



---

**west virginia department of environmental protection**

---

Division of Air Quality  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304  
Phone: (304) 926-0475 • FAX: (304) 926-0479

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
www.dep.wv.gov

September 21, 2015

CERTIFIED MAIL  
91 7199 9991 7032 6242 2602

Robert J. Fehrenbacher  
Chemours  
P.O. Box 1217  
Washington, WV 26181-1217

Re: The Chemours Company FC, LLC  
Washington Works  
Permit No. R13-0181D  
Plant ID No. 107-00182

Dear Mr. Fehrenbacher:

Your application for a permit as required by Section 5 of 45CSR13 - "Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permit, General Permit, and Procedures for Evaluation" has been approved. The enclosed permit R13-0181DD is hereby issued pursuant to Subsection 5.7 of 45CSR13. Please be aware of the notification requirements in the permit which pertain to commencement of construction, modification, or relocation activities; startup of operations; and suspension of operations.

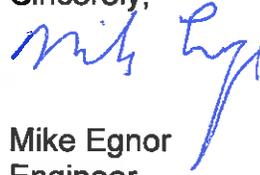
The source is subject to 45CSR30. The permittee has the duty to update the facility's Title V (45CSR30) permit application to reflect the changes permitted herein.

In accordance with 45CSR30- Operating Permit Program, 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.

Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [ §§22B-1-1 et seq. ], Chapter 22B of the Code of West Virginia. West Virginia Code §§22-5-14.

Should you have any questions or comments, please contact me at (304) 926-0499, extension 1208 or michael.egnor@wv.gov.

Sincerely,



Mike Egnor  
Engineer

Enclosures

# Class I Administrative Update



**R13- 0181D**

*This permit is issued in accordance with the West Virginia Air Pollution Control Act (West Virginia Code §§22-5-1 et seq.) and 45 C.S.R. 13 – Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permits, General Permits and Procedures for Evaluation. The permittee identified at the above-referenced facility is authorized to construct the stationary sources of air pollutants identified herein in accordance with all terms and conditions of this permit.*

*Issued to:*

**The Chemours Company FC, LLC**  
Washington Works  
107-00182

A handwritten signature in blue ink, appearing to read "William F. Durham", written over a horizontal line.

**William F. Durham**  
Director

*Issued: November 13, 2015 • Effective: November 13, 2015*

This permit will supercede and replace Permit R13-0181C.

Facility Location: Washington, Wood County, West Virginia  
Mailing Address: P.O. Box 1217, Washington, WV 26181-1217  
Facility Description: "A" Area - Acrylic Resins  
SIC Codes: 2819: Chemicals and Allied Products – Industrial Inorganic Chemicals  
2821: Chemicals and Allied Products – Plastics Materials and Resins  
2824: Chemicals and Allied Products – Organic Fibers, Noncellulosic  
UTM Coordinates: 442.310 km Easting • 4,346.800 km Northing • Zone 17  
Permit Type: Class I Administrative Update  
Description of Change: The applicant proposed removing some tanks from service, adding some tanks back into service, and switching one of their lab hoods to two lab hoods (A471S and A472S). This will result in a reduction of annual permitted emission limits associated with these changes. The Facility Name has been changed from "E.I. du Pont de Nemours" to "The Chemours Company FC, LLC" and the Facility ID has been changed from "107-00001" to "107-00182".

*Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §§22-5-14.*

---

*The source is subject to 45CSR30. The permittee has the duty to update the facility's Title V (45CSR30) permit application to reflect the changes permitted herein.*

