



Forsyth County

Office of Environmental Assistance and Protection

Minor Barnette, Director

January 10, 2020

Mr. Charles Watson
Tex-Tech Coatings, LLC.
215 Drummond St.
Kernersville, NC 27284

**SUBJECT: Administrative Amendment – Tex-Tech Coatings, LLC.
Title V Air Quality Operating Permit 00460-TV-20**

Dear Mr. Watson,

Due to changes in federal NESHAP under 40 CFR 63, Subpart OOOO, "*National Emission Standards for Hazardous Air Pollutants: Printing, Coating, and Dyeing of Fabrics and Other Textiles*" becoming effective on September 12, 2019, your operating permit 00460-TV-19 required opening by this Office for administrative review.

This Office made several major revisions to the permit, which have been completed. The revised permit enclosed with this letter has been issued under Air Quality Permit No. **00460-TV-20**. This permit becomes effective on **January 10, 2019**, with an unchanged expiration date of **May 1, 2023**. To renew this permit with no changes as written, you are required to notify this Office no later than **August 1st, 2022**.

This operating permit authorizes the operation, as outlined, of the emission source(s) and associated air pollution control device(s) specified therein. Additionally, any emissions activities determined as meeting the definition for insignificant activities contained in Sec. 3Q-0503 of the Forsyth County Air Quality Technical Code (FCAQTC) have been listed for informational purposes as "Appendix A".

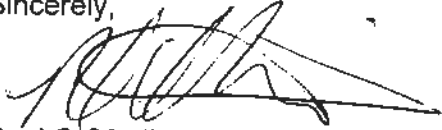
As the designated responsible official it is your responsibility to review, understand, and abide by all of the terms and conditions of the attached permit, especially those sections that may have undergone substantial revision, or are entirely new to the permit. It is also your responsibility to ensure that any person who operates any emission source and associated air pollution control device subject to any term or condition of the attached permit reviews, understands, and abides by the condition(s) of the attached permit that are applicable to that particular emission source. Operating permit fee invoices will be sent to you each year. After receiving the invoice, you have thirty days to remit the payment to this Office.

Please review the permit and contact me if you require or wish to discuss the permit conditions. Any formal appeal of this permit must be made within 30 days and in accordance with the requirements specified in Sec. 3A-0205 of the FCAQTC.



Request for corrections or administrative changes can be made at any time by contacting me directly by telephone at (336) 703-2435 or by e-mail at martinpc@forsyth.cc.

Sincerely,

A handwritten signature in black ink, appearing to read 'Paul C. Martin', with a long horizontal stroke extending to the right.

Paul C. Martin
Senior Environmental Specialist
Compliance Assistance & Permitting Division
(Enclosures)

c. File

County of Forsyth



OFFICE OF ENVIRONMENTAL ASSISTANCE AND PROTECTION

FORSYTH COUNTY GOVERNMENT CENTER
201 NORTH CHESTNUT STREET
WINSTON-SALEM, NC 27101-4120

PERMIT TO CONSTRUCT/OPERATE
AIR QUALITY CONTROL
CLASS: Title V

| PERMIT NUMBER | EFFECTIVE DATE | EXPIRATION DATE | RENEWAL DUE |
|---------------|------------------|-----------------|----------------|
| 00460-TV-20 | January 10, 2020 | May 1, 2023 | August 1, 2022 |

Facility Name: Tex-Tech Coatings, LLC

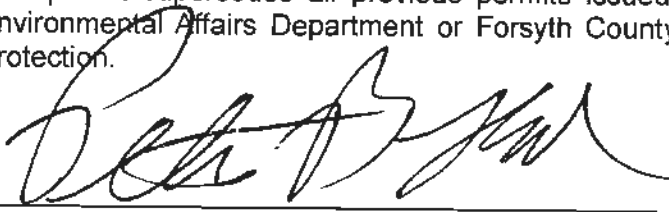
Mailing Address: 215 Drummond Street
City, State, ZIP Code: Kernersville, NC 27284

Facility Location: 215 Drummond Street
City: Kernersville, NC

In accordance with the provisions set forth in the Forsyth County Air Quality Technical Code and Chapter 3 of the Forsyth County Code, "Air Quality Control", the facility identified above is authorized to operate, as outlined in Part I, "Air Quality Title V Operation Permit", and to construct and operate, as outlined in Part II, "Air Quality Construction and Operation Permit", the emission source(s) and associated air pollution control device(s) specified herein, in accordance with the terms, conditions, and limitations contained within this permit.

