WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF AIR QUALITY

601 57th Street SE

Charleston, WV 25304

Phone: (304) 926-0475

www.wvdep.org/daq

TITLE V PERMIT APPLICATION - GENERAL FORMS

Section 1: General Information

1. **Name of Applicant (As registered with the WV Secretary of State's Office):** E. I. du Pont de Nemours & Co.	**2. Facility Name or Location:** DuPont Washington Works Washington WV
3. DAQ Plant ID No.: 1 0 7 — 0 0 0 0 1	**4. Federal Employer ID No. (FEIN):** 5 1 0 0 1 4 0 9 0

5. **Permit Application Type:**

☐ Initial Permit — When did operations commence?

☒ Permit Renewal — What is the expiration date of the existing permit? 6/15/2014

☐ Update to Initial Permit Application

6. Type of Business Entity: ☒ Corporation ☐ Governmental Agency ☐ 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: 1240	

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: P. O. Box 1217		
City: Washington	**State:** WV	**Zip: 26181-1217**
Telephone Number: (304) 863-4240 (gatehouse)	**Fax Number:** (304) 863-4862	

12. Facility Location		
Street: 8480 DuPont Road	**City:** Washington	**County:** Wood
UTM Easting: 442.368 km	**UTM Northing:** 4,346.679 km	**Zone:** ☒ 17 or ☐ 18
Directions: From I-77 take the Route 50 bypass around Parkersburg towards Ohio. At the last exit prior to the bridge exit from the route 50 Bypass on to DuPont Road. At the light turn left on DuPont road. Approximately ½ mile from the turn you will see the Site on your right and be approaching the exit from the road for the main gate to the facility.		
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: Karl J. Boelter		**Title:** Plant Manager
Street or P.O. Box: P. O. Box 1217 Building 1		
City: Washington	**State:** WV	**Zip: 26181-1217**
Telephone Number: (304) 863-4305	**Fax Number:** (304) 863-4862	
E-mail address: Karl.J.Boelter@dupont.com		
Environmental Contact: David F. Altman		**Title:** Sr. Environmental Control Consultant
Street or P.O. Box: P. O. Box 1217 Building 1		
City: Washington	**State:** WV	**Zip: 26181-1217**
Telephone Number: (304) 863-4271	**Fax Number:** (304) 863-4862	
E-mail address: David.F.Altman@dupont.com		
Application Preparer: John J. Mentink		**Title:** Technical Associate
Company: DuPont		
Street or P.O. Box: P. O. Box 1217 Building 1		
City: Washington	**State:** WV	**Zip: 26181-1217**
Telephone Number: (304) 863-2028	**Fax Number:** (304) 863-4862	
E-mail address: john.j.mentink@dupont.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
Extruded Polymer	Monofilament and layered resin strand	325211	2821

Provide a general description of operations. - Production of monofilament and layered resin strand

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 (45CSR15)	☐ 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)
☐ NO_x Budget Trading Program Non-EGUs (45CSR1)	☐ NO_x Budget Trading Program EGUs (45CSR26)

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 CFR 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 storage tanks in the Filaments manufacturing area subject to this requirement.

b. 40 CFR 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 storage tanks in the Filaments manufacturing area subject to this requirement.

c. 40 CFR 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 storage tanks in the Filaments manufacturing area subject to this requirement.

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

e. 40 CFR 60, Subpart DDD - "Standards of Performance for Volatile Organic Compound (VOC) Emissions from the Polymer Manufacturing Industry." The Filaments manufacturing area does not manufacture polypropylene, polyethylene, polystyrene, or poly(ethylene terephthalate) for which this rule applies.

f. 40 CFR 60, Subpart HHH – "Standards of Performance for Synthetic Fiber Production Facilities." The Filaments manufacturing area does not produce filaments which are solvent-spun.

g. 40 CFR 60, Subpart RRR - "Standards of Performance for Volatile Organic Compound (VOC) Emissions From Synthetic Organic Chemical Manufacturing Industry (SOCMI) Reactor Processes." Filaments manufacturing 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.

h. 40 CFR 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 Filaments manufacturing area.

i. 40 CFR 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 the Filaments manufacturing area, as it does not meet the criteria in 40 C.F.R. §§63.100(b)(1), (b)(2), and (b)(3).

☒ **Permit Shield**

19. Non Applicability Determinations - Continued

j. 40 CFR 63, Subpart JJJ - "National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins. The Filaments manufacturing area does not produce the materials listed in 40 C.F.R. §63.1310.

k. 40 CFR 63, Subpart FFFF – "National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing." The Filaments production area does not manufacture any material or family of materials defined in §§63.2435(b)(1)(i) through (v).

l. 40 CFR 63, Subpart MMMM - "National Emission Standards for Hazardous Air Pollutants: Surface Coating of Miscellaneous Metal Parts and Products." There are no surface coating activities conducted in Filaments manufacturing area subject to the requirements of this rule.

m. 40 CFR 63, Subpart OOOO – "National Emission Standards for Hazardous Air Pollutants: Printing, Coating, and Dyeing of Fabrics and Other Textiles." There are no coating and printing, slashing, or dyeing and finishing operations conducted in the Filaments manufacturing area that use materials containing organic HAPs as defined by §63.4371.

n. 40 CFR 63, Subpart FFFF – "National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing." The Filaments production area does not manufacture any material or family of materials defined in §§63.2435(b)(1)(i) through (v).

o. 40 CFR 63, Subpart MMMM - "National Emission Standards for Hazardous Air Pollutants: Surface Coating of Miscellaneous Metal Parts and Products." There are no surface coating activities conducted in Filaments manufacturing area subject to the requirements of this rule.

p. 40 CFR 63, Subpart OOOO – "National Emission Standards for Hazardous Air Pollutants: Printing, Coating, and Dyeing of Fabrics and Other Textiles." There are coating and printing, slashing, or dyeing and finishing operations conducted in the Filaments manufacturing area that use materials containing organic HAPs as defined by §63.4371.

q. 40 CFR 63, Subpart JJJ - "National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins. The Filaments manufacturing area does not produce the materials listed in 40 C.F.R. §63.1310.

r. 40 CFR 63, Subpart FFFF – "National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing." The Filaments production area does not manufacture any material or family of materials defined in §§63.2435(b)(1)(i) through (v).

s. 40 CFR 63, Subpart MMMM - "National Emission Standards for Hazardous Air Pollutants: Surface Coating of Miscellaneous Metal Parts and Products." There are no surface coating activities conducted in Filaments manufacturing area subject to the requirements of this rule.

t. 40 CFR 63, Subpart OOOO – "National Emission Standards for Hazardous Air Pollutants: Printing, Coating, and Dyeing of Fabrics and Other Textiles." There are no coating and printing, slashing, or dyeing and finishing operations conducted in the Filaments manufacturing area that use materials containing organic HAPs as defined by §63.4371.

u. 40 CFR 63, Subpart FFFF – "National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing." The Filaments production area does not manufacture any material or family of materials defined in §§63.2435(b)(1)(i) through (v).

