



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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July 7, 2016

CERTIFIED MAIL
91 7199 9991 7035 6692 9524

Charles R. Hill
SHE Manager
E. I. Du Pont de Nemours and Company
P.O. Box 2800
Washington, WV 26181

Re: E. I. Du Pont de Nemours and Company
Washington Works
Permit No. R13-1533L
Plant ID No. 107-00001

Dear Mr. Hill:

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 R13-1533L 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.

Promoting a healthy environment.

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 R13-1533K.

Facility Location: Washington, Wood County, West Virginia
Mailing Address: P. O. Box 1217, Washington, WV 26181-1217
Facility Description: Specialty Compounding
SIC Codes: 2821 Chemicals and Allied Products – Plastic Materials and Resins
UTM Coordinates: 442.31 km Easting • 4,346.79 km Northing • Zone 17
Permit Type: Class II Administrative Update
Description of Change: Modification of bulk storage silo S293-S-01F for installation of a bag house to handle a powder raw material that is new to the bulk storage silo. The new baghouse is inherent to the process because the material cannot be transferred if the device is not operating. Also changed annual emission limits from pounds per year unit to tons per year unit of measures for consistency with other active permits at the Washington Works site.

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

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

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Appendix A

Attachment A – Monthly Opacity Monitoring Record

Attachment B – Monthly Production Records

Attachment C – Monthly Emissions Records

Attachment D – Annual Emissions and Production Records

Attachment E – Certification of Data Accuracy

1.0. Emission Units

Emission Point ID	Control Device	Emission Unit ID	Emission Unit Description	Year Installed/Modified
S293-E-049 General Area	S293-C-031 Baghouse # 1	S293-S-038	Area Hoods	1991
		S293-S-078	Miscellaneous Hoods	1991
S293-E-01A	S293-C-01A Bag Filter	S293-S-01A	Bulk Storage Silo	1991
S293-E-01B	S293-C-01B Bag Filter	S293-S-01B	Bulk Storage Silo	1991
S293-E-01C	S293-C-01C Bag Filter	S293-S-01C	Bulk Storage Silo	1991
S293-E-01D	S293-C-01D Bag Filter	S293-S-01D	Bulk Storage Silo	1991
S293-E-01E	S293-C-01E Bag Filter	S293-S-01E	Bulk Storage Silo	1991
S293-E-01F	S293-C-01F Bag Filter	S293-S-01F	Bulk Storage Silo	2011
S293-E-02A	-----	S293-S-02A	SA Extruder – Vacuum Port	1991
S293-E-03A	S293-C-03A Air Filter (HEAF)	S293-S-02A	Extruder Die	1991
S293-E-02B	-----	S293-S-02B	SB Extruder – Vacuum Port	1991
S293-E-03B	S293-C-03B Wet Venturi Scrubber	S293-S-02B	Extruder Die	2016
S293-E-02C	-----	S293-S-02C	SC Extruder – Vacuum Port	1991
S293-E-03C	S293-C-03C Air Filter (HEAF)	S293-S-02C	Extruder Die	1991
S293-E-02D	-----	S293-S-02D	SD Extruder – Vacuum Port	1991
S293-E-03D	S293-C-03D Wet Venturi Scrubber	S293-S-02D	Extruder Die	2015
S293-E-04A	S293-C-04A Air Filter	S293-S-03A	Screen A	1991
		S293-S-14A	Receiver Bin A	
	None	S293-S-10A	Extruder Cutter	
S293-E-04B	S293-C-04B Air Filter	S293-S-03B	Screen B	1991
		S293-S-14B	Receiver Bin B	
	None	S293-S-10B	Extruder Cutter	
S293-E-04C	S293-C-04C Air Filter	S293-S-03C	Screen C	1991
		S293-S-14C	Receiver Bin C	
	None	S293-S-10C	Extruder Cutter	

Emission Point ID	Control Device	Emission Unit ID	Emission Unit Description	Year Installed
S293-E-04D	S293-C-04D Air Filter	S293-S-03D	Screen D	1991
		S293-S-14D	Receiver Bin D	
		S293-S-10D	Extruder Cutter	
S293-E-05A	None	S293-S-04A	Impact Separator A	1991
S293-E-05B	None	S293-S-04B	Impact Separator B	1991
S293-E-05C	None	S293-S-04C	Impact Separator C	1991
S293-E-05D	None	S293-S-04D	Impact Separator D	1991
S293-E-06A	None	S293-S-06A	SA Quench Bath	1991
		S293-S-07A	SA Plop Buggy	1991
S293-E-06B	None	S293-S-06B	SB Quench Bath	1991
		S293-S-07B	SB Plop Buggy	1991
S293-E-06C	None	S293-S-06C	SC Quench Bath	1991
		S293-S-07C	SC Plop Buggy	1991
S293-E-06D	None	S293-S-06D	SD Quench Bath	1991
		S293-S-07D	SD Plop Buggy	1991
S293-E-ANA	None	Emission Point S293-E-AN(x) is a virtual point to combine the acrylonitrile emissions from sources S293-S-02(x) Dies and S293-S-(x) Vacuum ports.		1991
S293-E-ANB	None			1991
S293-E-ANC	None			1991
S293-E-AND	None			1991

Design Capacity of emission units and control devices are considered confidential and, under the protections allowed by 45 CSR 31, are not shown.

