



west virginia department of environmental protection

Division of Air Quality  
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Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
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January 23, 2015

CERTIFIED MAIL  
9171999991703262422756

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

Re: E.I. duPont de Nemours and Company  
Washington Works  
Permit No. R13-2330G  
Plant ID No. 107-00001

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 R13-2330G 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



This permit will supercede and replace Permit R13-2330F.

Facility Location: Washington, Wood County, West Virginia  
Mailing Address: P. O. Box 1217, Washington, WV 26181-1217  
Facility Description: Chemical and Plastic Resins Manufacturing with supporting Research & Development  
SIC Codes: 2821  
UTM Coordinates: 442.31 km Easting • 4,346.8 km Northing • Zone 17  
Permit Type: Class I Administrative Update  
Description of Change: Removal of 200-S-211A, 200-S-211B, 200-S-211C, 200-S-212A, 200-S-212B, 200-S-213A, 200-S-213B, 200-S-214A, and 200-S-214B which has already been transferred to R13-2381H. These units have been removed from the equipment table and Condition 4.4.9. The Laboratory Hood's name has been changed from Research Laboratory Hood to Development Laboratory Hood in the equipment table and Conditions 4.1.2 and 4.4.9. As a result of this transfer of equipment to different permits, there will be no change in overall emissions at the facility.

*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.*

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*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.*

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**1.0. Emission Units**

<b>Emission Unit ID</b>	<b>Emission Point ID</b>	<b>Emission Unit Description</b>	<b>Year Installed</b>	<b>Design Capacity</b>	<b>Control Device</b>
22-S-001	22-E-001	Area Hoods to Bag Filter	1988	7,200 ACFM	22-C-001 Bag Filter
22-S-A11-007	22-E-001	A10/A11 Surface Coater	2000	3 PU <sup>1</sup>	22-C-001 Bag Filter
22-S-A11-007	22-E-A11-007	A10/A11 Surface Coater	2000	3 PU <sup>1</sup>	22-C-A11-007 Cyclone
22-S-A6-001A	22-E-A6-001	A6 Vent Ports	1988	3 PU <sup>1</sup>	None
22-S-A6-001B	22-E-A6-001	A6 Vacuum Pump	1988	3 PU <sup>1</sup>	None
22-S-A6-002	22-E-A6-002	A6 Die	1988	3 PU <sup>1</sup>	None
22-S-A6-003	22-E-A6-002	A6 Cutter	1988	3 PU <sup>1</sup>	None
22-S-A6-004	22-E-A6-002	A6 Cooler/Screener	1988	3 PU <sup>1</sup>	None
22-S-A6-005	22-E-A6-002	Product Conveying	1988	3 PU <sup>1</sup>	None
22-S-A6-006	22-E-A6-002	Product Bin/Box	1988	3 PU <sup>1</sup>	None
22-S-A8-001A	22-E-A8-001	A8 Vent Ports	1988	1 PU <sup>1</sup>	None
22-S-A8-001B	22-E-A8-001	A8 Vacuum Pump	1988	1 PU <sup>1</sup>	None
22-S-A8-002	22-E-A8-002	A8 Die	1988	1 PU <sup>1</sup>	None
22-S-A8-003	22-E-A8-002	A8 Cutter	1988	1 PU <sup>1</sup>	None
22-S-A8-004	22-E-A8-002	A8 Cooler/Screener	1988	1 PU <sup>1</sup>	None
22-S-A8-005	22-E-A8-002	Product Conveying	1988	1 PU <sup>1</sup>	None
22-S-A8-006	22-E-A8-002	Product Bin/Box	1988	1 PU <sup>1</sup>	None
22-S-A11-003	22-E-A8-002	A11 Cutter	2000	2 PU <sup>1</sup>	None
22-S-A11-004	22-E-A8-002	A11 Cooler/Screener	2000	2 PU <sup>1</sup>	None
22-S-A11-005	22-E-A8-002	Product Conveying	2000	2 PU <sup>1</sup>	None
22-S-A11-006	22-E-A8-002	Product Bin/Box	2000	2 PU <sup>1</sup>	None
22-S-A10-001A	22-E-A10-001	A10 Vent Ports	2000	3 PU <sup>1</sup>	None
22-S-A10-001B	22-E-A10-001	A10 Vacuum Pump	2000	3 PU <sup>1</sup>	None