The permittee shall not construct, operate, or modify any emission source(s) or air pollution control device(s) without having first submitted a complete air quality permit application to the Forsyth County Office of Environmental Assistance and Protection and received an Air Quality Permit, except as provided in this permit or in accordance with applicable provisions of the Forsyth County Air Quality Technical Code.

This permit supersedes all previous permits issued to the permittee by the Forsyth County Environmental Affairs Department or Forsyth County Office of Environmental Assistance and Protection.


Peter B. Lloyd, Ph.D., P.E., Manager
Compliance Assistance & Permitting Division

DATE:

1/10/2020

Tex-Tech Coatings, LLC
Air Quality Permit #00460-TV-20
January 10, 2020
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PART I AIR QUALITY TITLE V OPERATION PERMIT

SECTION 1 PERMITTED EQUIPMENT

1.1 Facility-Wide Permitted Equipment and Associated Control Devices

| Emission Source ID | Emission Source Description | | Control Device Description | | Control Device ID | Emission Point ID |
|--|---|--|---|--|-------------------|--|
| ES-21 | Kewanee H5-500-G natural gas-fired boiler maximum heat input rate of 20.923 mmBtu/hr. | | None | | N/A | EP-2.1-1 |
| ES-31 | Finishing Range #18 ^(a) with natural gas fired (NG-fired) curing section consisting of 16 x 0.5 mmbtu/hr burners (8 mmbtu/hr total). | | When SiO ₂ is <u>not</u> formed ^(b) | EnviroCare Venturi Scrubber | CD-123 | EP-12.3-1 |
| | | | None | | N/A | EP-3.1-1 EP-3.1-2 EP-3.1-3 EP-3.1-4 EP-3.1-5 |
| | | | When SiO ₂ is formed ^(b) | EnviroCare Venturi Scrubber | CD-123 | EP-12.3-1 |
| ES-33 | Finishing Range #3 with natural gas-fired oven (8 mmBtu/hr max heat input rate). ES-33 must be ducted to CD-51 | | Solvent Recovery Unit (while processing coatings that are not <i>waterborne coatings</i> ^(c) with VOC content not exceeding 9% by weight of the volatile fraction) | | CD-51 | EP-5.1-1 |
| | | | None | | N/A | EP-3.3-1 |
| ES-34 Finishing Range #4 Dryer: NG-fired, 4 mmBtu/hr max heat input rate Curing: NG-fired, 3 mmBtu/hr max heat input rate | When applying coatings such that NSPS Subpart VVW does apply* to the finishing range ^(d) . | Enclosure Section, Dyer Section, Curing Section, and Cooling Section | | Solvent Recovery Unit; or Cor-Pak Thermal Oxidizer NG-fired with 8 mmBtu/hr max heat input rate (when applying Phenolic Resin Coatings or Melamine Resin Coatings). | CD-51 | EP-5.1-1 |
| | | Enclosure Section | | None | N/A | EP-3.4-1 |
| | When applying coatings such that NSPS Subpart VVW does <u>not</u> apply to the finishing range ^(d) | Dryer Section | When SiO ₂ is <u>not</u> formed ^(b) | EnviroCare Venturi Scrubber | CD-123 | EP-12.3-1 |
| | | | None | | N/A | EP-3.4-3 |
| | | | When SiO ₂ is formed ^(b) | EnviroCare Venturi Scrubber | CD-123 | EP-12.3-1 |
| | | Curing Section | | None | N/A | EP-3.4-4 |
| Cooling Section | | None | N/A | EP-3.4-6 | | |