Table of Contents

**1.0. Emission Units.....4**

**2.0. General Conditions.....7**

    2.1. Definitions .....7

    2.2. Acronyms .....7

    2.3. Authority .....8

    2.5. Duty to Comply .....8

    2.6. Duty to Provide Information.....8

    2.7. Duty to Supplement and Correct Information .....8

    2.8. Administrative Update.....9

    2.9. Permit Modification.....9

    2.10 Major Permit Modification.....9

    2.11. Inspection and Entry.....9

    2.12. Emergency .....9

    2.13. Need to Halt or Reduce Activity Not a Defense .....10

    2.14. Suspension of Activities .....10

    2.15. Property Rights.....10

    2.16. Severability.....10

    2.17. Transferability .....11

    2.18. Notification Requirements.....11

    2.19. Credible Evidence .....11

**3.0. Facility-Wide Requirements .....12**

    3.1. Limitations and Standards .....12

    3.2. Monitoring Requirements.....12

    3.3. Testing Requirements .....12

    3.4. Recordkeeping Requirements.....13

    3.5. Reporting Requirements.....14

**4.0. Source-Specific Requirements.....15**

    4.1. Limitations and Standards .....15

    4.2. Monitoring Requirements.....18

    4.3. Testing Requirements .....18

    4.4. Recordkeeping Requirements.....18

    4.5. Reporting Requirements .....19

**APPENDIX A - Example Data Forms .....20**

    ATTACHMENT A – Monthly Production & Throughput Report .....21

    ATTACHMENT B – Monthly Emissions Report .....22

    ATTACHMENT C – Annual Emissions Report .....23

    ATTACHMENT D – Monthly Opacity Report.....26

**CERTIFICATION OF DATA ACCURACY.....27**

**1.0. Emission Units**

<b>Emission Unit ID</b>	<b>Emission Point ID</b>	<b>Emission Unit Description</b>	<b>Year Installed</b>	<b>Design Capacity</b>	<b>Control Device</b>
A010.1S	A010E	1A Storage Tank	--	--	A010C
A020S	A020E	7E Storage Tank	--	--	NA
A030S	A030E	6W Storage Tank	--	--	NA
A040S	A040E	4W Storage Tank	--	--	NA
A040.1S	A040.1E	4E Storage Tank	--	--	NA
A070S	A070E	2 Storage Tank	--	--	NA
A080.1S	A080E	5 Storage Tank	--	--	NA
A110S	A110E	#6 Indoor Storage Tank	--	--	NA
A110.1S	A110E	#5 Indoor Storage Tank	--	--	NA
A130.2S	A130E A140E	#4 Indoor Storage Tank	--	--	NA
A130.3S	A130E A140E	#2 Indoor Storage Tank	--	--	NA
A130.6S	A130.6E	DDM Indoor Storage Tank	--	--	NA
A150S	A150E	Ingredient 10 Storage Tank	--	--	NA
A160.1S	A160E	Solids Storage Hopper	--	--	NA
A160.2S	A160E	Solids Storage Hopper	--	--	NA
A160.3S	A160E	Solids Storage Hopper	--	--	NA
A160.4S	A160E	Solids Storage Hopper	--	--	NA
A180S	A180E	Initiator Mix Tank	--	--	A180C
A191S	A190E	Initiator Run Tank	--	--	NA
A220S	A130E A140E	Ingredient 12 Run Tank	--	--	NA
A220.1S	A200E	Ingredient 12 Hold Tank	--	--	NA
A220.2S	A200E	Ingredient 12 Mix Tank	--	--	NA
A260S	A260E	Ingredient 22 System Silo	--	--	A260C
A260.1S	A200E	Ingredient 22 Hold Tank	--	--	NA
A260.2S	A200E	Ingredient 22 Storage Tank	--	--	NA
A280S	A290E	Water Phase Tank	--	--	NA
A290.1S	A290E	Monomer Phase Tank	--	--	NA
A290.2S	A290E	Liquids Microscale Tank	--	--	NA
A290.4S	A160E	Solids Microscale Tank	--	--	NA
A310.1S	A310E	#1 Slurry Tank	--	--	NA
A310.2S	A310E	#3 Slurry Tank	--	--	NA

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
A320S	A320E	#4 Blend Tank	--	--	NA
A340S	A340E	#1 Centrifuge	--	--	NA
A350.1S	A350E	#1 Predryer	--	--	A350.1C
A350.2S	A350E	#1 Predryer Cyclone	--	--	A350.1C
A350.3S	A350E	#1 Dryer	--	--	A350.1C
A350.4S	A350E	#1 Dryer Fines Cyclone	--	--	A350.1C
A350.5S	A350E	#1 Screener	--	--	A350.2C
A350.6S	A350E	#1 Screener Overs Hopper	--	--	A350.2C
A350.7S	A350E	#1 Product Transfer Cyclone	--	--	A350.2C
A350.8S	A350E	#1 Packout	--	--	A350.2C
A380S	A380E	#2 Centrifuge	--	--	NA
A390.1S	A390.1E A390.2E	#2 Predryer	--	--	A390.1C A390.2C
A390.2S	A390.1E A390.2E	#2 Predryer Cyclone	--	--	A390.1C A390.2C
A390.3S	A390.1E A390.2E	#2 Dryer	--	--	A390.1C A390.2C
A390.4S	A390.8E	#2. Screener	--	--	A390.8C
A390.6S	NA	Manual Bagger	--	--	A390.6C
A390.7S	A350E	#2 Packout	--	--	A350.2C
A390.8S	A390.8E	#2 Product Transfer Cyclone	--	--	A390.8C
A440.1S	A290E A450E A460E	#1 Polykettle	--	--	NA
A440.2S	A290E A450E A460E	#2 Polykettle	--	--	NA
A440.3S	A290E A450E A460E	#3 Polykettle	--	--	NA
A440.4S	A300E A450E A460E	#4 Polykettle	--	--	NA
A440.5S	A300E A450E A460E	#5 Polykettle	--	--	NA
A LabHoods A471S/A472S	A LabHoods A471E/472E	A Labhoods	--	--	NA
A010C	A010E	Carbon Adsorber	--	--	NA
A260C	A260E	Bag Filter	--	--	NA
A350.1C	A350E	Bag Filter	--	--	NA

