



Division of Air Quality
601 – 57th Street
Charleston, WV 25304
Telephone Number: (304) 926-0475
Fax Number: (304) 926-0479

West Virginia Department of Environmental Protection

Earl Ray Tomblin
Governor

Randy C. Huffman
Cabinet Secretary

PERMIT FOR A CLASS II ADMINISTRATIVE UPDATE FOR A FLUOROPOLYMERS PRODUCTION UNIT IN THE C-1 AREA

IN ACCORDANCE WITH THE WEST VIRGINIA AIR POLLUTION CONTROL LAW (W. Va. Code §§22-5-1 et seq.), AND REGULATIONS PROMULGATED THEREUNDER, THE FOLLOWING PERMITTEE IS AUTHORIZED TO CONSTRUCT, SUBJECT TO THE TERMS AND CONDITIONS OF THIS PERMIT, THE SOURCE DESCRIBED BELOW.

This permit will supercede and replace Permit R13-2365E.

Name of Permittee: The Chemours Company FC, LLC

Name of Facility: Washington Works

Permit No.: R13-2365G

Plant ID No.: 107-00182

Effective Date of Permit: June 23, 2015

Permit Engineer: Mike Egnor

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

County: Wood

Nearest City or Town: Parkersburg, WV

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

Directions to Exact Location: Route 68 (old Route 2) west from Parkersburg to the intersection of Route 892. Continue on Route 892 for about 2.5 miles. The plant will be on the right (North) side of the road.

Type of Facility Modification: This Class II Administrative Update updates emission calculations and transfers a source. There is an increase of trace amounts of Acetonitrile, Hydrofluoric Acid, and PM, 0.01 pph and tpy for CO, and 6.16 pph and 1.02 tpy VOC emissions associated with this Class II administrative update.

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.



West Virginia Department
of Environmental Protection

“Promoting a healthy environment.”

IN ACCORDANCE WITH THE PERMIT APPLICATION AND ITS AMENDMENTS, THIS PERMIT IS LIMITED AS FOLLOWS:

A. SPECIFIC REQUIREMENTS

1. Emissions to the atmosphere shall not exceed the hourly and annual emission limits as set forth in Table A.1.

Table A.1. Emission Limits

Emission Point ID	Emission Unit ID / Source Description	Control Device	Pollutant	Emission Limit	
				pph	tpy
C1FCE	C1FC (bin)	N/A	PM VOC	0.10 0.10	0.30 0.15
C1GAE	C1GA (bin)	N/A	PM VOC	0.08 0.04	
C1GBE	C1GB (bin)	N/A	PM VOC	0.08 0.04	
C1GCE	C1GC (bin)	N/A	PM VOC	0.08 0.04	
C1FEE	C1FA (bin) C1FB (bin)	N/A	PM ₁₀ ² HF	0.27 0.02	0.23 0.01
	C1FD (supply cylinder)	N/A			
	C1FE (reactor)	C1FEC (scrubber)			
	C1GN (cube conveyor: C1GN to C1FA & C1FB)				
C1FFE	C1FF (bin)	N/A	PM VOC	0.10 0.12	0.30 0.15
C1FGE	C1FG (bin)	N/A	PM VOC	0.10 0.12	
C1FQE	C1FQ (reactor) C1GH (ingredient feed system)	N/A	VOC ODC Acetonitrile	38.54 0.93 0.01	21.76 0.05 0.01
C1FSE	C1FS (dryer)	C1FSC1 (baghouse) C1FSC2 (scrubber) C1FSC3 (scrubber)	PM ₁₀ APFO ¹ VOC	0.23 0.220 0.65	0.56 0.543 1.60
	C1FK (conveying system)	C1FKC (baghouse) C1FSC3 (scrubber)			
C1FUE	C1FU (bin)	N/A	PM ₁₀	0.20	0.22
C1FVE1	C1FV (extruder)	N/A	VOC PM ₁₀ ² HF	0.43 0.10 0.01	0.14 0.15 0.01
C1FVE2	C1FV (extruder)	N/A	VOC HF	0.43 1.63	0.08 0.11
C1FWE	C1FW (ingredient feed system)	N/A	VOC	32.2	0.35
			Acetonitrile	< 0.01	< 0.01