2.0. General Conditions

2.1. Definitions

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

2.2. Acronyms

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

2.3. Authority

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

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

2.4. Term and Renewal

- 2.4.1. This permit supersedes and replaces previously issued Permit R13-1533K. 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 R13-1533, R13-1533A, R13-1533B, R13-1533C, R13-1533D, R13-1533E, R13-1533F, R13-1533G, R13-1533H, R13-1533I, R13-1533J, R13, 1533K, R13-1533L, and any modifications, administrative updates, or amendments thereto. The Secretary may suspend or revoke a permit if the plans and specifications upon which the approval was based are not adhered to;
[45CSR§§13-5.11 and -10.3.]
- 2.5.2. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the West Virginia Code and the Clean Air Act and is grounds for enforcement action by the Secretary or USEPA;
- 2.5.3. Violations of any of the conditions contained in this permit, or incorporated herein by reference, may subject the permittee to civil and/or criminal penalties for each violation and further action or remedies as provided by West Virginia Code 22-5-6 and 22-5-7;
- 2.5.4. Approval of this permit does not relieve the permittee herein of the responsibility to apply for and obtain all other permits, licenses, and/or approvals from other agencies; i.e., local, state, and federal, which may have jurisdiction over the construction and/or operation of the source(s) and/or facility herein permitted.

2.6. Duty to Provide Information

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

2.7. Duty to Supplement and Correct Information

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

2.8. Administrative Update

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

[45CSR§13-4.]

2.9. Permit Modification

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

[45CSR§13-5.4.]

2.10 Major Permit Modification

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

[45CSR§13-5.1]

2.11. Inspection and Entry

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

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

2.12. Emergency

- 2.12.1. An "emergency" means any situation arising from sudden and reasonable unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable

to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

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

2.13. Need to Halt or Reduce Activity Not a Defense

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

2.14. Suspension of Activities

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

2.15. Property Rights

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

2.16. Severability

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

2.17. Transferability

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

2.18. Notification Requirements

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

2.19. Credible Evidence

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

3.0. Facility-Wide Requirements

3.1. Limitations and Standards

- 3.1.1. **Open burning.** The open burning of refuse by any person, firm, corporation, association or public agency is prohibited except as noted in 45CSR§6-3.1.
[45CSR§6-3.1.]
- 3.1.2. **Open burning exemptions.** The exemptions listed in 45CSR§6-3.1 are subject to the following stipulation: Upon notification by the Secretary, no person shall cause, suffer, allow or permit any form of open burning during existing or predicted periods of atmospheric stagnation. Notification shall be made by such means as the Secretary may deem necessary and feasible.
[45CSR§6-3.2.]
- 3.1.3. **Asbestos.** The permittee is responsible for thoroughly inspecting the facility, or part of the facility, prior to commencement of demolition or renovation for the presence of asbestos and complying with 40 C.F.R. § 61.145, 40 C.F.R. § 61.148, and 40 C.F.R. § 61.150. The permittee, owner, or operator must notify the Secretary at least ten (10) working days prior to the commencement of any asbestos removal on the forms prescribed by the Secretary if the permittee is subject to the notification requirements of 40 C.F.R. § 61.145(b)(3)(i). The USEPA, the Division of Waste Management, and the Bureau for Public Health - Environmental Health require a copy of this notice to be sent to them.
[40CFR§61.145(b) and 45CSR§34]
- 3.1.4. **Odor.** No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor at any location occupied by the public.
[45CSR§4-3.1] *[State Enforceable Only]*
- 3.1.5. **Permanent shutdown.** A source which has not operated at least 500 hours in one 12-month period within the previous five (5) year time period may be considered permanently shutdown, unless such source can provide to the Secretary, with reasonable specificity, information to the contrary. All permits may be modified or revoked and/or reapplication or application for new permits may be required for any source determined to be permanently shutdown.
[45CSR§13-10.5.]
- 3.1.6. **Standby plan for reducing emissions.** When requested by the Secretary, the permittee shall prepare standby plans for reducing the emissions of air pollutants in accordance with the objectives set forth in Tables I, II, and III of 45CSR11.
[45CSR§11-5.2.]

3.2. Monitoring Requirements

[Reserved]

3.3. Testing Requirements

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

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

- a. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with 40 C.F.R. Parts 60, 61, and 63 in accordance with the Secretary's delegated authority and any established equivalency determination methods which are applicable. If a testing method is specified or approved which effectively replaces a test method specified in the permit, the permit may be revised in accordance with 45CSR§13-4. or 45CSR§13-5.4 as applicable.
- b. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with applicable requirements which do not involve federal delegation. In specifying or approving such alternative testing to the test methods, the Secretary, to the extent possible, shall utilize the same equivalency criteria as would be used in approving such changes under Section 3.3.1.a. of this permit. If a testing method is specified or approved which effectively replaces a test method specified in the permit, the permit may be revised in accordance with 45CSR§13-4. or 45CSR§13-5.4 as applicable.
- c. All periodic tests to determine mass emission limits from or air pollutant concentrations in discharge stacks and such other tests as specified in this permit shall be conducted in accordance with an approved test protocol. Unless previously approved, such protocols shall be submitted to the Secretary in writing at least thirty (30) days prior to any testing and shall contain the information set forth by the Secretary. In addition, the permittee shall notify the Secretary at least fifteen (15) days prior to any testing so the Secretary may have the opportunity to observe such tests. This notification shall include the actual date and time during which the test will be conducted and, if appropriate, verification that the tests will fully conform to a referenced protocol previously approved by the Secretary.