☒ **Permit Shield**

19. Non Applicability Determinations - Continued

v. 40 CFR 63, Subpart MMMM - "National Emission Standards for Hazardous Air Pollutants: Surface Coating of Miscellaneous Metal Parts and Products." There are no surface coating activities conducted in Filaments manufacturing area subject to the requirements of this rule.

w. 40 CFR 63, Subpart OOOO – "National Emission Standards for Hazardous Air Pollutants: Printing, Coating, and Dyeing of Fabrics and Other Textiles." There are coating and printing, slashing, or dyeing and finishing operations conducted in the Filaments manufacturing area that use materials containing organic HAPs as defined by §63.4371.

x. 40 CFR 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 Filaments manufacturing area does not conduct motor vehicle maintenance involving CFCs on site.

y. 40 CFR 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 Filaments manufacturing area does not use, manufacture, nor distribute these materials.

z. 45CSR2 – "To Prevent and Control Particulate Air Pollution from Combustion of Fuel in Indirect Heat Exchangers." The Filaments manufacturing area does not contain any fuel burning units.

aa. 45CSR§7-3.7 – "To Prevent and Control Particulate Matter Air Pollution from Manufacturing Processes and Associated Operations; Storage Structure Requirements." The Filaments manufacturing area does not have any storage structures required to be fully enclosed and equipped with a particulate matter control device.

bb. 45CSR§10 – "To Prevent and Control Air Pollution from the Emission of Sulfur Oxides." The Filaments manufacturing 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 Filaments manufacturing 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.

cc. 45CSR§15 – "Emission Standards for Hazardous Air Pollutants Pursuant to 40 C.F.R. 61." The Filaments manufacturing area is not subject to any requirements under 40 C.F.R. 61.

dd. 45CSR§16 – "Standards of Performance for New Stationary Sources Pursuant to 40 C.F.R. 60." Filaments manufacturing area is not subject to any requirements under 40 C.F.R. 60.

ee. 45CSR§17 – "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 Filaments manufacturing area is not subject to 45CSR17 because it is subject to the fugitive particulate matter emission requirements of 45CSR7.

ff. 45CSR§21-40 – "Other Facilities that Emit Volatile Organic Compound (VOC)." None of the emission sources in the Filaments manufacturing area have maximum theoretical emissions of 6 pounds per hour or more and are not subject to the requirements of this section.

gg. 45CSR§27 – "To Prevent and Control the Emission of Toxic Air Pollutants." The Filaments manufacturing area does not have emission sources of toxic air pollutants as listed in 45CSR27.

☒ Permit Shield

19. Non Applicability Determinations - Continued

hh. 45CSR§34 – "Emission Standards for Hazardous Air Pollutants for Source Categories Pursuant to 40 C.F.R. 63." The Filaments manufacturing area is not subject to any requirements under 40 C.F.R. 63.

☒ Permit Shield

20. Facility-Wide Applicable Requirements

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*).

3.1.1. **Open burning.** The open burning of refuse by any person, firm, corporation, association or public agency 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, suffer, allow or permit 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 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). A copy of this notice is required to be sent to the USEPA, the Division of Waste Management and the Bureau for Public Health - Environmental Health.
[40 C.F.R. 61 and 45CSR15]

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. **Permanent shutdown.** A source which has not operated at least 500 hours in one 12-month period within the previous five (5) year time period may be considered permanently shutdown, unless such source can provide to the Secretary, with reasonable specificity, information to the contrary. All permits may be modified or revoked and/or reapplication or application for new permits may be required for any source determined to be permanently shutdown.
[45CSR§13-10.5]

3.1.6. **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]

3.1.7. **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)]

3.1.8. **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:

20. Facility-Wide Applicable Requirements - Continued

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]

3.1.9. **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]

3.1.10. **Fugitives.** No person shall cause, suffer, allow or permit any manufacturing process or storage structure generating fugitive particulate matter to operate that is not equipped with a system, which may include, but not be limited to, process equipment design, control equipment design or operation and maintenance procedures, to minimize the emissions of fugitive particulate matter. To minimize means such system shall be installed, maintained and operated to ensure the lowest fugitive particulate matter emissions reasonably achievable. **[45CSR§7-5.1.]**

3.1.11. **Fugitives.** The owner or operator of a plant shall maintain particulate matter control of the plant premises, and plant owned, leased or controlled access roads, by paving, application of asphalt, chemical dust suppressants or other suitable dust control measures. Good operating practices shall be implemented and when necessary particulate matter suppressants shall be applied in relation to stockpiling and general material handling to minimize particulate matter generation and atmospheric entrainment. **[45CSR§7-5.2.]**

3.1.12. Due to unavoidable malfunction of equipment, emissions exceeding those set forth in 45CSR7 may be permitted by the Director for periods not to exceed ten (10) days upon specific application to the Director. Such application shall be made within twenty-four (24) hours of the malfunction. In cases of major equipment failure, additional time periods may be granted by the Director provided a corrective program has been submitted by the owner or operator and approved by the Director. **[45CSR§7-9.1.]**

3.2 Monitoring Requirements

3.2.1 Not Applicable

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:

20. Facility-Wide Applicable Requirements - Continued

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. If a testing method is specified or approved which effectively replaces a test method specified in the permit, the permit will be revised in accordance with 45CSR§30-6.4. or 45CSR§30-6.5 as 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. If a testing method is specified or approved which effectively replaces a test method specified in the permit, the permit will be revised in accordance with 45CSR§30-6.4. or 45CSR§30-6.5 as applicable.

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]

3.4.1 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.]

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.]**

20. Facility-Wide Applicable Requirements – Continued

3.4.3 **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.]**

3.4.4 **Odors.** For the purposes of 45CSR4, the permittee shall maintain a record of all odor complaints received. Such record shall contain an assessment of the validity of the complaints as well as any corrective actions taken. **[45CSR§30-5.1.c. State-Enforceable only.]**

3.4.5 **Fugitives.** The permittee shall monitor all fugitive particulate emission sources as required by 3.1.10. To ensure that a system to minimize fugitive emissions has been installed or implemented. Records shall be maintained on site for a period of no less than five (5) years stating the types of fugitive particulate capture and/or suppression systems used, the times these systems were inoperable, and the corrective actions taken to repair these systems. **[45CSR§30-5.1.c.]**

3.4.6 **Fugitives.** The permittee shall maintain records indicating the use of any dust suppressants or any other suitable dust control measures as required by 3.1.11 applied at the facility. These records shall be maintained on site for a period of no less than five (5) years. **[45CSR§30-5.1.c.]**

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, 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, or mailed first class 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: 304/926-0479

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

(Facility-wide applicable requirements Continued)

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. A receipt for the appropriate fee shall be maintained on the premises for which the receipt has been issued, and shall be made immediately available for inspection by the Secretary or his/her duly authorized representative. **[45CSR§30-8.]**

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 email 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 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.

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

(Facility-wide applicable requirements Continued)

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.]

c. Every report submitted under this subsection shall be certified by a responsible official.
[45CSR§30.5.1.c.3.D.]

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.]

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)*
R30-10700001 Filaments Production (Part 9 of 14)	06/08/2004	N/A
PD-06-117	11/13/2006	PM rates adjusted – no permit required.
PD-07-009	02/08/2007	PM rates adjusted – no permit required.

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

Section 3: Segment-Wide Emissions

23. Segment-Wide Emissions Summary [Tons per Year]	
Criteria Pollutants	Potential Emissions
Carbon Monoxide (CO)	0.54
Nitrogen Oxides (NO_X)	0.106
Particulate Matter ($PM_{2.5}$)[1]	0.145
Particulate Matter (PM_{10})[1]	1.31
Total Particulate Matter (TSP)	6.56
Sulfur Dioxide (SO_2)	0.007
Volatile Organic Compounds (VOC)	2.12
Hazardous Air Pollutants[2]	Potential Emissions
Polycyclic Organic material (POM)	2.104
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 on site. 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
☐	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**.