C1GDE	C1GD (tank)	N/A	VOC ODC Acetonitrile	1.89 0.08 0.01	2.30 0.01 0.01
C1GJE	C1GJ (conveying system)	C1GJC (baghouse)	PM ₁₀	0.87	0.11
Area emissions	C1GK (sump) CIFW (ingredient feed system)	N/A	VOC ODC Acetonitrile	1.94 0.08 0.01	0.21 0.01 0.01
C1GPE	C1GP (conveying system) C1GS (blender #1) C1GT (blender #2)	C1GPC (baghouse)	PM	0.13	0.13
C1GQE	C1GQ (conveying system)	C1GQC (baghouse)	PM ₁₀	0.10	0.13
C1GRE	C1GR (burnout station)	N/A	VOC HF	0.01 0.55	0.01 1.12
C1GVE	C1GV (hopper)	N/A	PM ₁₀	0.20	0.22
C1GXE	C1GX (ingredient system charge pot)	N/A	VOC	1.89	0.31
C1GZE	C1GZ (oven)	C1GZC (scrubber)	VOC	0.51	0.18
			Hydrofluoric Acid	< 0.01	< 0.01
			PM	< 0.01	< 0.01
			CO	0.01	0.01
C1NPE	C1NP (Recovery System)	C1NPC (scrubber)	VOC	0.21	0.90

Note: Emission limits for hydrogen fluoride (HF) include emissions of hydrogen fluoride and several non-HAP fluorinated compounds which react to form hydrogen fluoride.

¹ Ammonium Perfluorooctanoate (CAS 3825-26-1)

² Particulate emissions from these emission points will only occur given an anticipated process chemistry change. The permittee shall notify the DAQ within 30 calendar days of a process change that results in particulate emissions from these emission points.

2. The total of acetonitrile emitted hourly and annually from emission points C1FWE, C1GXE, C1FW, C1FQE, C1GDE, and C1GK shall not exceed 0.01 pounds per hour and 15 pounds per year.
3. Process equipment C1GH and C1FQ shall be vented to the thermal converter (Equipment ID. T7IMC) or the mixed gas holder (Equipment ID. T1GN) until the internal pressure of these vessels reach 5 psig. The thermal converter (Equipment ID. T7IMC) and mixed gas holder (Equipment ID. T1GN) are permitted under permit R13-1823B or an amended permit thereof.
4. In accordance with Consent Order GWR-2001-019 and the Additional Obligations Notice dated March 13, 2003, the permittee shall limit the annual average modeled exposure levels for ammonium perfluorooctanoate (CAS 3825-26-1 and hereby abbreviated as APFO) to no more than the C-8 Assessment of Toxicity (CAT) Team recommended airborne screening level of 1 µg/m³ in any area not subject to controlled access by the permittee when modeled using Industrial Source Complex 3 Short Term (ISC3ST) modeling software. As stated in the referenced order, the 1 µg/m³ screening level will be the basis for compliance until such time as the United States

Environmental Protection Agency promulgates a standard for APFO that is applicable for emissions from this facility.

5. For the purpose of modeling, as described in SPECIFIC REQUIREMENT A.4, the emissions of APFO from sources associated with this permit, shall include the emission points and discharge specifications as shown in the following Table A.5:

Table A.5. APFO Emission Point Specifications

Emission Point	Discharge Area (ft ²)	Height Above Grade (ft)	Volume Flow Rate (ACFM)	Temp (°F)	UTM Coordinates	
					Northing (m)	Easting (m)
C1FSE	0.3734	115	600 – 1000	41 - 140	4346744	441787

Note: Variations in temperature and volumetric flow rate reflect changes in ambient conditions, feed rates, and feed compositions.