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
22-S-A10-003	22-E-A10-002	A10 Cutter	2000	3 PU <sup>1</sup>	None
22-S-A10-005	22-E-A10-002	Product Conveying	2000	3 PU <sup>1</sup>	None
22-S-A10-006	22-E-A10-002	Product Bin/Box	2000	3 PU <sup>1</sup>	None
22-S-A10-007	22-E-A10-002	Box/Bin Sparge Station	2000	3 PU <sup>1</sup>	None
22-S-A11-001A	22-E-A11-001	A11 Vent Ports	2000	2 PU <sup>1</sup>	None
22-S-A11-001B	22-E-A11-001	A11 Vacuum Pump	2000	2 PU <sup>1</sup>	None
22-S-A10-002	22-E-A11-002	A10 Die	2000	3 PU <sup>1</sup>	22-C-A10-002 Scrubber
22-S-A11-002	22-E-A11-002	A11 Die	2000	2 PU <sup>1</sup>	22-C-A11-002 Scrubber
22-S-A10-004	22-E-A10-002	A10 Cooler/Screener	2000	3 PU <sup>1</sup>	None
22-S-101	22-E-001	Development Laboratory Hood	1970	2,830 ACFM	None
L047	L047E	Extruder	1995	61,360 samples/yr	None
L048	L048E	Extruder	1995	61,360 samples/yr	None
L050	L050E	Motan Conveyor	1995	153,320 samples/yr	None
LB3V	LB3E	Virtual Source for B3 Hoods	1957-1987	N/A	None

<sup>1</sup>PU represents a Production Unit as defined in traditional units of measure by confidential business information.

**2.0. General Conditions**

**2.1. Definitions**

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

**2.2. Acronyms**

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

### **2.3. Authority**

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

- 2.3.1. 45CSR13 – *Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permits, General Permits and Procedures for Evaluation*;

### **2.4. Term and Renewal**

- 2.4.1. This permit supersedes and replaces previously issued Permit R13-2330E. This Permit shall remain valid, continuous and in effect unless it is revised, suspended, revoked or otherwise changed under an applicable provision of 45CSR13 or any other applicable legislative rule;

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

- 2.5.1. The permitted facility shall be constructed and operated in accordance with the plans and specifications filed in Permit Application R13-2330, R13-2330A, R13-2330B, R13-2330C, R13-2330D, and R13-2330E, R13-2330F, and any modifications, administrative updates, or amendments thereto. For the three extruders (L046, L047, L048), a Motan Conveyor (L050), and a virtual Source for B3 Hoods (LB3V), the permitted units shall be constructed and operated in accordance with the plans and specifications filed in the applicable sections of Permit Applications R13-2654, R13-2654A, and R13-2654B. 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.
- d. The permittee shall submit a report of the results of the stack test within sixty (60) days of completion of the test. The test report shall provide the information necessary to document the objectives of the test and to determine whether proper procedures were used to accomplish these objectives. The report shall include the following: the certification described in paragraph 3.5.1.; a statement of compliance status, also signed by a responsible official; and, a summary of conditions which form the basis for the compliance status evaluation. The summary of conditions shall include the following:
  1. The permit or rule evaluated, with the citation number and language;
  2. The result of the test for each permit or rule condition; and,
  3. A statement of compliance or noncompliance with each permit or rule condition.