(Negative. declaration attached)

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: Karl J. Boelter	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:

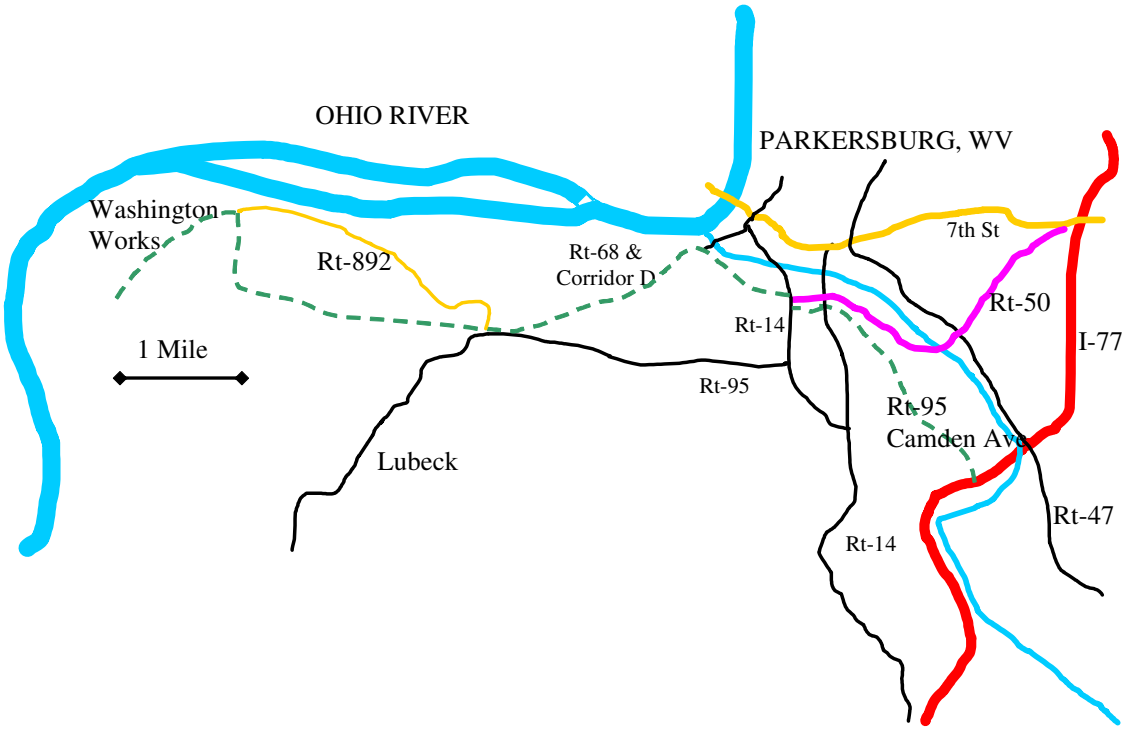
☒	ATTACHMENT A: Area Map
☒	ATTACHMENT B: Plot Plan(s)
☒	ATTACHMENT C: Process Flow Diagram(s)
☒	ATTACHMENT D: Equipment Table
☒	ATTACHMENT E: Emission Unit Form(s)
☐	ATTACHMENT F: Schedule of Compliance Form(s)
☒	ATTACHMENT G: Air Pollution Control Device Form(s)
☒	ATTACHMENT H: Compliance Assurance Monitoring (CAM) Form(s)

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

Attachment A –

Area Map of Affected facility

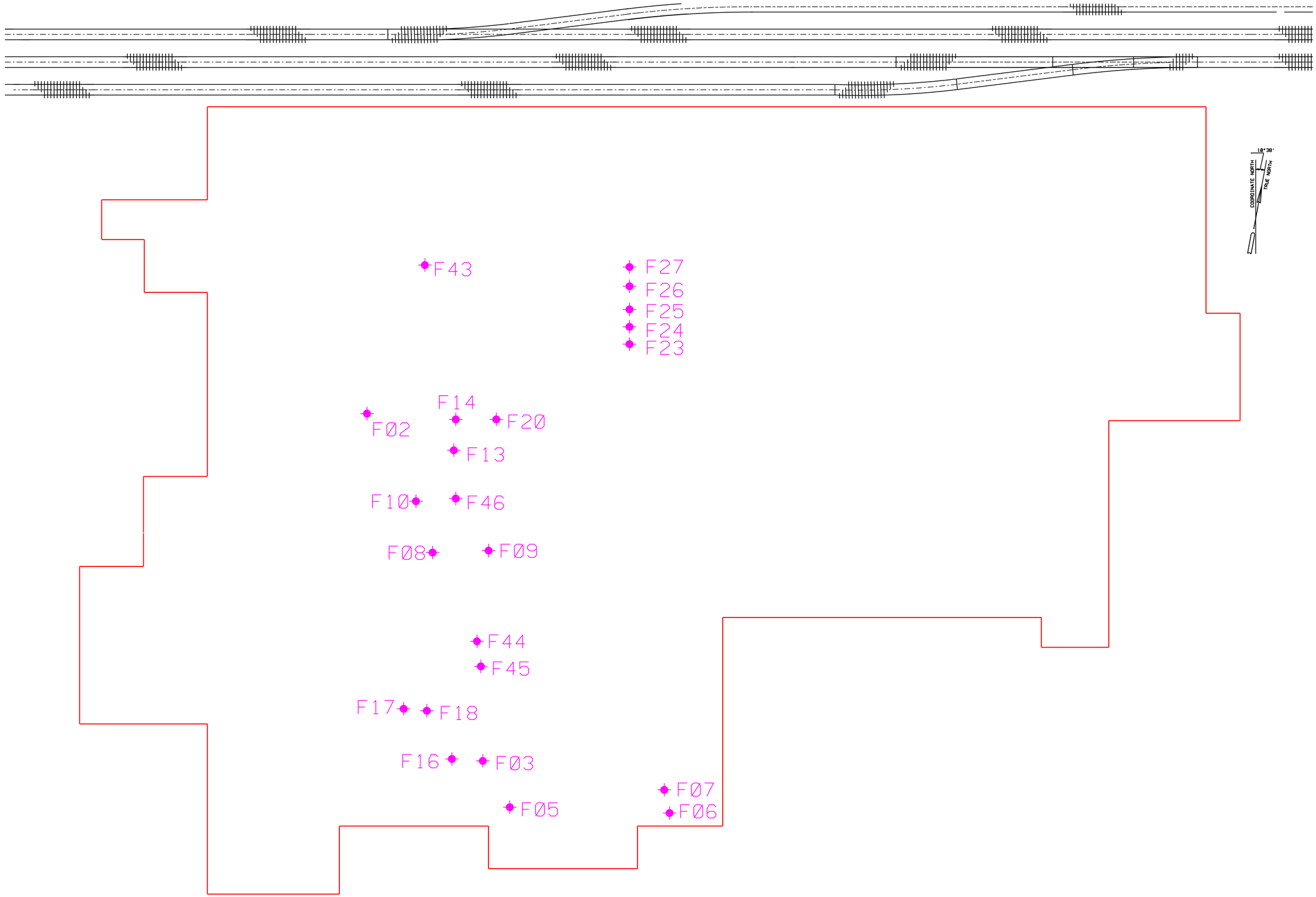
Attachment A – Area Map



From Interstate 77, take exit for Rt-95/Camden Avenue.
Proceed west until intersection with Rt-14 then turn right (north).
After about 1/4 mile turn left onto Corridor D Bypass entrance.
Follow the bypass to the exit just before the bridge.
Turn left (south) onto DuPont Rd, Rt-892.
Proceed approx. 1 mile to facility on right.

