Permit Number 2035A

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, sources, and related activities. 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 Name (2)	Air Contaminant Name (3)	Emission	Rates
			lbs/hour	TPY (4)
FT16001300	Phosphoric Acid Tank	H ₃ PO ₄	0.01	0.01
FT16002500	BPA Additive Solution Tank	VOC	0.02	0.01
FT16021100	TBP Tank	voc	0.02	0.01
FS16056800	HCI Tank Scrubber	HCI	0.01	0.01
FT16056100	Hydrochloric Acid Tank	HCI	0.01	0.04
FT16056900	H₃PO₄ Make-up Tank	H ₃ PO ₄	0.01	0.01
FT16409500	Line 6 Extruder Melt Pot	voc	0.01	0.01
FT41070400	Sulfuric Acid Tank	H ₂ SO ₄	0.02	0.01
FI16452900	Incinerator/Scrubber Stack	со	2.70	11.83
	Stack	HCI	0.38	1.67
		NO _x	1.25	5.48
		voc	0.05	0.24
		SO ₂	<0.01	<0.01
		Acetone	0.01	0.06
		Methylene Chloride	0.03	0.13

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emissio	n Rates
			lbs/hour	TPY (4)
FF16027000	Decomposition System Flare	СО	6.30	27.61
		HCI	0.12	0.52
		NO _x	0.17	0.76
		VOC	0.01	0.04
		SO ₂	<0.01	<0.01
		Methylene Chloride	<0.01	0.01
FF41080100	BPA Flare	СО	2.57	2.40
		NO _x	0.30	0.28
		VOC	0.03	0.03
		SO ₂	<0.01	<0.01
		Acetone	0.01	0.01
	Carbon Adsorption System	VOC	0.17	0.12
		Methylene Chloride	0.13	0.09
DIEOVEN 1-4	Die Oven Nos. 1, 2, 3, and 4	СО	0.05 (6)	0.43 (7)
		NO _x	0.03 (6)	0.23 (7)
		SO ₂	0.01 (6)	0.03 (7)
		VOC	0.02 (6)	0.15 (7)
		РМ	0.01 (6)	0.11 (7)
		PM ₁₀	0.01 (6)	0.11 (7)
		PM _{2.5}	0.01 (6)	0.11 (7)
FV16249100	Packaging Station Baghouse 1	РМ	0.50	2.00
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emissi	Emission Rates	
			lbs/hour	TPY (4)	
FV16280300	Packaging Station	РМ	0.50	1.50	
	Baghouse 2	PM ₁₀	0.01	0.01	
		PM _{2.5}	0.01	0.01	
FV16298000	Packaging Station Baghouse 3	PM	0.36	1.08	
	Bagnouse 3	PM ₁₀	0.01	0.01	
		PM _{2.5}	0.01	0.01	
FV16213930	North Bulk Loading	PM	0.58	2.54	
	Baghouse	PM ₁₀	0.01	0.01	
		PM _{2.5}	0.01	0.01	
FV16250100	South Bulk Loading Baghouse	РМ	0.50	1.50	
		PM ₁₀	0.01	0.01	
		PM _{2.5}	0.01	0.01	
FV16258800	All Polycarbonate Silo Vent	PM	1.57	2.31	
	vent	PM ₁₀	<0.01	<0.01	
		PM _{2.5}	<0.01	<0.01	
FV40541112	BPA Silo/Truck Loading Vent	РМ	0.01	0.01	
		PM ₁₀	<0.01	<0.01	
		PM _{2.5}	<0.01	<0.01	
FV40543200	BPA Railcar Loading	PM	0.01	0.01	
	Vent	PM ₁₀	<0.01	<0.01	
		PM _{2.5}	<0.01	<0.01	

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emissi	Emission Rates	
			lbs/hour	TPY (4)	
FV16158700	Lines 1, 2, and 3 Baghouse	PM	0.62	2.70	
	Bagnouse	PM ₁₀	0.01	0.01	
		PM _{2.5}	0.01	0.01	
FV163434RO	Line 4 Baghouse	PM	0.20	0.88	
		PM ₁₀	0.01	0.01	
		PM _{2.5}	0.01	0.01	
FV16420800	Lines 5 and 6	PM	0.60	2.63	
	Baghouse	PM ₁₀	0.01	0.01	
		PM _{2.5}	0.01	0.01	
FV16142700	Line 3 Additive Area Filter	PM	0.26	1.13	
		PM ₁₀	0.01	0.01	
		PM _{2.5}	0.01	0.01	
FUGITIVES	Fugitives (5)	Acetone	0.53	2.31	
		Cl ₂	0.02	0.09	
		COCl ₂	0.01	0.05	
		VOC	2.84	12.42	
		Methylene Chloride	1.56	6.85	
		HCI	0.01	0.55	
		H ₃ PO ₄	0.02	0.09	
		Ammonia (NH₃)	0.08	0.33	