[WV Code § 22-5-4(a)(14-15) and 45CSR13]

### 3.4. Recordkeeping Requirements

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

accessible within a reasonable time. Where appropriate, the permittee may maintain records electronically (on a computer, on computer floppy disks, CDs, DVDs, or magnetic tape disks), on microfilm, or on microfiche.

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

### 3.5. Reporting Requirements

- 3.5.1. **Responsible official.** Any application form, report, or compliance certification required by this permit to be submitted to the DAQ and/or USEPA shall contain a certification by the responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- 3.5.2. **Confidential information.** A permittee may request confidential treatment for the submission of reporting required by this permit pursuant to the limitations and procedures of W.Va. Code § 22-5-10 and 45CSR31.
- 3.5.3. **Correspondence.** All notices, requests, demands, submissions and other communications required or permitted to be made to the Secretary of DEP and/or USEPA shall be made in writing and shall be deemed to have been duly given when delivered by hand, or mailed first class with postage prepaid to the address(es) set forth below or to such other person or address as the Secretary of the Department of Environmental Protection may designate:

**If to the DAQ:**  
Director  
WVDEP  
Division of Air Quality  
601 57<sup>th</sup> Street  
Charleston, WV 25304-2345

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

#### 3.5.4. Operating Fee

- 3.5.4.1. In accordance with 45CSR30 – Operating Permit Program, the permittee shall submit a certified emissions statement and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality. A receipt for the appropriate fee shall be maintained on the premises for which the receipt has been issued, and shall be made immediately available for inspection by the Secretary or his/her duly authorized representative.
- 3.5.5. **Emission inventory.** At such time(s) as the Secretary may designate, the permittee herein shall prepare and submit an emission inventory for the previous year, addressing the emissions from the facility and/or process(es) authorized herein, in accordance with the emission inventory submittal requirements of the Division of Air Quality. After the initial submittal, the Secretary may, based upon the type and quantity of the pollutants emitted, establish a frequency other than on an annual basis.

#### 4.0. Source-Specific Requirements

##### 4.1. Limitations and Standards

- 4.1.1. This permit covers the operation of the equipment specified in Section 1.0 of this permit during periods designated as commercial production.
- a. All other periods of operation not specifically defined as commercial production shall be operated in accordance with the requirements and limitations found in 45CSR13A and 45CSR13B.
  - b. The emissions limitations placed on the aggregated laboratory hoods in Section 4.1.2 of this permit for Toxic Air Pollutants (TAP) regulated under 45CSR27 shall apply during all periods of operation.
- 4.1.2. Emissions of condensable volatile organic compounds with a boiling point greater than 120 °C [PM(VOC)], solid particulate matter [PM(solids)], volatile organic compounds (VOC), carbon monoxide (CO), and hazardous air pollutants (HAP), as identified below, shall not exceed the maximum hourly and annual emission limits listed in Tables 4.1.2(a), 4.1.2(b), and 4.1.2(c).

Table 4.1.2(a)

Emission Point ID	PM (solids)		PM(VOC)		Total PM <sup>1</sup>	
	(lb/hr)	(TPY)	(lb/hr)	(TPY)	(lb/hr)	(TPY)
22-E-A6-001	-	-	0.02	0.06	0.02	0.06
22-E-A6-002	0.01	0.02	1.30	5.66	1.31	5.68
22-E-A8-001	-	-	0.01	0.02	0.01	0.02
22-E-A8-002	0.01	0.02	0.44	1.89	0.44	1.91
22-E-A10-001	-	-	0.02	0.06	0.02	0.06
22-E-A11-002	-	-	0.55	2.41	0.55	2.41
22-E-A10-002	0.01	0.02	-	-	0.01	0.02
22-E-A11-001	-	-	0.01	0.04	0.01	0.04
22-E-001	0.04	0.16	-	-	0.04	0.16
RLabHoods <sup>2</sup>	-	-	-	-	-	-
<b>Totals</b>	<b>0.05</b>	<b>0.20</b>	<b>2.32</b>	<b>10.14</b>	<b>2.37</b>	<b>10.35</b>

<sup>1</sup> Note that the Total PM is derived as the sum of the PM (VOC) and the PM (solid). The PM (HAP) listed in Table 4.1.2.c. is not included because the production of the material that generates the PM (VOC) and the material that generates the PM (HAP) cannot coincide.