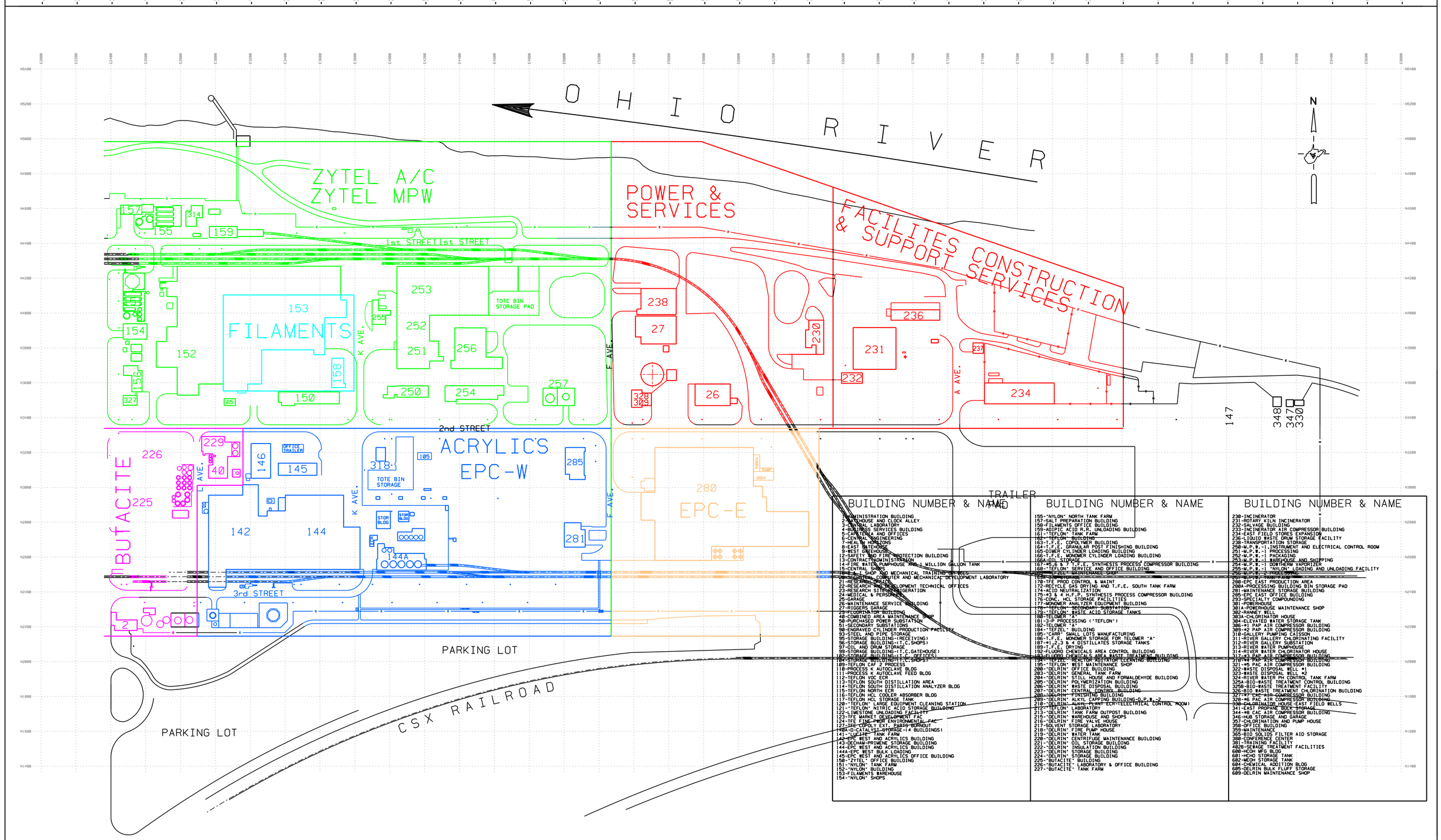
Attachment B –

Plot Plan for Affected Facilities



FILAMENTS
PROCESS VENTS
EMISSION POINTS
PLOT PLAN

D.L.DRENNEN 10-09-08 | WWM666F



TRAILER AND BUILDING NUMBER & NAME

BUILDING NUMBER & NAME	BUILDING NUMBER & NAME	BUILDING NUMBER & NAME
1-ADMINISTRATION BUILDING	155-'NYLON' NORTH TANK FARM	230-INCINERATOR
2-WAREHOUSE AND CLOCK ALLEY	157-SALT PREPARATION BUILDING	231-ROTARY KILN INCINERATOR
3-CENTRAL LABORATORY	158-FILAMENTS OFFICE BUILDING	232-SALVAGE BUILDING
4-BUILDINGS SERVICES BUILDING	159-ADIPIC ACID R.R. UNLOADING BUILDING	233-INCINERATOR AIR COMPRESSOR BUILDING
5-CAFETERIA AND OFFICES	161-'TEFLON' TANK FARM	234-EAST FIELD STORES EXPANSION
6-CENTRAL ENGINEERING	162-'TEFLON' BUILDING	236-LIQUID WASTE DRUM STORAGE FACILITY
7-HEALTH HORIZONS	163-T.F.E. COPOLYMER BUILDING	238-TRANSPORTATION STORAGE
8-EAST GATEHOUSE	164-T.F.E. GRANULAR POST FINISHING BUILDING	250-W.P.W.-1-INSTRUMENT AND ELECTRICAL CONTROL ROOM
9-WEST GATEHOUSE	165-OTHER CYLINDER LOADING BUILDING	251-W.P.W.-1-PROCESSING
12-SAFETY AND FIRE PROTECTION BUILDING	166-T.F.E. MONOMER CYLINDER LOADING BUILDING	252-W.P.W.-1-PACKAGING
13-CONTRACTOR ADMINISTRATION	166A-OIL STORAGE	253-W.P.W.-1-WAREHOUSE AND SHIPPING
14-FIRE WATER PUMPHOUSE AND 1 MILLION GALLON TANK	167-#5,6 & 7 T.F.E. SYNTHESIS PROCESS COMPRESSOR BUILDING	254-W.P.W.-1-DOWTHERM VAPORIZER
15-CENTRAL STORES	168-'TEFLON' SERVICE AND OFFICE BUILDING	255-W.P.W.-1-RAIL CAR LOADING AND UNLOADING FACILITY
16-E & T SHOP AND MECHANICAL TRAINING OFFICES	169-T.F.E. MAINTENANCE SHOP	256-W.P.W.-2-PROCESSING
17-CENTRAL COMPUTER AND MECHANICAL DEVELOPMENT LABORATORY	169A-STORAGE BUILDING	257-W.P.W.-1-WAREHOUSE
21-RESEARCH OFFICES	170-TFE PROD CONTROL & MAINT	280-EPC EAST PRODUCTION AREA
22-RESEARCH AND DEVELOPMENT TECHNICAL OFFICES	172-RECYCLE GAS DRYING AND T.F.E. SOUTH TANK FARM	280A-PROCESSING BUILDING BIN STORAGE PAD
23-RESEARCH SITE REFRIGERATION	174-ACID NEUTRALIZATION	281-MAINTENANCE STORAGE BUILDING
24-MEDICAL & PERSONNEL	175-#3 & 4 T.F.E. SYNTHESIS PROCESS COMPRESSOR BUILDING	285-EPC EAST OFFICE BUILDING
25-GARAGE	176-CONC. HCL STORAGE FACILITIES	293-SPECIALTY COMPOUNDING
26-MAINTENANCE SERVICE BUILDING	177-MONOMER ANALYZER EQUIPMENT BUILDING	301-POWERHOUSE
27-RIGGERS GARAGE	178-'TEFLON' SECONDARY SUBSTATION	301A-POWERHOUSE MAINTENANCE SHOP
28-FLOORTAPER BUILDING	179-'TEFLON' WASTE ACID STORAGE TANKS	302-RANNEY WELL
40-COMBINED AREA MAINTENANCE SHOP	180-TELOMER 'A'	303A-CHLORINATOR HOUSE
50-PURCHASED POWER SUBSTATION	181-3-P PROCESSING ('TEFLON')	304-ELEVATED WATER STORAGE TANK
51-SECONDARY SUBSTATIONS	182-TELOMER 'A'	306-#1 PAP AIR COMPRESSOR BUILDING
90-ENGRAVED CYLINDER PRODUCTION FACILITY	184-'TEFZEL' BUILDING	309-#2 PAP AIR COMPRESSOR BUILDING
93-STEEL AND PIPE STORAGE	185-'CARR' SMALL LOTS MANUFACTURING	310-GALLERY PUMPING CAISSON
95-STORAGE BUILDING-(RECEIVING)	186-T.F.E. MONOMER STORAGE FOR TELOMER 'A'	311-RIVER GALLERY CHLORINATING FACILITY
96-STORAGE BUILDING-(T.C.SHOPS)	187-#1,2,3 & 4 DISTILLATES STORAGE TANKS	312-RIVER GALLERY SUBSTATION