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
FCMAKCASSOO MAK-CARBOX	Carbon Box Emissions	Monochlorobenzene	0.07	0.04
WAIT CARBOX		Total VOC	0.07	0.04
		Methylene Chloride	0.21	0.11
		РМ	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
PCS-MSSNH3 PCS-NH₃	Ammonia Reaction Test	Ammonia (NH₃)	0.04	0.01
PCS-MSSATM MAK-DEGR	Degreaser	Petroleum Distillate	0.01	0.01
PCS-MSSATM PCS-BAGCLR	Baghouse Clearing	РМ	0.39	0.01
1 GG B/(GGE)		PM ₁₀	0.18	0.01
		PM _{2.5}	0.03	0.01
PCS-MSSATM PCS-FRCTK	Frac Tanks	Phenol	0.01	0.01
. co i i co		Monochlorobenzene	0.33	0.11
		Total VOC	0.34	0.12
		Methylene Chloride	0.33	0.11
		Acetone	1.99	0.09
		HCI	0.01	0.01
PCS-MSSATM PCS-VACTR	Vacuum Trucks	Phenol	0.01	0.01
		Monochlorobenzene	0.32	0.01
		Total VOC	0.33	0.02
		Methylene Chloride	0.33	0.01
		Acetone	0.93	0.01

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission	Rates
			lbs/hour	TPY (4)
PCS-MSSATM PCS-INT	Instrument Clearing	Total VOC	0.27	0.01
		Cl ₂	0.01	0.01
PCS-MSSATM BPA-TOT	BPA Tote Loading	Methyl Isobutyl Ketone	0.35	0.01
		Total VOC	0.35	0.01
PCS-MSSATM BPA-REAC	BPA Reactor Catalyst Loading	Phenol	0.56	0.01
PCS-MSSATM PCS-TKTR	Tank Trucks	Phenol	0.01	0.01
1 00 IKIK		Methyl Isobutyl Ketone	1.50	0.13
		Monochlorobenzene	0.07	0.01
		Total VOC	1.58	0.13
		Methylene Chloride	1.54	0.04

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emissio	on Rates			
			lbs/hour	TPY (4)			
PCS-MSSATM PCS-UNCONT	Uncontrolled Equipment Clearing	Phenol	13.94	0.35			
	4.1.	Bisphenol A	0.16	0.01			
		Methyl Isobutyl Ketone	7.97	0.04			
		Diacetone Alcohol	0.96	0.01			
		Mercaptopropionic Acid	0.02	0.01			
		Monochlorobenzene	20.69	1.14			
				Tert-butylphenol	1.28	0.01	
				Ethylene Glycol	0.03	0.01	
				Ethyl Chloride	0.06	0.01	
		EPP	0.01	0.01			
		Total VOC	45.06	1.60			
		HCI	0.56	0.01			
		Acetone	6.14	0.02			
			ı		Ammonia (NH₃)	1.00	0.01
		Methylene Chloride	20.69	1.34			
		High boiling diphenyl carbonyl (DPC)	0.01	0.01			
FF16027000 MAK-COPRG	CO Purging	СО	18.24	0.44			
-		NO _x	0.25	0.01			

FF41080100 BPA-FLR	BPA Unit Flaring	Phenol	0.01	0.01
		Methyl Isobutyl Ketone	0.01	0.01
		VOC-U	0.15	0.08
		Total VOC	0.17	0.08
		Acetone	0.01	0.01
		NO _x	0.85	0.43
		СО	7.29	3.65
PCS-MSSCNT BPA-REAC	BPA Reactor Catalyst Loading	Phenol	0.21	0.01
PCS-MSSCNT PCS-CONT (8)	Controlled Equipment Clearing	Phenol	1.08	0.01
		Bisphenol A	3.17	0.22
		Methyl Isobutyl Ketone	Vetone 0.48 0.01	0.01
		Diacetone Alcohol (4-Hydroxy-4-methyl-2-pentanone)	0.06	0.01
		Mercaptopropionic Acid	0.01	0.01
		Monochlorobenzene	2.31	0.02
		tert-Butylphenol	0.01	0.01
		Ethyl Chloride	0.01	0.01
		Ethylene Glycol	0.01	0.01
		EPP	0.01	0.01
		Total VOC	7.15	0.32

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission	Rates
			lbs/hour	TPY (4)
PCS-MSSCNT (8)	Controlled Equipment Clearing	HCI	0.03	0.01
	3	Acetone 0.57	0.57	0.01
		Ammonia (NH ₃)	0.01	0.01
	Methylene Chloride	3.99	0.03	
		High boiling diphenyl carbonyl (DPC)	0.01	0.01
		NO _x	0.02	0.01
		СО	0.18	0.01

- (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) VOC volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

VOC-U - VOC unspeciated

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented

PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide HCI - hydrochloric acid

 $\begin{array}{lll} \text{CI}_2 & - & \text{chlorine} \\ \text{COCI}_2 & - & \text{phosgene} \\ \text{H}_3\text{PO}_4 & - & \text{phosphoric acid} \\ \text{H}_2\text{SO}_4 & - & \text{sulfuric acid} \\ \end{array}$

EPP - Ethylene Piperidine

- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Hourly emissions from each Die Oven.
- (7) Combined annual emissions from all four Die Ovens. The total hours of operations for all four die ovens are limited to 17,000 hours per year.
- (8) See Attachment C Footnote 1 in Special Conditions for PCS-MSSCNT.

Date:	February 22, 2019