<sup>2</sup> RLabHoods is a virtual emission point representing the sum of all identified Development Laboratory Hoods with the exception of 22-E-001.

Table 4.1.2(b)

Emission Point ID	CO		SO <sub>2</sub>		VOC	
	(lb/hr)	(TPY)	(lb/hr)	(TPY)	(lb/hr)	(TPY)
22-E-A6-001	0.02	0.07	-	-	0.15	0.65
22-E-A6-002	0.02	0.07	-	-	0.22	0.93
22-E-A8-001	0.01	0.03	-	-	0.01	0.04
22-E-A8-002	0.01	0.03	-	-	0.01	0.05
22-E-A10-001	0.02	0.07	-	-	0.15	0.65
22-E-A11-002	0.03	0.11	-	-	0.04	0.17
22-E-A10-002	-	-	-	-	0.22	0.93
22-E-A11-001	0.01	0.05	-	-	0.02	0.07
22-E-001	-	-	-	-	-	-
RLabHoods <sup>1</sup>	-	-	0.01	0.01	0.03	0.13
<b>Totals</b>	<b>0.09</b>	<b>0.40</b>	<b>0.01</b>	<b>0.01</b>	<b>0.83</b>	<b>3.61</b>

<sup>1</sup> RLabHoods is a virtual emission point representing the sum of all identified Development Laboratory Hoods.

**Table 4.1.2(c)**

Emission Point ID	Methylene Chloride		Formaldehyde		Total HAP	
	(lb/hr)	(TPY)	(lb/hr)	(TPY)	(lb/hr)	(TPY)
22-E-A6-001	-	-	0.01	0.01	0.01	0.01
22-E-A6-002	-	-	0.01	0.02	0.01	0.02
22-E-A8-001	-	-	-	-	-	-
22-E-A8-002	-	-	-	-	-	-
22-E-A10-001	-	-	0.05	0.20	0.08	0.31
22-E-A10-002	-	-	0.05	0.20	0.05	0.20
22-E-A11-001	-	-	0.03	0.14	0.03	0.21
22-E-A11-002	-	-	0.01	0.02	0.09	0.41
22-E-001	-	-	-	-	0.01	0.01
RLabHoods <sup>1</sup>	0.02	0.03	0.02	0.05	0.02	0.05
<b>Totals</b>	<b>0.02</b>	<b>0.03</b>	<b>0.14</b>	<b>0.62</b>	<b>0.25</b>	<b>1.20</b>

<sup>1</sup> RLabHoods is a virtual emission point representing the sum of all identified Development Laboratory Hoods with the exception of 22-E-001.

- 4.1.3. The emissions of total HAPs identified in Section 4.1.2 of this permit, may consist of any one, or combination of those pollutants listed in the following table:

**Table 4.1.3.**

Chemical	CAS Number
Acetaldehyde	75-07-0
Epichlorohydrin	106-89-8
Formaldehyde <sup>1</sup>	50-00-0
Methanol	67-56-1
Methylene Chloride <sup>1</sup>	75-09-2
Phenol	108-95-2
Sodium Antimonate	15432-85-6

<sup>1</sup> Toxic air pollutants shall not exceed the specific emission limits set forth in Table 4.1.2(c) of this permit.