6. For the purpose of determining compliance with the opacity limits of 45CSR7-3.1 and 3.2, the permittee shall conduct opacity monitoring and record keeping for all emission points and equipment subject to an opacity limit under 45CSR7, including, but not limited to, the emission points addressed in SPECIFIC REQUIREMENT A.1. The opacity monitoring and record keeping shall include visual emission checks for all emission points subject to a particulate matter emission limit contained in this permit.

Monitoring shall be conducted at least once per month. These checks shall be conducted by personnel trained in the practices and limitations of 40CFR60 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. For observations for visible emissions from emission point C1FSE (which follows a water scrubber), when condensed water vapor is present within the plume as it emerges from the emission outlet, opacity observations shall be made beyond the point in the plume at which condensed water vapor is no longer visible; the observer shall record the approximate distance from the emission outlet to the point in the plume at which the observations are made.

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.

Records shall be maintained documenting the date and time of each visible emission check, the name of the responsible observer, the results of the check, and, if necessary, all corrective actions taken.

7. The permittee shall maintain and operate all baghouses, scrubbers, and any other air emissions control devices installed at the C-1 Area in accordance with proper operational guidelines to minimize emissions. For all baghouses, scrubbers, and any other air emissions control devices installed in the C-1 Area, the permittee shall keep accurate records of filter changes and maintenance activities, and of malfunctions and other operational shutdowns which result in excess emissions.

The referenced baghouses, scrubbers, and other control devices include, but are not limited to those identified as: baghouses C1FSC1, C1FKC, C1GJC, C1GQC, and C1GPC; and scrubbers C1FSC2, C1FSC3, C1FEC, and C1NPC.

For each malfunction or operational shutdown of a control device that results in excess emissions, the following additional information must be recorded, at a minimum:

- a. The equipment involved and associated cause of the malfunction.
 - b. Steps taken to correct the malfunction.
 - c. Steps taken to minimize emissions during the malfunction.
 - d. The duration of the malfunction.
 - e. The estimated increase in emissions during the malfunction.
 - f. Any changes or modifications to equipment or procedures that would help prevent future recurrences of the malfunction.
8. The following equipment does not emit any regulated air pollutant.

Identification Number	Description
C1FR	Coagulant System

9. The following equipment is used on an as-needed basis and may not be operated for extended periods of time. This equipment is exempt from the reporting requirement set forth in GENERAL REQUIREMENT C.5 of this permit. Written notification shall be provided to the DAQ in the event of permanent shutdown of this equipment.

Identification Number	Description
C1GJ	Conveying to packout

B. OTHER REQUIREMENTS

1. For the purpose of determining compliance with the maximum emission limits set forth in SPECIFIC REQUIREMENT A.1, the permittee shall maintain records equivalent to the example recordkeeping form supplied as Attachment A to this permit, and emission reports equivalent to the monthly and annual reports supplied as Attachments B and C to this permit.
2. Compliance with all annual emission and/or operating limits shall be determined using a twelve (12) month rolling total. A twelve month rolling total shall mean a sum in any given month of the previous twelve (12) consecutive calendar months.
3. Compliance monitoring shall be accomplished by a combination of interlocking the upstream to either parameters on these devices or other devices in the same flow path as these devices and parametric monitoring as specified in the tables below.