97-OIL AND DRUM STORAGE	189-T.F.E. DRYING	313-RIVER WATER PUMPHOUSE
99-STORAGE BUILDING-(T.C.GATEHOUSE)	192-FLUORO CHEMICALS AREA CONTROL BUILDING	314-RIVER WATER CHLORINATOR HOUSE
102-STORAGE BUILDING-(T.C. OFFICES)	193-FLUORO CHEMICALS AREA WASTE TREATMENT BUILDING	317-#3 PAP AIR COMPRESSOR BUILDING
103-STORAGE BUILDING-(T.C. SHOPS)	194-T.F.E. REACTOR ROTATOR CLEANING BUILDING	318-#4 PAP AIR COMPRESSOR BUILDING
109-TEFLON CAF 2 PROCESS	195-'TEFLON' WEST MAINTENANCE SHOP	321-#5 PAC AIR COMPRESSOR BUILDING
111-PROCESS K AUTOCLAVE BLDG	200-'DELRIN' OFFICE BUILDING	322-WASTE DISPOSAL WELL #1
111-PROCESS K AUTOCLAVE FEED BLDG	203-'DELRIN' GENERAL TANK FARM	323-WASTE DISPOSAL WELL #2
112-TEFLON VDC ECR	204-'DELRIN' STILL HOUSE AND FORMALDEHYDE BUILDING	324-RIVER WATER PH CONTROL TANK FARM
113-TEFLON SOUTH DISTILLATION AREA	205-'DELRIN' POLYMERIZATION BUILDING	325A-BIO-WASTE TREATMENT CONTROL BUILDING
114-TEFLON SOUTH DISTILLATION ANALYZER BLDG	206-'DELRIN' WASTE DISPOSAL BUILDING	325B-BIO-WASTE TREATMENT FACILITY
115-TEFLON NORTH ECR	207-'DELRIN' CENTRAL CONTROL BUILDING	326-BIO WASTE TREATMENT CHLORINATION BUILDING
116-TEFLON HCL COOLER ABSORBER BLDG	208-'DELRIN' FINISHING BUILDING	327-#7 CAC AIR COMPRESSOR BUILDING
117-TEFLON HCL STORAGE TANK	209-'DELRIN' ALKYL CAPPING BUILDING-O.P.W.-2	328-#6 PAC AIR COMPRESSOR BUILDING
120-'TEFLON' LARGE EQUIPMENT CLEANING STATION	210-'DELRIN' ALKYL PLANT ECR-TELECTRICAL CONTROL ROOM)	330-CHLORINATOR HOUSE-EAST FIELD WELLS
121-'TEFLON' NITRIC ACID STORAGE BUILDING	212-'TEFLON' LABORATORY	341-EAST PROPANE BULK STORAGE
122-LIMESTONE UNLOADING FACILITY	213-'DELRIN' TANK FARM OUTPOST BUILDING	344-#8 CAC AIR COMPRESSOR BUILDING
123-TFE MARKET DEVELOPMENT FAC	215-'DELRIN' WAREHOUSE AND SHOPS	346-HUB STORAGE AND GARAGE
124-TFE FINE PWDR ENVIRONMENTAL FAC	216-'DELRIN' FIRE VALVE HOUSE	357-CHLORINATION AND PUMP HOUSE
125-'TEFLON' COPOLY EXT. PARTS BLDG-OUT	217-SOLVENT STORAGE LABORATORY	358-OFFICE BUILDING
140A-D-CATALYST STORAGE-(4 BUILDINGS)	218-'DELRIN' FIRE PUMP HOUSE	359-MAINTENANCE
141-'LUCITE' TANK FARM	219-'DELRIN' WATER TANK	365-BIO SOLIDS FILTER AID STORAGE
142-EPC WEST AND ACRYLICS BUILDING	220-'DELRIN' CENTRIFUGE MAINTENANCE BUILDING	380-CONFERENCE CENTER
143-DICHLOROETHYLENE STORAGE BUILDING	221-'DELRIN' OIL STORAGE BUILDING	391-TRAINING FACILITY
144-EPC WEST AND ACRYLICS BUILDING	222-'DELRIN' INSULATION BUILDING	402B-SEWAGE TREATMENT FACILITIES
144A-EPC WEST BULK LOADING	223-'DELRIN' STORAGE BUILDING	600-HCON WFG BLDG
145-EPC WEST AND ACRYLICS OFFICE BUILDING	224-'DELRIN' STORAGE BUILDING	601-HCWO STORAGE TANK
150-'ZYTEL' OFFICE BUILDING	225-'BUTACITE' BUILDING	602-WECH STORAGE TANK
151-'NYLON' TANK FARM	226-'BUTACITE' LABORATORY & OFFICE BUILDING	604-CHEMICAL ADDITION BLDG
152-'NYLON' BUILDING	227-'BUTACITE' TANK FARM	605-DELRIN BULK FLUFF STORAGE
153-FILAMENTS WAREHOUSE		680-DELRIN MAINTENANCE SHOP
154-'NYLON' SHOPS		

WASHINGTON WORKS
TITLE 5
APPLICATION UPDATE

C-2B

SCALE	1" = 300'
DRAWN BY	JOE GASION 11-29-01
UPDATED BY	DAVE ORENNEN 12-5-01
CHECKED BY	
APPROVED BY	

ELEC. CODE CLASS	WBJ NO.	FAA NUMBER	PROJ. NO.