- 4.1.4. Extrusion lines employing emission points 22-E-A6-001, 22-E-A6-002, 22-E-A8-001, and 22-E-A8-002 shall be limited to the production of LCP resin, nylon, modified nylon and HT nylon resins. The extrusion line employing emission points 22-E-A6-001, and 22-E-A6-002 shall also be allowed to process Polymer B resins in addition to the previously mentioned materials.
- 4.1.5. Extrusion lines employing emission points 22-E-A10-001, 22-E-A10-002, 22-E-A11-001, and 22-E-A11-002 shall be limited to the production of LCP resin, acetal, modified acetal, nylon, modified nylon, HT nylon resins, and polyester resins. The extrusion line employing emission points 22-E-A10-001, and 22-E-A10-002 shall also be allowed to process Polymer B resins in addition to the previously mentioned materials.
- 4.1.6. Inherent process devices that, as part of their operation, remove pollutants prior to discharge into the atmosphere, must be used whenever the accompanying production line is operational for all product types except acetal and modified acetal resins. The inherent process equipment shall include sources 22-S-A6-001B, 22-S-A8-001B, 22-S-A10-001B, and 22-S-A11-001B.
- 4.1.7. Emissions from sources 22-S-A10-002 and 22-S-A11-002 shall be routed through the scrubber control devices 22-C-A10-002 and 22-C-A11-002 respectively, during all periods of operation, prior to the emissions being discharged into the atmosphere. The scrubbers, referenced above, shall be maintained and operated per manufacturer's specifications and within the following parameters:
- a. The Blower suction pressure drop shall be less than or equal to 41 inches water pressure based on a 15-

- minute average.
- b. The water flow rate through the scrubber spray nozzles shall be greater than or equal to 25 gallons per minute based on a 15-minute average.
  - c. The fresh water make-up rate shall be greater than or equal to 1 gallon per minute based on a 15-minute average.
- 4.1.8. The A10/A11 Surface Coater (22-S-A11-007) has two emission points. Emissions from pellets being conveyed to the surface coater shall be routed through an integral cyclone, and then through a bag filter (22-C-001) before being released to the atmosphere through emission point 22-E-001. Emissions from the cooler/screener section of the surface coater shall be routed through a cyclone (22-C-A11-007) before being released to the atmosphere through emission point 22-E-A11-007. The pollution control equipment (22-C-001 and 22-C-A11-007) shall be operated at all times during surface coating operations. The integral devices and control equipment shall be maintained and operated per manufacturer's specifications as well as the specifications described in permit application R13-2330B and any subsequent amendments thereto.
- 4.1.9. The permittee shall not cause, suffer, allow or permit emissions of smoke and/or particulate matter into the open air from any process source operation which is greater than twenty (20) percent opacity, except as noted in Section 4.1.10 of this permit. [45CSR§7-3.1]
- 4.1.10. The provisions of Section 4.1.9 in this permit shall not apply to smoke and/or particulate matter emitted from any process source operation which is less than forty (40) percent opacity for any period or periods aggregating no more than five (5) minutes in any sixty (60) minute period. [45CSR§7-3.2]
- 4.1.11. The permittee shall not cause, suffer, allow or permit visible emissions from any storage structure(s) associated with any manufacturing process(es) that, pursuant to Section 4.1.12 of this permit, is required to have a full enclosure and be equipped with a particulate matter control device. [45CSR§7-3.7]
- 4.1.12. The permittee shall not cause, suffer, allow or permit any manufacturing process or storage structure generating fugitive particulate matter to operate that is not equipped with a system, which may include, but not be limited to, process equipment design, control equipment design or operations and maintenance procedures, to minimize the emission of fugitive particulate matter. To minimize means such system shall be installed, maintained and operated to ensure the lowest fugitive particulate emissions reasonably achievable. [45CSR§7-5.1]
- 4.1.13. The permitted facility shall comply with all applicable requirements of 45CSR27 – “To Prevent and Control the Emissions of Toxic Air Pollutants.” The facility shall limit total emissions of regulated pollutant from each specific emission point in Section 4.1.2 of this permit to the maximum hourly and annual limits set in Section 4.1.2. These requirements replace and supercede the formaldehyde limiting requirements pertaining to equipment covered by this permit found in the most current version of R13-2617. [45CSR27]
- 4.1.14. Material processed in the equipment covered by this permit (excluding laboratory hoods) shall not exceed the amount indicated in the capacity column in the tables found in Section 1 of this permit.
- 4.1.15. **Operation and Maintenance of Air Pollution Control Equipment.** The permittee shall, to the extent practicable, install, maintain, and operate all pollution control equipment listed in Section 1.0 and associated monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions, or comply with any more stringent limits set forth in this permit or as set forth by any State rule, Federal regulation, or alternative control plan approved by the Secretary. [45CSR§13-5.11.]