| Emission Source ID | Emission Source Description | | Control Device Description | Control Device ID | Emission Point ID | |
|---|---|---|---|-----------------------------|-------------------|-----------|
| ES-35 Finishing Range #5 Coater Section: NG fired, 9 mmBtu/hr max heat input rate Heatset Section: NG fired, 13.5 mmBtu/hr max heat input rate | | Coater Section | When SiO ₂ is <u>not</u> formed ^(b) | EnviroCare Venturi Scrubber | CD-123 | EP-12.3-1 |
| | | | When SiO ₂ is formed ^(b) | None | N/A | EP-3.5-1 |
| | | Heatset Section | None | N/A | EP-3.5-2 | |
| ES-36 | Finishing Range #6 (NSPS Subpart VVV) | | Solvent Recovery Unit; or | CD-51 | EP-5.1-1 | |
| | | | Cor-Pak Thermal Oxidizer NG-fired with 8 mmBtu/hr max heat input rate | CD-42 | EP-4.2-2 | |
| ES-38 | #9 Laminator & tote storage | | None | N/A | EP-3.8-1 | |
| ES-61 | Solvated Rubber Mixing and Storage (NSPS, Subpart VVV) | | Solvent Recovery Unit (as required in conditions 3.3(A)(1)(f)(i) & (iii)) | CD-51 | EP-5.1-1 | |
| | | | None | N/A | EP-6.1-1 | |
| ES-62 | Aqueous Coating Mixing and Storage ^(c) | | None | N/A | EP-6.2-1 | |
| | | | | | EP-6.2-2 | |
| | | | | | EP-6.2-3 | |
| ES-81 | Two Toluene Storage Tanks | One 8,000 gal Virgin Toluene Storage Tank | Solvent Recovery Unit | CD-51 | EP-5.1-1 | |
| | | One 10,000 gal Reclaim Toluene Storage Tank | | | | |
| ES-82 | Two Latex Storage Tanks: each 20,000 gallons | UST A: Vinyl Pyridine Latex | None | N/A | EP-8.2-1 | |
| | | UST B: Styrene Butadiene Rubber Latex | None | N/A | EP-8.2-2 | |
| ES-83 | Tote Storage | | None | N/A | EP-8.3-1 | |
| ES-90 | Groundwater Stripper, subject to 40 CFR 63, Subpart GGGGG | | Solvent Recovery Unit | CD-51 | EP-5.1-1 | |
| ES-91 | Groundwater/Soil Air Sparger, subject to 40 CFR 63, Subpart GGGGG | | None | N/A | EP-9.1-1 | |
| | | | | | EP-9.1-2 | |
| <p>(a) Formerly designated "#1 Finishing Range", with total burner heat input of 12mmbtu/hr. Burner replacement in 2013 resulted in a total heat input reduction of 4 mmbtu/hr.</p> <p>(b) Some silicone-based coatings form silicone dioxide (SiO₂) particulate as the coating dries or cures.</p> <p>(c) "Waterborne coating" is any coating which contains more than 5 weight percent water in its volatile fraction, as defined in 40 CFR Part 60, Subpart VVV (§60.741(a)).</p> <p>(d) 40 CFR 60, Subpart VVV does <u>not</u> apply to the finishing range during times when it is used to apply waterborne coatings, so long as the VOC content of the coating does not exceed 9 percent by weight of the volatile fraction (§60.740(d)(2)).</p> | | | | | | |

1.2 Operating Conditions Not Covered Under the Permit Shield

The following specific conditions have been revised or added to this permit following procedures other than the Significant Modification procedures in Section 3Q-0500 of the Forsyth County Air Quality Control Ordinance and Technical Code (FCAQTC). As required under Sec. 3Q-0512 Permit Shield and Application Shield, a permit shield is not provided for these new or revised permit requirements. During the next Significant Modification as defined in Sec. 3Q-0516 or renewal of this permit, the Title V permit applications for the new and revised permit requirements listed below will also be processed according to the Significant Modification procedures and the a permit shield will be extended at that time.

| Emission Source ID: | Emission Source Description: | Unshielded Operating Condition(s): | Effective Date: |
|--|--|------------------------------------|-----------------|
| ES-31, ES-33, ES-34, ES-35, ES-36, ES-37, ES-38, ES-61, ES-62, ES-81 | 40 CFR, Subpart OOOO Affected Sources | 3.7(C)(F)(1)(b)(v) 3.7(C)(8) | Draft |
| ES-34, ES-36 | 40 CFR, Subpart OOOO Affected Sources controlled using thermal oxidation | 3.7(C)(9) | Draft |