[WV Code § 22-5-4(a)(15)]

3.4. Recordkeeping Requirements

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

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

3.5. Reporting Requirements

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

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

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

3.5.4. Operating Fee

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

4.0. Source-Specific Requirements

4.1. Limitations and Standards

4.1.1 The permittee shall not exceed the following maximum hourly and annual emission limits for PM, PM₁₀, VOC, CO, and indicated HAPs:

Table 4.1.1. – PM, PM₁₀, VOC, CO and HAP Emission Limits

Emission Point ID. Number	Control Device ID. Number	Emission Source Name and ID. No.	Maximum Emissions		
			Pollutant	(lb/hr)	(tpy)
S293-E-01A	S293-C-01A	Bulk Storage Silo S293-S-01A	PM	0.07	0.04
S293-E-01B	S293-C-01B	Bulk Storage Silo S293-S-01B	PM	0.07	0.04
S293-E-01C	S293-C-01C	Bulk Storage Silo S293-S-01C	PM	0.07	0.04
S293-E-01D	S293-C-01D	Bulk Storage Silo S293-S-01D	PM	0.07	0.04
S293-E-01E	S293-C-01E	Bulk Storage Silo S293-S-01E	PM	0.07	0.04
S293-E-01F	S293-C-01F	Bulk Storage Silo S293-S-01F	PM	0.01	0.01
			VOC	0.02	0.07
			Formaldehyde	0.01	0.01
S293-E-02A	None	Vacuum System Exhaust S293-S-02A	PM ₁₀	0.01	0.05
			VOC	0.08	0.32
			CO	0.03	0.11
			Formaldehyde	0.08	0.32
			Benzene	0.01	0.01
			Total HAPs ¹	0.10	0.43
S293-E-02B	None	Vacuum System Exhaust S293-S-02B	PM ₁₀	0.01	0.05
			VOC	0.08	0.32
			CO	0.03	0.11
			Formaldehyde	0.08	0.32
			Benzene	0.01	0.01
			Total HAPs ¹	0.10	0.43
S293-E-02C	None	Vacuum System Exhaust S293-S-02C	PM ₁₀	0.01	0.05
			VOC	0.08	0.32
			CO	0.03	0.11
			Formaldehyde	0.08	0.32
			Benzene	0.01	0.01
			Total HAPs ¹	0.10	0.43
S293-E-02D	None	Vacuum System Exhaust S293-S-02D	PM ₁₀	0.01	0.05
			VOC	0.08	0.32
			CO	0.03	0.11
			Formaldehyde	0.08	0.32
			Benzene	0.01	0.01
			Total HAPs ¹	0.10	0.43
S293-E-03A	S293-C-03A	Extrusion Die Exhaust S293-S-02A	PM	.08	0.34
			PM ₁₀	.08	0.34
			VOC	.08	0.32
			CO	.03	0.11
			Formaldehyde	.08	0.32

Emission Point ID. Number	Control Device ID. Number	Emission Source Name and ID. No.	Maximum Emissions		
			Pollutant	(lb/hr)	(tpy)
S293-E-03B	S293-C-03B	Extrusion Die Exhaust S293-S-02B	Total HAPs ¹	0.11	0.45
			PM	.08	0.34
			PM ₁₀	.08	0.34
			VOC	.08	0.32
			CO	.03	0.11
			Formaldehyde	.01	0.04
S293-E-03C	S293-C-03C	Extrusion Die Exhaust S293-S-02C	Total HAPs ¹	0.04	0.17
			PM	.08	0.34
			PM ₁₀	.08	0.34
			VOC	.08	0.32
			CO	.03	0.11
			Formaldehyde	.08	0.32
S293-E-03D	S293-C-03D	Extrusion Die Exhaust S293-S-02D	Total HAPs ¹	0.11	0.45
			PM	.08	0.34
			PM ₁₀	.08	0.34
			VOC	.08	0.32
			CO	.03	0.11
			Formaldehyde	.01	0.04
S293-E-04A	S293-C-04A	Cooler / Screener S293-S-03A; Receiver Bins S293-S-14A; Pelletizer Exhaust S293-S-10A	Total HAPs ¹	0.04	0.17
			PM	0.54	2.34
			PM ₁₀	0.03	0.12
			PM _{2.5}	0.02	0.06
			Formaldehyde	0.09	0.37
S293-E-04B	S293-C-04B	Cooler / Screener S293-S-03A; Receiver Bins S293-S-14A; Pelletizer Exhaust S293-S-10A	Total HAPs ¹	0.04	0.17
			PM	0.54	2.34
			PM ₁₀	0.03	0.12
			PM _{2.5}	0.02	0.06
			Formaldehyde	0.09	0.37
S293-E-04C	S293-C-04C	Cooler / Screener S293-S-03A; Receiver Bins S293-S-14A; Pelletizer Exhaust S293-S-10A	Total HAPs ¹	0.04	0.17
			PM	0.54	2.34
			PM ₁₀	0.03	0.12
			PM _{2.5}	0.02	0.06
			Formaldehyde	0.09	0.37
S293-E-04D	S293-C-04D	Cooler / Screener S293-S-03A; Receiver Bins S293-S-14A; Pelletizer Exhaust S293-S-10A	Total HAPs ¹	0.04	0.17
			PM	0.54	2.34
			PM ₁₀	0.03	0.12
			PM _{2.5}	0.02	0.06
			Formaldehyde	0.09	0.37
S293-E-05A	None	Impact Separator S293-S-04A	PM	0.02	0.05
			Formaldehyde	0.01	0.02
S293-E-05B	None	Impact Separator S293-S-04B	PM	0.02	0.05
			Formaldehyde	0.01	0.02
S293-E-05C	None	Impact Separator S293-S-04C	PM	0.02	0.05
			Formaldehyde	0.01	0.02
S293-E-05D	None	Impact Separator S293-S-04D	PM	0.02	0.05
			Formaldehyde	0.01	0.02