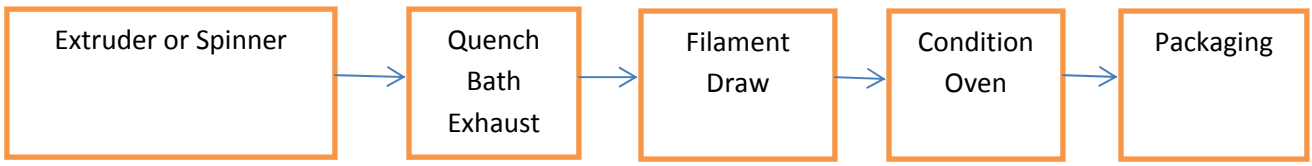
WASHINGTON WORKS
WW M-809 AR

INTERGRAPH COMPUTER DRAWING

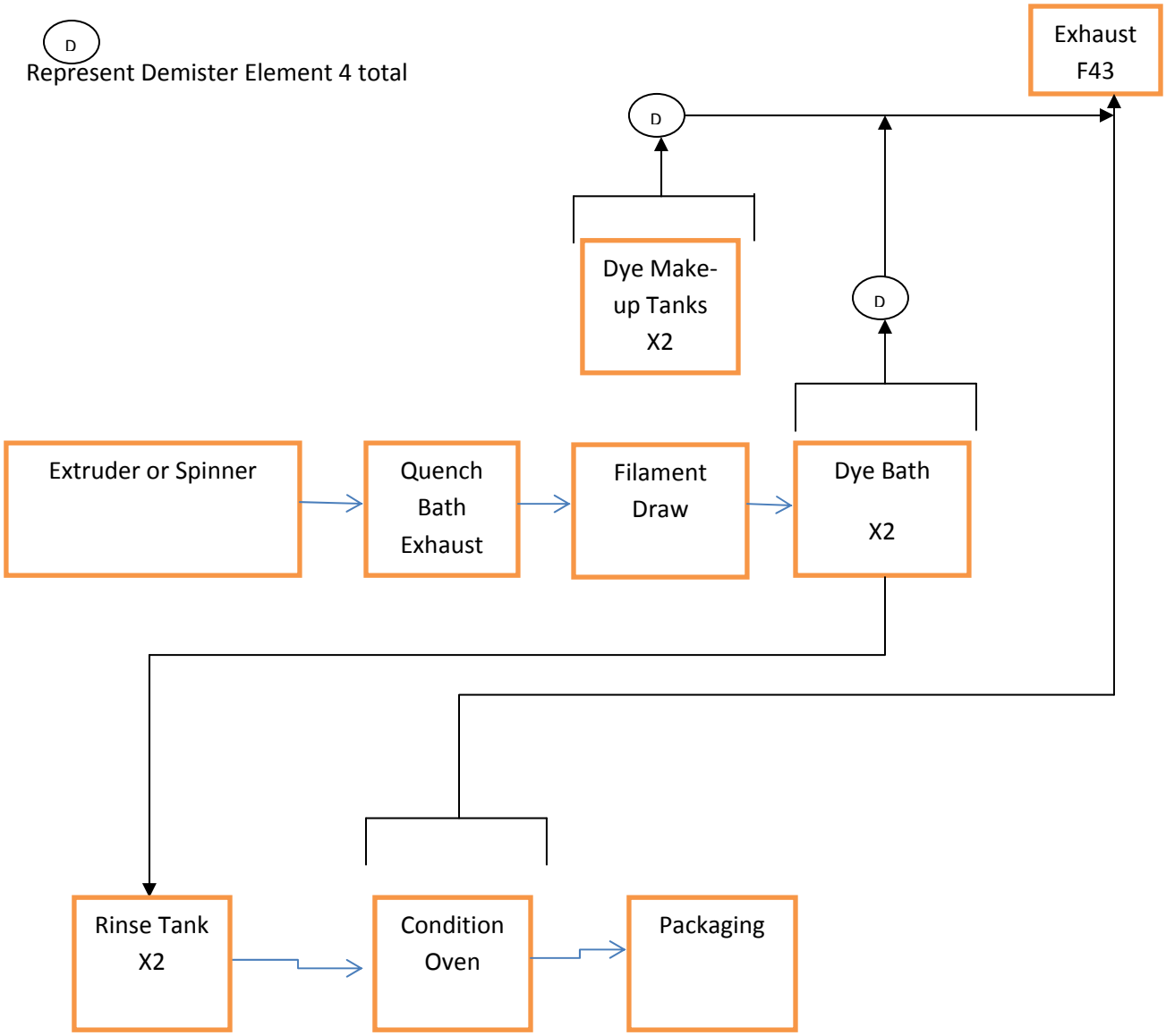
Attachment C –

Process Flow Diagrams for Affected Units

Typical Filament Arrangement



Typical Dyed Filament Arrangement



Attachment D –

Equipment Table for Affected Units

ATTACHMENT D - Emission Units Table

Emission Unit ID[1]	Emission Point ID[1]	Emission Unit Description	Year Installed/ Modified	Design Capacity	Control Device[1]
152F-002-02	F02	Spinner Cluster #1	1962/1997	1000 pph	None
152F-003-20	F03	Spinner Cluster #2	1962/1999	400 pph	None
152F-005-21	F05	#21 Die	1962/1999	200 pph	None
152F-006-00	F06	Abrasive Blast Table	1978		None
152F-007-00	F07	Welding Hood	1962		None
152F-008-16	F08	#16 Spinner	1998	200 pph	None
152F-009-15	F09	#15 Spinner	1962	200 pph	None
152F-013-11	F13	#11 Spinner	1962	200 pph	None
152F-014-10	F14	#10 Spinner	1962	200 pph	None
152F-016-19	F16	#19 Spinner	1984	200 pph	None
152F-017-00	F17	East Burnout Oven	1995		None
152F-018-00	F18	Parts Burnout system	1962		None
152F-023-00	F23	#6 Blower	1965	225 CFM	None
152F-024-00	F24	#5 Blower	1965	225 CFM	None
152F-025-00	F25	#4 Blower	1965	225 CFM	None
152F-026-00	F26	#3 Blower	1965	225 CFM	None
152F-027-00	F27	#2 Blower	1965	225 CFM	None
152F-039-00	F39	Metal Parts Degreaser	1962/1995		None
152F-043-00	F43	Dye Line Bath & Dryer	2005/2012	200 pph	None
152F-044-00	F44	South Melt Grid Burnout	1995	2280 CFM	None
152F-045-00	F45	North Melt Grid Burnout	1995	2280 CFM	None
152F-046-13	F46	#13 Spinner	1962/2003	400 pph	None

[1] For 45CSR13 permitted sources, the numbering system used for the emission points, control devices, and emission units should be consistent with the numbering system used in the 45CSR13 permit. For grandfathered sources, the numbering system should be consistent with registrations or emissions inventory previously submitted to DAQ. For emission points, control devices, and emissions units which have not been previously labeled, use the following 45CSR13 numbering system: 1S, 2S, 3S,... or other appropriate description for emission units; 1C, 2C, 3C,... or other appropriate designation for control devices; 1E, 2E, 3E, ... or other appropriate designation for emission points

Attachment E –

Emission Unit Forms

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
152F-002-02	Spinner Cluster #1	

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

System to extrude polymer into filaments

Manufacturer:	**Model number:**	**Serial number:**
DuPont Engineering & Davis Standard Spinners 2, 5, 7, 8, & 9	N/A	N/A
Construction date:	**Installation date:**	**Modification date(s):**
Prior to 1992	Prior to 1992	2012

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

1000 pph

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
1000 pph	4380 tons/yr	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)	0.200916	0.88
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	0.16	0.700
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, source and dates of emission factors, etc.).

Engineering estimate based upon emission factors on a per pound of product basis.

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.

____ 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.)

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 practices and limitations of 40 C.F.R. 60, Appendix A, Method 22 during periods of normal operation of emission sources that vent from the referenced emission points for a sufficient time interval to determine if there is a visible emission. Records of maintenance on this piece of equipment will be maintained in the electronic maintenance system. Records of the monthly visible emissions check 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:**
152F-003-20	Spinner Cluster #2	

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

System to extrude polymer into filaments

Manufacturer:	**Model number:**	**Serial number:**
Hartig & Davis Standard	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
Prior to 1992	Prior to 1992	2012

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

400 pph

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
400 pph	1752 tons/yr	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)	0.02	0.09
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	0.10	0.438
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, source and dates of emission factors, etc.).

Engineering estimate based upon emission factors on a per pound of product basis.

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.

____ 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.)

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 practices and limitations of 40 C.F.R. 60, Appendix A, Method 22 during periods of normal operation of emission sources that vent from the referenced emission points for a sufficient time interval to determine if there is a visible emission. Records of maintenance on this piece of equipment will be maintained in the electronic maintenance system. Records of the monthly visible emissions check 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:**
152F-005-21	#21 Spinner	

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

System to extrude polymer into filaments

Manufacturer:	**Model number:**	**Serial number:**
Davis Standard	Mark 5	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1999	1999	

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

200 pph

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
200 pph	876 tons/yr	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)	0.02	0.09
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, source and dates of emission factors, etc.).

Engineering estimate based upon emission factors on a per pound of product basis.

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.

____ 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.)

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 practices and limitations of 40 C.F.R. 60, Appendix A, Method 22 during periods of normal operation of emission sources that vent from the referenced emission points for a sufficient time interval to determine if there is a visible emission. Records of maintenance on this piece of equipment will be maintained in the electronic maintenance system. Records of the monthly visible emissions check 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:**
152F-006-00	B152 Bead Blast Unit	

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

Glass bead blast parts cleaning booth

Manufacturer:	**Model number:**	**Serial number:**
Snap On	YA436	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1978	1978	

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

270 CFM

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
1.2 pph	0.22 tons/yr	364 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)	0.12	0.022
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, source and dates of emission factors, etc.).

Engineering estimate, Model YA436 has an exhaust of 270 CFM which at 0.01% solids loading is equal to 0.12 pph. Unit is only used for short duration to clean metal parts.

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.

____ 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.)

Monitoring shall be accomplished by performing a visual inspection of the exhaust area on a monthly basis and routine cleaning of the exhaust filter.