SECTION 2 FACILITY GENERAL ADMINISTRATIVE CONDITIONS

2.1 General Provisions [Sections 3-0100, 3-0200, and Sec. 3Q-0508(i)(16)]

- A. Terms not otherwise defined in this permit shall have the meaning assigned to such terms as defined in Subchapters 3D and 3Q of the Forsyth County Air Quality Technical Code (FCAQTC).
- B. The terms, conditions, requirements, limitations and restrictions set forth in this permit are binding and enforceable pursuant to Sections 3-0100, 3-0200 of the Forsyth County Air Quality Ordinance (FCAQO), including assessment of civil and/or criminal penalties. This permit is valid only for the specific processes and operations applied for and indicated in the air quality permit application. Any unauthorized deviation from the conditions of this permit may constitute grounds for revocation and enforcement action by this Office.
- C. This permit is not a waiver of or approval of any other permits that may be required for other aspects of the facility which are not addressed in this permit.
- D. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted facility, or from penalties therefore. This permit does not allow the permittee to cause pollution in contravention of local laws or rules, unless specifically authorized by an order from the Director, or to cause pollution in contravention of state laws or rules.
- E. Terms and conditions contained herein shall be enforceable by this Office, the U.S. EPA and citizens of the United States as defined in the federal Clean Air Act, except those identified as **Locally Enforceable Only** requirements which are enforceable by this Office.
- F. Any stationary installation which will reasonably be expected to be a source of pollution shall not be operated, maintained or modified without the appropriate and valid permits issued by this Office, unless the source is exempted by Sec.. This Office may issue a permit only after it receives reasonable assurance that the installation will not cause pollution in violation of any of the applicable requirements.
- G. In addition to the authority found in Sec. 3D-0501 and 3Q-0508(i)(16), any deviation from the monitoring provisions of this permit may result in a request by this Office to submit data on rates of emissions in order to demonstrate compliance with any applicable regulation.

2.2 Permit Availability [Sec. 3Q-0507(k), 0508(i)(16), .508(i)(9), and 0110]

The permittee shall have available at the facility a copy of this permit and shall retain for the duration of the permit term one complete copy of the application and any information submitted in support of the application package. The permit and application shall be made available to an authorized representative of this Office or the U.S. EPA upon request.

2.3 Submissions [Sec. 3Q-0507(c), 0508(i)(16), and 0104]

All documents, reports, test data, monitoring data, notifications, request for renewal, and any other information required to be sent to this Office by this permit shall be submitted to:

**Office of Environmental Assistance and Protection,
Forsyth County Government Center,
201 N. Chestnut Street, Winston-Salem, NC 27101-4120.**

2.4 Severability Clause [Sec. 3Q-0508(i)(2)]

The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this permit to any specific circumstance, is challenged, the application of the provision in question to other circumstances, as well as the remainder of this permit's provisions, shall not be affected.

2.5 Duty to Comply [Sec. 3Q-0508(i)(3)]

The permittee shall comply with all terms, conditions, requirements, limitations and restrictions set forth in this permit. Noncompliance with any permit condition is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

2.6 Need to Halt or Reduce Activity Not a Defense [Sec. 3Q-0508(i)(4)]

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

2.7 Permit Shield [Sec. 3Q-0512(a)]

- A. Compliance with the terms and conditions of this permit shall be deemed compliance with applicable requirements, where such applicable requirements are included and specifically identified in the permit as of the date of permit issuance.
- B. A permit shield shall not alter or affect:
 - 1. the power of the Forsyth County Board of Commissioners, Director, or Governor under NCGS 143-215.3(a)(12) or the U.S. EPA under Section 303 of the federal Clean Air Act;
 - 2. the liability of an owner or operator of a facility for any violation of applicable requirements prior to the effective date of the permit or at the time of permit issuance;
 - 3. the applicable requirements under Title IV of the Clean Air Act; or
 - 4. the ability of the Director or the U.S. EPA under Section 114 of the federal Clean Air Act to obtain information to determine compliance of the facility with its permit.
- C. A permit shield shall not apply to any change made at a facility that does not require a permit or to any permit revision made under Sec. 3Q-0523.
- D. A permit shield shall not extend to minor permit modifications made under Sec. 3Q-0515.