Table B.3.(a) Process Interlock Settings

Control Device ID	Description	Compliance Monitoring & Interlock Settings
C1FEC	FP Cube Reactor Scrubber	This control equipment sets its interlocked parameter as the recirculating liquid flow rate. The flow in this stream shall not fall below 40 gallons per minute. Should this interlock be tripped, the ingredient supply to the main reactor "C1FE" shall shut down. Due to the fact that the liquid recirculating flow does not totally define the level of efficiency being maintained by the control equipment, other parameters such as liquid temperature, KOH concentration, and pressure drop are also required to be measured as specified in the parametric monitoring section of this permit.
C1FKC	Isolation Conveying System Bag Filter	The bagfilter shall have a low delta P interlock set at 1" w.c. to detect bag failure, which shuts the system down. A high delta P alarm be set at 12" w.c. to monitor for restricted or overloaded bags.
C1FSC2	Dryer Scrubber	This scrubber shall be interlocked to shut down the feed to the dryer if the pressure drop across the 1 micron filter in the recirculating liquid line exceeds 20 psig. The feed to the dryer shall also be interlocked to shut off, if the exiting gas temperature falls below 70°C.
C1FSC3	Dryer Scrubber	The water flow rate to the scrubber spray nozzles shall be interlocked at 0.3 gpm, and the feed will not start if the water flow is below this level.

C1GJC	Conveying System #1 Bag Filter	The #1 bag filter incorporates a 10 micron inline filter in between the blower and bag house. The interlocked parameter is the suction pressure measured after the 10 micron filter. If the pressure measured at this location falls below -10.5 mmHg then the relevant blower and conveying system shall shut down.
C1GQC	Conveying System #2 Bag Filter	The #2 bag filter also incorporates a 10 micron inline filter in between the blower and bag house. The interlocked parameter is the suction pressure to the blower. If the pressure measured at this location falls below -9.5 mmHg then the relevant blower and conveying system shall shut down.
C1GZC	Spray Tower with Vacuum Pump	If water flow to the vacuum pump is \leq 2 gallons per minute, the heaters will automatically shut down.

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.

Table B.3.(b) Parametric Monitoring of Control Equipment

Control Device ID	Description	Monitoring Parameter
C1FEC	Reactor Scrubber	The concentration of KOH in the scrubber liquor shall not fall below 4.0 wt%. The solution will be sampled after every 5 th batch until the KOH concentration falls below 6.0 wt%. Once 6.0 wt% is reached, the solution will be sampled every other batch. The solution can only be recharged twice before having to be replaced. The number of batches through the C1FE reactor must be documented to coincide with the KOH measurement frequency.
C1FEC	Reactor Scrubber	Min. Recirculating KOH flow (gpm)
C1FSC2	Dryer Scrubber	Maximum Circulating Filter Delta P (psig)
C1FSC2	Dryer Scrubber	Min. Exit Gas Temperature (°C)
C1FSC3	Dryer Scrubber	Min. Water Flow (gpm)
C1FKC	Conveying System Bag Filter	Min. Bagfilter Delta P (in. H ₂ O)
C1GJC	Conveying System Bag Filter	Min. Blower Suction Press – C1GJC (in. Hg)
C1GQC	Conveying System Bag Filter	Min. Blower Suction Press – C1GQC (in. Hg)
C1GZC	Spray Tower with Vacuum Pump	Gallons per minute

Note: If any exceedance of the parameters listed above are observed during process operations, corrective action shall be taken immediately. For each exceedance, a corrective action report shall be generated. This report shall include the duration of the malfunction, the corrective actions taken, and an estimate of the emissions generated.

4. The permittee shall maintain a log that documents when an interlock condition listed in OTHER REQUIREMENT B.3 is activated that documents when these

interlocks are tripped and the operation continues for greater than thirty (30) minutes in duration. At a minimum, the following information must be documented for each logged malfunction:

- a. The equipment involved and associated cause of malfunction.
- b. Steps taken to correct the malfunction.
- c. Steps taken to minimize emissions during the malfunction.
- d. The duration of the malfunction.
- e. The estimated increase in emissions during the malfunction.
- f. Any changes or modifications to equipment or procedures that would help prevent future recurrence of the malfunction.

In the event that a malfunction occurs that triggers the recordkeeping requirements above and those contained in SPECIFIC REQUIREMENT A.7, the permittee is required to only make one record of the malfunction occurrence to comply with both requirements.