<b>Emission Unit ID</b>	<b>Emission Point ID</b>	<b>Emission Unit Description</b>	<b>Year Installed</b>	<b>Design Capacity</b>	<b>Control Device</b>
A350.2C	A350E	Bag Filter	--	--	NA
A390.1C	A390.1E	Water Scrubber	--	--	NA
A390.2C	A390.2E	Bag Filter	--	--	NA
A390.6C	NA	Bag Filter	--	--	NA
A390.8C	A390.8E	Bag Filter	--	--	NA

**2.0. General Conditions**

**2.1. Definitions**

- 2.1.1. All references to the “West Virginia Air Pollution Control Act” or the “Air Pollution Control Act” mean those provisions contained in W.Va. Code §§ 22-5-1 to 22-5-18.
- 2.1.2. The “Clean Air Act” means those provisions contained in 42 U.S.C. §§ 7401 to 7671q, and regulations promulgated thereunder.
- 2.1.3. “Secretary” means the Secretary of the Department of Environmental Protection or such other person to whom the Secretary has delegated authority or duties pursuant to W.Va. Code §§ 22-1-6 or 22-1-8 (45CSR§30-2.12.). The Director of the Division of Air Quality is the Secretary’s designated representative for the purposes of this permit.

**2.2. Acronyms**

<b>CAAA</b>	Clean Air Act Amendments	<b>NO<sub>x</sub></b>	Nitrogen Oxides
<b>CBI</b>	Confidential Business Information	<b>NSPS</b>	New Source Performance Standards
<b>CEM</b>	Continuous Emission Monitor	<b>PM</b>	Particulate Matter
<b>CES</b>	Certified Emission Statement	<b>PM<sub>2.5</sub></b>	Particulate Matter less than 2.5 μm in diameter
<b>C.F.R. or CFR</b>	Code of Federal Regulations	<b>PM<sub>10</sub></b>	Particulate Matter less than 10μm in diameter
<b>CO</b>	Carbon Monoxide	<b>Ppb</b>	Pounds per Batch
<b>C.S.R. or CSR</b>	Codes of State Rules	<b>Pph</b>	Pounds per Hour
<b>DAQ</b>	Division of Air Quality	<b>Ppm</b>	Parts per Million
<b>DEP</b>	Department of Environmental Protection	<b>Ppm<sub>v</sub> or ppmv</b>	Parts per Million by Volume
<b>dscm</b>	Dry Standard Cubic Meter	<b>PSD</b>	Prevention of Significant Deterioration
<b>FOIA</b>	Freedom of Information Act	<b>Psi</b>	Pounds per Square Inch
<b>HAP</b>	Hazardous Air Pollutant	<b>SIC</b>	Standard Industrial Classification
<b>HON</b>	Hazardous Organic NESHAP	<b>SIP</b>	State Implementation Plan
<b>HP</b>	Horsepower	<b>SO<sub>2</sub></b>	Sulfur Dioxide
<b>lbs/hr</b>	Pounds per Hour	<b>TAP</b>	Toxic Air Pollutant
<b>LDAR</b>	Leak Detection and Repair	<b>TPY</b>	Tons per Year
<b>M</b>	Thousand	<b>TRS</b>	Total Reduced Sulfur
<b>MACT</b>	Maximum Achievable Control Technology	<b>TSP</b>	Total Suspended Particulate
<b>MDHI</b>	Maximum Design Heat Input	<b>USEPA</b>	United States Environmental Protection Agency
<b>MM</b>	Million	<b>UTM</b>	Universal Transverse Mercator
<b>MMBtu/hr or mmbtu/hr</b>	Million British Thermal Units per Hour	<b>VEE</b>	Visual Emissions Evaluation
<b>MMCF/hr or mmcf/hr</b>	Million Cubic Feet per Hour	<b>VOC</b>	Volatile Organic Compounds
<b>NA</b>	Not Applicable	<b>VOL</b>	Volatile Organic Liquids
<b>NAAQS</b>	National Ambient Air Quality Standards		
<b>NESHAPS</b>	National Emissions Standards for Hazardous Air Pollutants		

### **2.3. Authority**

This permit is issued in accordance with West Virginia air pollution control law W.Va. Code §§ 22-5-1. et seq. and the following Legislative Rules promulgated thereunder:

- 2.3.1. 45CSR13 – *Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permits, General Permits and Procedures for Evaluation;*
- 2.4.1. This permit supersedes and replaces previously issued Permit R13-0181B. This Permit shall remain valid, continuous and in effect unless it is revised, suspended, revoked or otherwise changed under an applicable provision of 45CSR13 or any other applicable legislative rule;