2.8 Circumvention [Sec. 3D-0502 and 3Q-0508(i)(16)]

No person shall circumvent any permitted air pollution control device, or allow the emissions of regulated air pollutants without the applicable air pollution control device operating properly. Unless otherwise specified by this permit, no permitted emission source may be operated without the concurrent operation of its associated air pollution control device(s) and appurtenances.

2.9 Good Air Pollution Control Practice [Sec. 3D-0502 and 3Q-0508(i)(16)]

At all times, the equipment listed in *Section 1* shall be operated and maintained in a manner consistent with the design and emissions control as applied for in the application.

2.10 Reporting Requirements for Excess Emissions and Permit Deviations [Sec. 3D-0535(f) and 3Q-0508(f)(2), 3Q-0508(i)(16) and 3Q-0508(g)]

“Excess Emissions” - means an emission rate that exceeds any applicable emission limitation or standard allowed by any Sec. in Sections 3D-0500, 0900, 1200 or 1400; or by a permit condition; or that exceeds a **Locally Enforceable Only** emission limit established in a permit issued under Section 3Q-0700. *(Note: This definition applies where the NSPS does not further define excess emissions for an affected NSPS emissions source.)*

“Deviation” - means any action or condition not in accordance with the terms and conditions of this permit including those attributable to upset conditions.

A. Sources subject to Sec. 3D-0524, .1110 or .1111 Excess Emissions and Permit Deviations

1. If the source specific NSPS (3D-0524) or NESHAP (3D .1110 or .1111) defines “excess emissions”, these shall be reported as prescribed in 3D .0524, .1110 or .1111.
2. If the source specific NSPS (3D-0524) or NESHAP (3D .1110 or .1111) does NOT define “excess emissions”, the permittee shall report excess emissions as deviations from permit requirements as prescribed in Condition 3, below.
3. In addition to any specific NSPS or NESHAP reporting requirements the permittee shall upon becoming aware:
 - a. report to this Office any deviations from permit requirements by the next business day, unless an alternative reporting schedule is specifically provided in the permit, and
 - b. report in writing to this Office all deviations from permit requirements or any excess emissions within two business days, unless an alternative reporting schedule is specifically provided in the permit. The written report shall include the probable cause of such deviations and any corrective actions or preventative actions taken. Reports of all deviations from permit requirements shall be certified by a responsible official.

B. Sources NOT subject to Sec. 3D-0524, 1110, or 1111

1. Excess Emissions Greater than Four Hours in Duration [3D-0535(f)] - The permittee shall report excess emissions greater than four hours in duration as prescribed in Sec. 3D-0535(f) including, but not limited to the following:
 - a. Notify this Office of any such occurrence by 9:00 a.m. Eastern time of this Office's next business day of becoming aware of the occurrence as described in Sec. 3D-0535(f)(1);
 - b. Notify this Office immediately when corrective measures have been accomplished; and
 - c. Submit, if requested, to this Office within 15 days after the request, a written report as described in Sec. 3D-0535(f)(3).
2. Excess Emissions Less than Four Hours in Duration and Deviations [3Q-0508(f)] - The permittee shall report excess emissions less than four hours in duration and deviations from permit requirements as follows:

- a. Report to this Office any excess emissions less than four hours in duration and any deviations from permit requirements quarterly, unless an alternative reporting schedule is specifically provided in the permit; and
 - b. Report in writing to this Office any excess emission less than four hours in duration or any deviations from permit requirements quarterly, unless an alternative reporting schedule is specifically provided in the permit. The written report shall include the probable cause of such excess emissions and deviations and any corrective actions or preventative actions taken. All reports of excess emissions and deviations from permit requirements shall be certified by a responsible official.
- C. Other Requirements under Sec. 3D-0535 (Sec. 3D-0535(g) is **Locally Enforceable Only**) - The permittee shall comply with all other requirements contained in Sec. 3D-0535.