## 4.2. Monitoring Requirements

- 4.2.1 For the purpose of determining compliance with the opacity limits set forth in Sections 4.1.9 and 4.1.10, the permittee shall conduct visual emissions monitoring for all emission points and equipment subject to visual emissions or opacity limits under 45CSR§7, including, but not limited to, the emission points addressed in Section 4.1.2.

Monitoring shall be conducted at least once per month with a maximum of forty-five (45) days between consecutive readings. These checks shall be performed during periods of normal operation of emission sources that vent from the referenced emission points for a sufficient time interval to determine if there is a visible emission. If visible emissions are identified during the visible emission check, or at any other time regardless of operations, the permittee shall conduct a visual emission evaluation per 45CSR§7A within three (3) days of the first identification of visible emissions. A 45CSR7A evaluation shall not be required if the visible emission condition is corrected within seventy-two (72) hours after the visible emission and the sources are operating at normal conditions.

## 4.3. Testing Requirements

- 4.3.1. Any stack serving any process source operation or air pollution control device 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.]

- 4.3.2. **Opacity testing.** Any test to determine compliance with the visible emission (opacity) limitations set forth in Sections 4.1.9 and 4.1.10 shall be conducted by personnel appropriately trained for the task. Personnel performing the visual emissions observation shall be trained and familiar with the limitations and restrictions associated with 40 CFR 60 Appendix A – Method 22. Any person performing an opacity observation for compliance assessment in the event of visible emissions must be a certified visible emission observer in accordance with 45CSR7A – “Compliance Test Procedures for 45CSR7 – *To Prevent and Control Particulate Air Pollution from Manufacturing Process Operations*”. Nothing in this section, however, shall preclude any permittee or the Secretary from using opacity data from a properly installed, calibrated, maintained and operated continuous opacity monitor as evidence to demonstrate compliance or a violation of visible emission requirements. If continuous opacity monitoring data results are submitted when determining compliance with visible emission limitations for a period of time during which 45CSR7A or Method 22 data indicates noncompliance, the 45CSR7A or Method 22 data shall be used to determine compliance with the visible emission limitations.

## 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. To demonstrate compliance with emission limits in Section 4.1.2 of this permit, the permittee shall maintain records of the maximum hourly production rate of each day. These records shall be maintained according to the conditions specified in 40 CFR 63.10(b)(1). Such records shall be certified by a (Responsible Official) and made available to the Director or his duly authorized representative upon request.
- 4.4.5. To demonstrate compliance with the emission limits of Section 4.1.2 of this permit, the permittee shall maintain monthly records of the total annual production of each product. Annual production rates shall be based on a 12-month rolling total. These records shall be maintained according to the conditions specified in 40 CFR 63.10(b)(1).
- 4.4.6. To demonstrate compliance with the requirements of 4.1.7, the permittee shall continuously monitor the blower suction pressure drop, the scrubber spray nozzle water flow and the make up water flow rate to each scrubber when the extrusion line feeding that scrubber is operational.
- 4.4.7. The permittee shall maintain records of all monitoring data required by Section 4.2.1 of this permit, 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 45CSR§7A, the data records of each observation shall be maintained per the requirements of 45CSR§7A. For an emission unit out of service during the normal monthly evaluation, the record of observation may note “out of service” (OOS) or equivalent. These records shall be maintained according to the conditions specified in 40 CFR 63.10(b)(1).

- 4.4.8. In the event that an applicable MACT [Maximum Achievable Control Technology] standard is promulgated in the future that requires a Startup, Shutdown and Malfunction (SSM) Plan or the permittee voluntarily employs a SSM Plan, the SSM Plan shall supercede and replace the provisions of Section 4.4.3 of this permit. The permittee shall notify the Director in writing of the adoption of such SSM Plans.
- 4.4.9. To demonstrate compliance with the emission limits associated with the "Development Lab Hoods", identified in Section 4.1.2, Tables 4.1.2(a) through 4.1.2(c) of this permit, the development facilities shall maintain a monthly record of the specific pollutants regulated and consumed by the hoods. This monthly consumption record will also be included in an annual consumption report for the Development Lab Hoods. This report shall document the amount of the chemicals regulated under 45 CSR 27 and processed through the Development Lab Hoods under the control of Development personnel. The affected source shall include 22-S-101.
- 4.4.10. To demonstrate compliance with the capacity limitations on the extrusion lines covered by this permit, including production lines A6, A8, A10 and A11, the permittee shall maintain daily records of the highest hourly operating rate achieved for each material family ran on each extruder.

#### **4.5. Reporting Requirements**

- 4.5.1. *[Reserved]*

**5.0. Source-Specific Requirements – Central Laboratory**

**5.1. Limitations and Standards**

5.1.1. Emissions released from the extrusion units (Sources L046, L047, L048, and L050) shall be limited to the pollutants and associated total combined emission rates as set forth in Table 5.1.1. of this permit.

**Table 5.1.1.**

Emission Point	Source(s)	Pollutant	Emission Rates	
			Hourly (pph)	Annual (tpy)
L046E	L046	CO Particulate VOC Formaldehyde Methanol	0.1	0.1
L047E	L047		0.8	3.2
L048E	L048		0.1	0.4
			0.01	0.01
L050E	L050		0.01	0.01

5.1.2. Laboratory hoods (L001 - L040), identified collectively as Source LB3, shall not exceed a total maximum combined annual emission rate of 0.04 tons per year of methylene chloride, based on a 12-month rolling total.

5.1.3. Emission sources and the associated emission points affected by Section 5.0 of this permit and subject to 45CSR21, shall be subject to the standards and requirements set forth in permit R13-2617, and any amendments thereto.

5.1.4. Emission sources and the associated emission points affected by Section 5.0 of this permit and subject to 45CSR27, shall be subject to the standards and requirements set forth in permit R13-2617, and any amendments thereto.

5.1.5. **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.]

**5.2. Monitoring Requirements**

5.2.1. For the purpose of determining compliance with the opacity limits of 45CSR7-3.1 and 3.2, the permittee shall conduct opacity monitoring for those emissions points identified in Table 5.1.1. of this permit. Monitoring shall be conducted at least once per month with a maximum of forty-five (45) days between consecutive readings. 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. 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.

### 5.3. Testing Requirements

*[Reserved]*

### 5.4. Recordkeeping Requirements

5.4.1. **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.

5.4.2. **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.

5.4.3. **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.

5.4.4. For the purpose of determining compliance with the emission limits set forth in Section 5.1.1. of this permit, the permittee shall maintain monthly records of the numbers and types of samples processed on the equipment, as well as the hours of operation. Such process records shall be used to calculate actual facility emissions on a monthly and 12-month rolling total basis.

5.4.5. For the purpose of demonstrating compliance with the emission limit set forth in Section 5.1.2. of this permit, the permittee shall maintain purchase, transfer, and delivery records documenting the consumption

of methylene chloride. Records shall be maintained for each of the affected hoods that introduce or utilize methylene chloride during the course of the operating year.

**5.5. Reporting Requirements**

*[Reserved]*

### CERTIFICATION OF DATA ACCURACY

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

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

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

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

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