### **2.5. Duty to Comply**

- 2.5.1. The permitted facility shall be constructed and operated in accordance with the plans and specifications filed in Permit Application R13-0181, R13-0181A, R13-0181B, and R13-0181C, and any modifications, administrative updates, or amendments thereto. The Secretary may suspend or revoke a permit if the plans and specifications upon which the approval was based are not adhered to;  
[45CSR§§13-5.11 and -10.3.]
- 2.5.2. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the West Virginia Code and the Clean Air Act and is grounds for enforcement action by the Secretary or USEPA;
- 2.5.3. Violations of any of the conditions contained in this permit, or incorporated herein by reference, may subject the permittee to civil and/or criminal penalties for each violation and further action or remedies as provided by West Virginia Code 22-5-6 and 22-5-7;
- 2.5.4. Approval of this permit does not relieve the permittee herein of the responsibility to apply for and obtain all other permits, licenses, and/or approvals from other agencies; i.e., local, state, and federal, which may have jurisdiction over the construction and/or operation of the source(s) and/or facility herein permitted.

### **2.6. Duty to Provide Information**

The permittee shall furnish to the Secretary within a reasonable time any information the Secretary may request in writing to determine whether cause exists for administratively updating, modifying, revoking, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Secretary copies of records to be kept by the permittee. For information claimed to be confidential, the permittee shall furnish such records to the Secretary along with a claim of confidentiality in accordance with 45CSR31. If confidential information is to be sent to USEPA, the permittee shall directly provide such information to USEPA along with a claim of confidentiality in accordance with 40 C.F.R. Part 2.

### **2.7. Duty to Supplement and Correct Information**

Upon becoming aware of a failure to submit any relevant facts or a submittal of incorrect information in any permit application, the permittee shall promptly submit to the Secretary such supplemental facts or corrected information.

## **2.8. Administrative Update**

The permittee may request an administrative update to this permit as defined in and according to the procedures specified in 45CSR13.

[45CSR§13-4.]

## **2.9. Permit Modification**

The permittee may request a minor modification to this permit as defined in and according to the procedures specified in 45CSR13.

[45CSR§13-5.4.]

## **2.10 Major Permit Modification**

The permittee may request a major modification to this permit as defined in and according to the procedures specified in 45CSR14 or 45CSR19, as appropriate.

[45CSR§14-7 or 45CSR§19-14]

## **2.11. Inspection and Entry**

The permittee shall allow any authorized representative of the Secretary, upon the presentation of credentials and other documents as may be required by law, to perform the following:

- a. At all reasonable times (including all times in which the facility is in operation) enter upon the permittee's premises where a source is located or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- c. Inspect at reasonable times (including all times in which the facility is in operation) any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit;
- d. Sample or monitor at reasonable times substances or parameters to determine compliance with the permit or applicable requirements or ascertain the amounts and types of air pollutants discharged.

## **2.12. Emergency**

2.12.1. An "emergency" means any situation arising from sudden and reasonable unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

2.12.2. Effect of any emergency. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions of Section 2.12.3 are met.

- 2.12.3. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:
- a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
  - b. The permitted facility was at the time being properly operated;
  - c. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
  - d. The permittee submitted notice of the emergency to the Secretary within one (1) working day of the time when emission limitations were exceeded due to the emergency and made a request for variance, and as applicable rules provide. This notice must contain a detailed description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.
- 2.12.4. In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.
- 2.12.5. The provisions of this section are in addition to any emergency or upset provision contained in any applicable requirement.

**2.13. Need to Halt or Reduce Activity Not a Defense**

It shall not be a defense for a permittee in an enforcement action that it should have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. However, nothing in this paragraph shall be construed as precluding consideration of a need to halt or reduce activity as a mitigating factor in determining penalties for noncompliance if the health, safety, or environmental impacts of halting or reducing operations would be more serious than the impacts of continued operations.

**2.14. Suspension of Activities**

In the event the permittee should deem it necessary to suspend, for a period in excess of sixty (60) consecutive calendar days, the operations authorized by this permit, the permittee shall notify the Secretary, in writing, within two (2) calendar weeks of the passing of the sixtieth (60) day of the suspension period.

**2.15. Property Rights**

This permit does not convey any property rights of any sort or any exclusive privilege.

**2.16. Severability**

The provisions of this permit are severable and should any provision(s) be declared by a court of competent jurisdiction to be invalid or unenforceable, all other provisions shall remain in full force and effect.

**2.17. Transferability**

This permit is transferable in accordance with the requirements outlined in Section 10.1 of 45CSR13. [45CSR§13-10.1.]

**2.18. Notification Requirements**

The permittee shall notify the Secretary, in writing, no later than thirty (30) calendar days after the actual startup of the operations authorized under this permit.

**2.19. Credible Evidence**

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defense otherwise available to the permittee including, but not limited to, any challenge to the credible evidence rule in the context of any future proceeding.

### 3.0. Facility-Wide Requirements

#### 3.1. Limitations and Standards

- 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, owner, or operator must notify the Secretary at least ten (10) working days prior to the commencement of any asbestos removal on the forms prescribed by the Secretary if the permittee is subject to the notification requirements of 40 C.F.R. § 61.145(b)(3)(i). The USEPA, the Division of Waste Management, and the Bureau for Public Health - Environmental Health require a copy of this notice to be sent to them.  
[40CFR§61.145(b) and 45CSR§15]
- 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.]

#### 3.2. Monitoring Requirements

*[Reserved]*

#### 3.3. Testing Requirements

- 3.3.1. **Stack testing.** As per provisions set forth in this permit or as otherwise required by the Secretary, in accordance with the West Virginia Code, underlying regulations, permits and orders, the permittee shall conduct test(s) to determine compliance with the emission limitations set forth in this permit and/or established or set forth in underlying documents. The Secretary, or his duly authorized representative, may at his option witness or conduct such test(s). Should the Secretary

exercise his option to conduct such test(s), the operator shall provide all necessary sampling connections and sampling ports to be located in such manner as the Secretary may require, power for test equipment and the required safety equipment, such as scaffolding, railings and ladders, to comply with generally accepted good safety practices. Such tests shall be conducted in accordance with the methods and procedures set forth in this permit or as otherwise approved or specified by the Secretary in accordance with the following:

- a. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with 40 C.F.R. Parts 60, 61, and 63 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 may be revised in accordance with 45CSR§13-4. or 45CSR§13-5.4 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 may be revised in accordance with 45CSR§13-4. or 45CSR§13-5.4 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)]

### **3.4. Recordkeeping Requirements**

- 3.4.1. **Retention of records.** The permittee shall maintain records of all information (including monitoring data, support information, reports, and notifications) required by this permit recorded in a form suitable and readily available for expeditious inspection and review. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation. The files shall be maintained for at least five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent two (2) years of data shall be maintained on site. The remaining three (3) years of data may be maintained off site, but must remain accessible within a reasonable time. Where appropriate, the permittee may maintain records electronically (on a computer, on computer floppy disks, CDs, DVDs, or magnetic tape disks), on microfilm, or on microfiche.

- 3.4.2. **Odors.** For the purposes of 45CSR4, the permittee shall maintain a record of all odor complaints received, any investigation performed in response to such a complaint, and any responsive action(s) taken.  
[45CSR§4. *State Enforceable Only.*]

### 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.
- 3.5.2. **Confidential information.** A permittee may request confidential treatment for the submission of reporting required by this permit pursuant to the limitations and procedures of W.Va. Code § 22-5-10 and 45CSR31.
- 3.5.3. **Correspondence.** 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 57<sup>th</sup> Street  
Charleston, WV 25304-2345

**If to the US EPA:**  
Associate Director  
Office of Enforcement and Permits Review  
(3AP12)  
U.S. Environmental Protection Agency  
Region III  
1650 Arch Street  
Philadelphia, PA 19103-2029

#### 3.5.4. Operating Fee

- 3.5.4.1. In accordance with 45CSR30 – Operating Permit Program, 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.
- 3.5.5. **Emission inventory.** At such time(s) as the Secretary may designate, the permittee herein shall prepare and submit an emission inventory for the previous year, addressing the emissions from the facility and/or process(es) authorized herein, in accordance with the emission inventory submittal requirements of the Division of Air Quality. After the initial submittal, the Secretary may, based upon the type and quantity of the pollutants emitted, establish a frequency other than on an annual basis.

**4.0. Source-Specific Requirements**

**4.1. Limitations and Standards**

4.1.1. Maximum allowable hourly and annual emissions from the “A” Area – Acrylic Resins, shall not exceed the limitations set forth in Table 4.1.1.

**Table 4.1.1. Emission Limits for “A” Area – Acrylic Resins**

Emission Point	Pollutant	Emission Limit	
		pph	tpy
A010E	VOC	0.2	0.02
	Ethyl Acrylate	0.17	0.011
A020E	VOC	2.5	0.04
A030E	VOC	1.7	0.04
A040E	VOC	1.7	0.04
A040.1E	VOC	1.7	0.04
A070E	VOC	5.3	0.14
A080E	VOC	4.2	1.19
	Methyl Methacrylate	4.16	1.188
A110E	VOC	0.1	0.01
A130E	VOC	1.5	0.10
	Methyl Methacrylate	0.81	0.09
A140E	VOC	1.5	0.10
	Methyl Methacrylate	0.81	0.09
A160E	PM <sub>10</sub>	1.3	0.09
A260E	PM <sub>10</sub>	0.6	0.01
A290E	VOC	11.8	29.4
	Acrylic Acid	0.01	0.016
	Ethyl Acrylate	1.20	3.0
	Methyl Methacrylate	8.82	22.1
A300E	VOC	0.6	1.360
	Acrylic Acid	0.01	0.001
	Ethyl Acrylate	0.06	0.134
	Methyl Methacrylate	0.41	1.025
A310E	VOC	0.24	0.587
	Acrylic Acid	0.01	0.001
	Ethyl Acrylate	0.03	0.060
	Methyl Methacrylate	0.18	0.441

Emission Point	Pollutant	Emission Limit	
		pph	tpy
A320E	VOC	0.17	0.29
	Acrylic Acid	0.01	0.001
	Ethyl Acrylate	0.02	0.030
	Methyl Methacrylate	0.09	0.221
A350E	PM <sub>10</sub>	1.8	4.36
	VOC	0.1	0.13
	Acrylic Acid	0.01	0.001
	Ethyl Acrylate	0.01	0.024
	Methyl Methacrylate	0.02	0.042
A390.1E	PM <sub>10</sub>	1.1	3.84
	VOC	0.1	0.09
	Acrylic Acid	0.01	0.001
	Ethyl Acrylate	0.01	0.016
	Methyl Methacrylate	0.01	0.027
A390.2E	PM <sub>10</sub>	1.1	3.84
	VOC	0.1	0.09
	Acrylic Acid	0.01	0.001
	Ethyl Acrylate	0.01	0.016
	Methyl Methacrylate	0.01	0.027
A390.8E	PM <sub>10</sub>	0.1	0.13
A450E	VOC	0.3	0.72
	Acrylic Acid	0.01	0.001
	Ethyl Acrylate	0.03	0.060
	Methyl Methacrylate	0.18	0.441
ALabHoods (A471E/A472E)	Methylene Chloride	0.01	0.001
	Toluene	0.01	0.001
	Methanol	0.01	0.001

[Compliance with this streamline condition assures compliance with 45CSR§13-5.11. and 45CSR§7-4.1.]

- 4.1.2. The emission units listed in Table 4.1.2 have minor PM<sub>10</sub> and VOC emissions, not to exceed a combined 10 pounds per year of PM<sub>10</sub> and 50 pounds per year of VOC.

**Table 4.1.2. Insignificant Sources and Activities**

Emission Unit ID	Emission Point ID
A130.6S	A130.6E
A150S	A150E
A180S	A180E
A191S	A190E

Emission Unit ID	Emission Point ID
A220S	A130E & A140E
A260.1S	NA
A280S	A290E
A340S	A340E
A380S	A380E
A440.1 - .5S	A460E
A LabHoods (A471S/A472S)	A471E/A472E

- 4.1.3. The permittee shall not cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any process source operation which is greater than twenty (20) percent opacity, except as noted in Section 4.1.4.  
**[45CSR§7-3.1.]**
- 4.1.4. The provisions of Section 4.1.3 shall not apply to smoke and/or particulate matter emitted from any process source operation which is less than forty (40) percent opacity for any period or periods aggregating no more than five (5) minutes in any sixty (60) minute period.  
**[45CSR§7-3.2.]**
- 4.1.5. The permittee shall not cause, suffer, allow or permit visible emissions from any storage structure(s) associated with any manufacturing process(es) that pursuant to Section 4.1.6 is required to have a full enclosure and be equipped with a particulate matter control device.  
**[45CSR§7-3.7.]**
- 4.1.6. The permittee shall not 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.]**
- 4.1.7. The permittee 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.]**
- 4.1.8. **Operation and Maintenance of Air Pollution Control Equipment.** The permittee shall, to the extent practicable, install, maintain, and operate all pollution control equipment listed in Section 1.0 and associated monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions, or comply with any more stringent limits set forth in this permit or as set forth by any State rule, Federal regulation, or alternative control plan approved by the Secretary.  
**[45CSR§13-5.11.]**

## 4.2. Monitoring Requirements

- 4.2.1. For the purpose of determining compliance with the opacity limits set forth in Sections 4.1.3 and 4.1.4, the permittee shall conduct opacity monitoring for all emission points and equipment subject to an opacity limit under 45CSR§7 and for which particulate emission limits have been set in Section 4.1.1.

Monitoring shall be conducted at least once per month. These checks shall be performed 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. If visible emissions are identified during the visible emission check, or at any other time regardless of operations, the permittee shall conduct a visual emission evaluation per 45CSR§7A within three (3) days of the first identification of visible emissions. A 45CSR7A evaluation shall not be required if the visible emission condition is corrected within seventy-two (72) hours after the visible emission and the sources are operating at normal conditions.

## 4.3. Testing Requirements

*[Reserved]*

## 4.4. Recordkeeping Requirements

- 4.4.1. **Record of Monitoring.** 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.
- 4.4.2. **Record of Maintenance of Air Pollution Control Equipment.** For all pollution control equipment listed in Section 1.0, the permittee shall maintain accurate records of all required pollution control equipment inspection and/or preventative maintenance procedures.
- 4.4.3. **Record of Malfunctions of Air Pollution Control Equipment.** For all air pollution control equipment listed in Section 1.0, the permittee shall maintain records of the occurrence and duration of any malfunction or operational shutdown of the air pollution control equipment during which excess emissions occur. For each such case, the following information shall be recorded:
- a. The equipment involved.
  - b. Steps taken to minimize emissions during the event.
  - c. The duration of the event.
  - d. The estimated increase in emissions during the event.

For each such case associated with an equipment malfunction, the additional information shall also be recorded:

- e. The cause of the malfunction.
  - f. Steps taken to correct the malfunction.
  - g. Any changes or modifications to equipment or procedures that would help prevent future recurrences of the malfunction.
- 4.4.4. The permittee shall maintain monthly records of monitoring parameters on forms equivalent to the example form supplied as Attachment A.
- 4.4.5. The permittee shall maintain records equivalent to the example emission reports supplied as Attachments B and C.
- 4.4.6. The permittee shall maintain records of all monitoring data required by Section 4.2.1 documenting the date and time of each visible emission check, the emission point or equipment identification number, the name or means of identification of the responsible observer, the results of the check, and, if necessary, all corrective actions taken. Such records shall be equivalent to the example form supplied as Appendix A, Attachment D. Should a visible emission observation be required to be performed per the requirements specified in 45CSR§7A, the data records of each observation shall be maintained per the requirements of 45CSR§7A. For an emission unit out of service during the normal monthly evaluation, the record of observation may note "out of service" (OOS) or equivalent.

**4.5. Reporting Requirements**  
*[Reserved]*

**APPENDIX A**  
**(Example Data Forms)**

**ATTACHMENT A – Monthly Production & Throughput Report**

The Chemours Company FC, LLC - Washington Works  
 Plant ID No. 107-00182; Permit No. R13-0181D

Current Month and Year: \_\_\_\_\_  
 Data Entered By: \_\_\_\_\_  
 Date Entered: \_\_\_\_\_  
 Reviewed By: \_\_\_\_\_  
 Date Reviewed: \_\_\_\_\_

**Storage Tanks**

Equipment ID	Material Stored	Max Fill Rate (gpm)	Monthly Throughput (gal)	Most Recent 11 <sup>1</sup> Month (gal)	12 Month Total Throughput (gal)	12 Month Total Emissions <sup>2</sup>		
						Breathing	Working	Total
A010.1S	EA							
A020S	VOC							
A030S	VOC							
A040S	VOC							
A070S	VOC							
A080.1S	MMA							
A070S	VOC							
A110S	MAA							
A130.1S	VOC							
A130.2S	VOC							
A130.3S	VOC							
A130.4S	VOC							
A130.6S	VOC							

**Raw Material Consumption – Solids**

Equipment ID	Monthly Total (lb)
A160.1S	
A160.2S	
A160.3S	
A160.4S	
A260S	

**Production – Batches**

Maximum batches weighed in one hour	
Total batches for this month	

**Production – Finishing**

Max. Hourly Production – Line 1	(lb)
Max. Hourly Production – Line 2	(lb)
Total Monthly Production – Line 1	(lb)
Total Monthly Production – Line 2	(lb)
#2 Dryer Flow (Choose control device that was used most frequently this month)	

- (1) This record shall be maintained per Section 4.4.4.
- (2) From TANKS 4.0 (or later version) Program.

**ATTACHMENT B – Monthly Emissions Report**

The Chemours Company FC, LLC - Washington Works  
 Plant ID No. 107-00182; Permit No. R13-0181D

**Storage Tanks**

Emission Point ID	Equipment ID	Control Device ID	VOC		EA		MMA	
			Max. pph	ppy <sup>2</sup>	Max. pph	ppy <sup>2</sup>	Max. pph	ppy <sup>2</sup>
A010E	A010.1S	A010C						
A020E	A020S	NA						
A030E	A030S	NA						
A040E	A040S	NA						
A040.1E	A040.1S	N/A						
A050E	A050S	N/A						
A070E	A070S	NA						
A080E	A080.1S	N/A						
A110E	A110S	NA						
A120E	A120S	N/A						
A130E	A130.2S, .3S, 6S	NA						
A140E	A130.2S, .3S, 6S	NA						

**Process Equipment – VOC & HAP**

Emission Point ID	Equipment ID	Control Device ID	VOC		AA		EA		MMA	
			Max. pph	ppy <sup>2</sup>	Max. pph	ppy <sup>2</sup>	Max. pph	Max. pph	ppy <sup>2</sup>	ppy <sup>2</sup>
A290E	A290.1 - .3S, A440.1 - .3S	NA								
A300E	A440.4 & .5S	NA								
A450E	A440.1 - .5S	NA								
A310E	A310.1 & .2S	NA								
A320E	A320S	NA								
A350E	A350.3S	A350.1C								
A390.1E	A390.1S, A390.2S, A390.3S	A390.1C								
A390.2E	A390.1S, A390.2S, A390.3S	A390.2C								

**Process Equipment – PM<sub>10</sub>**

Emission Point ID	Equipment ID	Control Device ID	PM <sub>10</sub>	
			Max. pph	ppy <sup>2</sup>
A160E	A160.1 - .4S	NA		
A260E	A260S	A260C		
A350E	A350.2S, A350.3S, A350.4S, A350.6S, A350.7S, A350.8S, A390.5S, A390.7S	A350.1 & .2C		
A390.1E	A390.1S, A390.2S, A390.3S	A390.1C		
A390.2E	A390.1S, A390.2S, A390.3S	A390.2C		
A390.8E	A390.8S	NA		

- (1) This record shall be maintained per Section 4.4.5.
- (2) Rolling 12 month totals from TANKS 4.0 (or later version) program
- (3) A390.3S will vent either through A390.1E or A390.2E, but not both at the same time.
- (4) Sources with optional emission cases will only vent from one at a time.

**ATTACHMENT C – Annual Emissions Report**  
 The Chemours Company FC, LLC - Washington Works  
 Plant ID No. 107-00182; Permit No. R13-0181D  
 Current Year: \_\_\_\_\_

**Storage Tank Throughput Summary**

Emission Point ID	12-Month Total Throughput (gal)												12 Month Total
	DEC	NOV	OCT	SEP	AUG	JUL	JUN	MAY	APR	MAR	FEB	JAN	
A010E													
A020E													
A030E													
A040E													
A070E													
A080E													
A040.1E													
A110E													
A130E/A140E													
A130E/A140E													
A130E/A140E													
A130.6E													

**Acrylic Acid (AA) Emissions (lb)**

Emission Point ID	DEC	NOV	OCT	SEP	AUG	JUL	JUN	MAY	APR	MAR	FEB	JAN	12 Month Total
A290E													
A300E													
A450E													
A310E													
A320E													

**Acrylic Acid (AA) Emissions (lb)**

Emission Point ID	DEC	NOV	OCT	SEP	AUG	JUL	JUN	MAY	APR	MAR	FEB	JAN	12 Month Total
A010E													
A290E													
A300E													
A450E													
A310E													
A320E													
A350E													
A390.1E													

A390.2E														

**Methyl Methacrylate (MMA) Emissions (lb)**

Emission Point ID	DEC	NOV	OCT	SEP	AUG	JUL	JUN	MAY	APR	MAR	FEB	JAN	12 Month Total
A080E													
A130E													
A140E													
A290E													
A300E													
A450E													
A310E													
A320E													
A350E													
A390.1E													
A390.2E													

**VOC Emissions (lb)**

Emission Point ID	DEC	NOV	OCT	SEP	AUG	JUL	JUN	MAY	APR	MAR	FEB	JAN	12 Month Total
A010E													
A020E													
A030E													
A040E													
A040.1E													
A050E													
A070E													
A080E													
A110E													
A130E													
A140E													
A290E													
A300E													
A310E													
A320E													
A350E													
A390.1E													
A390.2E													
A450E													

--	--	--	--	--	--	--	--	--	--	--	--	--	--

**PM<sub>10</sub> Emissions (lb)**

Emission Point ID	DEC	NOV	OCT	SEP	AUG	JUL	JUN	MAY	APR	MAR	FEB	JAN	12 Month Total
A160E													
A260E													
A350E													
A390.1E													
A390.2E													
A390.6E													
A390.8E													

- (1) This record shall be maintained per Section 4.4.5.
- (2) A390.3S will vent either through A390.1E or A390.2E, but not both at the same time.
- (3) Sources with optional emission cases will only vent from one at a time.



### CERTIFICATION OF DATA ACCURACY

I, the undersigned, hereby certify that, based on information and belief formed after reasonable inquiry, all information contained in the attached \_\_\_\_\_, representing the period beginning \_\_\_\_\_ and ending \_\_\_\_\_, and any supporting documents appended hereto, is true, accurate, and complete.

Signature<sup>1</sup> \_\_\_\_\_  
(please use blue ink) Responsible Official or Authorized Representative Date

Name & Title \_\_\_\_\_  
(please print or type) Name Title

Telephone No. \_\_\_\_\_ Fax No. \_\_\_\_\_

- <sup>1</sup> This form shall be signed by a "Responsible Official." "Responsible Official" means one of the following:
- a. For a corporation: The president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit and either:
    - (i) the facilities employ more than 250 persons or have a gross annual sales or expenditures exceeding \$25 million (in second quarter 1980 dollars), or
    - (ii) the delegation of authority to such representative is approved in advance by the Director;
  - b. For a partnership or sole proprietorship: a general partner or the proprietor, respectively;
  - c. For a municipality, State, Federal, or other public entity: either a principal executive officer or ranking elected official. For the purposes of this part, a principal executive officer of a Federal agency includes the chief executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., a Regional Administrator of U.S. EPA); or
  - d. The designated representative delegated with such authority and approved in advance by the Director.