2.11 **Emergency Provisions** <40 CFR 70.6(g)> - The permittee shall be subject to the following provision with regard to emergencies:

- A. An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the facility, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the facility 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 preventive maintenance, careless or improper operation, or operator error.
- B. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions specified in Condition C below are met.
- C. The affirmative defense of emergency shall be demonstrated through properly signed contemporaneous operating logs, or other relevant evidence that include information as follows:
 - 1. an emergency occurred and that the permittee can identify the cause(s) of the emergency;
 - 2. the permitted facility was at the time being properly operated;
 - 3. during the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the standards, or other requirements in the permit; and
 - 4. the permittee submitted notice of the emergency to this Office within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, and steps taken to mitigate emissions, and corrective actions taken.
- D. In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.
- E. This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein.

2.12 **Permit Fees** [Sec. 3Q-0206(b), 0508(i)(10)), and 0519(a)(4)]

If, within 30 days after being billed, the permittee fails to pay an annual permit fee required under Subchapter 3Q-0200 of the FCAQTC, the Director may initiate action to terminate this permit under Sec. 3Q-0519 of the FCAQTC.

2.13 Annual Emission Inventory Requirements [Sec. 3Q-0207]

The permittee shall report to the Director by June 30th of each year the actual emissions of each air pollutant listed in Sec. 3Q-0207(a) from each emission source within the facility during the previous calendar year. The report shall be in or on such form(s) as may be established by the Director. The accuracy of the report shall be certified by a responsible official of the facility.

2.14 Compliance Certification <40 CFR 70.6(c)> [Sec. 3Q-0508(n) and .0508((i)(16))]

By March 1st unless another date is established by the Director, the permittee shall submit to this Office and the U.S. EPA (**U.S. EPA Region 4, Air Enforcement Section, Mail Code: 4APT-AEEB, 61 Forsyth Street, S.W., Atlanta, GA 30303**) a compliance certification by a responsible official with all terms and conditions in the permit, including emissions limitations, standards, or work practices. The compliance certification shall comply with additional requirements as may be specified under Sections 114(a)(3) or 504(b) of the federal Clean Air Act. The compliance certification shall include all of the following (provided that the identification of applicable information may cross-reference the permit or previous reports as applicable):

- A. the identification of each term or condition of the permit that is the basis of the certification;
- B. the status of compliance with the terms and conditions of the permit for the period covered by the certification, based on the methods or means designated in 40 CFR 70.6(c)(5)(iii)(B). The certification shall identify each deviation and take it into account in the compliance certification. The certification shall also identify as possible exceptions to compliance any periods during which compliance is required and in which an excursion or exceedance as defined under 40 CFR 64 occurred;
- C. whether compliance was continuous or intermittent;
- D. the identification of the method(s) or other means used by the owner and operator for determining the compliance status with each term and condition during the certification period; these methods shall include the methods and means required under 40 CFR Part 70.6(a)(3); and
- E. such other facts as the Director may require to determine the compliance status of the source.

2.15 Retention of Records [Sec. 3Q-0508(f)]

The permittee shall retain records of all required monitoring data and supporting information for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Supporting information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring information, and copies of all reports required by the permit.

2.16 NESHAP - Recordkeeping Requirement for Applicability Determinations <40 CFR 63.10(b)(3)> [Sec. 3D-1111]

If the permittee determines that his or her stationary source that emits (or has the potential to emit, without considering controls) one or more hazardous air pollutants is not subject to a relevant standard or other requirement established under 40 CFR Part 63, the

permittee shall keep a record of the applicability determination on site at the source for a period of 5 years after the determination, or until the source changes its operations to become an affected source. This record shall include all of the information required under 40 CFR 63.10(b)(3).

2.17 Duty to Provide Information [Sec. 3Q-0508(i)(9)]

- A. The permittee shall furnish to this Office, in a timely manner, any reasonable information that the Director may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit.
- B. The permittee shall furnish this Office copies of records required to be kept by the permit when such copies are requested by the Director.

2.18 Duty to Supplement or Correct Application [Sec. 3Q-0507(f)]

The permittee, upon becoming aware that any relevant facts were omitted from the application or that incorrect information was submitted with the application, shall promptly submit such supplementary facts or corrected information to this Office. The permittee shall also provide additional information necessary to address any requirements that become applicable to the source after the date a complete application was submitted but prior to release of the draft permit.

2.19 Certification by Responsible Official [Sec. 3Q-0520]

A responsible official (as defined in 40 CFR 70.2) shall certify the truth, accuracy, and completeness of any application form, report, or compliance certification required by this permit. All certifications shall state that, based on information and belief formed after reasonable inquiry, the statement and information in the document are true, accurate, and complete.

