point	particulate matter, suspende	ed in the atmosphere, including i	ואונט ווסווו נוומנ	CITIISSIOTI
PM ₁₀ CO - NO _x -	than 10 microns in diamete particulate matter greater that carbon monoxide total oxides of nitrogen sulfur dioxide	er. Where PM is not listed, it sh	matter equal t nall be assume	
(4) Emis the app (5) Fugit (6) Fugit (7) Janu (8) Janu (10) Janu (11) From (12) Emis (13) Emis	sion rate is an estimate and c	PPS Plant expansion PPS Plant expansion	eting the requir	ements of
* Emis schedu		he facilities are limited by the follow	wing maximum	operating
Hrs	s/day Days/weekWee	eks/year or <u>8,760</u> Hrs/year		
** Complia	ance with annual emission limit	ts is based on a rolling 12-month pe	eriod.	

Source	Air Contaminant	Emission Rates *	
Name (2)	Name (3)	lb/hr	TPY**
			_
		Dated	
			Name (2) Name (3) lb/hr