5. All records required by OTHER REQUIREMENT B.3 shall be condensed to monthly summaries as described below. Monthly summaries shall include for each of the recorded process parameters, whichever is appropriate, the observed maximum or minimum values recorded during actual operations as well as any corrective action reports and reports generated as a result of OTHER REQUIREMENT B.4.
6. For the purpose of determining compliance with the emission limits set forth on Dryer (C1FS) in SPECIFIC REQUIREMENT A.1, the permittee shall conduct a compliance test of the Dryer (C1FS) within ninety (90) days of the date the 60-minute average production rate exceeds 120% of the rate demonstrated during the most recent test.

This test shall be performed at the maximum permitted production rate, or, if less, at the maximum sustainable production rate. In the event that the production rate achieved during the testing is less than 80% of the maximum permitted rate, the permittee shall conduct additional testing within ninety (90) days of the date the 60-minute average production rate exceeds 120% of the rate demonstrated during the most recent test.

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.

7. As a threshold test for demonstrating compliance with the screening level described in SPECIFIC REQUIREMENT A.4., the actual annualized APFO

emissions from the APFO sources in this permit shall be no greater than the permitted APFO emission limits set forth by SPECIFIC REQUIREMENT A.1.

In the event such actual annual APFO emissions exceed the permitted annual APFO emission limits or additional APFO sources not currently covered by a permit in accordance to 45CSR13 are identified, compliance with the screening level described in SPECIFIC REQUIREMENT A.4. shall be demonstrated by modeling actual annual APFO emissions from all sources at the facility.

In the event the permittee proposes a change in APFO emission parameters for equipment covered by this permit or additional APFO sources not currently covered by a permit in accordance to 45CSR13, compliance with the screening level described in SPECIFIC REQUIREMENT A.4. shall be demonstrated by modeling permitted annual APFO emissions from all sources at the facility, including emissions related to such proposed changes. Modeling of facility-wide actual or permitted APFO emissions from all APFO emission sources shall use Air Dispersion Modeling in accordance with Appendix W to 40 CFR Part 51 (Guidelines on Air Quality Models), on-site meteorology data (1996 or more recent calendar year), and the most current and quantifiable stack-specific actual or permitted APFO emissions, as appropriate, as well as physical stack parameters.

8. The permitted facility shall comply with all applicable requirements of 45CSR21 – “Regulation to Prevent and Control Air Pollution from the Emission of Volatile Organic Compounds” provided, however, that compliance with any more stringent requirements under Section A, SPECIFIC REQUIREMENTS, shall also be demonstrated.

The permittee shall maintain the aggregated hourly and annual control efficiency of 90% or greater, on a site-wide basis, for all sources subject to 45CSR21 Section 40.a.1. R13-3223 identifies all sources located site-wide that must be considered in any evaluation of the aggregated annual control efficiency. Sources encompassed by this permit and subject to 45CSR21 Section 40.1.a. include, but are not limited to those identified in the following Table B.8.:

Table B.8. §45-21-40.1.a Sources

Equipment ID Per R13-2365B	Equipment ID per R13-3223	Control Plan (RACT or RACM)
C1FW	C1FW-1	RACT
C1FW	C1FW-2	RACT
C1FW, C1FQ, C1GX	C1FW-3	RACT
C1FW, C1FQ, C1GX	C1FW-4	RACT
C1FW, C1FQ, C1GX	C1FW-5	RACT

C1FW, C1FQ, C1GX	C1FW-6	RACT
C1GH	C1GH	RACT

Note: The sources listed above reference maintenance events and short duration activities.

The emission limits specified by SPECIFIC REQUIREMENT A.1 and the following requirements supercede and replace the equivalent requirements pertaining to the aforementioned sources contained in R13-3223. All other provisions of R13-3223 are intact and valid.

- a. On or after May 1, 1996, construction or modification of any emission source having maximum theoretical emissions (MTE) of VOCs equaling or exceeding six pounds per hour (6 pph) shall require the prior approval by the Director of an emission control plan that meets the definition of reasonably available control technology (RACT) on a case-by-case basis for both fugitive and non-fugitive VOC emissions from such source. All RACT control plans for sources constructed or modified on or after May 1, 1996 shall be embodied in a permit in accordance with 45CSR13 or 45CSR30.
- b. Physical changes to or changes in the method of operation of an existing emission source listed or required to be listed as part of the facility-wide control efficiency plan which do not result in an increase in its potential to emit VOCs in a cumulative amount (with cumulative accounting commencing on December 3, 1997) of two pounds per hour (2 pph) or five tons per year (5 tpy) or more, shall not require submittal of a RACT plan, provided that the company can provide information upon request to demonstrate compliance with its facility-wide VOC emission reduction requirement (RACM or AERP).
- c. If a modification to an existing source with current maximum theoretical emissions below the threshold of six pounds per hour (6 pph) of VOCs, causes an increase in the MTE that results in the source exceeding the six pounds per hour (6 pph) level for the first time, but the increase is less than two pounds per hour (2 pph) or five tons per year (5 tpy), the permittee shall not be required to submit RACT plans.
- d. Unless otherwise expressly exempted from Leak Detection and Repair (LDAR) requirements in this permit, the permittee shall implement and maintain LDAR programs for the reduction of fugitive VOC emissions in all manufacturing process units subject to C.S.R. §45-21-40 producing a product or products intermediate or final, in excess of 1000 megagrams (1100 tons) per year in accordance with the applicable methods and criteria of C.S.R. §45-21-37 or alternate procedures approved by the Director. Procedures approved by the Director include 40 CFR Part 60 Subpart VV, 40 CFR Part 61 Subpart V, 40 CFR Part 63 Subpart H, 40 CFR Part 63 Subpart TT, 40 CFR Part 63 Subpart UU, 40 CFR Part 65 Subpart F, and 40 CFR Part 265 Subpart CC. This requirement shall

R13-2365G
The Chemours Company FC, LLC
Washington Works

apply to all units irrespective of whether or not such units produce as intermediates or final products, substances on the lists contained with 40 CFR Part 60, 40 CFR Part 61, or 40 CFR Part 63.

- e. Manufacturing process units may be exempted upon written request of the permittee to the Director. Exempted units are exempted from the frequency of testing as described in C.S.R. §45-21-37, however, LDAR testing of this unit or certification of emission using approved fugitive emission factors will be required every three years, or upon request by the Director or his duly authorized representative. Waiver or rescheduling of LDAR testing every three years may be granted by the Director if written request and justification are submitted by the permittee. Units exempted from LDAR monitoring as required by C.S.R. §45-21-37, are not exempted from testing which may be required under any other applicable State or Federal regulations, orders, or permits. The Director may periodically require verification by the permittee that maintenance and repair procedures associated with approved exemptions are continued and practiced.
 - f. The permittee shall submit to the DAQ a plan for complete, facility-wide implementation of RACT requirements within one hundred eighty (180) days of notification by the Director of the Division of Air Quality that a violation of the National Ambient Air Quality Standards (NAAQS) for ozone (that were in effect on or before May 1, 1996) has occurred. Such plan shall include those sources and activities listed as part of the site-wide control efficiency requirement and may contain an update of existing RACT analyses. Full implementation of such plan shall be completed within two (2) years of approval of the RACT plan by the Director.
 - g. Unless granted a variance pursuant to 45CSR21 Section 9.3, or as approved by the Director as part of a required Start-up, Shutdown, and Malfunction (SSM) Plan mandated under 40CFR63.6(e) or another applicable section of 40CFR63, the owner or operator of the facility shall operate all emission control equipment listed as part of the facility-wide control efficiency plan at all times the facilities are in operation or VOC emissions are occurring from these sources or activities. In the event of a malfunction, and a variance has not been granted, the production unit shall be shutdown or the activity discontinued as expeditiously as possible. The permittee shall comply with 45CSR21 Section 9.3 with respect to all periods of non-compliance with the emission limitations and emissions reduction requests set forth in the facility-wide control efficiency plan resulting from unavoidable malfunctions of equipment.
9. The permitted facility shall comply with all applicable requirements of 45CSR4 – “To Prevent and Control the Discharge of Air Pollutants into the Open Air which Cause or Contribute to an Objectionable Odor or Odors.”

10. The permittee shall comply with all applicable requirements of 45CSR7 provided, however, that compliance with any more stringent requirements under Section A, SPECIFIC REQUIREMENTS, shall also be demonstrated. The pertinent sections of 45CSR7 applicable to this facility include, but are not limited to, the following:

§45-7-3.1

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 subsections 3.2, 3.3, 3.4, 3.5, 3.6, and 3.7.

§45-7-3.2

The provisions of subsection 3.1 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.

§45-7-3.7

No person shall cause, suffer, allow or permit visible emissions from any storage structure(s) associated with any manufacturing process(es) that pursuant to subsection 5.1 is required to have a full enclosure and be equipped with a particulate matter control device.

§45-7-4.1

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 found at the end of this rule.

§45-7-4.3

No person shall circumvent the provisions of this rule by adding additional gas to any exhaust or group of exhausts for the purpose of reducing the stack gas concentration.

§45-7-4.12

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.

§45-7-5.1

No person shall cause, suffer, allow or permit any manufacturing process or storage structure generating fugitive particulate matter to operated 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.

§45-7-5.2

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.

§45-7-8.1

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 the 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.

§45-7-8.2

The Director, or his duly authorized representative, may conduct such other tests as he or she may deem necessary to evaluate air pollution emissions.

§45-7-9.1

Due to unavoidable malfunction of equipment, emissions exceeding those set forth in this rule 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.

11. The pertinent sections of 45CSR13 applicable to this facility include, but are not limited to, the following:

§45-13-6.1

At the time a stationary source is alleged to be in compliance with an applicable emission standard and at reasonable time to be determined by the Secretary thereafter, appropriate tests consisting of visual determinations or conventional in-stack measurements or such other tests the Secretary may specify shall be conducted to determine compliance.

§45-13-10.2

The Secretary may suspend or revoke a permit if, after six (6) months from the date of issuance, the holder of the permit cannot provide the Secretary, at the Secretary's request, with written proof of a good faith effort that construction, modification, or relocation, if applicable, has commenced. Such proof shall be provided not later than thirty (30) days after the Secretary's request. If construction or modification of a stationary source is discontinued for a period of eighteen (18) months or longer, the Secretary may suspend or revoke the permit.

§45-13-10.3

The Secretary may suspend or revoke a permit if the plans and specifications upon which the approval was based or the conditions established in the permit are not adhered to. Upon notice of the Secretary's intent to suspend, modify or revoke a permit, the permit holder may request a conference with the Secretary in accordance with the provisions of W. Va. Code §22-5-5 to show cause why the permit should not be suspended, modified or revoked.

12. 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. 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, or DVDs, or magnetic tape disks), on microfilm, or on microfiche.

Certified copies of these records 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."

C. GENERAL REQUIREMENTS

1. In accordance with 45CSR30 – “Operating Permit Program,” the permittee shall not operate nor cause to operate the permitted facility or other associated facilities on the same or contiguous sites comprising the plant without first filing a Certified Emissions Statement (CES) and paying the appropriate fee. Such Certified Emissions Statement (CES) shall be filed and the appropriate fee paid annually. 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.
2. 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.
3. The permitted facility shall be constructed and operated in accordance with information filed in Permit Applications R13-2365, R13-2365A, R13-2365B, R13-2365C and R13-2365D, R13-2365E, R13-2365G, and any 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.
4. At such reasonable time(s) as the Secretary may designate, the permittee shall conduct or have conducted test(s) to determine compliance with the emission limitations established in the permit application and/or applicable regulations. Test(s) shall be conducted in such a manner as the Secretary may specify or approve and shall be filed in a manner acceptable to the Secretary. The Secretary, or his/her duly authorized representative, may at his option witness or conduct such test. Should the Secretary exercise his option to conduct such test(s), the permittee shall provide all the 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. For any tests to be conducted by the permittee, a test protocol shall be submitted to the DAQ by the permittee at least thirty (30) days prior to the test and shall be approved by the Secretary. The Secretary shall be notified at least fifteen (15) days in advance of the actual dates and times during which the test will be conducted.
5. In the event the permittee should deem it necessary to suspend, for a period in excess of sixty (60) consecutive calendar days, the operations, either in whole or in part, 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.

6. 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.
7. The permittee shall notify the Secretary, in writing, within fifteen (15) calendar days of the commencement of the construction, modification, or relocation activities authorized under this permit.
8. The permittee shall notify the Secretary, in writing, at least fifteen (15) calendar days prior to actual startup of the operations authorized under this permit.
9. This permit is transferable in accordance with the requirements outlined in Section 10.1 or 45CSR13.
10. 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.
11. At such time(s) as the Secretary may designate, the permittee herein shall prepare and submit an emission inventory for the previous calendar 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 submittal frequency other than on an annual basis.

ISSUED BY:



WILLIAM F. DURHAM, DIRECTOR
WV DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF AIR QUALITY

DATE SIGNED: June 23, 2015

Secretary, in writing, within two (2) calendar weeks of the passing of the sixtieth (60) day of the suspension period.

6. 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.
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9. This permit is transferable in accordance with the requirements outlined in Section 10.1 or 45CSR13.
10. 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.
11. At such time(s) as the Secretary may designate, the permittee herein shall prepare and submit an emission inventory for the previous calendar 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 submittal frequency other than on an annual basis.

ISSUED BY:

William F. Durham, DIRECTOR
WV DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF AIR QUALITY

DATE SIGNED: June 23, 2015

Attachment A Monthly Records

**Chemours Washington Works
Teflon PFA Area (C1)
Permit R13-2365G**

Current month:
Data entered by:
Date entered:
Reviewed by:
Date reviewed:
Delegated Authority:
Date reviewed:

Equipment	Equipment ID No.	Value	Monthly Monitoring Parameter
Comonomer cylinders	C1FW		Cylinder disconnects – Comonomer A
Comonomer cylinders	C1FW		Cylinder disconnects – Comonomer B
Reactor	C1FQ		Aborted batches – after comonomer addition
Reactor	C1FQ		Aborted batches – after kickoff
Reactor	C1FQ		Normal batches – Product C
Reactor	C1FQ		Normal batches – All FP products
Reactor	C1FQ		Normal batches – All dispersion productions
Reactor	C1FQ		Maximum pressure after venting to monomers area
Reactor	C1FQ		Sumped batches
Totes	C1FR		# of totes prepared
Dryer	C1FS		Maximum dispersion flow to filter (lb/hr)
Dried polymer production	N/A		lb polymer
Extruder	C1FV		Maximum hourly screw speed
Polymer to mixer	N/A		lb polymer
Reactor	C1FE		Maximum bin weight for month
Reactor production	C1FE		# of batches
Extruder burnout oven	C1GR		Small packs cleaned
Extruder burnout oven	C1GR		Large packs cleaned
C1FSC1 filter delta P	C1FSC1		Maximum value (while running) (hourly average)
C1FEC scrubbing liquid conc., %	C1FEC		Minimum value (while running)
Reactor	C1FQ		# of completed GenX commercial dispersion batches included in count above
Reactor	C1FQ		# of aborted GenX commercial dispersion batches included in count above
Sump	C1GK		# of sumped GenX commercial dispersion batches included in count above
Extruder	C1FV		Total lbs of GenX commercial cube production (fluorinated and nonfluorinated) included in count above

CERTIFICATION OF DATA ACCURACY

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

Signature¹

(please use blue ink)

Responsible Official or Authorized Representative

Date

Name & Title

(please print or type)

Name

Title

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.