Emission Point ID. Number	Control Device ID. Number	Emission Source Name and ID. No.	Maximum Emissions		
			Pollutant	(lb/hr)	(tpy)
S293-E-06A	None	Quench Bath S293-S-06 A Plop Buggy S293-S-07 A	Acetaldehyde	0.01	0.01
			Carbon Monoxide	0.01	0.01
			Formaldehyde	0.02	0.04
			PM10	0.18	0.03
			Total HAPs	0.19	0.06
			PM	0.18	0.03
			VOCs	0.03	0.04
S293-E-06B	None	Quench Bath S293-S-06 B Plop Buggy S293-S-07 B	Acetaldehyde	0.01	0.01
			Carbon Monoxide	0.01	0.01
			Formaldehyde	0.02	0.04
			PM10	0.18	0.03
			Total HAPs	0.19	0.06
			PM	0.18	0.03
			VOCs	0.03	0.04
S293-E-06C	None	Quench Bath S293-S-06 C Plop Buggy S293-S-07 C	Acetaldehyde	0.01	0.01
			Carbon Monoxide	0.01	0.01
			Formaldehyde	0.02	0.04
			PM10	0.18	0.03
			Total HAPs	0.19	0.04
			PM	0.18	0.03
			VOCs	0.03	0.04
S293-E-06D	None	Quench Bath S293-S-06 D Plop Buggy S293-S-07 D	Acetaldehyde	0.01	0.01
			Carbon Monoxide	0.01	0.01
			Formaldehyde	0.02	0.04
			PM10	0.18	0.03
			Total HAPs	0.19	0.06
			PM	0.18	0.03
			VOCs	0.03	0.04
S293-E-049	S293-C-031	Area Dust hoods S293-S-038 & S293-S-078	PM	0.03	0.06
			Total HAPS ¹	0.01	0.01
S293-E-ANA	None	Virtual emission point to combine the acrylonitrile emissions from sources S293-S-02(x) Dies and S293-S-(x) Vacuum Ports	Acrylonitrile	0.02	0.01
S293-E-ANB	None		Acrylonitrile	0.02	0.01
S293-E-ANC	None		Acrylonitrile	0.02	0.01
S293-E-AND	None		Acrylonitrile	0.02	0.01

¹ The emissions of total HAPs identified in Table 4.1.1 of this permit may consist of any one, or a combination of the following pollutants: Formaldehyde (50-00-0), Acetaldehyde (75-07-0), Phenol (108-95-2), Benzene (71-43-2), Antimony Compounds, Acrolein (107-02-8), Acrylonitrile (107-13-1), and Aniline (62-53-3).

- Compliance with the above hourly particulate matter emission limits for S293-E-01A, S293-E-01B, S293-E-01C, S293-E-01D, S293-E-01E, S293-E-01F, S293-E-02A-D, S293-E-03A-D, S293-E-03F, S293-E-04A-D, S293-E-05A-D, S293-E-06A-D, and S293-E-049 shall demonstrate compliance with the less stringent 45CSR§7-4.1 hourly particulate emission limits. [45CSR§7-4.1]
- 4.1.2 Emissions, prior to the release to the atmosphere, from emission sources S293-S-01A-F shall be routed through control devices S293-C-01A-F respectively at all times the respective source(s) are in operation.
- 4.1.3 Emissions, prior to the release to the atmosphere, from emission sources S293-S-03A-D and S293-S-14A-D shall be routed through control devices S293-C-04A-D respectively at all times the respective source(s) are in operation.
- 4.1.4 Emissions, prior to the release to the atmosphere, from emission sources S293-S-02A-D (die) shall be routed through control devices S293-C-03A-D respectively at all times the respective source(s) are in operation. Control devices, referenced in 4.1.2, 4.1.3 and 4.1.4 shall be maintained and operated to perform to the specifications addressed in the permit application R13-1533C.
- 4.1.5 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 4.1.6. (S293-E-02A, S293-E-02B, S293-E-02C, S293-E-02D, S293-E-03A, S293-E-03B, S293-E-03C, S293-E-03D, S293-E-03F, S293-E-04A, S293-E-04B, S293-E-04C, S293-E-04D, S293-E-05A, S293-E-05B, S293-E-05C, S293-E-05D, S293-E-06A, S293-E-06B, S293-E-06C, S293-E-06D, and S293-E-049) [45CSR§7-3.1]
- 4.1.6 The provisions of Section 4.1.5 shall not apply to smoke and / or particulate matter emitted from any process source operation which is less the forty (40) percent opacity for any period or periods aggregating no more than five (5) minutes in any sixty (60) minute period. (S293-E-02A, S293-E-02B, S293-E-02C, S293-E-02D, S293-E-03A, S293-E-03B, S293-E-03C, S293-E-03D, S293-E-03F, S293-E-04A, S293-E-04B, S293-E-04C, S293-E-04D, S293-E-05A, S293-E-05B, S293-E-05C, S293-E-05D, S293-E-06A, S293-E-06B, S293-E-06C, S293-E-06D, and S293-E-049) [45CSR§7-3.2]
- 4.1.7 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 4.1.8 is required to have a full enclosure and be equipped with a particulate matter control device. (S293-E-01A, S293-E-01B, S293-E-01C, S293-E-01D, S293-E-01E, and S293-E-01F) [45CSR§7-3.7]
- 4.1.8 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]
- 4.1.9 The permittee shall maintain particulate matter control of the plant premises, and plant owned, leased or controlled access roads, by paving, application of asphalt, chemical dust suppressants or other suitable dust control measures. Good operating practices shall be implemented and when necessary particulate matter suppressants shall be applied in relation to stockpiling and general material handling to minimize particulate matter generation and atmospheric entrainment. [45CSR§7-5.2]
- 4.1.10 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 formaldehyde and acrylonitrile from each specific emission point in Section 4.1.1 to the maximum

hourly and annual limits set in Section 4.1.1. These requirements replace and supercede the formaldehyde limiting requirements pertaining to equipment covered by this permit found in Consent Order CO-R27-92-19. [45CSR27]

4.1.11. **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.]