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:**
152F-007-00	Welding Booth	

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

Spot exhaust to remove fumes from Maintenance welding operations

Manufacturer:	**Model number:**	**Serial number:**
Dayton Welding Hood	609	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1962	1962	

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

500 CFM

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
0.1125 pph	0.125 tons/yr	2080 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)	0.12	0.125
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, source and dates of emission factors, etc.).

Engineering estimate, at an exhaust of 500 CFM with 0.005% solids loading is equal to 0.1125 pph

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.

____ 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.)

For this insignifcant source good work practice avoiding excessive dust formation during maintenance operations will be applied.

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:**
152F-008-16	Spinner #16	

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

System to extrude polymer into abrasive filaments

Manufacturer:	**Model number:**	**Serial number:**
Werner Pfleiderer	ZSK-30	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1998	1998	

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

200 pph

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
200 pph	876 tons/yr	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)	0.125	0.54
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, source and dates of emission factors, etc.).

Engineering estimate based upon emission factors on a per pound of product basis.

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.

____ 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.)

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 practices and limitations of 40 C.F.R. 60, Appendix A, Method 22 during periods of normal operation of emission sources that vent from the referenced emission points for a sufficient time interval to determine if there is a visible emission. Records of maintenance on this piece of equipment will be maintained in the electronic maintenance system. Records of the monthly visible emissions check 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:**
152F-009-15	Spinner #15	

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

System to extrude polymer into abrasive filaments

Manufacturer:	**Model number:**	**Serial number:**
DuPont Engineering	40	N/A

Construction date:	**Installation date:**	**Modification date(s):**
Prior to 1962	Prior to 1962	

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

200 pph

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
200 pph	876 tons/yr	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)	0.125	0.54
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, source and dates of emission factors, etc.).

Engineering estimate based upon emission factors on a per pound of product basis.

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.

____ 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.)

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 practices and limitations of 40 C.F.R. 60, Appendix A, Method 22 during periods of normal operation of emission sources that vent from the referenced emission points for a sufficient time interval to determine if there is a visible emission. Records of maintenance on this piece of equipment will be maintained in the electronic maintenance system. Records of the monthly visible emissions check 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:**
152F-013-11	Spinner #11	

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

System to extrude polymer into abrasive filaments

Manufacturer:	**Model number:**	**Serial number:**
DuPont Engineering	30	N/A

Construction date:	**Installation date:**	**Modification date(s):**
Prior to 1962	Prior to 1962	

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

200 pph

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
200 pph	876 tons/yr	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)	0.125	0.54
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, source and dates of emission factors, etc.).

Engineering estimate based upon emission factors on a per pound of product basis.

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.

____ 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.)

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 practices and limitations of 40 C.F.R. 60, Appendix A, Method 22 during periods of normal operation of emission sources that vent from the referenced emission points for a sufficient time interval to determine if there is a visible emission. Records of maintenance on this piece of equipment will be maintained in the electronic maintenance system. Records of the monthly visible emissions check 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:**
152F-014-10	Spinner #10	

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

System to extrude polymer into abrasive filaments

Manufacturer:	**Model number:**	**Serial number:**
DuPont Engineering	40	N/A

Construction date:	**Installation date:**	**Modification date(s):**
Prior to 1962	Prior to 1962	

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

200 pph

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
200 pph	876 tons/yr	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)	0.125	0.54
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, source and dates of emission factors, etc.).

Engineering estimate based upon emission factors on a per pound of product basis.

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.

____ 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.)

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 practices and limitations of 40 C.F.R. 60, Appendix A, Method 22 during periods of normal operation of emission sources that vent from the referenced emission points for a sufficient time interval to determine if there is a visible emission. Records of maintenance on this piece of equipment will be maintained in the electronic maintenance system. Records of the monthly visible emissions check 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:**
152F-016-19	Spinner #19	

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

System to extrude polymer into filaments

Manufacturer:	**Model number:**	**Serial number:**
Berstorff	ZE-40	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1984	1984	

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

200 pph

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
200 pph	438 tons/yr	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 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)	0.0017	0.004
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})		
Total Particulate Matter (TSP)	0.1246	0.273
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	0.11	0.241
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, source and dates of emission factors, etc.).

Engineering estimate based upon emission factors on a per pound of product basis.

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.

____ 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.)

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 practices and limitations of 40 C.F.R. 60, Appendix A, Method 22 during periods of normal operation of emission sources that vent from the referenced emission points for a sufficient time interval to determine if there is a visible emission. Records of maintenance on this piece of equipment will be maintained in the electronic maintenance system. Records of the monthly visible emissions check 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:**
152F-017-00	Natural Gas Parts Oven	

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

System to clean and recover metal parts

Manufacturer:	**Model number:**	**Serial number:**
Pollution Control Products	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1995	1995	

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

5 pph

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
5 pph	5.2 tons/yr	2080 hr/yr

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

Does this emission unit combust fuel?	**If yes, is it fired direct or indirect?**
YES	Direct

Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
224,000 BTU/hr	224,000 BTU/hr

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
Natural Gas	N/A	N/A	1020 BTU/scf

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0.05	0.05
Nitrogen Oxides (NO_X)	0.03	0.031
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})		
Total Particulate Matter (TSP)	0.01	0.011
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	0.02	0.021
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, source and dates of emission factors, etc.).

Engineering estimate

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.

____ 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.)

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 practices and limitations of 40 C.F.R. 60, Appendix A, Method 22 during periods of normal operation of emission sources that vent from the referenced emission points for a sufficient time interval to determine if there is a visible emission. Records of maintenance on this piece of equipment will be maintained in the electronic maintenance system. Records of the monthly visible emissions check 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:**
152F-018-00	Procedyne Parts Oven & Bead Blaster	

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

System to clean and recover metal parts

Manufacturer:	**Model number:**	**Serial number:**
Procedyne Oven & Snap On Bead Blaster	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1962	1962	

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

10 pph

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
10 pph	10.4 tons/yr	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)	0.24	1.0512
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, source and dates of emission factors, etc.).		

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.

____ 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.)

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 practices and limitations of 40 C.F.R. 60, Appendix A, Method 22 during periods of normal operation of emission sources that vent from the referenced emission points for a sufficient time interval to determine if there is a visible emission. Records of maintenance on this piece of equipment will be maintained in the electronic maintenance system. Records of the monthly visible emissions check 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:**
152F-023-00	#6 Rework Blower	

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

System vacuum convey filament clippings for recovery

Manufacturer:	**Model number:**	**Serial number:**
Spencer Blower	VB-055-D	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1962	1962	

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

225 CFM

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
1015 pph	4446 tons/yr	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)	0.24	1.0512
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, source and dates of emission factors, etc.).

Engineering Estimate, from the performance curve at 60" H_2O vacuum a Spencer VB-055 transfers 225 CFM. Potential for emissions are larger polymer fibers (not considered particle matter) that would quickly settle out upon nearby roof.

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.

____ 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.)

Monitoring shall be accomplished by performing a visual inspection of the exhaust area on a monthly basis. If area shows any indication of waste filaments then steps to address and correct will be taken.

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:**
152F-024-00	#5 Rework Blower	

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

System vacuum convey filament clippings for recovery

Manufacturer:	**Model number:**	**Serial number:**
Spencer Blower	VB-055-D	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1962	1962	

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

225 CFM

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
1015 pph	4446 tons/yr	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)	0.24	1.0512
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, source and dates of emission factors, etc.).

Engineering Estimate, from the performance curve at 60" H_2O vacuum a Spencer VB-055 transfers 225 CFM. Potential for emissions are larger polymer fibers (not considered particle matter) that would quickly settle out upon nearby roof.

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.

____ 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.)

Monitoring shall be accomplished by performing a visual inspection of the exhaust area on a monthly basis. If area shows any indication of waste filaments then steps to address and correct will be taken.

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:**
152F-025-00	#4 Rework Blower	

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

System vacuum convey filament clippings for recovery

Manufacturer:	**Model number:**	**Serial number:**
Spencer Blower	VB-055-D	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1962	1962	

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

225 CFM

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
1015 pph	4446 tons/yr	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)	0.24	1.0512
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, source and dates of emission factors, etc.).

