WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF AIR QUALITY
601 57th Street SE
Charleston, WV 25304
Phone: (304) 926-0475
www.dep.wv.gov/daq

INITIAL/RENEWAL TITLE V PERMIT APPLICATION - GENERAL FORMS

Section 1: General Information

1. **Name of Applicant (As registered with the WV Secretary of State's Office):**	**2. Facility Name or Location:**
The Chemours Company FC LLC	Washington Works Washington WV, 26181-1217
3. DAQ Plant ID No.:	**4. Federal Employer ID No. (FEIN):**
107-00182	46-5626518

5. **Permit Application Type:**

☐ Initial Permit — When did operations commence? MM/DD/YYYY
☒ Permit Renewal — What is the expiration date of the existing permit? 10/01/2015
☐ Update to Initial/Renewal Permit Application

6. Type of Business Entity:

☐ Corporation ☐ Governmental Agency ☒ LLC
☐ Partnership ☐ Limited Partnership

7. Is the Applicant the:

☐ Owner ☐ Operator ☒ Both

If the Applicant is not both the owner and operator, please provide the name and address of the other party.

_____
_____
_____

8. Number of onsite employees:

750

9. Governmental Code:

☒ Privately owned and operated; 0
☐ Federally owned and operated; 1
☐ State government owned and operated; 2
☐ County government owned and operated; 3
☐ Municipality government owned and operated; 4
☐ District government owned and operated; 5

10. Business Confidentiality Claims

Does this application include confidential information (per 45CSR31)? ☒ Yes ☐ No

If yes, identify each segment of information on each page that is submitted as confidential, and provide justification for each segment claimed confidential, including the criteria under 45CSR§31-4.1, and in accordance with the DAQ's *"PRECAUTIONARY NOTICE-CLAIMS OF CONFIDENTIALITY"* guidance.

11. Mailing Address		
Street or P.O. Box: Building 1, Washington Works		
City: Washington	**State:** WV	**Zip: 26181-1217**
Telephone Number: (304) 863-4200	**Fax Number:** (304) 863-4862	

12. Facility Location		
Street: 8480 DuPont Road	**City:** Washington	**County:** Wood
UTM Easting: 442.436 km	**UTM Northing:** 4346.908 km	**Zone:** ☒ 17 or ☐ 18
Directions: From I-&& North Exit on the Route 50 bypass around Parkersburg towards Ohio. Continue on the bypass until you see the exit for DuPont Road. Exit from the bypass using the DuPont Road exit and at the bottom of the exit, at the traffic light, turn left. The plant is approximately a ¾ mile on the right hand side of the road.		
Portable Source? ☐ Yes ☒ No		
Is facility located within a nonattainment area? ☐ Yes ☒ No		**If yes, for what air pollutants?**
Is facility located within 50 miles of another state? ☒ Yes ☐ No		**If yes, name the affected state(s).** Ohio
Is facility located within 100 km of a Class I Area[1]? ☐ Yes ☒ No **If no, do emissions impact a Class I Area[1]?** ☐ Yes ☒ No		**If yes, name the area(s).**
[1] *Class I areas include Dolly Sods and Otter Creek Wilderness Areas in West Virginia, and Shenandoah National Park and James River Face Wilderness Area in Virginia.*		

13. Contact Information		
Responsible Official: Robert J. Fehrenbacher		**Title:** Plant Manager
Street or P.O. Box: P. O. Box 1217		
City: Washington	**State:** WV	**Zip: 26181-1217**
Telephone Number: (304) 863-4305	**Fax Number:** (304) 863-2735	
E-mail address: robert.j.fehrenbacher@chemours.com		
Environmental Contact: David F. Altman		**Title:** Sr. Environmental Control Consultant
Street or P.O. Box: P. O. Box 1217		
City: Washington	**State:** WV	**Zip: 26181-1217**
Telephone Number: (304) 863-4271	**Fax Number:** (304) 863-4862	
E-mail address: david.f.altman@chemours.com		
Application Preparer: John J. Mentink		**Title:** Sr. Environmental. Consultant
Company: The Chemours Company FC LLC		
Street or P.O. Box: P. O. Box 1217		
City: Washington	**State:** WV	**Zip: 26181-1217**
Telephone Number: (304) 863-2028	**Fax Number:** (304) 863-4862	
E-mail address: john.j.mentink@chemours.com		

14. Facility Description

List all processes, products, NAICS and SIC codes for normal operation, in order of priority. Also list any process, products, NAICS and SIC codes associated with any alternative operating scenarios if different from those listed for normal operation.

Process	Products	NAICS	SIC
Chemicals and Plastic Resins Manufacturing	Chemicals and Plastic Resins	325211	2821

Provide a general description of operations.

In the Acrylic Resin Manufacturing Unit, various raw materials are received from vendors and are used to polymerize polyacrylate bead that is then isolated from the reaction mass, dried, and packaged for shipment to customers

15. Provide an **Area Map** showing plant location as **ATTACHMENT A**.

16. Provide a **Plot Plan(s)**, e.g. scaled map(s) and/or sketch(es) showing the location of the property on which the stationary source(s) is located as **ATTACHMENT B**. For instructions, refer to "Plot Plan - Guidelines."

17. Provide a detailed **Process Flow Diagram(s)** showing each process or emissions unit as **ATTACHMENT C**. Process Flow Diagrams should show all emission units, control equipment, emission points, and their relationships.

Section 2: Applicable Requirements

18. Applicable Requirements Summary	
Instructions: Mark all applicable requirements.	
☒ SIP	☐ FIP
☒ Minor source NSR (45CSR13)	☐ PSD (45CSR14)
☐ NESHAP (45CSR34)	☐ Nonattainment NSR (45CSR19)
☐ Section 111 NSPS	☒ Section 112(d) MACT standards
☐ Section 112(g) Case-by-case MACT	☐ 112(r) RMP
☐ Section 112(i) Early reduction of HAP	☐ Consumer/commercial prod. reqts., section 183(e)
☐ Section 129 Standards/Reqts.	☐ Stratospheric ozone (Title VI)
☐ Tank vessel reqt., section 183(f)	☐ Emissions cap 45CSR§30-2.6.1
☐ NAAQS, increments or visibility (temp. sources)	☐ 45CSR27 State enforceable only rule
☒ 45CSR4 State enforceable only rule	☐ Acid Rain (Title IV, 45CSR33)
☐ Emissions Trading and Banking (45CSR28)	☐ **C**ompliance **A**ssurance **M**onitoring (40CFR64)
☐ CAIR NO_x Annual Trading Program (45CSR39)	☐ CAIR NO_x Ozone Season Trading Program (45CSR40)
☐ CAIR SO_2 Trading Program (45CSR41)	

19. Non Applicability Determinations

List all requirements which the source has determined not applicable and for which a permit shield is requested. The listing shall also include the rule citation and the reason why the shield applies.

a. 40 C.F.R. 60, Subpart K - "Standards of Performance For Storage Vessels For Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978." There are no petroleum liquid storage tanks in the Acrylic Resin Production Area.

b. 40 C.F.R. 60, Subpart Ka - "Standards of Performance for Storage Vessels For Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984." There are no petroleum liquid storage tanks in the Acrylic Resin Production Area.

c. 40 C.F.R. 60, Subpart Kb - "Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984." There are no volatile organic liquid storage tanks in the Acrylic Resin Production Area constructed after July 23, 1984 with a design capacity equal to or greater than 75 cubic meters (m^3).

d. 40 C.F.R. 60, Subpart VV - "Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry." The Acrylic Resin Production Area does not produce as intermediates or final products any of the materials listed in 40 C.F.R. §60.489.

e. 40 C.F.R. 60, Subpart DDD - "Standards of Performance for Volatile Organic Compound (VOC) Emissions from the Polymer Manufacturing Industry." The Acrylic Resin Production Area does not manufacture polypropylene, polyethylene, polystyrene, or poly(ethylene terephthalate) for which this rule applies.

f. 40 C.F.R. 60, Subpart RRR - "Standards of Performance for Volatile Organic Compound (VOC) Emissions from Synthetic Organic Chemical Manufacturing Industry (SOCMI) Reactor Processes." The Acrylic Resin Production Area does not produce any of the chemicals listed in 40 C.F.R. §60.707 as a product, co-product, by-product, or intermediate.

g. 40 C.F.R. 61, Subpart V - "National Emission Standards for Equipment Leaks (Fugitive Emissions Sources)." Applies to sources in VHAP service as defined in 40 C.F.R. §61.241. VHAP service involves chemicals that are not used in a manner that qualifies them under the rule in the Acrylic Resin Production Area.

h. 40 C.F.R. 63, Subpart H - "National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks." 40 C.F.R. 63 Subparts F, G, and H do not apply to manufacturing process units that do not meet the criteria in 40 C.F.R. §§63.100(b)(1), (b)(2), and (b)(3).

☒ Permit Shield

19. Non Applicability Determinations

List all requirements which the source has determined not applicable and for which a permit shield is requested. The listing shall also include the rule citation and the reason why the shield applies.

i. 40 C.F.R. 63, Subpart JJJ - "National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins." The Acrylic Resin Production Area does not produce the materials listed in 40 C.F.R. §63.1310.

j. 40 C.F.R. 60, Subpart EEEE – "National Emission Standard for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline)." The Acrylic Resin Production Area does not distribute organic liquids as defined by 40 C.F.R. §63.2406.

k. 40 C.F.R. 63, Subpart PPPP – "National Emission Standards for Hazardous Air Pollutants: Surface Coating of Plastic Parts and Products." The Acrylic Resin Production Area does not produce as an intermediate or final product that meets the definition of "surface coated" plastic part.

l. 40 C.F.R. 63, Subpart WWWW - "National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production." The Acrylic Resin Production Area does not engage in reinforced plastics composites production as defined in 40 C.F.R. §63.5785 and does not manufacture composite material as defined in 40 C.F.R. §63.5935.

m. 40 C.F.R. 63, Subpart ZZZZ – "National Emission Standards for Hazardous Air Pollutants: Reciprocating Internal Combustion Engines." The Acrylic Resin Production Area does not have a stationary Reciprocating Internal Combustion Engine (RICE) as defined by 40 C.F.R. §63.6675.

n. 40 C.F.R. 63, Subpart DDDDD – "National Emission Standards for Hazardous Air Pollutants: Industrial/Commercial/Institutional Boilers and Process Heaters." The Acrylic Resin Production Area does not own or operate an industrial, commercial, or institutional boiler or process heater as defined in 40 C.F.R. §63.7575 of the proposed rule

o. 40 C.F.R. 63, Subpart HHHHH – "National Emission Standards for Hazardous Air Pollutants: Miscellaneous Coating Manufacturing." The Acrylic Resin Production Area does not produce, blend, or manufacture coatings as part of the manufacturing process.

p. 40 C.F.R. 82, Subpart B - "Protection of Stratospheric Ozone." Requires recycling of Chlorofluorocarbons (CFCs) from motor vehicles and that technicians servicing equipment need to be licensed. The Acrylic Resin Production Area does not conduct motor vehicle maintenance involving CFCs on site.

q. 40 C.F.R. 82, Subpart C – "Protection of Stratospheric Ozone." Bans non-essential products containing Class I substances and bans non-essential products containing or manufactured with Class II substances. The Acrylic Resin Production Area does not use, manufacture, nor distribute these materials.

☒ Permit Shield

19. Non Applicability Determinations *(Continued)* - *Attach additional pages as necessary.*

List all requirements which the source has determined not applicable and for which a permit shield is requested. The listing shall also include the rule citation and the reason why the shield applies.

o. 45CSR2 – "To Prevent and Control Particulate Air Pollution from Combustion of Fuel in Indirect Heat Exchangers." The Acrylic Resin Production Area does not contain any fuel burning units.

p. 45CSR10 – "To Prevent and Control Air Pollution from the Emission of Sulfur Oxides." The Acrylic Resin Production Area does not contain any fuel burning units subject to the sulfur dioxide weight emission standards of 45CSR§10-3. Also, per 45CSR§10-4.1.e, manufacturing process source operations in the Acrylic Resin Production Area are exempt from the sulfur dioxide concentration limits of 45CSR§10-4.1 because the potential to emit of sulfur dioxide is less than 500 pounds per year.

q. 45CSR16 – "Standards of Performance for New Stationary Sources Pursuant to 40 C.F.R. 60." The Acrylic Resin Production Area is not subject to any requirements under 40 C.F.R. 60.

u. 45CSR17 – "To Prevent and Control Particulate Matter Air Pollution from Materials Handling, Preparation, Storage and Other Sources of Fugitive Particulate Matter." Per 45CSR§17-6.1, the Acrylic Resin Production Area is not subject to 45CSR17 because it is subject to the fugitive particulate matter emission requirements of 45CSR7.

☒ Permit Shield

20. Facility-Wide Applicable Requirements – Part 1

List all facility-wide applicable requirements. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*).

3.0 Facility-Wide Requirements

3.1. Limitations and Standards

3.1.1. **Open burning.** The open burning of refuse by any person is prohibited except as noted in 45CSR§6-3.1.
[45CSR§6-3.1.]

3.1.2. **Open burning exemptions.** The exemptions listed in 45CSR§6-3.1 are subject to the following stipulation: Upon notification by the Secretary, no person shall cause or allow any form of open burning during existing or predicted periods of atmospheric stagnation. Notification shall be made by such means as the Secretary may deem necessary and feasible.
[45CSR§6-3.2.]

3.1.3. **Asbestos.** The permittee is responsible for thoroughly inspecting the facility, or part of the facility, prior to commencement of demolition or renovation for the presence of asbestos and complying with 40 C.F.R. § 61.145, 40 C.F.R. § 61.148, and 40 C.F.R. § 61.150. The permittee, owner, or operator must notify the Secretary at least ten (10) working days prior to the commencement of any asbestos removal on the forms prescribed by the Secretary if the permittee is subject to the notification requirements of 40 C.F.R. § 61.145(b)(3)(i). The USEPA, the Division of Waste Management and the Bureau for Public Health - Environmental Health require a copy of this notice to be sent to them.
[40 C.F.R. §61.145(b) and 45CSR34]

3.1.4. **Odor.** No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor at any location occupied by the public.
[45CSR§4-3.1 State-Enforceable only.]

3.1.5. **Standby plan for reducing emissions.** When requested by the Secretary, the permittee shall prepare standby plans for reducing the emissions of air pollutants in accordance with the objectives set forth in Tables I, II, and III of 45CSR11.
[45CSR§11-5.2]

3.1.6. **Emission inventory.** The permittee is responsible for submitting, on an annual basis, an emission inventory in accordance with the submittal requirements of the Division of Air Quality.
[W.Va. Code § 22-5-4(a)(14)]

☒ Permit Shield

20. Facility-Wide Applicable Requirement – Part 1 *(Continued)* - *Attach additional pages as necessary.*

List all facility-wide applicable requirements. For each applicable requirement, include the rule citation and/or permit with the condition number.

3.1.7. **Ozone-depleting substances.** For those facilities performing maintenance, service, repair or disposal of appliances, the permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 C.F.R. Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:

a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the prohibitions and required practices pursuant to 40 C.F.R. §§ 82.154 and 82.156.

b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 C.F.R. § 82.158.

c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 C.F.R. § 82.161.

[40 C.F.R. 82, Subpart F]

3.1.8. **Risk Management Plan.** This stationary source, as defined in 40 C.F.R. § 68.3, is subject to Part 68. This stationary source shall submit a risk management plan (RMP) by the date specified in 40 C.F.R. Part 68.10. This stationary source shall certify compliance with the requirements of Part 68 as part of the annual compliance certification as required by 40 C.F.R. Part 70 or 71. **[40 C.F.R. 68]**

3.1.9. **45CSR21.** The permittee shall comply with all hourly and annual emission limits set forth by the affected 45CSR13 permits, for each of the sources and associated emission points identified in Attachment A of Permit R13-3223 (Appendix B of this Permit).

Note: For the Acrylic Resin Production Area, the affected permit is R13-0181C and the Attachment A listing only for those sources in the Acrylic Resin Production Area is provided in Appendix B. The hourly and annual emission limits for the affected sources are provided in 4.1.1. **[45CSR13, R13-3223, 4.1.1]**

3.1.10. **45CSR21.** The permitted sources identified in Appendix B and recognized as being subject to 45CSR21 shall comply with all applicable requirements of 45CSR21 – "Regulation to Prevent and Control Air Pollution from the Emission of Volatile Organic Compounds" provided, however, that compliance with any more stringent requirements under the affected 45CSR13 permit identified in Appendix B, are also demonstrated. The applicable requirements set forth by 45CSR21 shall include, but not be limited to, the following: **[45CSR13, R13-3223, 4.1.2]**

☒ Permit Shield

20. Facility-Wide Applicable Requirement – Part 1 ***(Continued)*** *- Attach additional pages as necessary.*

List all facility-wide applicable requirements. For each applicable requirement, include the rule citation and/or permit with the condition number.

3.1.10.1. The permittee shall maintain the aggregated hourly and annual VOC control efficiency of 90% or greater, on a site-wide basis, for all existing sources listed or required to be listed as part of the original facility-wide Reasonably Available Control Measures (RACM) plan, as identified in Appendix B. **[45CSR13, R13-3223, 4.1.2.1; 45CSR§21-40.3.a.1 (State-Enforceable only)]**

3.1.10.2. On or after May 1, 1996, construction or modification of any emission source resulting in a maximum theoretical emissions (MTE) of VOCs equaling or exceeding six (6) pounds per hour and not listed or required to be listed in the facility-wide RACM plan shall require the prior approval by the Director of an emission control plan that meets the definition of reasonable available control technology (RACT) on a case-by-case basis for both fugitive and non-fugitive VOC emissions from such source. All sources constructed or modified on or after May 1, 1996 shall be subject to the following: **[45CSR13, R13-3223, 4.1.2.2; 45CSR§21-40.3.c (State-Enforceable only)]**

a. The RACT control plan(s) shall be embodied in a permit in accordance to 45CSR13. **[45CSR13, R13-3223, 4.1.2.2.a; 45CSR§21-40.4.e (State-Enforceable only)]**

b. The MTE and associated emission reductions of the constructed or modified source will not be calculated into the site-wide aggregate hourly and annual emissions reduction requirements set forth in Section 3.1.10.1. **[45CSR13, R13-3223, 4.1.2.2.b]**

3.1.10.3. If a modification to an existing source with current MTE below the threshold of six (6) pounds per hour of VOCs causes an increase in the MTE that results in the source exceeding the six (6) pounds per hour threshold for the first time, the source shall be subject to RACT in accordance to Section 3.1.10.2. **[45CSR13, R13-3223, 4.1.2.3; 45CSR§21-40.3.c (State-Enforceable only)]**

3.1.10.4. Physical changes to or changes in the method of operation of an existing emission source listed or required to be listed as part of the facility-wide RACM plan, that results in an increase in VOC emissions of any amount, shall require the prior approval by the Director of an emission control plan that meets the definition of RACT on a case-by-case basis for both fugitive and non-fugitive VOC emissions from the source. All sources modified on or after May 1, 1996 shall be subject to the following; **[45CSR13, R13-3223, 4.1.2.4; 45CSR§21-40.3.c (State-Enforceable only)]**

a. The RACT control plan (s) shall be embodied in a permit in accordance to 45CSR13. **[45CSR13, R13-3223, 4.1.2.4.a; 45CSR§21-40.4.e (State-Enforceable only)]**

b. The facility-wide RACM plan shall be modified to include the RACT analysis conducted on the modified source(s). **[45CSR13, R13-3223, 4.1.2.4.b]**

c. The MTE and associated emission reductions of the modified source shall be recalculated as part of the site-wide aggregate hourly and annual emissions reduction requirements to demonstrate compliance with the minimum 90% reduction rate as set forth in 3.1.10.1 of this permit. **[45CSR13, R13-3223, 4.1.2.4.c]**

☒ Permit Shield

20. Facility-Wide Applicable Requirement – Part 1 *(Continued)* - *Attach additional pages as necessary.*

List all facility-wide applicable requirements. For each applicable requirement, include the rule citation and/or permit with the condition number.

3.1.10.5. In the event the facility-wide RACM plan is modified to delete an existing emission source, and any associated pollution control equipment, due to the source being permanently removed from service or reassigned to service not subject to the requirements of 45CSR§21-40, the MTE shall be recalculated to demonstrate that the 90% facility-wide VOC reduction requirement set forth in Section 3.1.10.1 is still being met. In the event such a modification results in the site-wide aggregate hourly and annual emissions reduction being recalculated to a rate less than 90%, the RACM plan shall be revised to include all new and/or modified sources and their associated control technologies constructed on or after May 1, 1996, in order to meet the requirements set forth in 3.1.10.1. **[45CSR13, R13-3223, 4.1.2.5]**

3.1.10.6. In the event a source and associated emission point identified in Appendix B is subject to the New Source Performance Standards (NSPS) of 40 C.F.R. 60, the National Emission Standards for Hazardous Air Pollutants (NESHAP) of 40 C.F.R. 61, or the Maximum Achievable Control Technology (MACT) standards of 40 C.F.R. 63, then compliance with such requirements as defined in the affected 45CSR13 permit shall demonstrate compliance with the RACT requirements set forth in R13-3223. **[45CSR13, R13-3223, 4.1.2.6]**

Note: For the Acrylic Resin Production Area, the affected permit is R13-0181C and the Attachment A listing only for those sources in the Acrylic Resin Production Area is provided in Appendix B.

3.1.11. **45CSR27.** The permitted sources identified in Appendix B and recognized as being subject to 45CSR27 shall comply with all applicable requirements of 45CSR27 – "To Prevent and Control the Emissions of Toxic Air Pollutants" provided, however, that compliance with any more stringent requirements under the affected 45CSR13 permit identified in Appendix B are also demonstrated. The applicable requirements set forth by 45CSR27 shall include, but not be limited to, the following: **[45CSR13, R13-3223, 4.1.3]**

3.1.11.1. The permittee shall employ the best available technology (BAT) for the purpose of reducing toxic air pollutants (TAP) associated with the applicable sources and emission points identified in Appendix B. **[45CSR13, R13-3223, 4.1.3.1; 45CSR§27-3.1 (State-Enforceable only)]**

3.1.11.2. The permittee shall employ BAT for the purpose of preventing and controlling fugitive emissions of TAP to the atmosphere as a result of routing leakage from those sources and their associated equipment identified in Appendix B as operating in TAP service. **[45CSR13, R13-3223, 4.1.3.2; 45CSR§27-4.1 (State-Enforceable only)]**

Note: For the Acrylic Resin Production Area, the affected permit is R13-0181C and the Attachment A listing only for those sources in the Acrylic Resin Production Area is provided in Appendix B.

3.1.12. **45CSR27.** In the event a source and associated emission point identified in Appendix B are subject to the MACT standards of 40 C.F.R. 63, then compliance with the applicable MACT requirements identified in the affected 45CSR13 permit shall demonstrate compliance with the BAT requirements set forth in 3.1.11.

☒ Permit Shield

20. Facility-Wide Applicable Requirement – Part 1 *(Continued)* - *Attach additional pages as necessary.*

List all facility-wide applicable requirements. For each applicable requirement, include the rule citation and/or permit with the condition number.

Note: For the Acrylic Resin Production Area, the affected permit is R13-0181C and the Attachment A listing only for those sources in the Acrylic Resin Production Area is provided in Appendix B.

[45CSR13, R13-3223, 4.1.4; 45CSR§27-3.1 (State-Enforceable only)]

3.1.13. When emissions on an annual basis of one or more of the greenhouse gases listed below are greater than the *de minimis* amounts listed below, all greenhouse gases emitted above the *de minimis* amounts shall be reported to the Secretary under 45CSR§42-4. (see Section 3.5.):

Greenhouse Gas Compound	tons/year
carbon dioxide	10,000
methane	476
nitrous oxide	32.6
hydrofluorocarbons	0.855
perfluorocarbons	1.09
sulfur hexafluoride	0.42

[45CSR§42-3.1., State-Enforceable only.]

☒ Permit Shield

20. Facility-Wide Applicable Requirement – Part 1 *(Continued)* - *Attach additional pages as necessary.*

List all facility-wide applicable requirements. For each applicable requirement, include the rule citation and/or permit with the condition number.

☐ Permit Shield

20. Facility-Wide Applicable Requirements – Part 2

For all facility-wide applicable requirements listed above, provide monitoring/testing / recordkeeping / reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

3.2. Monitoring Requirements

3.2.1. **45CSR21.** The permittee shall implement and maintain leak detection and repair (LDAR) programs for the reduction of fugitive VOC emissions in all manufacturing process units subject to 45CSR§21-40 producing a product or products intermediate or final, in excess of 1,000 megagrams (1,100 tons) per year in accordance with the applicable methods and criteria of 45CSR§21-37 or alternate procedures approved by the Director. Procedures approved by the Director, 40 C.F.R. 60, Subpart VV, 40 C.F.R. 61, Subpart V, 40 C.F.R. 63, Subpart H, 40 C.F.R. 63, Subpart TT, 40 C.F.R. 63, Subpart UU, 40 C.F.R. 65, Subpart F, and 40 C.F.R. 265, Subpart CC. This requirement shall apply to all units identified in Appendix B irrespective of whether or not such units produce as intermediates or final products, substances on the lists contained with 40 C.F.R. 60, 40 C.F.R. 61, or 40 C.F.R. 63.

Note: The Attachment A listing only for those sources in the Acrylic Resin Production Area is provided in Appendix B.

[45CSR13, R13-3223, 4.2.1; 45CSR§21-40.3.a.2 (State-Enforceable only)]

3.2.2. **45CSR27.** The permittee shall implement and maintain a LDAR program for the applicable sources and emission points identified in Appendix B in order to reduce the emissions of TAP in accordance with the requirements of 40 C.F.R. 63, Subpart H – "National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks." Compliance with 40 C.F.R. 63, Subpart H shall be considered demonstration of compliance with the provisions of 45CSR§27-4 – "Fugitive Emissions of Toxic Air Pollutants."

Note: The Attachment A listing only for those sources in the Acrylic Resin Production Area is provided in Appendix B. **[45CSR13, R13-3223, 4.2.2; 45CSR§27-4.1 (State-Enforceable only)]**

3.2.3. **45CSR21.** In the event a source and associated emission point identified in Appendix B are subject to the MACT standards of 40 C.F.R. 63, then compliance with any applicable LDAR program set forth by the MACT and identified in the affected 45CSR13 permit shall demonstrate compliance with the monitoring requirements set forth in this permit.

Note: For the Acrylic Resin Production Area, the affected permit is R13-0181C and the Attachment A listing only for those sources in the Acrylic Resin Production Area is provided in Appendix B.

[45CSR13, R13-3223, 4.2.3; 45CSR§21-37.1.c (State-Enforceable only); 45CSR§27-4.1 (State-Enforceable only)]

Are you in compliance with all facility-wide applicable requirements? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

20. Facility-Wide Applicable Requirements – Part 2 *(Continued)* - *Attach additional pages as necessary.*

For all facility-wide applicable requirements listed above, provide monitoring/testing/recordkeeping/ reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

3.3. Testing Requirements

3.3.1. **Stack testing.** As per provisions set forth in this permit or as otherwise required by the Secretary, in accordance with the West Virginia Code, underlying regulations, permits and orders, the permittee shall conduct test(s) to determine compliance with the emission limitations set forth in this permit and/or established or set forth in underlying documents. The Secretary, or his duly authorized representative, may at his option witness or conduct such test(s). Should the Secretary exercise his option to conduct such test(s), the operator shall provide all necessary sampling connections and sampling ports to be located in such manner as the Secretary may require, power for test equipment and the required safety equipment, such as scaffolding, railings and ladders, to comply with generally accepted good safety practices. Such tests shall be conducted in accordance with the methods and procedures set forth in this permit or as otherwise approved or specified by the Secretary in accordance with the following:

a. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with 40 C.F.R. Parts 60, 61, and 63, if applicable, in accordance with the Secretary's delegated authority and any established equivalency determination methods which are applicable.

b. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with applicable requirements which do not involve federal delegation. In specifying or approving such alternative testing to the test methods, the Secretary, to the extent possible, shall utilize the same equivalency criteria as would be used in approving such changes under Section 3.3.1.a. of this permit.

c. All periodic tests to determine mass emission limits from or air pollutant concentrations in discharge stacks and such other tests as specified in this permit shall be conducted in accordance with an approved test protocol. Unless previously approved, such protocols shall be submitted to the Secretary in writing at least thirty (30) days prior to any testing and shall contain the information set forth by the Secretary. In addition, the permittee shall notify the Secretary at least fifteen (15) days prior to any testing so the Secretary may have the opportunity to observe such tests. This notification shall include the actual date and time during which the test will be conducted and, if appropriate, verification that the tests will fully conform to a referenced protocol previously approved by the Secretary.

[WV Code § 22-5-4(a)(15) and 45CSR13]

Are you in compliance with all facility-wide applicable requirements? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

20. Facility-Wide Applicable Requirements – Part 2 *(Continued)* - *Attach additional pages as necessary.*

For all facility-wide applicable requirements listed above, provide monitoring/testing/recordkeeping/ reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

3.3.2. **45CSR21.** Manufacturing process units may be exempted upon written request of the permittee to the Director. Exempted units are exempted from the frequency of testing as described in 45CSR§21-37, however, LDAR testing of this unit or certification of emission using approved fugitive emission factors will be required every three years, or upon request by the Director or his duly authorized representative. Waiver or scheduling of LDAR testing every three years may be granted by the Director if written request and justification are submitted by the permittee. Units exempted from testing are not exempted from testing which may be required under any other applicable State or Federal regulations, orders, or permits. The Director may periodically require verifications by the permittee that maintenance and repair procedures associated with approved exemptions are continued and practiced.

[45CSR13, R13-3223, 4.3.1; 45CSR§21-40.3.a.2 (State-Enforceable only)]

3.3.3. **45CSR21.** In the event a source and associated emission point identified in Appendix B are subject to the MACT standards of 40 C.F.R. 63, then compliance with the applicable LDAR testing requirements set forth by the MACT and identified in the affected 45CSR13 permit shall demonstrate compliance with the LDAR testing requirements set forth in this permit.

Note: For the Acrylic Resin Production Area, the affected permit is R13-0181C and the Attachment A listing only for those sources in the Acrylic Resin Production Area is provided in Appendix B.

[45CSR13, R13-3223, 4.3.2; 45CSR§21-37.1.c (State-Enforceable only); 45CSR§27-4.1 (State-Enforceable only)]

Are you in compliance with all facility-wide applicable requirements? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

20. Facility-Wide Applicable Requirements – Part 2 *(Continued)* - *Attach additional pages as necessary.*

For all facility-wide applicable requirements listed above, provide monitoring/testing/recordkeeping/ reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

3.4. Recordkeeping Requirements

3.4.1. **Monitoring information.** The permittee shall keep records of monitoring information that include the following:

a. The date, place as defined in this permit and time of sampling or measurements;

b. The date(s) analyses were performed;

c. The company or entity that performed the analyses;

d. The analytical techniques or methods used;

e. The results of the analyses; and

f. The operating conditions existing at the time of sampling or measurement.

[45CSR§30-5.1.c.2.A.; 45CSR13, R13-0181, 4.4.1; 45CSR13, R13-3223, 4.4.1]

3.4.2. **Retention of records.** The permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of monitoring sample, measurement, report, application, or record creation date. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Where appropriate, records may be maintained in computerized form in lieu of the above records.
[45CSR§30-5.1.c.2.B.]

3.4.3. **Odors.** For the purposes of 45CSR4, the permittee shall maintain a record of all odor complaints received, any investigation performed in response to such a complaint, and any responsive action(s) taken.
[45CSR§30-5.1.c. State-Enforceable only.]

Are you in compliance with all facility-wide applicable requirements? ☒ Yes ☐ No
If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

20. Facility-Wide Applicable Requirements – Part 2 *(Continued)* - *Attach additional pages as necessary.*

For all facility-wide applicable requirements listed above, provide monitoring/testing/recordkeeping/ reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

3.4.4. **45CSR21.** Unless granted a variance pursuant to 45CSR§21-9.3, or as approved by the Director as part of a required Start-up, Shutdown, and Malfunction (SSM) Plan mandated under 40 C.F.R. §63.6(e) or another applicable Section of 40 C.F.R. 63, the owner or operator of the facility shall operate all emission control equipment listed in Appendix B as part of the facility-wide control efficiency plan at all times the facilities are in operation or VOC emissions are occurring from these sources or activities. In the event of a malfunction, and a variance has not been granted, the production unit shall be shutdown or the activity discontinued as expeditiously as possible. The permittee shall comply with 45CSR§21-9.3 with respect to all periods of non-compliance with the emission limitations set forth in the affected 45CSR13 permits and the emissions reduction requests set forth in the facility-wide control efficiency plan resulting from unavoidable malfunctions of equipment.

Note: For the Acrylic Resin Production Area, the affected permit is R13-0181C and the Attachment A listing only for those sources in the Acrylic Resin Production Area is provided in Appendix B.

[45CSR13, R13-3223, 4.4.4]

3.4.5. **45CSR27.** The permittee shall maintain records of the results of all monitoring and inspections, emission control measures applied, and the nature, timing, and results of repair efforts conducted in accordance to 45CSR§27-10 and set forth in the affected 45CSR13 permits as identified in Appendix B.

Note: For the Acrylic Resin Production Area, the affected permit is R13-0181C and the Attachment A listing only for those sources in the Acrylic Resin Production Area is provided in Appendix B.

[45CSR13, R13-3223, 4.4.5.]

Are you in compliance with all facility-wide applicable requirements? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

20. Facility-Wide Applicable Requirements – Part 2 *(Continued)* - *Attach additional pages as necessary.*

For all facility-wide applicable requirements listed above, provide monitoring/testing/recordkeeping/ reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

3.5. Reporting Requirements

3.5.1. **Responsible official.** Any application form, report, or compliance certification required by this permit to be submitted to the DAQ and/or USEPA shall contain a certification by the responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.
[45CSR§§30-4.4. *and* 5.1.c.3.D.]

3.5.2. A permittee may request confidential treatment for the submission of reporting required under 45CSR§30-5.1.c.3. pursuant to the limitations and procedures of W.Va. Code § 22-5-10 and 45CSR31.
[45CSR§30-5.1.c.3.E.]

3.5.3. Except for the electronic submittal of the annual certification to the USEPA as required in 3.5.5 below, all notices, requests, demands, submissions and other communications required or permitted to be made to the Secretary of DEP and/or USEPA shall be made in writing and shall be deemed to have been duly given when delivered by hand, mailed first class or by private carrier with postage prepaid to the address(es) set forth below or to such other person or address as the Secretary of the Department of Environmental Protection may designate:

If to the DAQ:

Director
WVDEP
Division of Air Quality
601 57th Street SE
Charleston, WV 25304

Phone: 304/926-0475
FAX: 304/926-0478

If to the US EPA:

Associate Director

Office of Enforcement and Permits Review (3AP12)

U. S. Environmental Protection Agency
Region III
1650 Arch Street
Philadelphia, PA 19103-2029

3.5.4. **Certified emissions statement.** The permittee shall submit a certified emissions statement and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality.
[45CSR§30-8.]

Are you in compliance with all facility-wide applicable requirements? ☒ Yes ☐ No
If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

20. Facility-Wide Applicable Requirements – Part 2 *(Continued)* - *Attach additional pages as necessary.*

For all facility-wide applicable requirements listed above, provide monitoring/testing/recordkeeping/ reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

3.5.5. **Compliance certification.** The permittee shall certify compliance with the conditions of this permit on the forms provided by the DAQ. In addition to the annual compliance certification, the permittee may be required to submit certifications more frequently under an applicable requirement of this permit. The annual certification shall be submitted to the DAQ and USEPA on or before March 15 of each year, and shall certify compliance for the period ending December 31. The annual certification to the USEPA shall be submitted in electronic format only. It shall be submitted by e-mail to the following address: R3_APD_Permits@epa.gov. The permittee shall maintain a copy of the certification on site for five (5) years from submittal of the certification. **[45CSR§30-5.3.e.]**

3.5.6. **Semi-annual monitoring reports.** The permittee shall submit reports of any required monitoring on or before September 15 for the reporting period January 1 to June 30 and on or before March 15 for the reporting period July 1 to December 31. All instances of deviation from permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official consistent with 45CSR§30-4.4. **[45CSR§30-5.1.c.3.A.]**

3.5.7. **Emergencies.** For reporting emergency situations, refer to Section 2.17 of this permit.

3.5.8. **Deviations.**

a. In addition to monitoring reports required by this permit, the permittee shall promptly submit supplemental reports and notices in accordance with the following:

1. Any deviation resulting from an emergency or upset condition, as defined in 45CSR§30-5.7., shall be reported by telephone or telefax within one (1) working day of the date on which the permittee becomes aware of the deviation, if the permittee desires to assert the affirmative defense in accordance with 45CSR§30-5.7. A written report of such deviation, which shall include the probable cause of such deviations, and any corrective actions or preventative measures taken, shall be submitted and certified by a responsible official within ten (10) days of the deviation.

2. Any deviation that poses an imminent and substantial danger to public health, safety, or the environment shall be reported to the Secretary immediately by telephone or telefax. A written report of such deviation, which shall include the probable cause of such deviation, and any corrective actions or preventative measures taken, shall be submitted by the responsible official within ten (10) days of the deviation.

Are you in compliance with all facility-wide applicable requirements? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

20. Facility-Wide Applicable Requirements – Part 2 (Continued) - Attach additional pages as necessary.

For all facility-wide applicable requirements listed above, provide monitoring/testing/recordkeeping/ reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

3. Deviations for which more frequent reporting is required under this permit shall be reported on the more frequent basis.

4. All reports of deviations shall identify the probable cause of the deviation and any corrective actions or preventative measures taken.

[45CSR§30-5.1.c.3.C.]

b. The permittee shall, in the reporting of deviations from permit requirements, including those attributable to upset conditions as defined in this permit, report the probable cause of such deviations and any corrective actions or preventive measures taken in accordance with any rules of the Secretary.
[45CSR§30-5.1.c.3.B.]

3.5.9. **New applicable requirements.** If any applicable requirement is promulgated during the term of this permit, the permittee will meet such requirements on a timely basis, or in accordance with a more detailed schedule if required by the applicable requirement.
[45CSR§30-4.3.h.1.B.]

3.5.10. **45CSR21.** The permittee shall submit to the DAQ a plan for complete, facility-wide implementation of RACT requirements within one hundred eighty (180) days of notification by the Director that a violation of the National Ambient Air Quality Standards (NAAQS) for ozone (that were in effect on or before May 1, 1996) has occurred. Such plan shall include those sources listed in Appendix B as part of the site-wide control efficiency requirement and may contain an update of existing RACT analyses. Full implementation of such plan shall be completed within two (2) years of approval of the RACT plan by the Director.

Note: The Attachment A listing only for those sources in the Acrylic Resin Production Area is provided in Appendix B.

[45CSR13, R13-3223, 4.5.1; 45CSR§21-40.4.c.1 (State-Enforceable only)]

Are you in compliance with all facility-wide applicable requirements? ☒ Yes ☐ No

If no, complete the Schedule of Compliance Form as ATTACHMENT F.

20. Facility-Wide Applicable Requirements – Part 2 (Continued) - Attach additional pages as necessary.

For all facility-wide applicable requirements listed above, provide monitoring/testing/recordkeeping/ reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

3.5.11. **Greenhouse Gas Reporting Requirements**. When applicable, as determined in permit section 3.1., greenhouse gas emissions shall be reported pursuant to 45CSR§42-4. as follows:

a. In accordance with a reporting cycle provided by the Secretary, affected sources shall report to the Secretary the quantity of all greenhouse gases emitted above *de minimis* amounts in the years specified by the Secretary.
[45CSR§42-4.1., State-Enforceable only.]

b. Affected sources shall only be required to report annual quantities of anthropogenic non-mobile source greenhouse gases emitted at the stationary source, and shall not be required to report biogenic emissions of greenhouse gases.
[45CSR§42-4.2., State-Enforceable only.]

c. Reports of greenhouse gas emissions submitted to the Secretary under 45CSR§42-4. shall be signed by a responsible official and shall include the following certification statement: "I, the undersigned, hereby certify that the data transmitted to the West Virginia Department of Environmental Protection is true, accurate, and complete, based upon information and belief formed after reasonable inquiry.
[45CSR§42-4.5., State-Enforceable only.]

Are you in compliance with all facility-wide applicable requirements? ☒ **Yes** ☐ **No**

If no, complete the Schedule of Compliance Form as ATTACHMENT F.

21. Active Permits/Consent Orders		
Permit or Consent Order Number	Date of Issuance MM/DD/YYYY	List any Permit Determinations that Affect the Permit *(if any)*
R13-0181C	10/12/2005	
R13-3223	12/08/2014	
	/ /	
	/ /	
	/ /	
	/ /	
	/ /	
	/ /	
	/ /	
	/ /	
	/ /	
	/ /	

22. Inactive Permits/Obsolete Permit Conditions		
Permit Number	Date of Issuance	Permit Condition Number
	MM/DD/YYYY	
	/ /	
	/ /	
	/ /	
	/ /	
	/ /	
	/ /	
	/ /	
	/ /	
	/ /	

Section 3: Facility-Wide Emissions

23. Facility-Wide Emissions Summary [Tons per Year]	
Criteria Pollutants	Potential Emissions
Carbon Monoxide (CO)	0.0
Nitrogen Oxides (NO_X)	0.0
Lead (Pb)	0.0
Particulate Matter ($PM_{2.5}$)[1]	
Particulate Matter (PM_{10})[1]	12.25
Total Particulate Matter (TSP)	112.5
Sulfur Dioxide (SO_2)	0.0
Volatile Organic Compounds (VOC)	34.311
Hazardous Air Pollutants[2]	Potential Emissions
Methyl Methacrylate	25.241
Ethyl Acrylate	3.779
Acrylic Acid	0.0159
Regulated Pollutants other than Criteria and HAP	Potential Emissions

[1]$PM_{2.5}$ and PM_{10} are components of TSP.
[2]For HAPs that are also considered PM or VOCs, emissions should be included in both the HAPs section and the Criteria Pollutants section.

Section 4: Insignificant Activities

24. Insignificant Activities (Check all that apply)		
☒	1.	Air compressors and pneumatically operated equipment, including hand tools.
☒	2.	Air contaminant detectors or recorders, combustion controllers or shutoffs.
☒	3.	Any consumer product used in the same manner as in normal consumer use, provided the use results in a duration and frequency of exposure which are not greater than those experienced by consumer, and which may include, but not be limited to, personal use items; janitorial cleaning supplies, office supplies and supplies to maintain copying equipment.
☒	4.	Bathroom/toilet vent emissions.
☒	5.	Batteries and battery charging stations, except at battery manufacturing plants.
☐	6.	Bench-scale laboratory equipment used for physical or chemical analysis, but not lab fume hoods or vents. Many lab fume hoods or vents might qualify for treatment as insignificant (depending on the applicable SIP) or be grouped together for purposes of description.
☐	7.	Blacksmith forges.
☐	8.	Boiler water treatment operations, not including cooling towers.
☒	9.	Brazing, soldering or welding equipment used as an auxiliary to the principal equipment at the source.
☐	10.	CO_2 lasers, used only on metals and other materials which do not emit HAP in the process.
☒	11.	Combustion emissions from propulsion of mobile sources, except for vessel emissions from Outer Continental Shelf sources.
☒	12.	Combustion units designed and used exclusively for comfort heating that use liquid petroleum gas or natural gas as fuel.
☒	13.	Comfort air conditioning or ventilation systems not used to remove air contaminants generated by or released from specific units of equipment.
☐	14.	Demineralized water tanks and demineralizer vents.
☐	15.	Drop hammers or hydraulic presses for forging or metalworking.
☐	16.	Electric or steam-heated drying ovens and autoclaves, but not the emissions from the articles or substances being processed in the ovens or autoclaves or the boilers delivering the steam.
☐	17.	Emergency (backup) electrical generators at residential locations.
☐	18.	Emergency road flares.
☐	19.	Emission units which do not have any applicable requirements and which emit criteria pollutants (CO, NO_x, SO_2, VOC and PM) into the atmosphere at a rate of less than 1 pound per hour and less than 10,000 pounds per year aggregate total for each criteria pollutant from all emission units. Please specify all emission units for which this exemption applies along with the quantity of criteria pollutants emitted on an hourly and annual basis: _____ _____

24. Insignificant Activities (Check all that apply)		
☐	20.	Emission units which do not have any applicable requirements and which emit hazardous air pollutants into the atmosphere at a rate of less than 0.1 pounds per hour and less than 1,000 pounds per year aggregate total for all HAPs from all emission sources. This limitation cannot be used for any source which emits dioxin/furans nor for toxic air pollutants as per 45CSR27. Please specify all emission units for which this exemption applies along with the quantity of hazardous air pollutants emitted on an hourly and annual basis: _____ _____
☒	21.	Environmental chambers not using hazardous air pollutant (HAP) gases.
☒	22.	Equipment on the premises of industrial and manufacturing operations used solely for the purpose of preparing food for human consumption.
☐	23.	Equipment used exclusively to slaughter animals, but not including other equipment at slaughterhouses, such as rendering cookers, boilers, heating plants, incinerators, and electrical power generating equipment.
☒	24.	Equipment used for quality control/assurance or inspection purposes, including sampling equipment used to withdraw materials for analysis.
☒	25.	Equipment used for surface coating, painting, dipping or spray operations, except those that will emit VOC or HAP.
☐	26.	Fire suppression systems.
☒	27.	Firefighting equipment and the equipment used to train firefighters.
☐	28.	Flares used solely to indicate danger to the public.
☒	29.	Fugitive emission related to movement of passenger vehicle provided the emissions are not counted for applicability purposes and any required fugitive dust control plan or its equivalent is submitted.
☒	30.	Hand-held applicator equipment for hot melt adhesives with no VOC in the adhesive formulation.
☒	31.	Hand-held equipment for buffing, polishing, cutting, drilling, sawing, grinding, turning or machining wood, metal or plastic.
☐	32.	Humidity chambers.
☐	33.	Hydraulic and hydrostatic testing equipment.
☐	34.	Indoor or outdoor kerosene heaters.
☒	35.	Internal combustion engines used for landscaping purposes.
☐	36.	Laser trimmers using dust collection to prevent fugitive emissions.
☐	37.	Laundry activities, except for dry-cleaning and steam boilers.
☒	38.	Natural gas pressure regulator vents, excluding venting at oil and gas production facilities.
☐	39.	Oxygen scavenging (de-aeration) of water.
☐	40.	Ozone generators.

24. Insignificant Activities (Check all that apply)		
☒	41.	Plant maintenance and upkeep activities (e.g., grounds-keeping, general repairs, cleaning, painting, welding, plumbing, re-tarring roofs, installing insulation, and paving parking lots) provided these activities are not conducted as part of a manufacturing process, are not related to the source's primary business activity, and not otherwise triggering a permit modification. (Cleaning and painting activities qualify if they are not subject to VOC or HAP control requirements. Asphalt batch plant owners/operators must still get a permit if otherwise requested.)
☒	42.	Portable electrical generators that can be moved by hand from one location to another. "Moved by Hand" means that it can be moved without the assistance of any motorized or non-motorized vehicle, conveyance, or device.
☐	43.	Process water filtration systems and demineralizers.
☒	44.	Repair or maintenance shop activities not related to the source's primary business activity, not including emissions from surface coating or de-greasing (solvent metal cleaning) activities, and not otherwise triggering a permit modification.
☒	45.	Repairs or maintenance where no structural repairs are made and where no new air pollutant emitting facilities are installed or modified.
☒	46.	Routing calibration and maintenance of laboratory equipment or other analytical instruments.
☐	47.	Salt baths using nonvolatile salts that do not result in emissions of any regulated air pollutants. Shock chambers.
☐	48.	Shock chambers.
☐	49.	Solar simulators.
☒	50.	Space heaters operating by direct heat transfer.
☒	51.	Steam cleaning operations.
☒	52.	Steam leaks.
☐	53.	Steam sterilizers.
☒	54.	Steam vents and safety relief valves.
☐	55.	Storage tanks, reservoirs, and pumping and handling equipment of any size containing soaps, vegetable oil, grease, animal fat, and nonvolatile aqueous salt solutions, provided appropriate lids and covers are utilized.
☐	56.	Storage tanks, vessels, and containers holding or storing liquid substances that will not emit any VOC or HAP. Exemptions for storage tanks containing petroleum liquids or other volatile organic liquids should be based on size limits such as storage tank capacity and vapor pressure of liquids stored and are not appropriate for this list.
☐	57.	Such other sources or activities as the Director may determine.
☒	58.	Tobacco smoking rooms and areas.
☐	59.	Vents from continuous emissions monitors and other analyzers.

Section 5: Emission Units, Control Devices, and Emission Points

25. Equipment Table
Fill out the **Title V Equipment Table** and provide it as **ATTACHMENT D**.
26. Emission Units
For each emission unit listed in the **Title V Equipment Table**, fill out and provide an **Emission Unit Form** as **ATTACHMENT E**.
For each emission unit not in compliance with an applicable requirement, fill out a **Schedule of Compliance Form** as **ATTACHMENT F**.
27. Control Devices
For each control device listed in the **Title V Equipment Table**, fill out and provide an **Air Pollution Control Device Form** as **ATTACHMENT G**.
For any control device that is required on an emission unit in order to meet a standard or limitation for which the potential pre-control device emissions of an applicable regulated air pollutant is greater than or equal to the Title V Major Source Threshold Level, refer to the **Compliance Assurance Monitoring (CAM) Form(s)** for CAM applicability. Fill out and provide these forms, if applicable, for each Pollutant Specific Emission Unit (PSEU) as **ATTACHMENT H**.

Section 6: Certification of Information

28. Certification of Truth, Accuracy and Completeness and Certification of Compliance

*Note: This Certification must be signed by a responsible official. The **original**, signed in **blue ink**, must be submitted with the application. Applications without an **original** signed certification will be considered as incomplete.*

a. Certification of Truth, Accuracy and Completeness

I certify that I am a responsible official (as defined at 45CSR§30-2.38) and am accordingly authorized to make this submission on behalf of the owners or operators of the source described in this document and its attachments. I certify under penalty of law that I have personally examined and am familiar with the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine and/or imprisonment.

b. Compliance Certification

Except for requirements identified in the Title V Application for which compliance is not achieved, I, the undersigned hereby certify that, based on information and belief formed after reasonable inquiry, all air contaminant sources identified in this application are in compliance with all applicable requirements.

Responsible official (type or print)	
Name: Robert J. Fehrenbacher	Title: Plant Manager

Responsible official's signature:

Signature: _____ Signature Date: _____

(Must be signed and dated in blue ink)

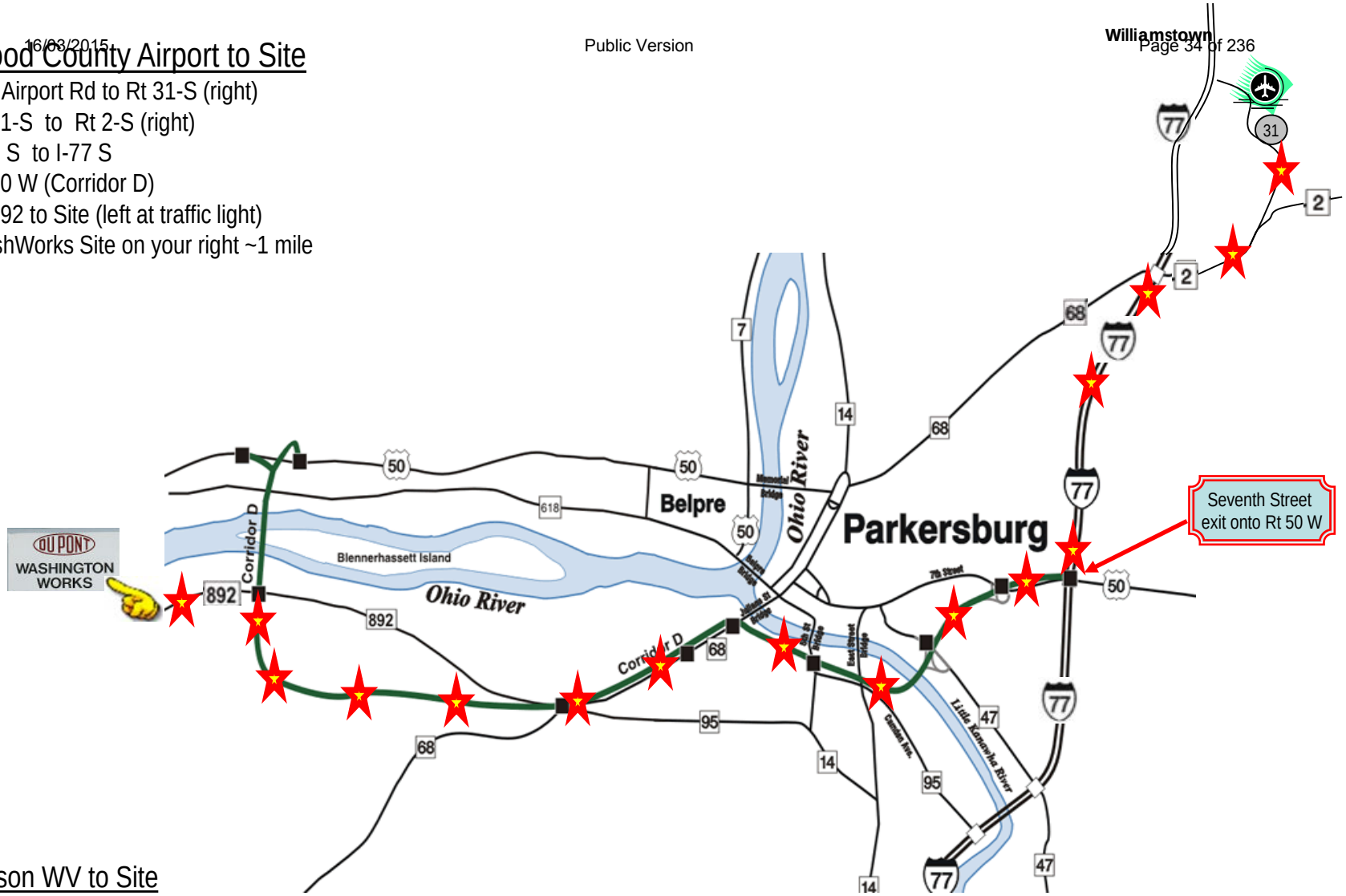
Note: Please check all applicable attachments included with this permit application:	
☒	ATTACHMENT A: Area Map
☒	ATTACHMENT B: Plot Plan(s)
☒	ATTACHMENT C: Process Flow Diagram(s)
☒	ATTACHMENT D: Equipment Table
☒	ATTACHMENT E: Emission Unit Form(s)
☒	ATTACHMENT F: Schedule of Compliance Form(s)
☒	ATTACHMENT G: Air Pollution Control Device Form(s)
☒	ATTACHMENT H: Compliance Assurance Monitoring (CAM) Form(s)

All of the required forms and additional information can be found and downloaded from, the DEP website at www.dep.wv.gov/daq, requested by phone (304) 926-0475, and/or obtained through the mail.

ATTACHMENT A – Map to Site Location

Wood County Airport to Site

Exit Airport Rd to Rt 31-S (right)
Rt 31-S to Rt 2-S (right)
Rt 2 S to I-77 S
Rt 50 W (Corridor D)
Rt 892 to Site (left at traffic light)
WashWorks Site on your right ~1 mile



Charleson WV to Site

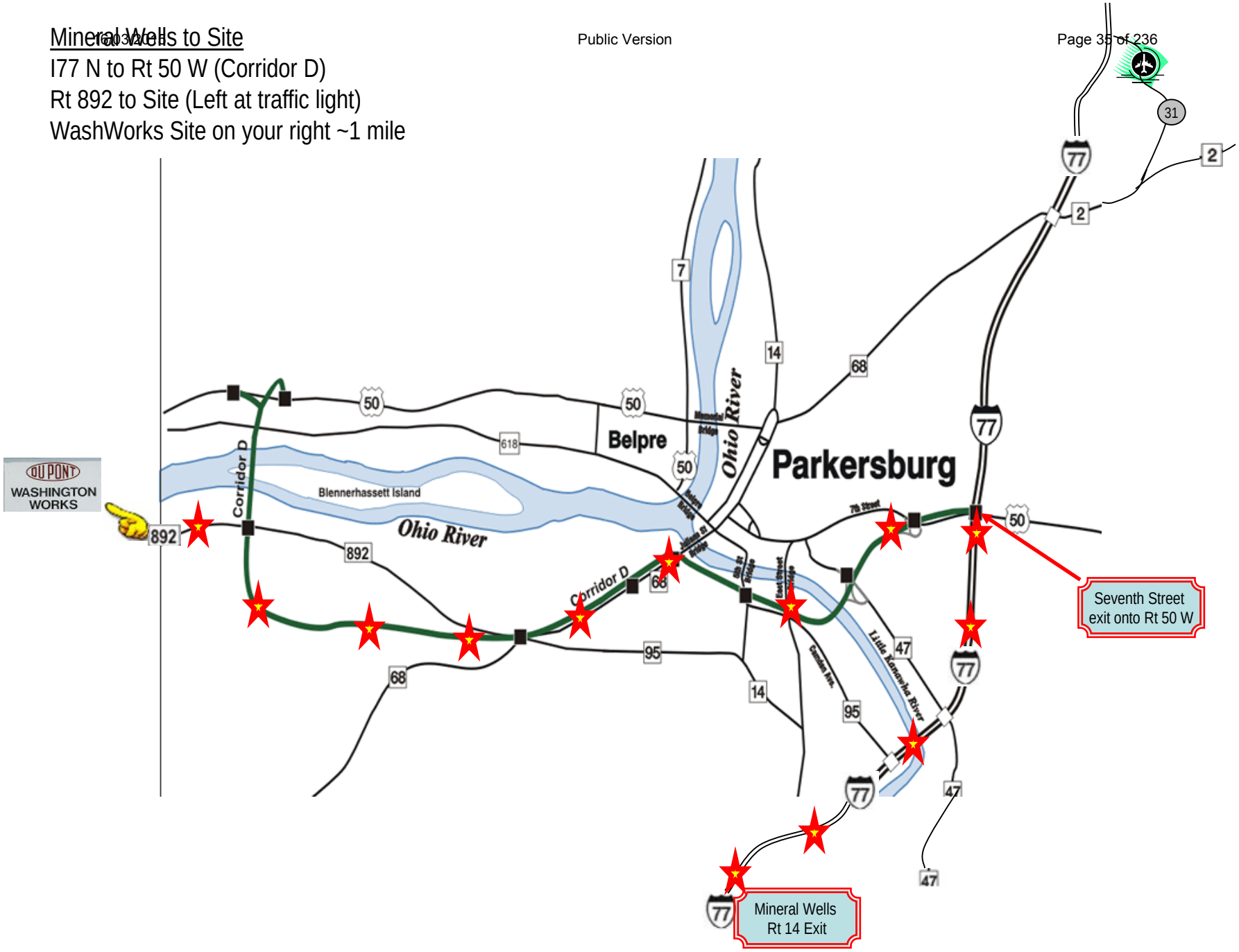
I-77 north from Charleston
Rt 50 W (Corridor D) take to Ohio
Rt 892 to Site (left at traffic light)
WashWorks Site on your right ~1 mile

Airport to Comfort Inn

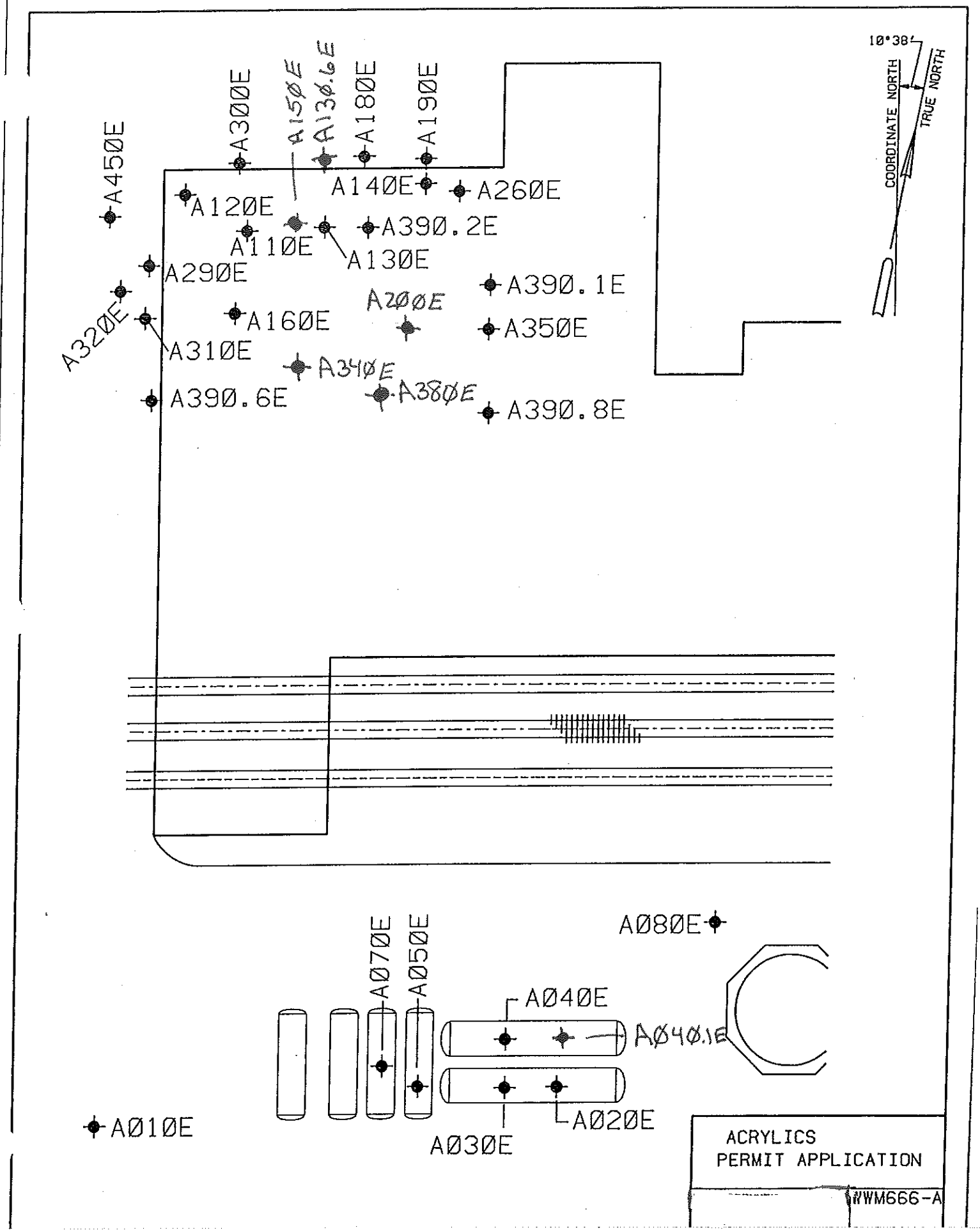
Exit Airport Rd to Rt 31-S (right)
Rt 31-S to Rt 2-S (right)
Rt 2 S to Rt 68 S (Emerson Avenue)
Follow Rt 68 S to Rt 14 N
Comfort Inn is on left (near Red Lobster)

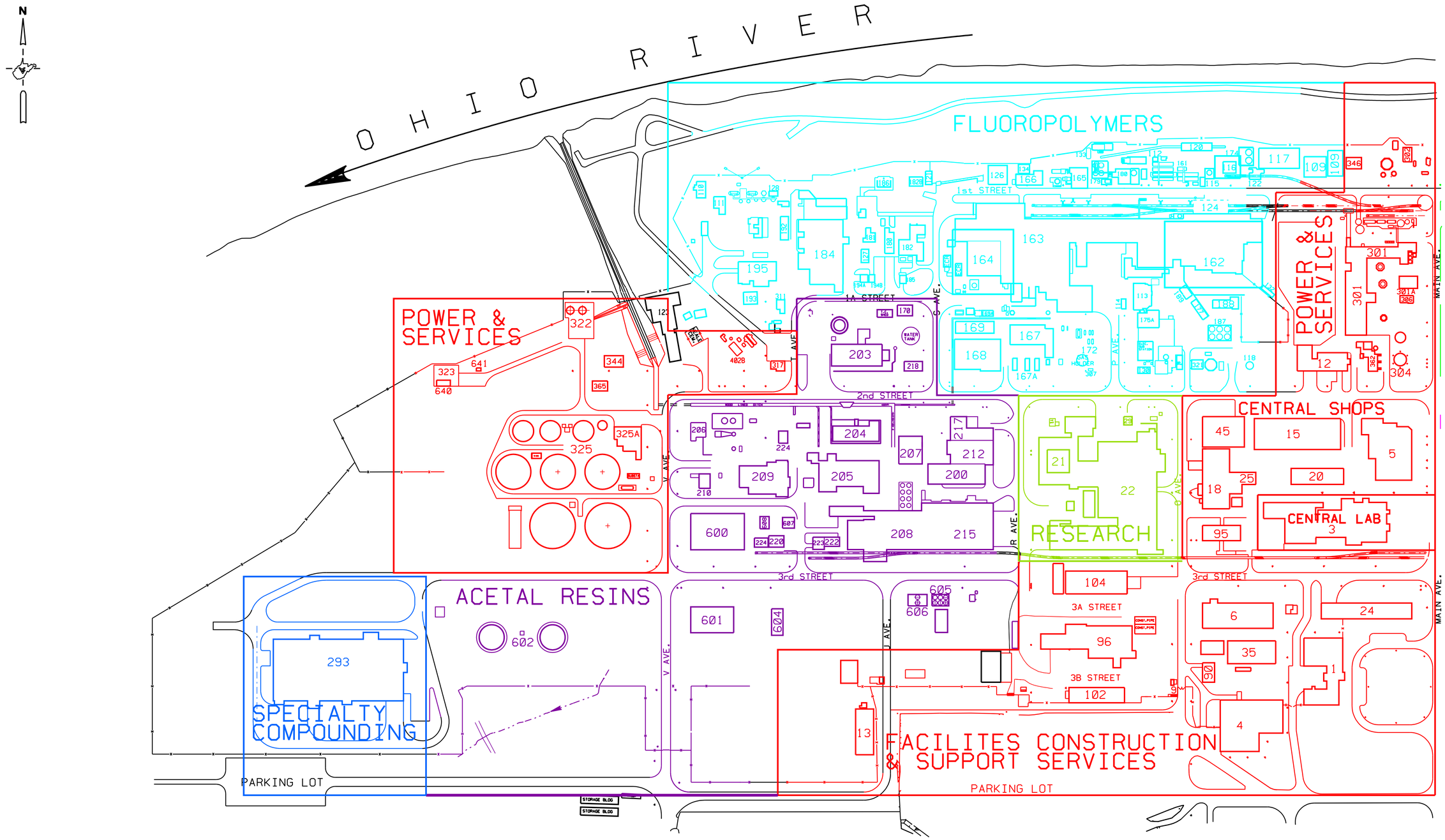
Mineral Wells to Site

I77 N to Rt 50 W (Corridor D)
Rt 892 to Site (Left at traffic light)
WashWorks Site on your right ~1 mile

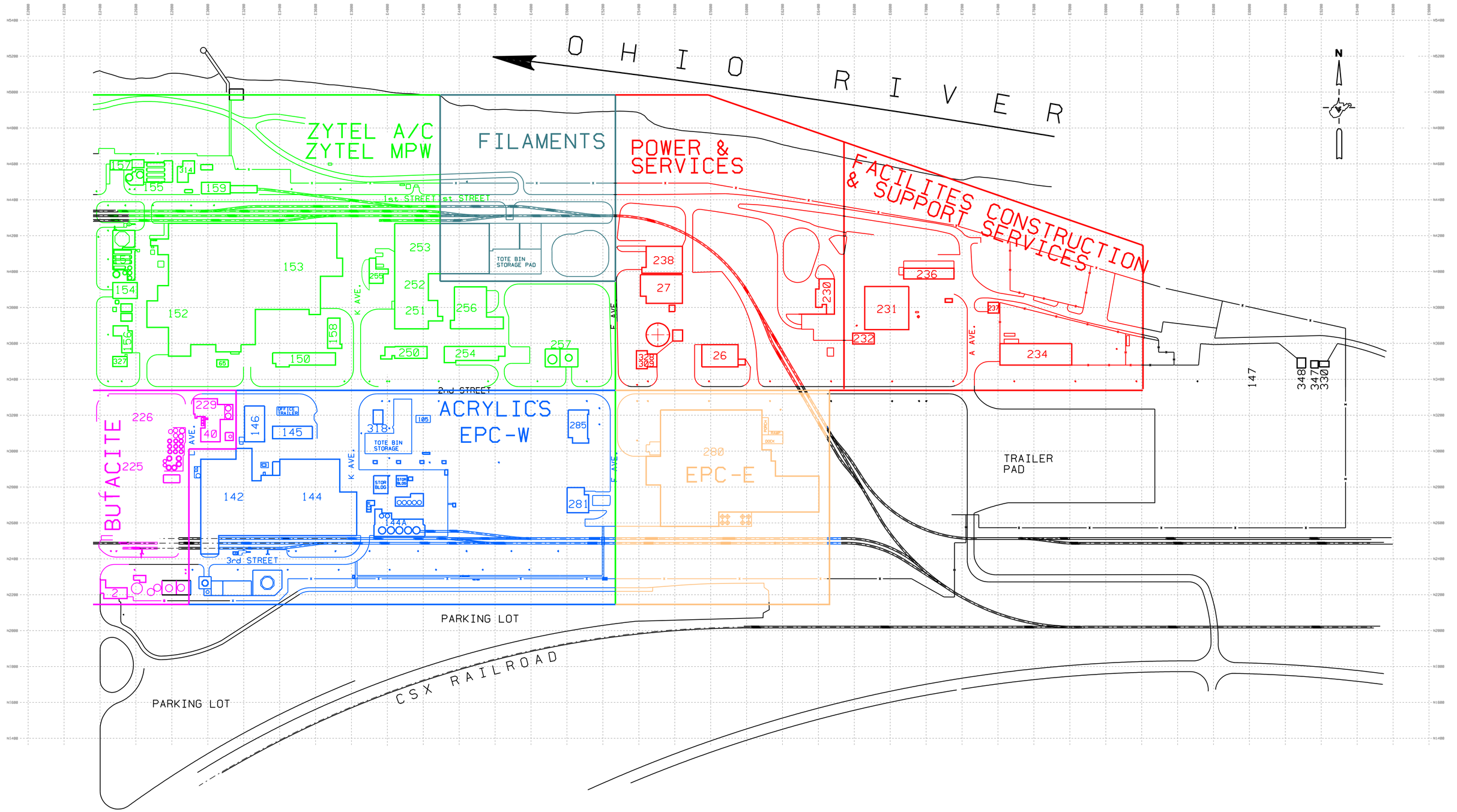


Attachment B – Site Location Maps


10°38'
COORDINATE NORTH
TRUE NORTH
A300E
A150E
A130.6E
A180E
A190E
A450E
A140E
A260E
A120E
A390.2E
A110E
A130E
A290E
A390.1E
A200E
A320E
A160E
A350E
A310E
A340E
A390.6E
A380E
A390.8E
A080E
A070E
A050E
A040E
A040.1E
A010E
A020E
A030E
ACRYLICS
PERMIT APPLICATION
WWM666-A



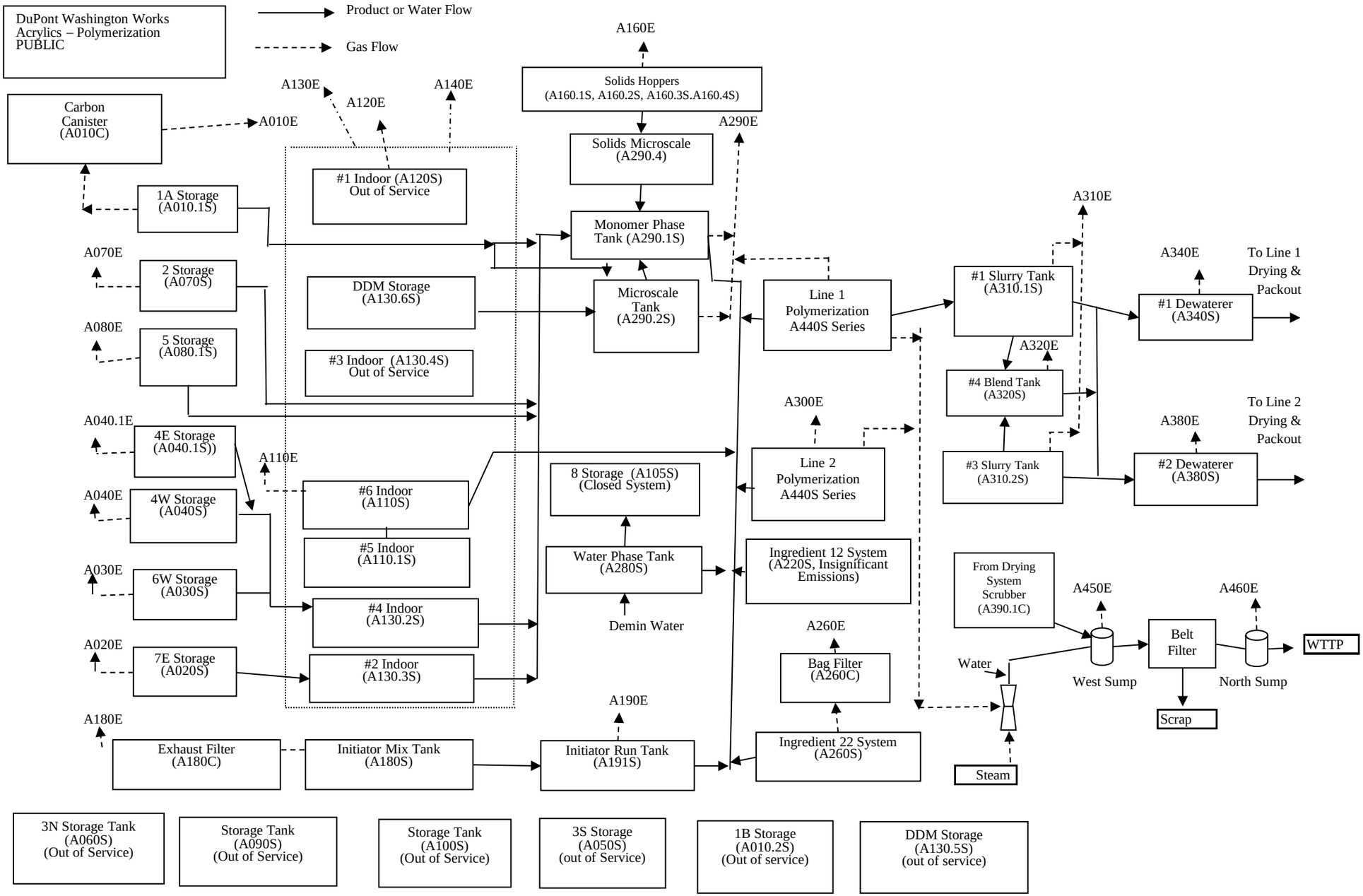
WASHINGTON WORKS TITLE 5 APPLICATION UPDATE C-1B			THIS DRAWING HAS BEEN FURNISHED BY E.I.DUPONT DE NEMOURS & CO. THE INFORMATION AND KNOW-HOW THEREON MAY NOT BE USED NOR THE DRAWING REPRODUCED WITHOUT THE WRITTEN PERMISSION OF DUPONT. ALL REPRODUCTIONS IN WHOLE OR IN PART, INCLUDING VENDOR'S SHOP DRAWINGS, SHALL BEAR OR REFER TO THIS STAMP. SCALE 1" = 300' DATE DRAWN BY JOE GASTON 11-29-01 UPDATED BY DAVE DRENNEN 12-5-01 CHECKED BY APPROVED BY
ELEC. CODE CLASS	WWJ NO.	FAA NUMBER	PROJ. NO.
WASHINGTON WORKS WW M-809			AR

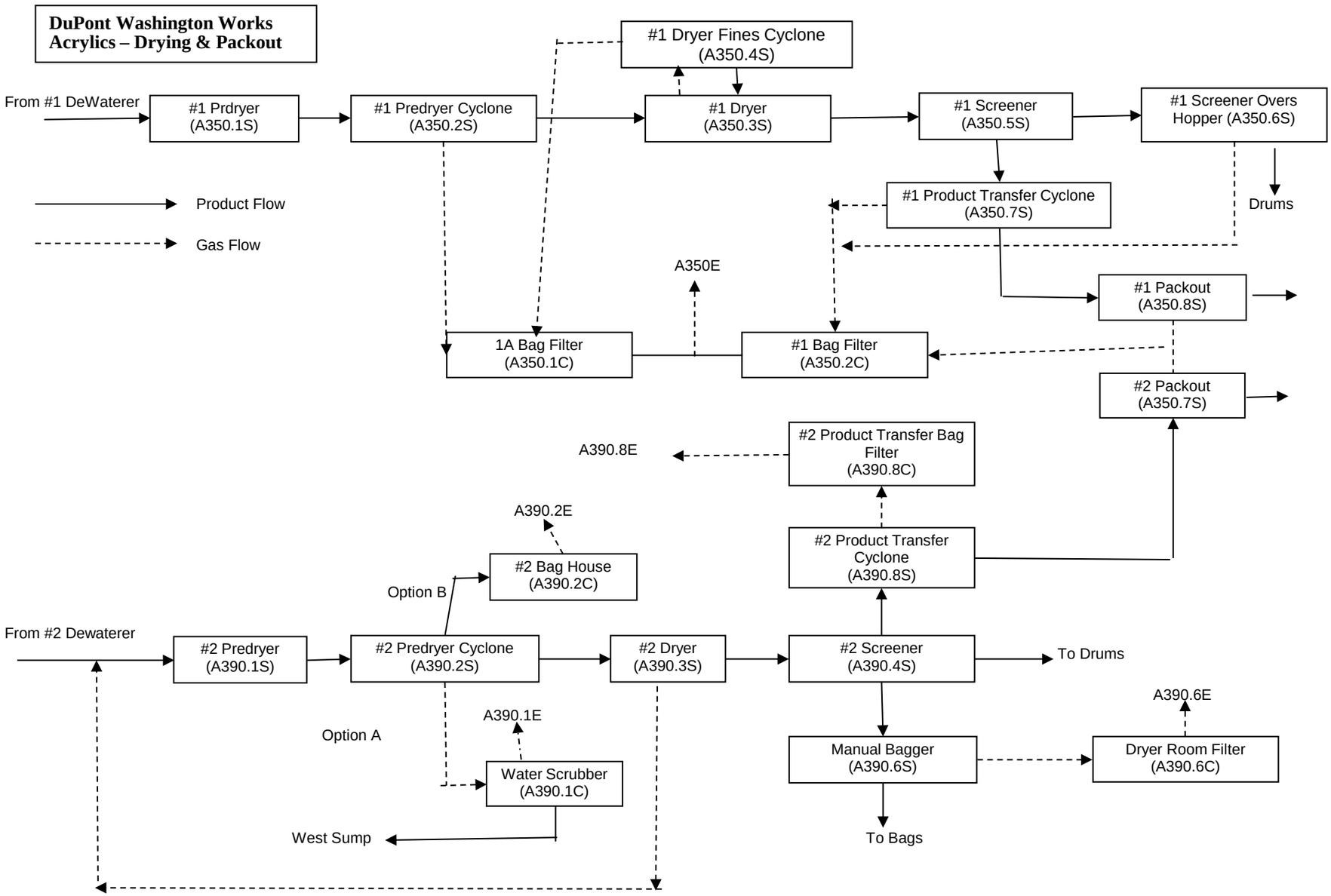


WASHINGTON WORKS TITLE 5 APPLICATION UPDATE C-2B			THIS DRAWING HAS BEEN FURNISHED BY E.I.DUPONT DE NEMOURS & CO. THE INFORMATION AND KNOW-HOW THEREON MAY NOT BE USED NOR THE DRAWING REPRODUCED WITHOUT THE WRITTEN PERMISSION OF DUPONT. ALL REPRODUCTIONS IN WHOLE OR IN PART, INCLUDING VENDOR'S SHOP DRAWINGS, SHALL BEAR OR REFER TO THIS STAMP.
			SCALE 1" = 300' DATE DRAWN BY JOE GASTON 11-29-01 UPDATED BY DAVE DRENNEN 12-5-01 CHECKED BY APPROVED BY
ELEC. CODE CLASS	WBJ NO.	FAA NUMBER	PROJ. NO.
WASHINGTON WORKS WW M-809			DF AR

INTERGRAPH COMPUTER DRAWING

Attachment C – Process Flow Diagrams


DuPont Washington Works
Acrylics – Polymerization
PUBLIC
Product or Water Flow
Gas Flow
Carbon Canister (A010C)
A010E
A130E
A120E
A140E
A160E
Solids Hoppers (A160.1S, A160.2S, A160.3S.A160.4S)
Solids Microscale (A290.4)
A290E
#1 Indoor (A120S) Out of Service
1A Storage (A010.1S)
Monomer Phase Tank (A290.1S)
A310E
A070E
2 Storage (A070S)
DDM Storage (A130.6S)
Microscale Tank (A290.2S)
Line 1 Polymerization A440S Series
#1 Slurry Tank (A310.1S)
A340E
To Line 1 Drying & Packout
#1 Dewaterer (A340S)
A080E
5 Storage (A080.1S)
#3 Indoor (A130.4S) Out of Service
A320E
#4 Blend Tank (A320S)
A300E
A040.1E
4E Storage (A040.1S))
A110E
A380E
To Line 2 Drying & Packout
#3 Slurry Tank (A310.2S)
#2 Dewaterer (A380S)
Line 2 Polymerization A440S Series
8 Storage (A105S) (Closed System)
A040E
4W Storage (A040S)
#6 Indoor (A110S)
#5 Indoor (A110.1S)
Water Phase Tank (A280S)
Ingredient 12 System (A220S, Insignificant Emissions)
From Drying System Scrubber (A390.1C)
A450E
A460E
A030E
6W Storage (A030S)
#4 Indoor (A130.2S)
Demin Water
A260E
Belt Filter
WTTP
A020E
7E Storage (A020S)
#2 Indoor (A130.3S)
Bag Filter (A260C)
Water
West Sump
North Sump
A190E
A180E
Exhaust Filter (A180C)
Initiator Mix Tank (A180S)
Initiator Run Tank (A191S)
Ingredient 22 System (A260S)
Scrap
Steam
3N Storage Tank (A060S) (Out of Service)
Storage Tank (A090S) (Out of Service)
Storage Tank (A100S) (Out of Service)
3S Storage (A050S) (out of Service)
1B Storage (A010.2S) (Out of service)
DDM Storage (A130.5S) (out of service)


DuPont Washington Works
Acrylics – Drying & Packout
#1 Dryer Fines Cyclone (A350.4S)
From #1 DeWaterer
#1 Prdryer (A350.1S)
#1 Predryer Cyclone (A350.2S)
#1 Dryer (A350.3S)
#1 Screener (A350.5S)
#1 Screener Overs Hopper (A350.6S)
Drums
Product Flow
Gas Flow
#1 Product Transfer Cyclone (A350.7S)
A350E
#1 Packout (A350.8S)
1A Bag Filter (A350.1C)
#1 Bag Filter (A350.2C)
#2 Packout (A350.7S)
A390.8E
#2 Product Transfer Bag Filter (A390.8C)
A390.2E
#2 Product Transfer Cyclone (A390.8S)
#2 Bag House (A390.2C)
Option B
From #2 Dewaterer
#2 Predryer (A390.1S)
#2 Predryer Cyclone (A390.2S)
#2 Dryer (A390.3S)
#2 Screener (A390.4S)
To Drums
A390.6E
A390.1E
Option A
Manual Bagger (A390.6S)
Dryer Room Filter (A390.6C)
Water Scrubber (A390.1C)
West Sump
To Bags

Attachment D – Emission Units Table

ATTACHMENT D - Emission Units Table

Emission Unit ID[1]	Emission Point ID[1]	Emission Unit Description	Year Installed/ Modified	Design Capacity	Control Device[1]
A010.1S	A010E	1A EA Storage Tank	1947	REDACTED	A010C
A020S	A020E	7E Storage Tank	1947	REDACTED	None
A030S	A030E	6W Storage Tank	1946	REDACTED	None
A040.1S	A040.1E	4E Storage Tank	1946	REDACTED	None
A040S	A040E	4W Storage Tank	1946	REDACTED	None
A070S	A070E	2 Storage Tank	1946	REDACTED	None
A080.1S	A080E	5 Storage Tank	1963	REDACTED	None
A110.1S	A110E	Indoor Storage Tank #5	1946	REDACTED	None
A110S	A110E	Indoor Storage Tank #6	1946	REDACTED	None
A130.2S	A130E/A140E	Indoor Storage Tank #4	1946	REDACTED	None
A130.3S	A130E/A140E	Indoor Storage Tank #2	1946	REDACTED	None
A130.6S	A130.6E	DDM Indoor Storage Tank	1946	REDACTED	None
A150S	A150E	Ingredient 10 Storage Tank	1946	REDACTED	None
A160.1S	A160E	Solids Storage Hopper	1968	REDACTED	None
A160.2S	A160E	Solids Storage Hopper	1968	REDACTED	None
A160.3S	A160E	Solids Storage Hopper	1968	REDACTED	None
A160.4S	A160E	Solids Storage Hopper	1968	REDACTED	None
A180S	A180E	Initiator Mix Tank	1980	REDACTED	A180C
A191S	A190E	Initiator Run Tank	1966	REDACTED	None
A220.1S	A200E	Ingredient 12 Hold Tank	1946	REDACTED	None
A220.2S	A200E	Ingredient 12 Make Tank	1946	REDACTED	None
A220S	A130E/A140E	Ingredient 12 Run Tank	1975	REDACTED	None
A260.1S	A200E	Ingredient 22 Mix Tank	1969	REDACTED	None
A260.2S	A200E	Ingredient 22 Storage Tank	1947	REDACTED	None
A260S	A260E	Ingredient 22 Storage Silo	1975	REDACTED	A260C
A280S	A290E	Water Phase Tank	1946	REDACTED	None
A290.1S	A290E	Monomer Phase Tank	1946	REDACTED	None
A290.2S	A290E	Micoscale Tank	1975	REDACTED	None
A290.4S	A160E	Solids Microscale Tank	1975	REDACTED	None
A300E	A300E	North Polykettle Room Exhaust	1947	REDACTED	None
A310.1S	A310E	#1 Slurry Tank	1958	REDACTED	None
A310.2S	A310E	#3 Slurry Tank	1965	REDACTED	None
A320S	A320E	#4 Blend Tank	1969	REDACTED	None
A340S	A340E	#1 Centrifuge	1946	REDACTED	None
A350.1S	A350E	#1 Predryer	1958	REDACTED	A350.1C
A350.2S	A350E	#1 Predryer Cyclone	1969	REDACTED	A350.1C
A350.3S	A350E	#1 Dryer	1947	REDACTED	A350.1C
A350.4S	A350E	#1 Dryer Fines Cyclone	1947	REDACTED	A350.1C
A350.5S	A350E	#1 Screener	1990	REDACTED	A350.2C
A350.6S	A350E	#1 Screener Overs Hopper	1991	REDACTED	A350.2C
A350.7S	A350E	#1 Product Transfer Cyclone	1969	REDACTED	A350.2C
A350.8S	A350E	#1 Packout	1968	REDACTED	A350.2C
A380S	A380E	#2 Centrifuge	1975	REDACTED	None
A390.1S	A390.1E/A390.2E	#2 Predryer	1975	REDACTED	A390.1C/A390.2C
A390.2S	A390.1E/A390.2E	#2 Predyer Cyclone	1975	REDACTED	A390.1C/A390.2C
A390.3S	A390.1E/A390.2E	#2 Dryer	1996	REDACTED	A390.1C/A390.2C
A390.4S	A390.8E	#2 Screener	2003	REDACTED	A390.8C
A390.6S	N/A	Manual Bagger	1975	REDACTED	A390.6C
A390.7S	A350E	#2 Packout	1969	REDACTED	A350.2C

ATTACHMENT D - Emission Units Table

Emission Unit ID[1]	Emission Point ID[1]	Emission Unit Description	Year Installed/ Modified	Design Capacity	Control Device[1]
A390.8S	A390.8E	#2 Product Transfer Cyclone	2003	REDACTED	A390.8C
A440.1S	A290E/A450E/A460E	#1 Polykettle	1975	REDACTED	None
A440.2S	A290E/A450E/A460E	#2 Polykettle	1975	REDACTED	None
A440.3S	A290E/A450E/A460E	#3 Polykettle	1975	REDACTED	None
A440.4S	A300E/A450E/A460E	#4Polykettle	1975	REDACTED	None
A440.5S	A300E/A450E/A460E	#5 Polykettle	2007	REDACTED	None
A470S	A470E	Acrylics Lab	1946	REDACTED	None
A900S	A900E	Metal Parts Degreaser	1999	REDACTED	None

Attachment E – Emission Units Data Sheets (EUDS)

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A010.1S	1A EA Storage Tank	A010C

Provide a description of the emission unit (type, method of operation, design parameters, etc.):

Horizontal bulk monomer storage tank located outside, vapors exiting conservation vent are directed to carbon canister

Manufacturer:	**Model number:**	**Serial number:**
Richmond Engineering	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1947	1947	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):

11896 Gallons

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A

Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	Abated emissions released at A110E are not to exceed 0.2	Abated emissions released at A110E are not to exceed 0.02

Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Ethyl Acrylate CAS# 140-88-5	Abated emissions released at A110E are not to exceed 0.17	Abated emissions released at A110E are not to exceed 0.011

Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Vapor emissions from tank are estimated using TANKS software version 4.0.9

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

See Attached List for all Applicable Requirements.

_X___ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitor per closed vent system requirements of MON MACT. Track the inventory turnover and calculate estimated emissions. Results of LDAR are reported semiannually in compliance with MON MACT. There are no testing requirements that apply to this unit.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A020S	7E Storage Tank	N/A

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Horizontal bulk monomer storage tank located outside, vapors exiting conservation vent are released to atmosphere

Manufacturer:	**Model number:**	**Serial number:**
Richmond Engineering	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1947	1947	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
15308 Gallons

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A

Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	2.50	0.040
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
Vapor emissions from tank are estimated using TANKS software version 4.0.9		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

Track the inventory turnover and calculate estimated emissions. There are no testing requirements that apply to this unit.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A030S	6W Storage Tank	N/A

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Horizontal bulk monomer storage tank located outside, vapors exiting conservation vent are released to atmosphere

Manufacturer:	**Model number:**	**Serial number:**
Richmond Engineering	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1946	1946	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
14100 Gallons

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A

Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	1.70	0.040
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
Vapor emissions from tank are estimated using TANKS software version 4.0.9		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

_X___ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

Track the inventory turnover and calculate estimated emissions. There are no testing requirements that apply to this unit.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A040.1S	4E Storage Tank	N/A

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Horizontal bulk monomer storage tank located outside, vapors exiting conservation vent are released to atmosphere

Manufacturer:	**Model number:**	**Serial number:**
Richmond Engineering	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1946	1946	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
15308 Gallons

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A
Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	1.70	0.040
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY

Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,

Vapor emissions from tank are estimated using TANKS software version 4.0.9

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

Track the inventory turnover and calculate estimated emissions. There are no testing requirements that apply to this unit.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A040S	4W Storage Tank	N/A

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Horizontal bulk monomer storage tank located outside, vapors exiting conservation vent are released to atmosphere

Manufacturer:	**Model number:**	**Serial number:**
Richmond Engineering	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1946	1946	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
14100 Gallons

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A

Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	1.70	0.040
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
Vapor emissions from tank are estimated using TANKS software version 4.0.9		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

Track the inventory turnover and calculate estimated emissions. There are no testing requirements that apply to this unit.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A070S	2 Storage Tank	N/A

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Horizontal bulk monomer storage tank located outside, vapors exiting conservation vent are released to atmosphere

Manufacturer:	**Model number:**	**Serial number:**
Richmond Engineering	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1948	1948	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
11896 Gallons

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A

Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	5.30	0.140
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
Vapor emissions from tank are estimated using TANKS software version 4.0.9		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

Track the inventory turnover and calculate estimated emissions. There are no testing requirements that apply to this unit.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A080.1S	5 Storage Tank	N/A

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical bulk monomer storage tank located outside, vapors exiting conservation vent are released to atmosphere

Manufacturer:	**Model number:**	**Serial number:**
Chicago Bridge & Iron Co.	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1963	1963	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
254003.8 Gallons

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A

Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	4.20	1.410

Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methyl Methacrylate, CAS# 80-62-6	4.16	1.408

Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,

Vapor emissions from tank are estimated using TANKS software version 4.0.9

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__x__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

Monitor per closed vent system requirements of MON MACT. Track the inventory turnover and calculate estimated emissions. Results of LDAR are reported semiannually in compliance with MON MACT. There are no testing requirements that apply to this unit.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A110.1S	Indoor Storage Tank #5	N/A

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Horizontal bulk monomer storage tank located inside, vapors exiting conservation vent are released to atmosphere

Manufacturer:	**Model number:**	**Serial number:**
DuPont	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1946	1946	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
2115.2 Gallons

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A
Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	0.10	0.010

Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY

Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,

Vapor emissions from tank are estimated using TANKS software version 4.0.9

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__x__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

Track the inventory turnover and calculate estimated emissions. There are no testing requirements that apply to this unit.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A110S	Indoor Storage Tank #6	N/A

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Horizontal bulk monomer storage tank located inside, vapors exiting conservation vent are released to atmosphere

Manufacturer:	**Model number:**	**Serial number:**
DuPont	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1946	1946	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
2115.2 Gallons

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A
Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	0.10	0.010
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
Vapor emissions from tank are estimated using TANKS software version 4.0.9		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__x__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

Track the inventory turnover and calculate estimated emissions. There are no testing requirements that apply to this unit.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A130.2S	Indoor Storage Tank #4	N/A

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Horizontal bulk monomer storage tank located inside, vapors exiting conservation vent are released to atmosphere

Manufacturer:	**Model number:**	**Serial number:**
DuPont	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1946	1946	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
2115.2 Gallons

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A

Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	Combined emissions from sources A130.2S, A130.3S, & A130.5S are not to exceed 1.5	Combined emissions from sources A130.2S, A130.3S, & A130.5S are not to exceed 0.1
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
Vapor emissions from tank are estimated using TANKS software version 4.0.9		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

_x___ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

Track the inventory turnover and calculate estimated emissions. There are no testing requirements that apply to this unit.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A130.3S	Indoor Storage Tank #2	N/A

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Horizontal bulk monomer storage tank located inside, vapors exiting conservation vent are released to atmosphere

Manufacturer:	**Model number:**	**Serial number:**
DuPont	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1946	1946	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
LT 1320 GALLONS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A

Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	Combined emissions from sources A130.2S, A130.3S, & A130.5S are not to exceed 1.5	Combined emissions from sources A130.2S, A130.3S, & A130.5S are not to exceed 0.1
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
Vapor emissions from tank are estimated using TANKS software version 4.0.9		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

_x___ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

Track the inventory turnover and calculate estimated emissions. There are no testing requirements that apply to this unit.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A130.6S	DDM Indoor Storage Tank	N/A

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical bulk liquid storage tank located inside, vapors exiting vent are released to atmosphere through vent A130.6E

Manufacturer:	**Model number:**	**Serial number:**
DuPont	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1975	1975	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
LT 1320 Gallons

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A

Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	Combined emissions from sources A130.2S, A130.3S, & A130.5S are not to exceed 1.5	Combined emissions from sources A130.2S, A130.3S, & A130.5S are not to exceed 0.1
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
Vapor emissions from tank are estimated using TANKS software version 4.0.9		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

___X_ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

Track the inventory turnover and calculate estimated emissions. There are no testing requirements that apply to this unit.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A150S	Ingredient 10 Storage Tank	N/A

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Horizontal bulk liquid storage tank located inside, vapors exiting conservation vent are released to atmosphere

Manufacturer:	**Model number:**	**Serial number:**
DuPont	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1946	1946	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
LT 1320 Gallons

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A

Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	Insignificant	Insignificant
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
Vapor emissions from tank are estimated using TANKS software version 4.0.9		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

None

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A160.1S	Solids Storage Hopper	N/A

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical bulk dry solids storage tank located inside building

Manufacturer:	**Model number:**	**Serial number:**
Butler MFG Co	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1968	1968	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
REDACTED

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A
Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})	1.3 (for combined sources A160.1S, A160.2S, A160.3S, & A160.4S)	0.0975 (for combined sources A160.1S, A160.2S, A160.3S, & A160.4S)
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)		

Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY

Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,

An Engineering estimate was conducted to calculate dust emissions from tank.

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

Monitoring shall be accomplished by performing a Visible Emissions check on the associated stack on a monthly basis. Visible emission checks shall be conducted by personnel trained in the practice and limitations of 40 C.F.R. 60, Appendix A, Method 22 during periods of normal operation for a sufficient time interval to determine if there is a visible emission. Records of these monthly visible emissions checks will be maintained. Records of maintenance on this equipment will be maintained in the electronic maintenance system. All records will be maintained for a period of five years. Monthly throughput and estimates PM10 emission calculations will be tracked and documented.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A160.2S	Solids Storage Hopper	N/A

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical bulk dry solids storage tank located inside building

Manufacturer:	**Model number:**	**Serial number:**
DuPont	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1968	1968	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
REDACTED

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A

Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})	1.3 (for combined sources A160.1S, A160.2S, A160.3S, & A160.4S)	0.0975 (for combined sources A160.1S, A160.2S, A160.3S, & A160.4S)
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)		

Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY

Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,

An Engineering estimate was conducted to calculate dust emissions from tank.

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

Monitoring shall be accomplished by performing a Visible Emissions check on the associated stack on a monthly basis. Visible emission checks shall be conducted by personnel trained in the practice and limitations of 40 C.F.R. 60, Appendix A, Method 22 during periods of normal operation for a sufficient time interval to determine if there is a visible emission. Records of these monthly visible emissions checks will be maintained. Records of maintenance on this equipment will be maintained in the electronic maintenance system. All records will be maintained for a period of five years. Monthly throughput and estimates PM10 emission calculations will be tracked and documented.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A160.3S	Solids Storage Hopper	N/A

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical bulk dry solids storage tank located inside building

Manufacturer:	**Model number:**	**Serial number:**
DuPont	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1968	1968	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
REDACTED

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A

Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})	1.3 (for combined sources A160.1S, A160.2S, A160.3S, & A160.4S)	0.0975 (for combined sources A160.1S, A160.2S, A160.3S, & A160.4S)
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)		

Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY

Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,

An Engineering estimate was conducted to calculate dust emissions from tank.

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

Monitoring shall be accomplished by performing a Visible Emissions check on the associated stack on a monthly basis. Visible emission checks shall be conducted by personnel trained in the practice and limitations of 40 C.F.R. 60, Appendix A, Method 22 during periods of normal operation for a sufficient time interval to determine if there is a visible emission. Records of these monthly visible emissions checks will be maintained. Records of maintenance on this equipment will be maintained in the electronic maintenance system. All records will be maintained for a period of five years.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A160.4S	Solids Storage Hopper	N/A

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical bulk dry solids storage tank located inside building

Manufacturer:	**Model number:**	**Serial number:**
DuPont	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1968	1968	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
REDACTED

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A

Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})	1.3 (for combined sources A160.1S, A160.2S, A160.3S, & A160.4S)	0.0975 (for combined sources A160.1S, A160.2S, A160.3S, & A160.4S)
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)		

Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY

Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,

An Engineering estimate was conducted to calculate dust emissions from tank.

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

Monitoring shall be accomplished by performing a Visible Emissions check on the associated stack on a monthly basis. Visible emission checks shall be conducted by personnel trained in the practice and limitations of 40 C.F.R. 60, Appendix A, Method 22 during periods of normal operation for a sufficient time interval to determine if there is a visible emission. Records of these monthly visible emissions checks will be maintained. Records of maintenance on this equipment will be maintained in the electronic maintenance system. All records will be maintained for a period of five years. Monthly throughput and estimates PM10 emission calculations will be tracked and documented.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A180S	Initiator Mix Tank	A180C

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical storage tank located within the building, water vapors exiting vent are released to atmosphere vent outside building

Manufacturer:	**Model number:**	**Serial number:**
Industrial Alloy Tank Fabricators	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1980	1980	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
LT 1320 Gallons

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A

Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)	0.25	0.14
Particulate Matter (PM_{10})		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
N/A		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
Engineering estimate based upon process knowledge		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

___X_ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

There are no testing or monitoring requirements associated with this unit.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A191S	Initiator Run Tank	N/A

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical storage tank located within the building, water vapors exiting vent are released to atmosphere

Manufacturer:	**Model number:**	**Serial number:**
Perry Products Co	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1966	1966	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
1983.6 Gallons

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A
Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
N/A		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
Engineering estimate based upon process knowledge		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

There are no testing or monitoring requirements associated with this unit.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A220.1S	Ingredient 12 Hold Tank	A200E

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical liquid storage tank located inside building

Manufacturer:	**Model number:**	**Serial number:**
DuPont	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1946	1946	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
LT 1320 Gallons

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	730 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A

Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	Insignificant	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
An Engineering estimate was conducted to calculate emissions from tank.		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

None

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A220.2S	Ingredient 12 Make Tank	A200E

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical tank located inside building

Manufacturer:	**Model number:**	**Serial number:**
Steel & Alloy Tank Co.	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1946	1946	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
LT 1320 Gallons

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	4380 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A

Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	Insignificant	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
An Engineering estimate was conducted to calculate emissions from tank.		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

None

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A220S	Ingredient 12 Storage Tank	A130E/A140E

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Horizontal liquid storage tank located inside building

Manufacturer:	**Model number:**	**Serial number:**
Industrial Alloy Fabricators Inc.	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1975	1975	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
2178 Gallons

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A
Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	Insignificant	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
An Engineering estimate was conducted to calculate emissions from tank.		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

None

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A260S	Ingredient 22 Storage Silo	A260C

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical bulk solid storage silo located outside with dust abated by A260C

Manufacturer:	**Model number:**	**Serial number:**
Butler MFG Co.	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1975	1975	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
REDACTED

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A

Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})	0.6	0.01
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,

An Engineering estimate was conducted to calculate dust emissions from tank.

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

Vent from the tank must be directed to the control device, any malfunction must be logged. Monitoring shall be accomplished by performing a Visible Emissions check on the associated stack on a monthly basis. Visible emission checks shall be conducted by personnel trained in the practice and limitations of 40 C.F.R. 60, Appendix A, Method 22 during periods of normal operation for a sufficient time interval to determine if there is a visible emission. Records of these monthly visible emissions checks will be maintained. Records of maintenance on this equipment will be maintained in the electronic maintenance system. All records will be maintained for a period of five years. Monthly throughput and estimates PM10 emission calculations will be tracked and documented.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A260.2S	Ingredient 22 Run Tank	N/A

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Horizontal liquid storage tank located inside building

Manufacturer:	**Model number:**	**Serial number:**
Central Fabricators Inc.	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1947	1947	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
LT 1320 Gallons

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A
Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	Insignificant	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
An Engineering estimate was conducted to calculate emissions from tank.		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

None

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A260S	Ingredient 22 Storage Silo	A260C

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical bulk solid storage silo located outside with dust abated by A260C

Manufacturer:	**Model number:**	**Serial number:**
Butler MFG Co.	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1975	1975	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
REDACTED

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A

Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})	0.6	0.01
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
An Engineering estimate was conducted to calculate dust emissions from tank.		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

Vent from the tank must be directed to the control device, any malfunction must be logged. Monitoring shall be accomplished by performing a Visible Emissions check on the associated stack on a monthly basis. Visible emission checks shall be conducted by personnel trained in the practice and limitations of 40 C.F.R. 60, Appendix A, Method 22 during periods of normal operation for a sufficient time interval to determine if there is a visible emission. Records of these monthly visible emissions checks will be maintained. Records of maintenance on this equipment will be maintained in the electronic maintenance system. All records will be maintained for a period of five years. Monthly throughput and estimates PM10 emission calculations will be tracked and documented.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A280S	Water Phase Tank	None

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical Liquid Weigh-up Tank

Manufacturer:	**Model number:**	**Serial number:**
Pennsylvania Eng Co	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1946	1946	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
LT 1320 Gallons

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	6570 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A

Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	Insignificant	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
An Engineering estimate was conducted to calculate emissions from tank.		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

None

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A290.1S	Monomer Phase Tank	None

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical Liquid Weigh-up Tank

Manufacturer:	**Model number:**	**Serial number:**
Pennsylvania Eng Co	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1946	1946	2005

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
LT 1320 Gallons

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	6570 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A

Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	0.87	2.180
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methyl Methacrylate, CAS# 80-62-6	0.62	1.540
Ethyl Acrylate CAS# 140-88-5	0.13	0.320
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Acrylic acid	0.01	0.016
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
An Engineering estimate was conducted to calculate emissions from tank.		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

___X_ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

The cumulative number of batches per hour is monitored and administrative controls are used to insure that no more than 4 batches per hour are produced, R13-181A Condition A.1. The total number of batches produced per month is tracked and used as the basis for calculated emissions. There are no testing requirements.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A290.2S	Micoscale Tank	None

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical Liquid Weigh-up Tank

Manufacturer:	**Model number:**	**Serial number:**
DuPont	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1975	1975	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
LT 1320 Gallons

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	3000 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A

Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	Insignificant	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
An Engineering estimate was conducted to calculate emissions from tank.		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

None

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A290.4S	Microscale Solids Hopper	N/A

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical bulk dry solids weigh-up tank located inside building

Manufacturer:	**Model number:**	**Serial number:**
DuPont	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1975	1975	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
REDACTED

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A

Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})	Insignificant	
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
An Engineering estimate was conducted to calculate dust emissions from tank.		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

None

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A300E	North Polykettle Room Exhaust	None

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Room Exhaust

Manufacturer:	**Model number:**	**Serial number:**
N/A	N/A	N/A
Construction date:	**Installation date:**	**Modification date(s):**
1947	1947	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
REDACTED

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A
Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	Combined from sources A440.4S & A440.5S not to exceed 0.6	Combined from sources A440.4S & A440.5S not to exceed 1.36
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methyl Methacrylate, CAS# 80-62-6	Combined from sources A440.4S & A440.5S not to exceed 0.41	Combined from sources A440.4S & A440.5S not to exceed 1.025
Ethyl Acrylate CAS# 140-88-5	Combined from sources A440.4S & A440.5S not to exceed 0.06	Combined from sources A440.4S & A440.5S not to exceed 0.134
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Acrylic acid	Combined from sources A440.4S & A440.5S not to exceed 0.01	Combined from sources A440.4S & A440.5S not to exceed 0.001

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,

An Engineering estimate was conducted to calculate emissions from tank.

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

The cumulative number of batches per hour is monitored and administrative controls are used to insure that no more than 4 batches per hour are produced, R13-181A Condition A.1. The total number of batches produced per month is tracked and used as the basis for calculated emissions. There are no testing requirements.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A310.1S	#1 Slurry Tank	None

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical liquid storage tank located within the building

Manufacturer:	**Model number:**	**Serial number:**
Joseph Oat & Sons Co.	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1958	1958	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
2000 Gallons

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A

Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	Combined emissions from sources A310.1S & A310.2S emitted at point A310E not to exceed 0.3	Combined emissions from sources A310.1S & A310.2S emitted at point A310E not to exceed 0.72
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methyl Methacrylate, CAS# 80-62-6	Combined emissions from sources A310.1S & A310.2S emitted at point A310E not to exceed 0.18	Combined emissions from sources A310.1S & A310.2S emitted at point A310E not to exceed 0.441
Ethyl Acrylate CAS# 140-88-5	Combined emissions from sources A310.1S & A310.2S emitted at point A310E not to exceed 0.03	Combined emissions from sources A310.1S & A310.2S emitted at point A310E not to exceed 0.06
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Acrylic acid	Combined emissions from sources A310.1S & A310.2S emitted at point A310E not to exceed 0.01	Combined emissions from sources A310.1S & A310.2S emitted at point A310E not to exceed 0.001
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
An Engineering estimate was conducted to calculate emissions from tank.		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

The cumulative number of batches per hour is monitored and administrative controls are used to insure that no more than 4 batches per hour are produced, R13-181A Condition A.1. The total number of batches produced per month is tracked and used as the basis for calculated emissions. There are no testing requirements.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A310.2S	#3 Slurry Tank	None

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical liquid storage tank located within the building

Manufacturer:	**Model number:**	**Serial number:**
Missouri Boiler & Tank Co.	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1965	1965	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
2000 Gallons

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A

Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	Combined emissions from sources A310.1S & A310.2S emitted at point A310E not to exceed 0.3	Combined emissions from sources A310.1S & A310.2S emitted at point A310E not to exceed 0.72
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methyl Methacrylate, CAS# 80-62-6	Combined emissions from sources A310.1S & A310.2S emitted at point A310E not to exceed 0.18	Combined emissions from sources A310.1S & A310.2S emitted at point A310E not to exceed 0.441
Ethyl Acrylate CAS# 140-88-5	Combined emissions from sources A310.1S & A310.2S emitted at point A310E not to exceed 0.03	Combined emissions from sources A310.1S & A310.2S emitted at point A310E not to exceed 0.06
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Acrylic acid	Combined emissions from sources A310.1S & A310.2S emitted at point A310E not to exceed 0.01	Combined emissions from sources A310.1S & A310.2S emitted at point A310E not to exceed 0.001
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
An Engineering estimate was conducted to calculate emissions from tank.		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

The cumulative number of batches per hour is monitored and administrative controls are used to insure that no more than 4 batches per hour are produced, R13-181A Condition A.1. The total number of batches produced per month is tracked and used as the basis for calculated emissions. There are no testing requirements.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A320S	#4 Blend Tank	None

Provide a description of the emission unit (type, method of operation, design parameters, etc.):

Manufacturer:	**Model number:**	**Serial number:**
Superior Welding	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1969	1969	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):

14796 Gallons

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A

Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	0.20	0.360
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methyl Methacrylate, CAS# 80-62-6	0.09	0.221
Ethyl Acrylate CAS# 140-88-5	0.02	0.030
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Acrylic acid	0.01	0.001

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,

An Engineering estimate was conducted to calculate emissions from tank.

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

The cumulative number of batches per hour is monitored and administrative controls are used to insure that no more than 4 batches per hour are produced, R13-181A Condition A.1. The total number of batches produced per month is tracked and used as the basis for calculated emissions. There are no testing requirements.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A340S	#1 Centrifuge	None

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Solids - Liquids Separator

Manufacturer:	**Model number:**	**Serial number:**
Bird Machine	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1946	1946	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
REDACTED

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A

Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})	Insignificant	
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,

An Engineering estimate was conducted to calculate emissions from this unit.

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

None

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A350.1S	#1 Predryer	A350.1C

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Pneumatic Flash Dryer

Manufacturer:	**Model number:**	**Serial number:**
DuPont	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1958	1958	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
REDACTED

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A

Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})	Combined emissions from sources A350.1S to A350.8S as abated by control devices A350.1C & A350.2C not to exceed 1.8	Combined emissions from sources A350.1S to A350.8S as abated by control devices A350.1C & A350.2C not to exceed 4.36
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	Combined emissions from sources A350.1S to A350.8S not to exceed 0.1	Combined emissions from sources A350.1S to A350.8S not to exceed 0.13
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methyl Methacrylate, CAS# 80-62-6	Combined emissions from sources A350.1S to A350.8S not to exceed 0.02	Combined emissions from sources A350.1S to A350.8S not to exceed 0.042
Ethyl Acrylate CAS# 140-88-5	Combined emissions from sources A350.1S to A350.8S not to exceed 0.01	Combined emissions from sources A350.1S to A350.8S not to exceed 0.024
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Acrylic acid	Combined emissions from sources A350.1S to A350.8S not to exceed 0.01	Combined emissions from sources A350.1S to A350.8S not to exceed 0.001
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
An Engineering estimate was conducted to calculate emissions from this unit.		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

_X___ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

Vent from system must be directed to the control device. Monitoring shall be accomplished by performing a Visible Emissions check on the associated stack on a monthly basis. Visible emission checks shall be conducted by personnel trained in the practice and limitations of 40 C.F.R. 60, Appendix A, Method 22 during periods of normal operation for a sufficient time interval to determine if there is a visible emission. Records of these monthly visible emissions checks will be maintained. Records of maintenance on this equipment will be maintained in the electronic maintenance system. All records will be maintained for a period of five years. Monthly throughput and estimates PM10 emission calculations will be tracked and documented.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A350.2S	#1 Predryer Cyclone	A350.1C

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Cyclone to separate and recover particles

Manufacturer:	**Model number:**	**Serial number:**
Circleville Metal Works	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1969	1969	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
REDACTED

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A

Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})	Combined emissions from sources A350.1S to A350.8S as abated by control devices A350.1C & A350.2C not to exceed 1.8	Combined emissions from sources A350.1S to A350.8S as abated by control devices A350.1C & A350.2C not to exceed 4.36
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	Combined emissions from sources A350.1S to A350.8S not to exceed 0.1	Combined emissions from sources A350.1S to A350.8S not to exceed 0.13
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methyl Methacrylate, CAS# 80-62-6	Combined emissions from sources A350.1S to A350.8S not to exceed 0.02	Combined emissions from sources A350.1S to A350.8S not to exceed 0.042
Ethyl Acrylate CAS# 140-88-5	Combined emissions from sources A350.1S to A350.8S not to exceed 0.01	Combined emissions from sources A350.1S to A350.8S not to exceed 0.024
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Acrylic acid	Combined emissions from sources A350.1S to A350.8S not to exceed 0.01	Combined emissions from sources A350.1S to A350.8S not to exceed 0.001
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
An Engineering estimate was conducted to calculate emissions from this unit.		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

Vent from system must be directed to the control device. Monitoring shall be accomplished by performing a Visible Emissions check on the associated stack on a monthly basis. Visible emission checks shall be conducted by personnel trained in the practice and limitations of 40 C.F.R. 60, Appendix A, Method 22 during periods of normal operation for a sufficient time interval to determine if there is a visible emission. Records of these monthly visible emissions checks will be maintained. Records of maintenance on this equipment will be maintained in the electronic maintenance system. All records will be maintained for a period of five years. Monthly throughput and estimates PM10 emission calculations will be tracked and documented.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A350.3S	#1 Dryer	A350.1C

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Rotary Kiln Dryer

Manufacturer:	**Model number:**	**Serial number:**
CO Bartlett & Snow Co.	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1947	1947	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
REDACTED

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A

Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})	Combined emissions from sources A350.1S to A350.8S as abated by control devices A350.1C & A350.2C not to exceed 1.8	Combined emissions from sources A350.1S to A350.8S as abated by control devices A350.1C & A350.2C not to exceed 4.36
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	Combined emissions from sources A350.1S to A350.8S not to exceed 0.1	Combined emissions from sources A350.1S to A350.8S not to exceed 0.13
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methyl Methacrylate, CAS# 80-62-6	Combined emissions from sources A350.1S to A350.8S not to exceed 0.02	Combined emissions from sources A350.1S to A350.8S not to exceed 0.042
Ethyl Acrylate CAS# 140-88-5	Combined emissions from sources A350.1S to A350.8S not to exceed 0.01	Combined emissions from sources A350.1S to A350.8S not to exceed 0.024
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Acrylic acid	Combined emissions from sources A350.1S to A350.8S not to exceed 0.01	Combined emissions from sources A350.1S to A350.8S not to exceed 0.001
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
An Engineering estimate was conducted to calculate emissions from this unit.		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

Vent from system must be directed to the control device. Monitoring shall be accomplished by performing a Visible Emissions check on the associated stack on a monthly basis. Visible emission checks shall be conducted by personnel trained in the practice and limitations of 40 C.F.R. 60, Appendix A, Method 22 during periods of normal operation for a sufficient time interval to determine if there is a visible emission. Records of these monthly visible emissions checks will be maintained. Records of maintenance on this equipment will be maintained in the electronic maintenance system. All records will be maintained for a period of five years. Monthly throughput and estimates PM10 emission calculations will be tracked and documented.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A350.4S	#1 Dryer Fines Cyclone	A350.1C

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Cyclone to separate and recover fines

Manufacturer:	**Model number:**	**Serial number:**
DuPont	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1947	1947	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
REDACTED

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A

Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})	Combined emissions from sources A350.1S to A350.8S as abated by control devices A350.1C & A350.2C not to exceed 1.8	Combined emissions from sources A350.1S to A350.8S as abated by control devices A350.1C & A350.2C not to exceed 4.36
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	Combined emissions from sources A350.1S to A350.8S not to exceed 0.1	Combined emissions from sources A350.1S to A350.8S not to exceed 0.13
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methyl Methacrylate, CAS# 80-62-6	Combined emissions from sources A350.1S to A350.8S not to exceed 0.02	Combined emissions from sources A350.1S to A350.8S not to exceed 0.042
Ethyl Acrylate CAS# 140-88-5	Combined emissions from sources A350.1S to A350.8S not to exceed 0.01	Combined emissions from sources A350.1S to A350.8S not to exceed 0.024
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Acrylic acid	Combined emissions from sources A350.1S to A350.8S not to exceed 0.01	Combined emissions from sources A350.1S to A350.8S not to exceed 0.001
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
An Engineering estimate was conducted to calculate emissions from this unit.		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

Vent from system must be directed to the control device. Monitoring shall be accomplished by performing a Visible Emissions check on the associated stack on a monthly basis. Visible emission checks shall be conducted by personnel trained in the practice and limitations of 40 C.F.R. 60, Appendix A, Method 22 during periods of normal operation for a sufficient time interval to determine if there is a visible emission. Records of these monthly visible emissions checks will be maintained. Records of maintenance on this equipment will be maintained in the electronic maintenance system. All records will be maintained for a period of five years. Monthly throughput and estimates PM10 emission calculations will be tracked and documented.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A350.5S	#1 Screener	A350.2C

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Dry screener to remove undesired particle size

Manufacturer:	**Model number:**	**Serial number:**
Rotex	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1990	1990	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
REDACTED

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A

Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})	Combined emissions from sources A350.1S to A350.8S as abated by control devices A350.1C & A350.2C not to exceed 1.8	Combined emissions from sources A350.1S to A350.8S as abated by control devices A350.1C & A350.2C not to exceed 4.36
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	Combined emissions from sources A350.1S to A350.8S not to exceed 0.1	Combined emissions from sources A350.1S to A350.8S not to exceed 0.13
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methyl Methacrylate, CAS# 80-62-6	Combined emissions from sources A350.1S to A350.8S not to exceed 0.02	Combined emissions from sources A350.1S to A350.8S not to exceed 0.042
Ethyl Acrylate CAS# 140-88-5	Combined emissions from sources A350.1S to A350.8S not to exceed 0.01	Combined emissions from sources A350.1S to A350.8S not to exceed 0.024
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Acrylic acid	Combined emissions from sources A350.1S to A350.8S not to exceed 0.01	Combined emissions from sources A350.1S to A350.8S not to exceed 0.001
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
An Engineering estimate was conducted to calculate emissions from this unit.		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

Vent from system must be directed to the control device. Monitoring shall be accomplished by performing a Visible Emissions check on the associated stack on a monthly basis. Visible emission checks shall be conducted by personnel trained in the practice and limitations of 40 C.F.R. 60, Appendix A, Method 22 during periods of normal operation for a sufficient time interval to determine if there is a visible emission. Records of these monthly visible emissions checks will be maintained. Records of maintenance on this equipment will be maintained in the electronic maintenance system. All records will be maintained for a period of five years. Monthly throughput and estimates PM10 emission calculations will be tracked and documented.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission unit ID number:	Emission unit name:	List any control devices associated with this emission unit:
Emission unit ID number: A350.6S	Emission unit name: #1 Screener Overs Hopper	List any control devices associated with this A350.2C

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Storage silo collecting material removed by screener

Manufacturer:	Model number:	Serial number:
DuPont	N/A	N/A
Construction date:	**Installation date:**	**Modification date(s):**
1991	1991	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
REDACTED

Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	If yes, is it fired direct or indirect?
NO	N/A
Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})	Combined emissions from sources A350.1S to A350.8S as abated by control devices A350.1C & A350.2C not to exceed 1.8	Combined emissions from sources A350.1S to A350.8S as abated by control devices A350.1C & A350.2C not to exceed 4.36
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	Combined emissions from sources A350.1S to A350.8S not to exceed 0.1	Combined emissions from sources A350.1S to A350.8S not to exceed 0.13
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methyl Methacrylate, CAS# 80-62-6	Combined emissions from sources A350.1S to A350.8S not to exceed 0.02	Combined emissions from sources A350.1S to A350.8S not to exceed 0.042
Ethyl Acrylate CAS# 140-88-5	Combined emissions from sources A350.1S to A350.8S not to exceed 0.01	Combined emissions from sources A350.1S to A350.8S not to exceed 0.024
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Acrylic acid	Combined emissions from sources A350.1S to A350.8S not to exceed 0.01	Combined emissions from sources A350.1S to A350.8S not to exceed 0.001
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
An Engineering estimate was conducted to calculate emissions from this unit.		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

Vent from system must be directed to the control device. Monitoring shall be accomplished by performing a Visible Emissions check on the associated stack on a monthly basis. Visible emission checks shall be conducted by personnel trained in the practice and limitations of 40 C.F.R. 60, Appendix A, Method 22 during periods of normal operation for a sufficient time interval to determine if there is a visible emission. Records of these monthly visible emissions checks will be maintained. Records of maintenance on this equipment will be maintained in the electronic maintenance system. All records will be maintained for a period of five years. Monthly throughput and estimates PM10 emission calculations will be tracked and documented.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission unit ID number:	Emission unit name:	List any control devices associated with this emission unit:
Emission unit ID number: A350.7S	Emission unit name: #1 Product Transfer Cyclone	List any control devices associated with this A350.2C

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Cyclone separating and recovering solids

Manufacturer:	Model number:	Serial number:
	N/A	N/A

Construction date:	Installation date:	Modification date(s):
1969	1969	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
REDACTED

Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	If yes, is it fired direct or indirect?
NO	N/A
Maximum design heat input and/or maximum horsepower rating: N/A	**Type and Btu/hr rating of burners:** N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})	Combined emissions from sources A350.1S to A350.8S as abated by control devices A350.1C & A350.2C not to exceed 1.8	Combined emissions from sources A350.1S to A350.8S as abated by control devices A350.1C & A350.2C not to exceed 4.36
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	Combined emissions from sources A350.1S to A350.8S not to exceed 0.1	Combined emissions from sources A350.1S to A350.8S not to exceed 0.13
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methyl Methacrylate, CAS# 80-62-6	Combined emissions from sources A350.1S to A350.8S not to exceed 0.02	Combined emissions from sources A350.1S to A350.8S not to exceed 0.042
Ethyl Acrylate CAS# 140-88-5	Combined emissions from sources A350.1S to A350.8S not to exceed 0.01	Combined emissions from sources A350.1S to A350.8S not to exceed 0.024
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Acrylic acid	Combined emissions from sources A350.1S to A350.8S not to exceed 0.01	Combined emissions from sources A350.1S to A350.8S not to exceed 0.001
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
An Engineering estimate was conducted to calculate emissions from this unit.		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

_X___ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

Vent from system must be directed to the control device. Monitoring shall be accomplished by performing a Visible Emissions check on the associated stack on a monthly basis. Visible emission checks shall be conducted by personnel trained in the practice and limitations of 40 C.F.R. 60, Appendix A, Method 22 during periods of normal operation for a sufficient time interval to determine if there is a visible emission. Records of these monthly visible emissions checks will be maintained. Records of maintenance on this equipment will be maintained in the electronic maintenance system. All records will be maintained for a period of five years. Monthly throughput and estimates PM10 emission calculations will be tracked and documented.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A350.8S	#1 Packout	A350.2C

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Packaging Operation

Manufacturer:	**Model number:**	**Serial number:**
DuPont	N/A	N/A
Construction date:	**Installation date:**	**Modification date(s):**
1968	1968	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
REDACTED

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A
Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})	Combined emissions from sources A350.1S to A350.8S as abated by control devices A350.1C & A350.2C not to exceed 1.8	Combined emissions from sources A350.1S to A350.8S as abated by control devices A350.1C & A350.2C not to exceed 4.36
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	Combined emissions from sources A350.1S to A350.8S not to exceed 0.1	Combined emissions from sources A350.1S to A350.8S not to exceed 0.13
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methyl Methacrylate, CAS# 80-62-6	Combined emissions from sources A350.1S to A350.8S not to exceed 0.02	Combined emissions from sources A350.1S to A350.8S not to exceed 0.042
Ethyl Acrylate CAS# 140-88-5	Combined emissions from sources A350.1S to A350.8S not to exceed 0.01	Combined emissions from sources A350.1S to A350.8S not to exceed 0.024
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Acrylic acid	Combined emissions from sources A350.1S to A350.8S not to exceed 0.01	Combined emissions from sources A350.1S to A350.8S not to exceed 0.001
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
An Engineering estimate was conducted to calculate emissions from this unit.		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

Vent from system must be directed to the control device. Monitoring shall be accomplished by performing a Visible Emissions check on the associated stack on a monthly basis. Visible emission checks shall be conducted by personnel trained in the practice and limitations of 40 C.F.R. 60, Appendix A, Method 22 during periods of normal operation for a sufficient time interval to determine if there is a visible emission. Records of these monthly visible emissions checks will be maintained. Records of maintenance on this equipment will be maintained in the electronic maintenance system. All records will be maintained for a period of five years. Monthly throughput and estimates PM10 emission calculations will be tracked and documented.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A380S	#2 Centrifuge	None

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Solids - Liquids Separator

Manufacturer:	**Model number:**	**Serial number:**
Sharples Pennwalt	P3400	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1975	1975	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
REDACTED

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A

Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})	Insignificant	
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
An Engineering estimate was conducted to calculate emissions from this unit.		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

None

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A390.1S	#2 Predryer	A390.1C or A390.2C

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Pneumatic Flash Dryer

Manufacturer:	**Model number:**	**Serial number:**
DuPont	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1975	1975	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
REDACTED

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A

Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})	Combined emissions from sources A390.1S to A390.3S as abated by control device A390.1C or A390.2C not to exceed 1.1	Combined emissions from sources A390.1S to A390.3S as abated by control device A390.1C or A390.2C not to exceed 3.84
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	Combined emissions from sources A390.1S to A390.3S exiting through A390.1C or A390.2C not to exceed 0.1	Combined emissions from sources A390.1S to A390.3S exiting through A390.1C or A390.2C not to exceed 0.09

Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methyl Methacrylate, CAS# 80-62-6	Combined emissions from sources A390.1S to A390.3S exiting through A390.1C or A390.2C not to exceed 0.01	Combined emissions from sources A390.1S to A390.3S exiting through A390.1C or A390.2C not to exceed 0.027
Ethyl Acrylate CAS# 140-88-5	Combined emissions from sources A390.1S to A390.3S exiting through A390.1C or A390.2C not to exceed 0.01	Combined emissions from sources A390.1S to A390.3S exiting through A390.1C or A390.2C not to exceed 0.016

Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Acrylic acid	Combined emissions from sources A390.1S to A390.3S exiting through A390.1C or A390.2C not to exceed 0.01	Combined emissions from sources A390.1S to A390.3S exiting through A390.1C or A390.2C not to exceed 0.001

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,

An Engineering estimate was conducted to calculate emissions from this unit.

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

Vent from system must be directed to the control device. Monitoring shall be accomplished by performing a Visible Emissions check on the associated stack on a monthly basis. Visible emission checks shall be conducted by personnel trained in the practice and limitations of 40 C.F.R. 60, Appendix A, Method 22 during periods of normal operation for a sufficient time interval to determine if there is a visible emission. Records of these monthly visible emissions checks will be maintained. Records of maintenance on this equipment will be maintained in the electronic maintenance system. All records will be maintained for a period of five years. Monthly throughput and estimates PM10 emission calculations will be tracked and documented.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A390.2S	#2 Predryer Cyclone	A390.1C or A390.2C

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Cyclone to separate and recover particles

Manufacturer:	**Model number:**	**Serial number:**
Morris Co.	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1975	1975	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
REDACTED

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A

Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})	Combined emissions from sources A390.1S to A390.3S as abated by control device A390.1C or A390.2C not to exceed 1.1	Combined emissions from sources A390.1S to A390.3S as abated by control device A390.1C or A390.2C not to exceed 3.84
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	Combined emissions from sources A390.1S to A390.3S exiting through A390.1C or A390.2C not to exceed 0.1	Combined emissions from sources A390.1S to A390.3S exiting through A390.1C or A390.2C not to exceed 0.09

Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methyl Methacrylate, CAS# 80-62-6	Combined emissions from sources A390.1S to A390.3S exiting through A390.1C or A390.2C not to exceed 0.01	Combined emissions from sources A390.1S to A390.3S exiting through A390.1C or A390.2C not to exceed 0.027
Ethyl Acrylate CAS# 140-88-5	Combined emissions from sources A390.1S to A390.3S exiting through A390.1C or A390.2C not to exceed 0.01	Combined emissions from sources A390.1S to A390.3S exiting through A390.1C or A390.2C not to exceed 0.016

Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Acrylic acid	Combined emissions from sources A390.1S to A390.3S exiting through A390.1C or A390.2C not to exceed 0.01	Combined emissions from sources A390.1S to A390.3S exiting through A390.1C or A390.2C not to exceed 0.001

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,

An Engineering estimate was conducted to calculate emissions from this unit.

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

Vent from system must be directed to the control device. Monitoring shall be accomplished by performing a Visible Emissions check on the associated stack on a monthly basis. Visible emission checks shall be conducted by personnel trained in the practice and limitations of 40 C.F.R. 60, Appendix A, Method 22 during periods of normal operation for a sufficient time interval to determine if there is a visible emission. Records of these monthly visible emissions checks will be maintained. Records of maintenance on this equipment will be maintained in the electronic maintenance system. All records will be maintained for a period of five years. Monthly throughput and estimates PM10 emission calculations will be tracked and documented.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A390.3S	#2 Dryer	A390.1C or A390.2C

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Rotary Kiln Dryer

Manufacturer:	**Model number:**	**Serial number:**
CO Bartlett & Snow Co.	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1996	1996	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
REDACTED

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A

Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})	Combined emissions from sources A390.1S to A390.3S as abated by control device A390.1C or A390.2C not to exceed 1.1	Combined emissions from sources A390.1S to A390.3S as abated by control device A390.1C or A390.2C not to exceed 3.84
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	Combined emissions from sources A390.1S to A390.3S exiting through A390.1C or A390.2C not to exceed 0.1	Combined emissions from sources A390.1S to A390.3S exiting through A390.1C or A390.2C not to exceed 0.09

Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methyl Methacrylate, CAS# 80-62-6	Combined emissions from sources A390.1S to A390.3S exiting through A390.1C or A390.2C not to exceed 0.01	Combined emissions from sources A390.1S to A390.3S exiting through A390.1C or A390.2C not to exceed 0.027
Ethyl Acrylate CAS# 140-88-5	Combined emissions from sources A390.1S to A390.3S exiting through A390.1C or A390.2C not to exceed 0.01	Combined emissions from sources A390.1S to A390.3S exiting through A390.1C or A390.2C not to exceed 0.016

Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Acrylic acid	Combined emissions from sources A390.1S to A390.3S exiting through A390.1C or A390.2C not to exceed 0.01	Combined emissions from sources A390.1S to A390.3S exiting through A390.1C or A390.2C not to exceed 0.001

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,

An Engineering estimate was conducted to calculate emissions from this unit.

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

Vent from system must be directed to the control device. Monitoring shall be accomplished by performing a Visible Emissions check on the associated stack on a monthly basis. Visible emission checks shall be conducted by personnel trained in the practice and limitations of 40 C.F.R. 60, Appendix A, Method 22 during periods of normal operation for a sufficient time interval to determine if there is a visible emission. Records of these monthly visible emissions checks will be maintained. Records of maintenance on this equipment will be maintained in the electronic maintenance system. All records will be maintained for a period of five years. Monthly throughput and estimates PM10 emission calculations will be tracked and documented.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A390.4S	#2 Screener	A390.8C

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Dry screener to remove undesired particle size

Manufacturer:	**Model number:**	**Serial number:**
Minox	N/A	N/A
Construction date:	**Installation date:**	**Modification date(s):**
2003	2003	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
REDACTED

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A
Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})	Abated vent exiting A390.8C must not exceed 0.1	Abated vent exiting A390.8C must not exceed 0.13
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
An Engineering estimate was conducted to calculate emissions from this unit.		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

Vent from system must be directed to the control device. Monitoring shall be accomplished by performing a Visible Emissions check on the associated stack on a monthly basis. Visible emission checks shall be conducted by personnel trained in the practice and limitations of 40 C.F.R. 60, Appendix A, Method 22 during periods of normal operation for a sufficient time interval to determine if there is a visible emission. Records of these monthly visible emissions checks will be maintained. Records of maintenance on this equipment will be maintained in the electronic maintenance system. All records will be maintained for a period of five years. Monthly throughput and estimates PM10 emission calculations will be tracked and documented.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A390.6S	Manual Bagger	A390.6C

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Bagging Machine, Inside Building

Manufacturer:	**Model number:**	**Serial number:**
Arcopak Bagger	N/A	N/A
Construction date:	**Installation date:**	**Modification date(s):**
1975	1975	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
REDACTED

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A
Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})	Total abated emissions exiting control device A200-6C are not to exceed 0.012	Total abated emissions exiting control device
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,

An Engineering estimate was conducted to calculate emissions from this unit.

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

Vent over packout system must be directed to control device A390.6C. On an once per shift basis the effectiveness of the room dust control system is determined and the filters in the system replaced as needed to control room dust.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A390.7S	#2 Packout	A350.2C

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Packaging Operation

Manufacturer:	**Model number:**	**Serial number:**
DuPont	N/A	N/A
Construction date:	**Installation date:**	**Modification date(s):**
1969	1969	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
REDACTED

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A
Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})	Combined emissions from sources A350.1S to A350.8S as abated by control devices A350.1C & A350.2C not to exceed 1.8	Combined emissions from sources A350.1S to A350.8S as abated by control devices A350.1C & A350.2C not to exceed 4.36
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	Combined emissions from sources A350.1S to A350.8S not to exceed 0.1	Combined emissions from sources A350.1S to A350.8S not to exceed 0.13
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methyl Methacrylate, CAS# 80-62-6	Combined emissions from sources A350.1S to A350.8S not to exceed 0.02	Combined emissions from sources A350.1S to A350.8S not to exceed 0.042
Ethyl Acrylate CAS# 140-88-5	Combined emissions from sources A350.1S to A350.8S not to exceed 0.01	Combined emissions from sources A350.1S to A350.8S not to exceed 0.024
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Acrylic acid	Combined emissions from sources A350.1S to A350.8S not to exceed 0.01	Combined emissions from sources A350.1S to A350.8S not to exceed 0.001
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
An Engineering estimate was conducted to calculate emissions from this unit.		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

Vent from system must be directed to the control device. Monitoring shall be accomplished by performing a Visible Emissions check on the associated stack on a monthly basis. Visible emission checks shall be conducted by personnel trained in the practice and limitations of 40 C.F.R. 60, Appendix A, Method 22 during periods of normal operation for a sufficient time interval to determine if there is a visible emission. Records of these monthly visible emissions checks will be maintained. Records of maintenance on this equipment will be maintained in the electronic maintenance system. All records will be maintained for a period of five years. Monthly throughput and estimates PM10 emission calculations will be tracked and documented.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A390.8S	#2 Product Transfer Cyclone	A390.8C

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Cyclone to separate and recover particles

Manufacturer:	**Model number:**	**Serial number:**
	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
2003	2003	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
REDACTED

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A

Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})	Abated vent exiting A390.8C must not exceed 0.1	Abated vent exiting A390.8C must not exceed 0.13
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
An Engineering estimate was conducted to calculate emissions from this unit.		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

_X___ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

Vent from system must be directed to the control device. Monitoring shall be accomplished by performing a Visible Emissions check on the associated stack on a monthly basis. Visible emission checks shall be conducted by personnel trained in the practice and limitations of 40 C.F.R. 60, Appendix A, Method 22 during periods of normal operation for a sufficient time interval to determine if there is a visible emission. Records of these monthly visible emissions checks will be maintained. Records of maintenance on this equipment will be maintained in the electronic maintenance system. All records will be maintained for a period of five years. Monthly throughput and estimates PM10 emission calculations will be tracked and documented.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A440.1S	#1 Polykettle	None

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Polymerization Reactor

Manufacturer:	**Model number:**	**Serial number:**
Brighton Co.	N/A	N/A
Construction date:	**Installation date:**	**Modification date(s):**
1975	1975	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
REDACTED

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A
Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	Emission for this item are reported as part of point A450E	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
	Emission for this item are reported as part of point A450E	
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
	Emission for this item are reported as part of point A450E	
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
An Engineering estimate was conducted to calculate emissions from this unit.		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

___X_ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

The cumulative number of batches per hour is monitored and administrative controls are used to insure that no more than 4 batches per hour are produced, R13-181A Condition A.1. The total number of batches produced per month is tracked and used as the basis for calculated emissions. System is to be pressure tested after each line break per LDAR requirements.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A440.2S	#2 Polykettle	None

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Polymerization Reactor

Manufacturer:	**Model number:**	**Serial number:**
Brighton Co.	N/A	N/A
Construction date:	**Installation date:**	**Modification date(s):**
1975	1975	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
REDACTED

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A
Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	Emission for this item are reported as part of point A450E	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
	Emission for this item are reported as part of point A450E	
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
	Emission for this item are reported as part of point A450E	
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
An Engineering estimate was conducted to calculate emissions from this unit.		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

The cumulative number of batches per hour is monitored and administrative controls are used to insure that no more than 4 batches per hour are produced, R13-181A Condition A.1. The total number of batches produced per month is tracked and used as the basis for calculated emissions. System is to be pressure tested after each line break per LDAR requirements.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A440.3S	#3 Polykettle	None

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Polymerization Reactor

Manufacturer:	**Model number:**	**Serial number:**
Downington Iron Works	N/A	N/A
Construction date:	**Installation date:**	**Modification date(s):**
1975	1975	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
REDACTED

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A
Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	Emission for this item are reported as part of point A450E	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
	Emission for this item are reported as part of point A450E	
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
	Emission for this item are reported as part of point A450E	
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
An Engineering estimate was conducted to calculate emissions from this unit.		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

The cumulative number of batches per hour is monitored and administrative controls are used to insure that no more than 4 batches per hour are produced, R13-181A Condition A.1. The total number of batches produced per month is tracked and used as the basis for calculated emissions. System is to be pressure tested after each line break per LDAR requirements.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A440.4S	#4 Polykettle	None

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Polymerization Reactor

Manufacturer:	**Model number:**	**Serial number:**
General Ionics Co.	N/A	N/A
Construction date:	**Installation date:**	**Modification date(s):**
1975	1975	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
REDACTED

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A
Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	Emission for this item are reported as part of points A300E & A450E	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
	Emission for this item are reported as part of points A300E & A450E	
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
	Emission for this item are reported as part of points A300E & A450E	
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
An Engineering estimate was conducted to calculate emissions from this unit.		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

The cumulative number of batches per hour is monitored and administrative controls are used to insure that no more than 4 batches per hour are produced, R13-181A Condition A.1. The total number of batches produced per month is tracked and used as the basis for calculated emissions. System is to be pressure tested after each line break per LDAR requirements.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A440.5S	#5 Polykettle	None

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Polymerization Reactor

Manufacturer:	**Model number:**	**Serial number:**
Mitternight Boiler Works	N/A	N/A
Construction date:	**Installation date:**	**Modification date(s):**
2007	2007	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
REDACTED

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A
Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	Emission for this item are reported as part of points A300E & A450E	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
	Emission for this item are reported as part of points A300E & A450E	
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
	Emission for this item are reported as part of points A300E & A450E	
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
An Engineering estimate was conducted to calculate emissions from this unit.		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

_X___ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

The cumulative number of batches per hour is monitored and administrative controls are used to insure that no more than 4 batches per hour are produced, R13-181A Condition A.1. The total number of batches produced per month is tracked and used as the basis for calculated emissions. System is to be pressure tested after each line break per LDAR requirements.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A450E	Polykettle Emission Point	None

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Grouped emissions

Manufacturer:	**Model number:**	**Serial number:**
N/A	N/A	N/A
Construction date:	**Installation date:**	**Modification date(s):**
1946	1946	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
N/A

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
N/A	N/A	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A
Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	0.30	0.720
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methyl Methacrylate, CAS# 80-62-6	0.18	0.441
Ethyl Acrylate CAS# 140-88-5	0.03	0.060
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

Acrylic acid	0.01	0.001

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,

An Engineering estimate was conducted to calculate emissions from this unit.

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation

See Attached List for all Applicable Requirements.

___X_ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to

The cumulative number of batches per hour is monitored and administrative controls are used to insure that no more than 4 batches per hour are produced, R13-181A Condition A.1. The total number of batches produced per month is tracked and used as the basis for calculated emissions. System is to be pressure tested after each line break per LDAR requirements.

Are you in compliance with all applicable requirements for this emission unit? **YES**

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A470S	Acrylics Lab	None

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Lab Hood

Manufacturer:	**Model number:**	**Serial number:**
N/A	N/A	N/A
Construction date:	**Installation date:**	**Modification date(s):**
1946	1946	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
REDACTED

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A
Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.01	0.001
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
An Engineering estimate was conducted to calculate emissions from this unit.		

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation
See Attached List for all Applicable Requirements.
___X_ Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to
None
Are you in compliance with all applicable requirements for this emission unit? YES
If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
A900S	Metal Parts Degreaser	None

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Lab Hood

Manufacturer:	**Model number:**	**Serial number:**
Safety Kleen	660N	N/A
Construction date:	**Installation date:**	**Modification date(s):**
1999	1999	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
LT 1320 Gallons

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
REDACTED	REDACTED	8760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
NO	N/A
Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
N/A	N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	Insignificant	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used,		
An Engineering estimate was conducted to calculate emissions from this unit.		

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation
See Attached List for all Applicable Requirements.
__X__ Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to
Vendor who services unit will supply plant-wide records of maintenance activities.
Are you in compliance with all applicable requirements for this emission unit? YES
If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

Attachment F – Compliance Plan

The Acrylics Manufacturing Area is not required to produce a compliance Plan.

Attachment G – Air Pollution Control Device Sheets

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	List all emission units associated with this control device.	
A010C	A010.1S	
Manufacturer:	**Model number:**	**Installation date:**
Calgon Carbon Corporation	VentSorb BPL 4x10	Prior to 1976

Type of Air Pollution Control Device:
Carbon absorber

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
Ethyl Acrylate CAS# 140-88-5	100.00%	98.00%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

The vent from the storage tank is fully captured and run through two parallel carbon canisters at ambient temperature and less than 1 psig pressure.

Is this device subject to the CAM requirements of 40 C.F.R. 64? **NO**

If Yes, **Complete ATTACHMENT H**
If No**, Provide justification.**
Potential emissions are less than levels requiring CAM.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

On a monthly basis, the cumulative amount of VOC/HAP vapors are estimated and the canisters are replaced before reaching saturation. Canisters are currently replaced every six months even if saturation point is not reached. Records of any malfunction must be kept. Records of any Maintenance must be kept.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	**List all emission units associated with this control device.**	
A180C	A180S	
Manufacturer:	**Model number:**	**Installation date:**
Buffalo	N/A	Circa 1980

Type of Air Pollution Control Device:

Point of source filter housed in the exhaust ductwork.

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
Particulate Matter ($PM_{2.5}$)	90.00%	90.00%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Is this device subject to the CAM requirements of 40 C.F.R. 64?	**NO**

If Yes, **Complete ATTACHMENT H**
If No**, Provide justification.**

Potential emissions are less than levels requiring CAM.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

On a bi-monthly basis the in line air filter is to be replaced.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	List all emission units associated with this control device.	
A260C	A260S	
Manufacturer:	**Model number:**	**Installation date:**
Flex Kleen	58-BV-16	1975

Type of Air Pollution Control Device:
Bag House/Fabric Filter

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
Particulate Matter	99.00%	99.90%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Vent from bulk storage silo is sent to this bag house. The total cloth area is 117sq ft. Gas flow is below 790 ACFM at 240'F and 14.7 PSIA.

Is this device subject to the CAM requirements of 40 C.F.R. 64? **NO**

If Yes, **Complete ATTACHMENT H**
If No**, Provide justification.**
Potential emissions are less than levels requiring CAM.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Monitoring shall be accomplished by performing a Visible Emissions check on the associated stack on a monthly basis. Visible emission checks shall be conducted by personnel trained in the practice and limitations of 40 C.F.R. 60, Appendix A, Method 22 during periods of normal operation for a sufficient time interval to determine if there is a visible emission. Records of these monthly visible emissions checks will be maintained. Records of maintenance on this equipment will be maintained in the electronic maintenance system. All records will be maintained for a period of five years.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	List all emission units associated with this control device.	
A350.1C	A350.1S, A350.2S, A350.3S, A350.4S	
Manufacturer:	**Model number:**	**Installation date:**
Young Industries	VM120-108 Style 1A	1976

Type of Air Pollution Control Device:
Bag House/Fabric Filter

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
Particulate Matter	100.00%	99.00%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Vents from various parts of the process are sent to this bag house. The total cloth area for the 108 bags is 1404sq ft. Gas flow is 8000 ACFM at 129'F and 14.7 PSIA.

Is this device subject to the CAM requirements of 40 C.F.R. 64? **NO**

If Yes, **Complete ATTACHMENT H**
If No**, Provide justification.**
Potential emissions are less than levels requiring CAM.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Monitoring shall be accomplished by performing a Visible Emissions check on the associated stack on a monthly basis. Visible emission checks shall be conducted by personnel trained in the practice and limitations of 40 C.F.R. 60, Appendix A, Method 22 during periods of normal operation for a sufficient time interval to determine if there is a visible emission. Records of these monthly visible emissions checks will be maintained. Records of maintenance on this equipment will be maintained in the electronic maintenance system. All records will be maintained for a period of five years.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	List all emission units associated with this control device.	
A350.2C	A350.5S, A350.6S, A350.7S, A350.8S	
Manufacturer:	**Model number:**	**Installation date:**
Young Industries	VM120-81 Style 1B	1976

Type of Air Pollution Control Device:
Bag House/Fabric Filter

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
Particulate Matter	100.00%	99.00%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Vents from various parts of the process are sent to this bag house. The total cloth area for the 81 bags is 1053sq ft. Gas flow is 8000 ACFM at 129'F and 14.7 PSIA.

Is this device subject to the CAM requirements of 40 C.F.R. 64? **NO**

If Yes, **Complete ATTACHMENT H**
If No**, Provide justification.**
Potential emissions are less than levels requiring CAM.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Monitoring shall be accomplished by performing a Visible Emissions check on the associated stack on a monthly basis. Visible emission checks shall be conducted by personnel trained in the practice and limitations of 40 C.F.R. 60, Appendix A, Method 22 during periods of normal operation for a sufficient time interval to determine if there is a visible emission. Records of these monthly visible emissions checks will be maintained. Records of maintenance on this equipment will be maintained in the electronic maintenance system. All records will be maintained for a period of five years.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	List all emission units associated with this control device.	
A390.1C	A390.1S, A390.2S, A390.3S	
Manufacturer:	**Model number:**	**Installation date:**
Water Scrubber		1996

Type of Air Pollution Control Device:
Other Wet Collecting System Scrubber

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
Particulate Matter	100.00%	99.00%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Vents from various parts of the process are sent to this wet collecting system. 20 to 30 gallons per minute of spray water are used to scrub particulate matter out of the vent stream as an alternative to control device A390.2C.

Is this device subject to the CAM requirements of 40 C.F.R. 64? **NO**

If Yes, **Complete ATTACHMENT H**
If No**, Provide justification.**
Potential emissions are less than levels requiring CAM.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Monitoring shall be accomplished by performing a Visible Emissions check on the associated stack on a monthly basis. Visible emission checks shall be conducted by personnel trained in the practice and limitations of 40 C.F.R. 60, Appendix A, Method 22 during periods of normal operation for a sufficient time interval to determine if there is a visible emission. Records of these monthly visible emissions checks will be maintained. Records of maintenance on this equipment will be maintained in the electronic maintenance system. All records will be maintained for a period of five years.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	List all emission units associated with this control device.	
A390.2C	A390.1S, A390.2S, A390.3S	
Manufacturer:	**Model number:**	**Installation date:**
Young Industries	VM120-216 Style 1A	1996

Type of Air Pollution Control Device:
Bag House/Fabric Filter

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
Particulate Matter	100.00%	99.00%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Vents from various parts of the process are sent to this bag house. The total cloth area for the 216 bags is 2808 sq ft. Gas flow is 11000 ACFM at 194F and 14.7 PSIA. This bag house is used to collect particulate matter out of the vent stream as an alternative to control device A390.1C.

Is this device subject to the CAM requirements of 40 C.F.R. 64?	**NO**

If Yes, **Complete ATTACHMENT H**
If No**, Provide justification.**
Potential emissions are less than levels requiring CAM.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Monitoring shall be accomplished by performing a Visible Emissions check on the associated stack on a monthly basis. Visible emission checks shall be conducted by personnel trained in the practice and limitations of 40 C.F.R. 60, Appendix A, Method 22 during periods of normal operation for a sufficient time interval to determine if there is a visible emission. Records of these monthly visible emissions checks will be maintained. Records of maintenance on this equipment will be maintained in the electronic maintenance system. All records will be maintained for a period of five years.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	List all emission units associated with this control device.	
A390.6C	A390.4S, A390.8S	
Manufacturer:	**Model number:**	**Installation date:**
Cambridge	HiFlo 40 Aerosolve Filters	2003

Type of Air Pollution Control Device:
Room Recirculation Filtering System

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
Particulate Matter	97.00%	99.90%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Filters are replaced on an as needed basis to control dust within the room.

Is this device subject to the CAM requirements of 40 C.F.R. 64? **NO**

If Yes, **Complete ATTACHMENT H**
If No**, Provide justification.**
Potential emissions are less than levels requiring CAM.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

This device is a filtering system for recirculated room air that is inspected each shift with the filters changed as needed to control room dust.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	List all emission units associated with this control device.	
A390.8C	A390.4S, A390.8S	
Manufacturer:	**Model number:**	**Installation date:**
Flex Kleen	84-CTBC-32 (IIIG)	2003

Type of Air Pollution Control Device:
Bag House Filter

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
Particulate Matter	100.00%	99.90%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Vent from product transfer part of the process is sent to this bag house. The total cloth area for the 32 bags is 339 sq ft. Gas flow is 1400 ACFM at 175'F and 13.3 PSIA.

Is this device subject to the CAM requirements of 40 C.F.R. 64? **NO**

If Yes, **Complete ATTACHMENT H**
If No**, Provide justification.**
Potential emissions are less than levels requiring CAM.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Monitoring shall be accomplished by performing a Visible Emissions check on the associated stack on a monthly basis. Visible emission checks shall be conducted by personnel trained in the practice and limitations of 40 C.F.R. 60, Appendix A, Method 22 during periods of normal operation for a sufficient time interval to determine if there is a visible emission. Records of these monthly visible emissions checks will be maintained. Records of maintenance on this equipment will be maintained in the electronic maintenance system. All records will be maintained for a period of five years.

Attachment H – CAM Rules Applicability

ATTACHMENT H - Compliance Assurance Monitoring (CAM) Plan Form

For definitions and information about the CAM rule, please refer to 40 CFR Part 64. Additional information (including guidance documents) may also be found at http://www.epa.gov/ttn/emc/cam.html

CAM APPLICABILITY DETERMINATION

1) Does the facility have a PSEU (Pollutant-Specific Emissions Unit considered separately with respect to **EACH** regulated air pollutant) that is subject to CAM (40 CFR Part 64), which must be addressed in this CAM plan submittal? To determine applicability, a PSEU must meet **all** of the following criteria (*If No, then the remainder of this form need not be completed*): ☐ YES ☒ NO

a. The PSEU is located at a major source that is required to obtain a Title V permit;

b. The PSEU is subject to an emission limitation or standard for the applicable regulated air pollutant that is NOT exempt;

LIST OF EXEMPT EMISSION LIMITATIONS OR STANDARDS:

- NSPS (40 CFR Part 60) or NESHAP (40 CFR Parts 61 and 63) proposed after 11/15/1990.
- Stratospheric Ozone Protection Requirements.
- Acid Rain Program Requirements.
- Emission Limitations or Standards for which a WVDEP Division of Air Quality Title V permit specifies a continuous compliance determination method, as defined in 40 CFR §64.1.
- An emission cap that meets the requirements specified in 40 CFR §70.4(b)(12).

c. The PSEU uses an add-on control device (as defined in 40 CFR §64.1) to achieve compliance with an emission limitation or standard;

d. The PSEU has potential pre-control device emissions of the applicable regulated air pollutant that are equal to or greater than the Title V Major Source Threshold Levels; AND

e. The PSEU is NOT an exempt backup utility power emissions unit that is municipally-owned.

BASIS OF CAM SUBMITTAL

2) Mark the appropriate box below as to why this CAM plan is being submitted as part of an application for a Title V permit:

☐ RENEWAL APPLICATION. **ALL** PSEUs for which a CAM plan has NOT yet been approved need to be addressed in this CAM plan submittal.

☐ INITIAL APPLICATION (submitted after 4/20/98). **ONLY** large PSEUs (i. e., PSEUs with potential post-control device emissions of an applicable regulated air pollutant that are equal to or greater than Major Source Threshold Levels) need to be addressed in this CAM plan submittal.

☐ SIGNIFICANT MODIFICATION TO LARGE PSEUs. **ONLY** large PSEUs being modified after 4/20/98 need to be addressed in this cam plan submittal. For large PSEUs with an approved CAM plan, Only address the appropriate monitoring requirements affected by the significant modification.

3) [a] BACKGROUND DATA AND INFORMATION					
Complete the following table for **all** PSEUs that need to be addressed in this CAM plan submittal. This section is to be used to provide background data and information for each PSEU In order to supplement the submittal requirements specified in 40 CFR §64.4. If additional space is needed, attach and label accordingly.					
PSEU DESIGNATION	DESCRIPTION	POLLUTANT	CONTROL DEVICE	[b] EMISSION LIMITATION or STANDARD	[c] MONITORING REQUIREMENT
EXAMPLE Boiler No. 1	Wood-Fired Boiler	PM	Multiclone	45CSR§2-4.1.c.; 9.0 lb/hr	Monitor pressure drop across multiclone: Weekly inspection of multiclone

[a] If a control device is common to more than one PSEU, one monitoring plan may be submitted for the control device with the affected PSEUs identified and any conditions that must be maintained or monitored in accordance with 40 CFR §64.3(a). If a single PSEU is controlled by more than one control device similar in design and operation, one monitoring plan for the applicable control devices may be submitted with the applicable control devices identified and any conditions that must be maintained or monitored in accordance with 40 CFR §64.3(a).

[b] Indicate the emission limitation or standard for any applicable requirement that constitutes an emission limitation, emission standard, or standard of performance (as defined in 40 CFR §64.1).

[c] Indicate the monitoring requirements for the PSEU that are required by an applicable regulation or permit condition.

CAM MONITORING APPROACH CRITERIA

Complete this section for **EACH** PSEU that needs to be addressed in this CAM plan submittal. This section may be copied as needed for each PSEU. This section is to be used to provide monitoring data and information for EACH indicator selected for EACH PSEU in order to meet the monitoring design criteria specified in 40 CFR §64.3 and §64.4. if more than two indicators are being selected for a PSEU or if additional space is needed, attach and label accordingly with the appropriate PSEU designation, pollutant, and indicator numbers.

4a) PSEU Designation:	**4b) Pollutant:**	**4c) [a] Indicator No. 1:**	**4d) [a] Indicator No. 2:**
5a) GENERAL CRITERIA Describe the MONITORING APPROACH used to measure the indicators:			
[b] Establish the appropriate INDICATOR RANGE or the procedures for establishing the indicator range which provides a reasonable assurance of compliance:			
5b) PERFORMANCE CRITERIA Provide the SPECIFICATIONS FOR OBTAINING REPRESENTATIVE DATA, such as detector location, installation specifications, and minimum acceptable accuracy:			
[c] For new or modified monitoring equipment, provide VERIFICATION PROCEDURES, including manufacturer's recommendations, TO CONFIRM THE OPERATIONAL STATUS of the monitoring:			
Provide QUALITY ASSURANCE AND QUALITY CONTROL (QA/QC) PRACTICES that are adequate to ensure the continuing validity of the data, (i.e., daily calibrations, visual inspections, routine maintenance, RATA, etc.):			
[d] Provide the MONITORING FREQUENCY:			
Provide the DATA COLLECTION PROCEDURES that will be used:			
Provide the DATA AVERAGING PERIOD for the purpose of determining whether an excursion or exceedance has occurred:			

[a] Describe all indicators to be monitored which satisfies 40 CFR §64.3(a). Indicators of emission control performance for the control device and associated capture system may include measured or predicted emissions (including visible emissions or opacity), process and control device operating parameters that affect control device (and capture system) efficiency or emission rates, or recorded findings of inspection and maintenance activities.

[b] Indicator Ranges may be based on a single maximum or minimum value or at multiple levels that are relevant to distinctly different operating conditions, expressed as a function of process variables, expressed as maintaining the applicable indicator in a particular operational status or designated condition, or established as interdependent between more than one indicator. For CEMS, COMS, or PEMS, include the most recent certification test for the monitor.

[c] The verification for operational status should include procedures for installation, calibration, and operation of the monitoring equipment, conducted in accordance with the manufacturer's recommendations, necessary to confirm the monitoring equipment is operational prior to the commencement of the required monitoring.

[d] Emission units with post-control PTE ≥ 100 percent of the amount classifying the source as a major source (i.e., Large PSEU) must collect four or more values per hour to be averaged. A reduced data collection frequency may be approved in limited circumstances. Other emission units must collect data at least once per 24 hour period.

RATIONALE AND JUSTIFICATION

Complete this section for **EACH** PSEU that needs to be addressed in this CAM plan submittal. This section may be copied as needed for each PSEU. This section is to be used to provide rationale and justification for the selection of EACH indicator and monitoring approach and EACH indicator range in order to meet the submittal requirements specified in 40 CFR §64.4.

6a) PSEU Designation:	6b) Regulated Air Pollutant:

7) **INDICATORS AND THE MONITORING APPROACH**: Provide the rationale and justification for the selection of the indicators and the monitoring approach used to measure the indicators. Also provide any data supporting the rationale and justification. Explain the reasons for any differences between the verification of operational status or the quality assurance and control practices proposed, and the manufacturer's recommendations. (If additional space is needed, attach and label accordingly with the appropriate PSEU designation and pollutant):

8) **INDICATOR RANGES**: Provide the rationale and justification for the selection of the indicator ranges. The rationale and justification shall indicate how **EACH** indicator range was selected by either a COMPLIANCE OR PERFORMANCE TEST, a TEST PLAN AND SCHEDULE, or by ENGINEERING ASSESSMENTS. Depending on which method is being used for each indicator range, include the specific information required below for that specific indicator range. (If additional space is needed, attach and label accordingly with the appropriate PSEU designation and pollutant):

- COMPLIANCE OR PERFORMANCE TEST (Indicator ranges determined from control device operating parameter data obtained during a compliance or performance test conducted under regulatory specified conditions or under conditions representative of maximum potential emissions under anticipated operating conditions. Such data may be supplemented by engineering assessments and manufacturer's recommendations). The rationale and justification shall INCLUDE a summary of the compliance or performance test results that were used to determine the indicator range, and documentation indicating that no changes have taken place that could result in a significant change in the control system performance or the selected indicator ranges since the compliance or performance test was conducted.

- TEST PLAN AND SCHEDULE (Indicator ranges will be determined from a proposed implementation plan and schedule for installing, testing, and performing any other appropriate activities prior to use of the monitoring). The rationale and justification shall INCLUDE the proposed implementation plan and schedule that will provide for use of the monitoring as expeditiously as practicable after approval of this CAM plan, except that in no case shall the schedule for completing installation and beginning operation of the monitoring exceed 180 days after approval.

- ENGINEERING ASSESSMENTS (Indicator Ranges or the procedures for establishing indicator ranges are determined from engineering assessments and other data, such as manufacturers' design criteria and historical monitoring data, because factors specific to the type of monitoring, control device, or PSEU make compliance or performance testing unnecessary). The rationale and justification shall INCLUDE documentation demonstrating that compliance testing is not required to establish the indicator range.

RATIONALE AND JUSTIFICATION:

The Acrylics Area does not require a CAM plan for either line as the maximum potential to emit (PTE) for the either line does not exceed the major threshold for any pollutnat. The maximum potential to emit for Line #1 is 56.4 tons/year of Particulate. The maximum Potential to emit for Line #2 is 86.4 tons/year of particulate matter. All other pollutnats PTE are lower than these for each production line.

Attachment I – Supplemental Information – AEI Results

Air Emission Inventory For Acrylics Production Unit - Actual Emissions

PM-FIL	**2.61**
PM-CON	**0.00**
PM-PRI	**0.00**
SO2	**0.00**
NO2	**0.00**
VOC	**5.96**
CFC	**0.00**
CO	**0.00**

HAPvoc	**3.560**
67561	**0.000**
79107	**0.000**
80626	**3.560**
107211	**0.000**
140885	**0.667**

HAPother	**0.000**
7647010	**0.00**
7664393	**0.00**
ammonia	
7664417	**0.00**
CO2	
124389	0.000

PM10-FIL	0.6516
PM25-FIL	0.0391