4.1.12 The Permittee shall meet the following requirements for the operation of wet scrubbers S293-C-02B and S293-C-02D based on a sixty minute rolling average while material is being produced:
a) Minimum pressure drop across the venturi throat of 26 inches water.
b) Minimum liquor flow rate to the scrubbers of 20 gal/min.

4.2. Monitoring Requirements

4.2.1 For the purpose of determining compliance with the opacity limits set forth in Sections 4.1.5, 4.1.6, and 4.1.7 the permittee shall conduct visual emissions monitoring for all emission points and equipment subject to visual emissions or opacity limits under 45CSR7, including, but not limited to, the emission points addressed in Section 4.1.1.

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.

4.2.2. The Permittee shall continuously monitor the pressure drop across the venturi throat and liquor flow rates to Scrubbers S293-C-02B and S293-C-02D during periods of operation.

4.3. Testing Requirements

4.3.1. **Stack testing.** At such reasonable times as the Secretary may designate, the permittee may be required to conduct or have conducted stack tests to determine the particulate matter loading in exhaust gases when the Secretary has reason to believe that an emission limitation is being violated. For cause, the Secretary may request the permittee to install such stack gas monitoring devices as the Secretary deems necessary to determine continuing compliance. The data from such devices shall be readily available for review on-site or at such other reasonable location that the Secretary may specify. At the request of the Secretary, such data shall be made available for inspection or copying and the Secretary may require periodic submission of excess emission reports. [Compliance with this streamlined requirement assures compliance with 45CSR§7-8.1. and 45CSR§13-6.1.]

4.3.2. **Compliance testing.** Any such test to determine compliance with particulate matter limitations set forth in Section 4.1.1 shall be conducted in accordance with Method 5 of 40CFR60 Appendix

A, Method 201 or 201A of 40CFR§51, or other such appropriate method approved by the Secretary. All such compliance tests must consist of not less than three (3) test runs; any test run duration shall not be less than sixty (60) minutes and no less than thirty (30) standard cubic feet of exhaust gas must be sampled during each test run. Such tests shall be conducted under such reasonable operating conditions as the Secretary may specify. The Secretary, or a duly authorized representative, may option to witness or conduct such stack tests. Should the Secretary exercise this option to conduct such tests, the registrant shall provide all necessary sampling connections and sampling ports located in a manner as the Secretary may require, power for test equipment and required safety equipment in place such as scaffolding, railings and ladders in order to comply with generally accepted good safety practices.

[45CSR§7-8.1.]

- 4.3.3. 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.]

- 4.3.4. **Opacity testing.** Any test to determine compliance with the visible emission (opacity) limitations set forth in Sections 4.1.5, 4.1.6, and 4.1.7 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.

- 4.3.5. **Notification of compliance testing.** For any compliance test to be conducted by the permittee as set forth in Section 4.3, a test protocol shall be submitted to the Secretary at least thirty (30) calendar days prior to the scheduled date of the test. Such compliance test protocol shall be subject to approval by the Secretary. The permittee shall notify the Secretary at least fifteen (15) days in advance of actual test dates and times during which the test (or tests) will be conducted.

- 4.3.6. **Alternative test methods.** The Secretary may require a different test method or approve an alternative method in light of any technology advancements that may occur and may conduct or require such other tests as may be deemed necessary to evaluate air pollution emissions.

[45CSR§7-8.2]

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 4.1.1 the permittee shall maintain monthly and annual production records in a format similar to that in Appendix A - Attachments B and D. The records may be kept in an electronic format provided a legible copy may be produced upon request by the Director or their authorized representative.
- 4.4.5. To demonstrate compliance with the emission limits of 4.1.1 the permittee shall maintain monthly and annual records of emissions in a format similar to that in Appendix A - Attachments C and D. The records may be kept in an electronic format provided a legible copy may be produced upon request by the Director or their authorized representative.
- 4.4.6. The permittee shall maintain records of all monitoring data required by Section 4.2.1 documenting the date and time of each visible emission check, the emission point or equipment identification number, the name or means of identification of the responsible observer, the results of the check, and, if necessary, all corrective actions taken. Such records shall be equivalent to the example form supplied as Appendix A - Attachment A. Should a visible emission observation be required to be performed per the requirements specified in 45CSR7A, the data records of each observation shall be maintained per the requirements of 45CSR7A. For an emission unit out of service during the normal monthly evaluation, the record of observation may note "out of service" (OOS) or equivalent. Data records equivalent to Appendix A - Attachment A may be kept in electronic format provided a legible copy may be produced upon request by the Director or their authorized representative.

- 4.4.7. The permittee shall maintain and operate all air emissions control devices, listed in Section 4.1, in accordance with proper operational guidelines to minimize emissions. For the referenced air emissions control devices, the permittee shall keep accurate records of calibrations and maintenance activities, and of malfunctions and other operational shutdowns that result in excess emissions. The referenced control devices include all those identified in Sections 1.0 and 4.1. For each malfunction or operational shutdown of a control device that results in excess emissions, the information specified in 4.4.3 must be recorded, at a minimum. These records may be maintained electronically or in hard copy form, and shall be made available for review upon request of the Director or his duly authorized representative.
- 4.4.8. In the event that an applicable MACT [Maximum Achievable Control Technology] Standard requiring a Startup, Shutdown and Malfunction (SSM) Plan should be promulgated in the future, the SSM Plan would supercede the provisions of Section 4.4.3. Until that time, or until notice from the permittee in writing to the Director of plans to adopt the SSM Plan, the provisions of Section 4.4.3 will remain in force.
- 4.4.9. Records required by this permit shall be maintained in accordance with Condition 3.4.1 and shall be made available to the Director of the Division of Air Quality or his duly authorized representative upon request. At a time prior to submittal to the Director, all records shall be certified and signed by a "Responsible Official" utilizing the attached Certification of Data Accuracy statement. If these records are considered to contain confidential business information as identified in the permit application, then the records may be submitted according to the procedures set forth in 45CSR31 – "Confidential Information."

4.5. Reporting Requirements

- 4.5.1. *[Reserved]*

**Appendix A – Attachment A
Monthly Opacity Monitoring Record**

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

Stack/Vent ID	Stack/Vent Description	Date of Observation	Time of Observation	Name of Observer	Visible Plume? Yes/No	Near 20% Opacity? Yes/No	Fill these columns as needed if there is a visible plume observed.	
							Method 9 Compliance Status?	Comments
S293-E-01A	Silo A							
S293-E-01B	Silo B							
S293-E-01C	Silo C							
S293-E-01D	Silo D							
S293-E-01E	Silo E							
S293-E-01F	Silo F							
S293-E-02A	Extruder SA – Vacuum System Exhaust							
S293-E-02B	Extruder SB – Vacuum System Exhaust							
S293-E-02C	Extruder SC – Vacuum System Exhaust							
S293-E-02D	Extruder SD – Vacuum System Exhaust							
S293-E-03A	Extruder SA – Die/Pelletizer Exhaust							
S293-E-03B	Extruder SB – Die/Pelletizer Exhaust							
S293-E-03C	Extruder SC – Die/Pelletizer Exhaust							
S293-E-03D	Extruder SD – Die/Pelletizer Exhaust							
S293-E-04A	Extruder SA – Cooler/Screeners & Bins							
S293-E-04B	Extruder SB – Cooler/Screeners & Bins							
S293-E-04C	Extruder SC – Cooler/Screeners & Bins							
S293-E-04D	Extruder SD – Cooler/Screeners & Bins							
S293-E-05A	Extruder SA – Impact Separator							
S293-E-05B	Extruder SB – Impact Separator							
S293-E-05C	Extruder SC – Impact Separator							
S293-E-05D	Extruder SD – Impact Separator							
S293-E-049	Area Dust Hoods							
SCD	All PM emitting stacks							

Observer Name	Latest Certification Date	Certification Expiration Date	Current Date	Certification Current?

**Appendix A – Attachment B
Monthly Production Records**

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

Product	Extruder SA		Extruder SB		Extruder SC		Extruder SD		Total Production
	Max. ¹ PU/hr	PU/month							
A									
B									
C									
D									
E									
F									
G									
H1									
H2									
H3									
Max. ¹									
Totals									

¹ Note: The max. PU/hr values are the highest values for the month for each product.

**Appendix A – Attachment C
Monthly Emissions Records**

Month: _____

Equipment Description	Emission Point ID	PM		PM ₁₀		CO		VOC	
		Max. lb/hr	lb/month	Max. lb/hr	lb/month	Max. lb/hr	lb/month	Max. lb/hr	lb/month
Silo A	S293-E-01A								
Silo B	S293-E-01B								
Silo C	S293-E-01C								
Silo D	S293-E-01D								
Silo E	S393-E-01E								
Silo F	S293-E-01F								
Extruder SA – Vacuum System Exhaust	S293-E-02A								
Extruder SB – Vacuum System Exhaust	S293-E-02B								
Extruder SC – Vacuum System Exhaust	S293-E-02C								
Extruder SD – Vacuum System Exhaust	S293-E-02D								
Extruder SA – Die/Pelletizer Exhaust	S293-E-03A								
Extruder SB – Die/Pelletizer Exhaust	S293-E-03B								
Extruder SC – Die/Pelletizer Exhaust	S293-E-03C								
Extruder SD – Die/Pelletizer Exhaust	S293-E-03D								
Extruder SA – Cooler/Screeners & Bins	S293-E-04A								
Extruder SB – Cooler/Screeners & Bins	S293-E-04B								
Extruder SC – Cooler/Screeners & Bins	S293-E-04C								
Extruder SD – Cooler/Screeners & Bins	S293-E-04D								
Extruder SA – Impact Separator	S293-E-05A								
Extruder SB – Impact Separator	S293-E-05B								
Extruder SC – Impact Separator	S293-E-05C								
Extruder SD – Impact Separator	S293-E-05D								
Area Dust Hoods	S293-E-049								

Appendix A – Attachment C
 Monthly Emissions Records

Month: _____

Equipment Description	Emission Point ID	Acetaldehyde		Formaldehyde		Phenol		Benzene	
		Max. lb/hr	lb/month	Max. lb/hr	lb/month	Max. lb/hr	lb/month	Max. lb/hr	lb/month
Extruder SA – Vacuum System Exhaust	S293-E-02A								
Extruder SB – Vacuum System Exhaust	S293-E-02B								
Extruder SC – Vacuum System Exhaust	S293-E-02C								
Extruder SD – Vacuum System Exhaust	S293-E-02D								
Extruder SA – Die/Pelletizer Exhaust	S293-E-03A								
Extruder SB – Die/Pelletizer Exhaust	S293-E-03B								
Extruder SC – Die/Pelletizer Exhaust	S293-E-03C								
Extruder SD – Die/Pelletizer Exhaust	S293-E-03D								
Extruder SA – Cooler/Screen & Bins	S293-E-04A								
Extruder SB – Cooler/Screen & Bins	S293-E-04B								
Extruder SC – Cooler/Screen & Bins	S293-E-04C								
Extruder SD – Cooler/Screen & Bins	S293-E-04D								
Extruder SA – Impact Separator	S293-E-05A								
Extruder SB – Impact Separator	S293-E-05B								
Extruder SC – Impact Separator	S293-E-05C								
Extruder SD – Impact Separator	S293-E-05D								
Area Dust Hoods	S293-E-049								

Appendix A – Attachment D
 Annual Emissions and Production Records

Date: _____

Equipment Description	Emission Point ID	PM Emissions (lb)												12 Month Total (lb/yr)		
		MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY			
Silo A	S293-E-01A															
Silo B	S293-E-01B															
Silo C	S293-E-01C															
Silo D	S293-E-01D															
Silo E	S293-E-01E															
Silo F	S293-E-01F															
Extruder SA – Vacuum System Exhaust	S293-E-02A															
Extruder SB – Vacuum System Exhaust	S293-E-02B															
Extruder SC – Vacuum System Exhaust	S293-E-02C															
Extruder SD – Vacuum System Exhaust	S293-E-02D															
Extruder SA – Die/Pelletizer Exhaust	S293-E-03A															
Extruder SC – Die/Pelletizer Exhaust	S293-E-03C															
Extruder SD – Die/Pelletizer Exhaust	S293-E-03D															
Extruder SA – Cooler/Screening & Bins	S293-E-04A															
Extruder SB – Cooler/Screening & Bins	S293-E-04B															
Extruder SC – Cooler/Screening & Bins	S293-E-04C															
Extruder SD – Cooler/Screening & Bins	S293-E-04D															
Extruder SA – Impact Separator	S293-E-05A															
Extruder SB – Impact Separator	S293-E-05B															
Extruder SC – Impact Separator	S293-E-05C															
Extruder SD – Impact Separator	S293-E-05D															
Area Dust Hoods	S293-E-049															
Total PM Emissions																

Equipment Description	Emission Point ID	PM ₁₀ Emissions (lb)												12 Month Total (lb/yr)		
		MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY			
Extruder SA – Vacuum System Exhaust	S293-E-02A															
Extruder SB – Vacuum System Exhaust	S293-E-02B															
Extruder SC – Vacuum System Exhaust	S293-E-02C															
Extruder SD – Vacuum System Exhaust	S293-E-02D															
Extruder SA – Die/Pelletizer Exhaust	S293-E-03A															
Extruder SB – Die/Pelletizer Exhaust	S293-E-03B															
Extruder SC – Die/Pelletizer Exhaust	S293-E-03C															
Extruder SD – Die/Pelletizer Exhaust	S293-E-03D															
Total PM₁₀ Emissions																

Equipment Description	Emission Point ID	CO Emissions (lb)												12 Month Total (lb/yr)		
		MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY			
Extruder SA – Vacuum System Exhaust	S293-E-02A															
Extruder SB – Vacuum System Exhaust	S293-E-02B															
Extruder SC – Vacuum System Exhaust	S293-E-02C															
Extruder SD – Vacuum System Exhaust	S293-E-02D															
Extruder SA – Die/Pelletizer Exhaust	S293-E-03A															
Extruder SB – Die/Pelletizer Exhaust	S293-E-03B															
Extruder SC – Die/Pelletizer Exhaust	S293-E-03C															
Extruder SD – Die/Pelletizer Exhaust	S293-E-03D															
Total CO Emissions																

Appendix A – Attachment D
 Annual Emissions and Production Records

Date: _____

Equipment Description	Emission Point ID	VOC Emissions (lb)												12 Month Total (lb/yr)		
		MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY			
Extruder SA – Vacuum System Exhaust	S293-E-02A															
Extruder SB – Vacuum System Exhaust	S293-E-02B															
Extruder SC – Vacuum System Exhaust	S293-E-02C															
Extruder SD – Vacuum System Exhaust	S293-E-02D															
Extruder SA – Die/Pelletizer Exhaust	S293-E-03A															
Extruder SC – Die/Pelletizer Exhaust	S293-E-03C															
Extruder SD – Die/Pelletizer Exhaust	S293-E-03D															
Extruder SA – Cooler/Screen & Bins	S293-E-04A															
Extruder SB – Cooler/Screen & Bins	S293-E-04B															
Extruder SC – Cooler/Screen & Bins	S293-E-04C															
Extruder SD – Cooler/Screen & Bins	S293-E-04D															
Extruder SA – Impact Separator	S293-E-05A															
Extruder SB – Impact Separator	S293-E-05B															
Extruder SC – Impact Separator	S293-E-05C															
Extruder SD – Impact Separator	S293-E-05D															
Total VOC Emissions																

Equipment Description	Emission Point ID	Acetaldehyde Emissions (lb)												12 Month Total (lb/yr)		
		MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY			
Extruder SA – Vacuum System Exhaust	S293-E-02A															
Extruder SB – Vacuum System Exhaust	S293-E-02B															
Extruder SC – Vacuum System Exhaust	S293-E-02C															
Extruder SD – Vacuum System Exhaust	S293-E-02D															
Extruder SA – Die/Pelletizer Exhaust	S293-E-03A															
Extruder SB – Die/Pelletizer Exhaust	S293-E-03B															
Extruder SC – Die/Pelletizer Exhaust	S293-E-03C															
Extruder SD – Die/Pelletizer Exhaust	S293-E-03D															
Total Acetaldehyde Emissions																

Equipment Description	Emission Point ID	Formaldehyde Emissions (lb)												12 Month Total (lb/yr)		
		MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY			
Extruder SA – Vacuum System Exhaust	S293-E-02A															
Extruder SB – Vacuum System Exhaust	S293-E-02B															
Extruder SC – Vacuum System Exhaust	S293-E-02C															
Extruder SD – Vacuum System Exhaust	S293-E-02D															
Extruder SA – Die/Pelletizer Exhaust	S293-E-03A															
Extruder SB – Die/Pelletizer Exhaust	S293-E-03B															
Extruder SC – Die/Pelletizer Exhaust	S293-E-03C															
Extruder SD – Die/Pelletizer Exhaust	S293-E-03D															
Extruder SA – Cooler/Screen & Bins	S293-E-04A															
Extruder SB – Cooler/Screen & Bins	S293-E-04B															
Extruder SC – Cooler/Screen & Bins	S293-E-04C															
Extruder SD – Cooler/Screen & Bins	S293-E-04D															
Extruder SA – Impact Separator	S293-E-05A															
Extruder SB – Impact Separator	S293-E-05B															
Extruder SC – Impact Separator	S293-E-05C															
Extruder SD – Impact Separator	S293-E-05D															
Total Formaldehyde Emissions																

Appendix A – Attachment D
 Annual Emissions and Production Records

Date: _____

Equipment Description	Emission Point ID	Phenol Emissions (lb)												12 Month Total (lb/yr)		
		MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY			
Extruder SA – Vacuum System Exhaust	S293-E-02A															
Extruder SB – Vacuum System Exhaust	S293-E-02B															
Extruder SC – Vacuum System Exhaust	S293-E-02C															
Extruder SD – Vacuum System Exhaust	S293-E-02D															
Extruder SA – Die/Pelletizer Exhaust	S293-E-03A															
Extruder SB – Die/Pelletizer Exhaust	S293-E-03B															
Extruder SC – Die/Pelletizer Exhaust	S293-E-03C															
Extruder SD – Die/Pelletizer Exhaust	S293-E-03D															
Total Phenol Emissions																

Equipment Description	Emission Point ID	Benzene Emissions (lb)												12 Month Total (lb/yr)		
		MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY			
Extruder SA – Vacuum System Exhaust	S293-E-02A															
Extruder SB – Vacuum System Exhaust	S293-E-02B															
Extruder SC – Vacuum System Exhaust	S293-E-02C															
Extruder SD – Vacuum System Exhaust	S293-E-02D															
Total Benzene Emissions																

Equipment Description	Emission Point ID	Acrylonitrile Emissions (lb)												12 Month Total (lb/yr)		
		MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY			
Extruder SA – Vacuum System Exhaust	S293-E-02A															
Extruder SA – Die/Pelletizer Exhaust	S293-E-03A															
Extruder SB – Vacuum System Exhaust	S293-E-02B															
Extruder SB – Die/Pelletizer Exhaust	S293-E-03B															
Extruder SC – Vacuum System Exhaust	S293-E-02C															
Extruder SC – Die/Pelletizer Exhaust	S293-E-03C															
Extruder SD – Vacuum System Exhaust	S293-E-02D															
Extruder SD – Die/Pelletizer Exhaust	S293-E-03D															
Total Acrylonitrile Emissions																

Equipment Description	Emission Point ID	Acrylonitrile Emissions (lb)												12 Month Total (lb/yr)		
		MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY	MMM-YY			
Extruder SA – Vacuum System Exhaust	S293-F-02A															
Extruder SB – Vacuum System Exhaust	S293-E-02B															
Extruder SC – Vacuum System Exhaust	S293-E-02C															
Extruder SD – Vacuum System Exhaust	S293-E-02D															
Extruder SA – Die/Pelletizer Exhaust	S293-F-03A															
Extruder SB – Die/Pelletizer Exhaust	S293-E-03B															
Extruder SC – Die/Pelletizer Exhaust	S293-E-03C															
Extruder SD – Die/Pelletizer Exhaust	S293-F-03D															
Total Acrylonitrile Emissions																

Appendix A – Attachment D
 Annual Emissions and Production Records

Date: _____

Equipment Description	Emission Point ID	Anthracene Compound Emissions (lb)												12 Month Total (lb/yr)			
		MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY				
Area Dust Hoods																	

Equipment Description	Emission Point ID	Anthracene Emissions (lbs)												12 Month Total (lb/yr)			
		MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY				
Extruder SA – Vacuum System Exhaust	S293-E-02A																
Extruder SB – Vacuum System Exhaust	S293-E-02B																
Extruder SC – Vacuum System Exhaust	S293-E-02C																
Extruder SD – Vacuum System Exhaust	S293-E-02D																
Extruder SA – Die/Pelletizer Exhaust	S293-E-03A																
Extruder SB – Die/Pelletizer Exhaust	S293-E-03B																
Extruder SC – Die/Pelletizer Exhaust	S293-E-03C																
Extruder SD – Die/Pelletizer Exhaust	S293-E-03D																
Total Anthracene Emissions																	

Product	Production (Production Units - PU)												12 Month Total (lb/yr)				
	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY					
A																	
B																	
C																	
D																	
E																	
F																	
G																	
H																	
HI																	
H2																	
H3																	

CERTIFICATION OF DATA ACCURACY

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

Signature¹ _____
(please use blue ink)

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

Name & Title _____
(please print or type)

Name _____
(please print or type)

Title _____

Telephone No. _____

Fax No. _____

Date _____

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.