Engineering Estimate, from the performance curve at 60" H_2O vacuum a Spencer VB-055 transfers 225 CFM. Potential for emissions are larger polymer fibers (not considered particle matter) that would quickly settle out upon nearby roof.

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.

____ 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.)

Monitoring shall be accomplished by performing a visual inspection of the exhaust area on a monthly basis. If area shows any indication of waste filaments then steps to address and correct will be taken.

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:**
152F-026-00	#3 Rework Blower	

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

System vacuum convey filament clippings for recovery

Manufacturer:	**Model number:**	**Serial number:**
Spencer Blower	VB-055-D	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1962	1962	

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

225 CFM

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
1015 pph	4446 tons/yr	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)	0.24	1.0512
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, source and dates of emission factors, etc.).

Engineering Estimate, from the performance curve at 60" H_2O vacuum a Spencer VB-055 transfers 225 CFM. Potential for emissions are larger polymer fibers (not considered particle matter) that would quickly settle out upon nearby roof.

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.

____ 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.)

Monitoring shall be accomplished by performing a visual inspection of the exhaust area on a monthly basis. If area shows any indication of waste filaments then steps to address and correct will be taken.

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:**
152F-027-00	#2 Rework Blower	

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

System vacuum convey filament clippings for recovery

Manufacturer:	**Model number:**	**Serial number:**
Spencer Blower	VB-055-D	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1962	1962	

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

225 CFM

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
1015 pph	4446 tons/yr	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)	0.24	1.0512
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, source and dates of emission factors, etc.).

Engineering Estimate, from the performance curve at 60" H_2O vacuum a Spencer VB-055 transfers 225 CFM. Potential for emissions are larger polymer fibers (not considered particle matter) that would quickly settle out upon nearby roof.

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.
____ 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.)
Monitoring shall be accomplished by performing a visual inspection of the exhaust area on a monthly basis. If area shows any indication of waste filaments then steps to address and correct will be taken.
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:**
152F-039-00	Solvent Parts Cleaner	

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

Parts cleaner bath using solvent, fugitive venting

Manufacturer:	**Model number:**	**Serial number:**
Safety-Kleen	44	N/A

Construction date:	**Installation date:**	**Modification date(s):**
1962	1962	1995

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

32 gallon

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
1 batch	8760 batches	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)	1.120	4.91
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, source and dates of emission factors, etc.).

Emission factors were determined as if there were a vent moving 149ft3 / min of air over the opened solvent enclosure. It was determined that 6.69 lbs / hour are lost through evaporation. Examination of a typical parts cleaning cycle found that the enclosure was open for a total of 10 minute per cycle maximum. Thus a total of 1.12 pph was determined as the maximum emissions.

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.

Mineral spirits parts cleaners are subject to the cold cleaning provisions of 45CSR§21-30. 45CSR 21-30.3.a.4 ~ Provide a permanent, legible, conspicuous label, summarizing the operating requirements. 45 CSR 21-30.3.a.5 ~ Store waste solvent in covered containers. 45 CSR 21-30.3.a.6 ~ Close the cover whenever parts are not being handled in the cleaner. 45 CSR 21-30.3.a.7 ~ Drain the cleaned parts until dripping ceases. 45 CSR 21-30.3.a.8 ~ If used, supply a solvent spray that is solid fluid stream (not a fine, atomized, or shower-type spray) at a pressure that does not exceed 10 pounds per square inch. 45 CSR 21-30.3.a.9 ~ Degrease only material that are neither porous nor absorbent. 45 CSR 21-30.60.6.b ~ Comply with the requirements of section 5.2 regarding reports of excess emissions.

__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.)

All applicable testing, recordkeeping, and reporting are the same as required by 45CSR§21, Section 30 with the exception that records shall be maintained for a period of 5 years instead of two.

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**
152F-043-00	#2 & #4 Dye Baths and Dryers	152F-043-MC

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
System to dye nylon filaments

Manufacturer:	**Model number:**	**Serial number:**
DuPont Engineering	N/A	N/A
Construction date:	**Installation date:**	**Modification date(s):**
2005	2005	2012

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

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
400 pph	1752 tons/yr	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

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)	0.05	0.22
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	0.35	1.533
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,		

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.
____ Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate
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 practices and limitations of 40 C.F.R. 60, Appendix A, Method 22 during periods of normal operation of emission sources that vent from the referenced emission points for a sufficient time interval to determine if there is a visible emission. Records of maintenance on this piece of equipment will be maintained in the electronic maintenance system. Records of the monthly visible emissions check 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:**
152F-044-00	South Melt Grid Burnout	

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

Exhaust system for equipment maintenance

Manufacturer:	**Model number:**	**Serial number:**
Buffalo Forge	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
prior to 1995	prior to 1995	

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

2280 CFM

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
136800 CF	0.5 tons/yr	240 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)	0.5	0.06
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, source and dates of emission factors, etc.).

Engineering estimate based upon typical number of cleanings and amount of material left within the grids. This exhaust fan is connected to a common suction ductwork with 152F-044-00 and therefore only is used for half of the total maintenance operations.

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.

____ 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.)

For this insignificant source records on the number of burnout cleanings conducted each year will be maintained.

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:**
152F-045-00	North Melt Grid Burnout	

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

Exhaust system for equipment maintenance

Manufacturer:	**Model number:**	**Serial number:**
Buffalo Forge	N/A	N/A

Construction date:	**Installation date:**	**Modification date(s):**
prior to 1995	prior to 1995	

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

2280 CFM

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
136800 CF	0.5 tons/yr	240 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)	0.5	0.06
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, source and dates of emission factors, etc.).

Engineering estimate based upon typical number of cleanings and amount of material left within the grids. This exhaust fan is connected to a common suction ductwork with 152F-044-00 and therefore only is used for half of the total maintenance operations.

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.

____ 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.)

For this insignificant source records on the number of burnout cleanings conducted each year will be maintained.

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:**
152F-046-13	Spinner #13	

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

System to extrude polymer into abrasive filaments

Manufacturer:	**Model number:**	**Serial number:**
DuPont Engineering	40	N/A

Construction date:	**Installation date:**	**Modification date(s):**
Prior to 1962	Prior to 1962	2003

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

200 pph

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
200 pph	876 tons/yr	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)	0.125	0.54
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, source and dates of emission factors, etc.).

Engineering estimate based upon emission factors on a per pound of product basis.

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.

____ 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.)

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 practices and limitations of 40 C.F.R. 60, Appendix A, Method 22 during periods of normal operation of emission sources that vent from the referenced emission points for a sufficient time interval to determine if there is a visible emission. Records of maintenance on this piece of equipment will be maintained in the electronic maintenance system. Records of the monthly visible emissions check 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 F –

Schedule of Compliance Forms

None Required

Attachment G –

Air Pollution Control Device Forms

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	List all emission units associated with this control device.	
152F-043-MC	152F-043-00	
Manufacturer:	**Model number:**	**Installation date:**
Shawndra Products	Sparks Filter H23-0004-FF-040	Oct-11

Type of Air Pollution Control Device:
Demister element

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
Formic Acid	N/A	30.00%
Benzol Alcohol	N/A	30.00%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

In the ductwork near the four pick-up points on the exhaust system four demister elements have been installed to help coalesce vapors. The coalesced liquid is collected and diverted to biotreatment rather than exhausted as an air emission. The demonstrated efficiency was measured by material balance and collection of samples.

Is this device subject to the CAM requirements of 40 C.F.R. 64?	**NO**

If Yes, **Complete ATTACHMENT H**
If No**, Provide justification.**

Describe the parameters monitored and/or methods used to indicate performance of this control device.

The internal elements are cleaned whenever the exhaust has become restricted as noted by the Operators.

Attachment H –

Compliance Assurance Monitoring [CAM] Forms

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: