



west virginia department of environmental protection

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

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

September 24, 2015

CERTIFIED MAIL
91 7199 9991 7032 6242 2701

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

Re: The Chemours Company FC, LLC
Washington Works
Permit No. R13-1953J
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 R13-1953J 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.

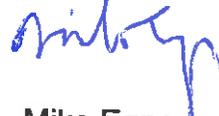
The source is subject to 45CSR30. The permittee has the duty to update the facility's Title V (45CSR30) permit application to reflect the changes permitted herein.

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

*West Virginia Department of Environmental Protection
Division of Air Quality*

*Earl Ray Tomblin,
Governor*

*Randy C. Huffman
Cabinet Secretary*

Permit to Modify



R13- 1953J

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
10700182**

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

*William F. Durham
Director*

Issued: September 4, 2015

This permit will supersede and replace Permit R13-1953I issued July 7, 2015.

Facility Location: Washington, Wood County, West Virginia

Mailing Address: P. O. Box 1217, Washington, WV 26181

Facility Description: Fluoropolymer Production

SIC Codes: 2821

UTM Coordinates: 442.31 km Easting • 4,346.8 km Northing • Zone 17

Permit Type: Modification

Description of Change: This Class I Administrative update application is the result of the removal of conditions regarding Ammonium Perfluorooctanate (APFO), as well as the addition of a requirement that the Permittee not manufacture, use or purchase the material.

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. Changes authorized by this permit must also be incorporated into the facility's Title V operating permit. Commencement of the operations authorized by this permit shall be determined by the appropriate timing limitations associated with Title V permit revisions per 45CSR30.

Table of Contents

1.0. Emission Units.....4

2.0. General Conditions.....5

 2.1. Definitions5

 2.2. Acronyms6

 2.3. Authority6

 2.4. Term and Renewal.....6

 2.5. Duty to Comply6

 2.6. Duty to Provide Information.....6

 2.7. Duty to Supplement and Correct Information7

 2.8. Administrative Update.....7

 2.9. Permit Modification.....7

 2.10 Major Permit Modification7

 2.11. Inspection and Entry7

 2.12. Emergency8

 2.13. Need to Halt or Reduce Activity Not a Defense.....8

 2.14. Suspension of Activities9

 2.15. Property Rights9

 2.16. Severability9

 2.17. Transferability9

 2.18. Notification Requirements.....9

 2.19. Credible Evidence9

3.0. Facility-Wide Requirements10

 3.1. Limitations and Standards10

 3.2. Monitoring Requirements10

 3.3. Testing Requirements10

 3.4. Recordkeeping Requirements11

 3.5. Reporting Requirements12

4.0. Source-Specific Requirements13

 4.1. Limitations and Standards13

 4.2. Monitoring Requirements16

 4.3. Testing Requirements17

 4.4. Recordkeeping Requirements18

 4.5. Reporting Requirements19

APPENDIX A.....22

Attachment A - Monthly Recordkeeping (Equipment).....22

Attachment B - Monthly Emissions23

Attachment C – Annual Emissions.....24

Attachment D – Monthly Recordkeeping (Control and Inherent Devices).....27

CERTIFICATION OF DATA ACCURACY28

1.0. Emission Units

Emission Unit ID	Emission Point ID	Emission Unit Description	Control Device
C2DA	C2DAE	Tank	None
C2DE	C2DAE	Tank	None
C2DG	C2EJE	Reactor	None
C2DH	C2DHE	Bin	None
C2DK	C2DKE	Process Tank	C2DKC - Bagfilter
C2DS	C2DSE	Conveying System	C2DSC - Bagfilter
C2DW	C2DTE	Dryer	C2DWC1- Bagfilter C2DWC2- Scrubber C2DTC3 - DBS
C2EC	C2DAE	Tank	None
C2EF	C2EFE	Reactor	None
C2EG	C2EGE	Process Equipment	C2EGC – Bagfilter
C2EH	C2DTE	Dryer	C2EHC1 - Bagfilter C2EHC2 - Scrubber C2DTC3 – DBS
C2EJ	C2EJE C2EFE	Supply System	None
C2EN	C2ENE	Conveying System	C2ENC – Bag Filter
C2ER	C2ERE	Extruder	None
C2ES	T7IME	Extruder	T7IMC - Thermal Converter
C2ET	C2ETE	Bin	None
C2EU	C2EUE	Elutriator	C2EUC – Bagfilter
C2EV	C2EVE	Packout	None
C2EZ	C2EZE	Loading Station	None
C2KD	C2KDE	Dryer	None
C2KO	C2KOE1 C2KOE2	Process Equipment	C2KOC1 – Bagfilter C2KOC2 – Bagfilter
C2KP	C2KPE	Process Equipment	C2KPC – Bagfilter
C2KU	C2KUE	Ingredient System	None
C2KW	C2DAE	Feed Tank	None
C2KX	C2DAE	Storage Tank	None

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

CAAA	Clean Air Act Amendments	NO_x	Nitrogen Oxides
CBI	Confidential Business Information	NSPS	New Source Performance Standards
CEM	Continuous Emission Monitor	PM	Particulate Matter
CES	Certified Emission Statement	PM_{2.5}	Particulate Matter less than 2.5 μm in diameter
C.F.R. or CFR	Code of Federal Regulations	PM₁₀	Particulate Matter less than 10μm in diameter
CO	Carbon Monoxide	Ppb	Pounds per Batch
C.S.R. or CSR	Codes of State Rules	Pph	Pounds per Hour
DAQ	Division of Air Quality	Ppm	Parts per Million
DEP	Department of Environmental Protection	Ppm_v or ppmv	Parts per Million by Volume
dscm	Dry Standard Cubic Meter	PSD	Prevention of Significant Deterioration
FOIA	Freedom of Information Act	Psi	Pounds per Square Inch
HAP	Hazardous Air Pollutant	SIC	Standard Industrial Classification
HON	Hazardous Organic NESHAP	SIP	State Implementation Plan
HP	Horsepower	SO₂	Sulfur Dioxide
lbs/hr	Pounds per Hour	TAP	Toxic Air Pollutant
LDAR	Leak Detection and Repair	TPY	Tons per Year
M	Thousand	TRS	Total Reduced Sulfur
MACT	Maximum Achievable Control Technology	TSP	Total Suspended Particulate
MDHI	Maximum Design Heat Input	USEPA	United States Environmental Protection Agency
MM	Million	UTM	Universal Transverse Mercator
MMBtu/hr or mmbtu/hr	Million British Thermal Units per Hour	VEE	Visual Emissions Evaluation
MMCF/hr or mmcf/hr	Million Cubic Feet per Hour	VOC	Volatile Organic Compounds
NA	Not Applicable	VOL	Volatile Organic Liquids
NAAQS	National Ambient Air Quality Standards		
NESHAPS	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. Term and Renewal

- 2.4.1. This permit supersedes and replaces previously issued Permit R13-1953I. 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 Applications R13-0614, R13-0781, R13-1953, R13-0614A, R13-1953A, R13-1953B, R13-1953C, R13-1953D, R13-1953E, R13-1953F, R13-1953G, R13-1953H, R13-1953I, R13-1953J, 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 as defined in and according to the procedures specified in 45CSR14 or 45CSR19, as appropriate.

[45CSR§13-5.1]

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§34]
- 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 57th 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. Emissions to the atmosphere of PM₁₀ shall not exceed the hourly and annual emission limits as set forth in Table 4.1.1.

Table 4.1.1. – PM₁₀ Emission Limits

Emission Point ID	Source ID	Emission Limit	
		(pph)	(tpy)
C2DSE	C2DS	0.08	0.01
C2DTE	C2DW, C2EH	0.48	1.03
C2ENE	C2EN	0.40	1.10
C2ERE	C2ER	1.00	2.73
C2KPE	C2KP	0.10	0.11
C2DKE	C2DK	0.01	0.01
C2EGE	C2EG	0.01	0.01
C2EUE	C2EU	0.01	0.01

Note: For cases where multiple sources vent to a single emission point, the emission limit of the single emission point shall apply to the combined sum of emissions from each of the associated sources.

4.1.2. Emissions to the atmosphere of VOC shall not exceed the hourly and annual emission limits as set forth in Table 4.1.2.

Table 4.1.2. – VOC Emission Limits

Emission Point ID	Source ID	Emission Limit	
		(pph)	(tpy)
C2DAE	C2DA, C2DE, C2EC, C2KW, C2KX	11.90	2.10
C2DHE	C2DH	3.25	0.13
C2DKE	C2DK	6.30	5.51
C2DTE	C2DW, C2EH	1.10	2.75
C2EFE	C2EF, C2EJ	75.10	7.51
C2EGE	C2EG	9.40	11.60
C2EJE	C2EJ, C2DG	107.19	3.60
C2ERE	C2ER	4.00	10.50
C2ETE	C2ET	3.25	11.16
C2EVE	C2EV	67.69 ¹	0.33
C2KDE	C2KD	0.18	0.56
C2KOE1	C2KO	0.05	0.04

Note: For cases where multiple sources vent to a single emission point, the emission limit of the single emission point shall apply to the combined sum of emissions from each of the associated sources.

¹Emission limit in pounds per month.

4.1.3. Emissions to the atmosphere of Hydrogen Fluoride shall not exceed the hourly and annual emission limits as set forth in Table 4.1.3.

Table 4.1.3. – HF Emission Limits

Emission Point ID	Source ID	Emission Limit	
		(pph)	(tpy)
C2DHE	C2DH	0.02	0.01
C2ERE	C2ER	0.04	0.13
C2ETE	C2ET	0.02	0.06
C2KDE	C2KD	0.06	0.18
C2KOE1	C2KO	0.02	0.02

C2KUE	C2KU	0.16	0.01
-------	------	------	------

Note 1: For cases where multiple sources vent to a single emission point, the emission limit of the single emission point shall apply to the combined sum of emissions from each of the associated sources.

Note 2: In-process emissions of fluorine and fluorinated compounds that react to form hydrogen fluoride have been reported as hydrogen fluoride.

- 4.1.4. Emissions to the atmosphere of Hazardous Air Pollutants (HAP) other than Hydrogen Fluoride shall not exceed the annual emission limits as set forth in Table 4.1.4.

Table 4.1.4. – HAP Emission Limits

Emission Point ID	Source ID	Pollutant	Emission Limit (tpy)
C2EFE	C2EF, C2EJ	Total HAPs ¹	0.01
C2EJE	C2DG, C2EJ	Total HAPs ¹	0.01
C2EVE	C2EV	Total HAPs ¹	0.01

Note: For cases where multiple sources vent to a single emission point, the emission limit of the single emission point shall apply to the combined sum of emissions from each of the associated sources.

¹ The emissions of total HAPs identified in Table 4.1.4 of this permit for emission point ID C2EVE, may consist of any one, or a combination of the following pollutants: Di-Sec-Octyl Phthalate (CAS No. 117-81-7), Methanol (CAS No. 67561), and Chromium III Compounds (16065-83-1). The emissions of total HAPs identified in Table 4.1.4 of this permit for emission point ID C2EFE or C2EJE may consist of any one, or a combination of the following pollutants: Toluene, Acetonitrile, HCl.

- 4.1.5. The Permittee shall not purchase, manufacture, store, or use Ammonium perfluorooctanoate (APFO) within the Chemours' Washington Works Facility.
- 4.1.6. Reserved
- 4.1.7. Reserved
- 4.1.8. Reserved
- 4.1.9. Compliance with all annual emission and/or operating limits shall be determined using a twelve month rolling total. A twelve month rolling total shall mean a sum in any given month of the previous twelve (12) consecutive calendar months.
- 4.1.10. Process equipment C2ES shall be vented to the thermal converter (Equipment ID No. T7IMC). The thermal converter (Equipment ID No. T7IMC) is permitted under the current revision of permit R13-1823.
- 4.1.11. No person shall 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 4.1.12. (C2DTE, C2ERE, C2KPE, C2DKE, C2EGE, C2EUE, C2EJE, C2EFE) [45CSR§7-3.1]
- 4.1.12. The provisions of 4.1.11 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. (C2DTE, C2ERE, C2KPE, C2DKE, C2EGE, C2EUE, C2EJE, C2EFE) [45CSR§7-3.2]
- 4.1.13. No person shall cause, suffer, allow or permit visible emissions from any storage structure(s) associated with any manufacturing process(es) that pursuant to 4.1.18 is required to have a full enclosure and be equipped with a particulate matter control device. (C2DSE, C2ENE) [45CSR§7-3.7]
- 4.1.14. No person shall cause, suffer, allow or permit particulate matter to be vented into the open air from any type source operation or duplicate source operation or from all air pollution control

equipment installed on any type source operation or duplicate source operation in excess of the quantity specified under the appropriate source operation type in Table 45-7A of 45CSR7. (C2DSE, C2DTE, C2ENE, C2ERE, C2KPE, C2DKE, C2EGE, C2EUE) [45CSR§7-4.1]

- 4.1.15. Mineral acids shall not be released from any type source operation or duplicate source operation or from all air pollution control equipment installed on any type source operation or duplicate source operation in excess of the quantity given in Table 45-7B of 45CSR7.

Hydrochloric acid mist and/or vapor for source operations installed after July 1, 1970: 210 mg/m³
(C2EJE, C2EFE) [45CSR§7-4.2 and Table 45-7B]

- 4.1.16. No person shall circumvent the provisions of 45CSR7 by adding additional gas to any exhaust or group of exhausts for the purpose of reducing the stack gas concentration. [45CSR§7-4.3]
- 4.1.17. Any stack serving any process source operation or air pollution control equipment on any process source operation shall contain flow straightening devices or a vertical run of sufficient length to establish flow patterns consistent with acceptable stack sampling procedures. [45CSR§7-4.12]
- 4.1.18. 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 reasonable achievable. [45CSR§7-5.1]
- 4.1.19. 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]
- 4.1.20. 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]
- 4.1.21. The permitted facility is subject to the requirements of 45CSR21 – “Regulation to Prevent and Control Air Pollution from the Emission of Volatile Organic Compounds” provided, however, that compliance with any more stringent requirements under 4.1.2, shall also be demonstrated. Compliance with WV Division of Air Quality permit R13-3223, or any amendments thereto, shall demonstrate compliance with the applicable requirements of 45CSR21.
- 4.1.22. The permittee shall comply with all applicable requirements of 40 C.F.R. 63, Subpart FFFF - “National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing”. [45CSR34, 40 C.F.R. §63.2445]
- 4.1.23. **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 4.1.11, the permittee shall perform routine monitoring of bagfilter systems in accordance to the requirements set forth in Table 4.2.1.

Table 4.2.1. – Demonstration of Opacity Standards

Control Device ID	Source ID	Claimed PM Control Efficiency (%)	Compliance Monitoring		
			Activity	Operating Parameter or Permitted Limit	Inspection Frequency
C2DKC	C2DK	99.9	Opacity	20%	Monthly
C2DSC	C2DS	99.99	Opacity	20%	Daily (when running)
C2DWC1	C2DW	99.9 ¹	Process Interlock	$\Delta P > 20$ psig	None Required
C2EGC	C2EG	99.9	Opacity	20%	Monthly
C2EHC1	C2EH	99.9 ¹	Process Interlock	$\Delta P > 20$ psig	None Required
C2ENC	C2EN	99.99	Opacity	20%	Daily (when running)
C2KPC	C2KP	99.99	Opacity	20%	Daily (when running)
C2EUC	C2EU	99.99	Opacity	20%	Monthly

- a. Bagfilter systems C2DKC, C2DSC, C2EGC, C2ENC, C2KPC, and C2EUC shall be subject to periodic opacity monitoring as required per 4.2.2.
- b. For control systems C2DWC1 and C2EHC1, the process interlock and monitoring requirements are specified in 4.2.4. Compliance with the conditions of 4.2.4 shall demonstrate compliance with this requirement.
- c. If any of the listed control equipment is operated outside its respective limits and/or parameter(s), excluding start-ups and shutdowns, corrective actions shall be taken immediately. At a minimum, the information specified in condition 4.4.3 must be documented in a corrective action report for each occurrence and/or deviation from the normal parametric operating range that results in excess emissions.

A log of all routine inspection and maintenance activities for which an inspection frequency is specified in Table 4.2.1, shall be maintained per condition 4.4.2.

4.2.2. For the purpose of determining compliance with the opacity limits of 45CSR§§7-3.1, 3.2, and 3.7 set forth in conditions 4.1.11, 4.1.12, and 4.1.13, the permittee shall conduct opacity monitoring for all emission points and equipment subject to an opacity limit under 45CSR7, including, but not limited to, the emission points addressed in 4.1.1. The opacity monitoring and record keeping shall include a visual emission evaluation for all emission points subject to a particulate matter emission limit contained in this permit. For emission points C2DKE, C2EGE, and C2EUE monitoring shall be conducted at least once per month. For emission points C2DSE, C2ENE, and C2KPE monitoring shall be conducted on a daily basis when these emission units are operating.

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. If visible emissions are identified during the visible emission check, or at any other time regardless of operations, the permittee shall conduct an opacity reading using the procedures and requirements of 45CSR7A within three (3) days of the first signs 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.

- 4.2.3. The equipment shown in the following Table 4.2.3 shall be used on an as-needed basis and may not be operated for extended periods of time:

Table 4.2.3. – Intermittent Sources

Source ID	Emission Point ID
C2DS	C2DSE
C2KO	C2KOE1, C2KOE2

Equipment listed in Table 4.2.3 shall be monitored monthly as required in Condition 4.2.2 or during the next available operating session – whichever comes first.

- 4.2.4. Compliance monitoring shall be accomplished by interlocking the upstream to either parameters on these devices or other devices' in the same flow path as these devices as specified in the table below.

Table 4.2.4. – Process Interlock Settings

Control Device ID	Description	Compliance Monitoring & Interlock Settings
C2DWC2 C2EHC2	Dryer Scrubbers	These scrubbers shall be interlocked to shut down the feed to the dryer if the pressure drop across the 10 micron filter in the recirculating liquid line exceeds 20 psig. The feed to the sources will stop if the water flow to these scrubbers drops below 2,000 pounds per hour.
C2DTC3	Scrubber	The scrubber shall be interlocked to shut down if the water feed to the scrubber drops below 1.5 gpm. This will shut down the feeds to all sources feeding the scrubber.

Note: These parameters are continuously measured by the DCS, which shall produce an hourly average in order to justify compliance with proper operation of the equipment.

The permittee shall maintain a log using the sample recordkeeping format appended hereto as Appendix A, Attachment D that documents when these interlocks are tripped and the operation continues for greater than thirty (30) minutes in duration. At a minimum, the information specified in condition 4.4.3 must be documented for each logged malfunction.

In the event that a malfunction occurs that triggers the recordkeeping requirements above and those contained in 4.2.1, the permittee is required to only make one record of the malfunction occurrence to comply with both requirements.

4.3. Testing Requirements

- 4.3.1. At such reasonable times as the Director may designate, the operator of any manufacturing process source operation may be required to conduct or have conducted stack tests to determine the particulate matter loading in exhaust gases. Such tests shall be conducted in such manner as the Director may specify and be filed on forms and in a manner acceptable to the Director. The Director, or his duly authorized representative, may at his option witness or conduct such stack

tests. Should the Director exercise his option to conduct such tests, the operator will provide all necessary sampling connections and sampling ports to be located in such manner as the Director 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. [45CSR§7-8.1]

- 4.3.2. The Director, or his duly authorized representative, may conduct such other tests as he or she may deem necessary to evaluate air pollution emissions. [45CSR§7-8.2]
- 4.3.3. For the purpose of determining compliance with the emission limits of the dryer units C2DW and C2EH, in 4.1.1, the permittee shall conduct a compliance test within ninety (90) days of the date the 60-minute average production rate exceeds 120% of the rate demonstrated during the most recent test, conducted on November 29, 2004.

A test protocol shall be submitted to DAQ for approval within thirty (30) days of the test date. The Director shall be notified at least fifteen (15) days in advance of the actual dates and times at which the tests will be conducted. The results of emission testing shall be submitted to the DAQ within sixty (60) days of the actual test date.

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 records of all monitoring data required by 4.2.2, 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. Should a visible emission observation be required to be performed per the requirements specified in 45CSR7A, the data records of each observation shall be maintained per the requirements of 45CSR7A. For an emission unit out of service during the normal monthly evaluation, the record of observation may note “out of service” (OOS) or equivalent.

4.4.5. For the purpose of determining compliance with the permit limits based on the maximum permitted emission rates as described in 4.1.1, 4.1.2, 4.1.3, 4.1.4, and 4.1.5, the permittee shall perform monthly calculations of the maximum hourly and total annual emissions associated with the operation of all affected sources. In addition, the permittee shall record and document all operating parameters and production records used to calculate the monthly emissions estimates using a format similar to the sample recordkeeping forms appended hereto as Appendix A, Attachments A, B, and C.

4.4.6. Certified copies of all records required to be maintained under Condition 3.4.1 shall be made available to the Director of the Division of Air Quality or his duly authorized representative upon request. At a time prior to submittal to the Director, all records shall be certified and signed by a “Responsible Official” utilizing the attached Certification of Data Accuracy statement. If these records are considered to contain confidential business information as identified in the permit application, then the records may be submitted according to the procedures set forth in 45CSR31 – “Confidential Information.”

4.4.7. The permittee shall monitor all fugitive particulate emission sources as required by 4.1.18 to ensure that a system to minimize fugitive emissions has been installed or implemented. Records shall be maintained 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.

4.4.8. The permittee shall maintain records indicating the use of any dust suppressants or any other suitable dust control measures as required by 4.1.19 applied at the facility.

4.5. Reporting Requirements

4.5.1. Equipment listed in Table 4.2.3 shall be exempt from the requirements set forth in Condition 2.14 of this permit. The permittee shall provide written notification to the DAQ in the event of permanent shutdown of this equipment item.

APPENDIX A

Attachment A - Monthly Recordkeeping (Equipment)

Chemours Washington Works – Area (C2) – Permit R13-1953J

Current Month:

Data entered by:

Date entered:

Reviewed by:

Date Reviewed:

Equipment ID	Value	Monthly Monitoring
		Parameter
C2DP		# of times system deinventoried through System #1
		# of times system deinventoried through System #2
C2EP		# of times system deinventoried through System #1
		# of times system deinventoried through System #2
C2DX – tank		# of times system deinventoried through System #1
		# of times system deinventoried through System #2
C2DX – bottom valve		# of times system deinventoried through System #1
		# of times system deinventoried through System #2
C2DX – top valve		# of times system deinventoried through System #1
		# of times system deinventoried through System #2
C2DY – tank		# of times system deinventoried through System #1
		# of times system deinventoried through System #2
C2DY – bottom valve		# of times system deinventoried through System #1
		# of times system deinventoried through System #2
C2DY – top valve		# of times system deinventoried through System #1
		# of times system deinventoried through System #2
C2DR		# of times system deinventoried through System #1
		# of times system deinventoried through System #2
C2EE		# of times system deinventoried through System #1
		# of times system deinventoried through System #2
Facility		# of completed batches
Facility		# of completed GenX batches
C2DA		# of completed dispersion batches
C2DA		# of GenX dispersion batches
C2DT		max pph held for one hour during the month
C2DW		max pph held for one hour during the month
C2EH		max pph held for one hour during the month
C2DT, C2DW, C2EH		max pph rate of all TDD for one hour during the month
C2DS		pounds of flake to flake packout
C2EN		max pph for month conveyed from TDD to compactor
C2ER		max RPM held for one hour
C2ER		total rework weight for month
C2EV		# of makeup cartridges used
		# of ink cartridges used
		# of wash bottles used

The Chemours Company FC, LLC • Washington Works

APPENDIX A
Attachment B - Monthly Emissions
Chemours Washington Works – Area (C2) – Permit R13-1953J

Current Month:

Emission Point ID	Equipment ID	VOC		ODC		PM ₁₀		HF		Toluene lb/month	Total HAPs lb/month
		max pph	lb/month	max pph	lb/month	max pph	lb/month	max pph	lb/month		
C2DAE	C2DA, C2DE, C2EC, C2KW, C2KX										
C2DHE	C2DH										
C2DKE	C2DK										
C2DSE	C2DS										
C2DTE	C2DW, C2EH										
C2EFE	C2EJ, C2EF										
C2EGE	C2EG										
C2EJE	C2EJ, C2DG										
C2ENE	C2EN										
C2ERE	C2ER										
C2ETE	C2ET										
C2EUE	C2EU										
C2EVE	C2EV										
C2KDE	C2KD										
C2KOEI	C2KO										
C2KPE	C2KP										
C2KUE	C2KU										

The Chemours Company FC, LLC • Washington Works

APPENDIX A
Attachment C – Annual Emissions
Chemours Washington Works – Area (C2) – Permit R13-1953J

Current Month:

Emission Point ID	Equipment ID	VOC Emissions (lb)												
														12 Month Total
C2DAE	C2DA, C2DE, C2EC, C2KW, C2KX													
C2DHE	C2DH													
C2DKE	C2DK													
C2EFE	C2EJ, C2EF													
C2EGE	C2EG													
C2EJE	C2EJ, C2DG													
C2ERE	C2ER													
C2ETE	C2ET													
C2EVE	C2EV													
C2KDE	C2KD													
C2DTE	C2DW, C2EH													
Totals														

Emission Point ID	Equipment ID	ODC Emissions (lb)												
														12 Month Total
C2EFE	C2EJ, C2EF													
C2EJE	C2EJ, C2DG													
Totals														

The Chemours Company FC, LLC • Washington Works

APPENDIX A
Attachment C – Annual Emissions
Chemours Washington Works – Area (C2) – Permit R13-1953J

Current Month:

Emission Point ID	Equipment ID	PM ₁₀ Emissions (lb)												12 Month Total
C2DKE	C2DK													
C2DSE	C2DS													
C2DTE	C2DW, C2EH													
C2EGE	C2EG													
C2ENE	C2EN													
C2ERE	C2ER													
C2EUE	C2DO, C2EU													
C2KPE	C2KP													
Totals														

The Chemours Company FC, LLC • Washington Works

APPENDIX A

Attachment C -- Annual Emissions

Chemours Washington Works – Area (C2) – Permit R13-1953J

Current Month:

Emission Point ID	Equipment ID	HF Emissions (lb)												12 Month Total
C2DHE	C2DH													
C2ERE	C2ER													
C2ETE	C2ET													
C2KDE	C2KD													
C2KOE1	C2KO													
C2KUE	C2KU													
Totals														

Emission Point ID	Equipment ID	Total HAPs (lb)												12 Month Total
C2EVE	C2EV													
C2EFE	C2EF, C2EJ													
C2EJE	C2DG, C2EJ													
Totals														

APPENDIX A

**Attachment D – Monthly Recordkeeping – Control Devices and Inherent Process Devices
Chemours Washington Works – Area (C2) – Permit R13-1953J**

Current Month:
Data entered by:
Date entered:
Reviewed by:
Date reviewed:

Equipment Name	ID No.	Interlock Tripped? (Yes or No)
Scrubber	C2DWC2	
Scrubber	C2EHC2	
Scrubber	C2DTC3	

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.

Signature¹ _____ Date _____
(please use blue ink) Responsible Official or Authorized Representative

Name & Title _____ Title _____
(please print or type) Name

Telephone No. _____ Fax No. _____

- ¹ 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.