2.20 Inspection and Entry [Sec. 3Q-0508(l)]

- A. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized representatives of this Office to perform the following:
 1. enter upon the permittee's premises where the permitted facility is located or emissions-related activity is conducted, or where records are kept under the conditions of the permit;
 2. have access to and copy, at reasonable times, any records that must be kept under conditions of the permit;
 3. inspect, at reasonable times and using reasonable safety practices any source, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
 4. sample or monitor substances or parameters, at reasonable times and using reasonable safety practices, for the purpose of assuring compliance with the permit or applicable requirements.

Nothing in this condition shall limit the ability of the U.S. EPA to inspect or enter the premises of the permittee under Section 114 or other provisions of the Clean Air Act.

- B. No person shall obstruct, hamper or interfere with any such authorized representative while in the process of carrying out his official duties.

2.21 Averaging Times <40 CFR 70.6(a)(3)> [Sec. 3Q-0508(f)]

Unless otherwise specified in *Section 3* of this permit for a specific emission standard or limitation, the applicable averaging period for determining compliance with an emission standard or limitation during compliance testing shall be based on the applicable U.S. EPA reference test method.

2.22 Compliance Testing [Sec. 3D-2602(e)]

When requested by this Office for determining compliance with emission control standards, the permittee shall provide sampling ports, pipes, lines, or appurtenances for the collection of samples and data required by the test procedure; scaffolding and safe access to the sample and data collection locations; and light, electricity, and other utilities required for sample and data collection.

2.23 General Emissions Testing and Reporting Requirements [Sec. 3D-2602 and Sec. 3Q-0508(i)(16)]

Testing shall be conducted in accordance with FCAQTC Section 3D-2600 except as may be otherwise required in FCAQTC Sec. 3D-0524, 3D-0912, 3D-1110, 3D-1111, 3D-1415 or a permit condition specific to the emissions source. Requests to use an alternative test method or procedure must be made in writing at least 45 days prior to the test and approved by this Office. Alternatives to test methods or procedures specified for emissions sources subject to test requirements under 40 CFR 60, 40 CFR 61 or 40 CFR 63, may require approval by the U.S. EPA. When required to conduct emissions testing under the terms of the permit:

- A. The permittee shall arrange for air emission testing protocols to be provided to the Director prior to air pollution testing. Testing protocols are not required to be pre-approved prior to air pollution testing. Emission testing protocols must be submitted at least 45 days before conducting the test for pre-approval prior to testing if requested by the permittee.
- B. The permittee shall notify this Office of the specific test dates at least 15 days prior to the scheduled test date in order to afford this Office the opportunity to have an observer on-site during the sampling program.
- C. During all sampling periods, the permittee shall operate the emission source(s) under operating conditions that best fulfill the purpose of the test and are approved by the Director or his delegate.
- D. The permittee shall submit one copy of the test report to this Office not later than 30 days after sample collection. The permittee may request an extension to submit the final test report if the extension request is a result of actions beyond the control of the permittee. The test report shall contain at a minimum the following information:
 1. a certification of the test results by sampling team leader and facility representative;
 2. a summary of emissions results expressed in the same units as the emission limits given in the Sec. for which compliance is being determined and text detailing the objectives of the testing program, the applicable state and federal regulations, and conclusions about the testing and compliance status of the emission source(s) as appropriate;

3. a detailed description of the tested emission source(s) and sampling location(s) process flow diagrams, engineering drawings, and sampling location schematics as necessary;
 4. all field, analytical and calibration data necessary to verify that the testing was performed as specified in the applicable test methods;
 5. example calculations for at least one test run using equations in the applicable test methods and all test results including intermediate parameter calculations; and
 6. documentation of facility operating conditions during all testing periods and an explanation relating these operating conditions to maximum normal operation. If necessary, provide historical process data to verify maximum normal operation.
- E. This Office will review emission test results with respect to the specified testing objectives as proposed by the permittee and approved by this Office.

2.24 Termination, Modification, and Revocation of the Permit [Sec. 3Q-0519]

The Director may terminate, modify, or revoke and reissue this permit if:

- A. the information contained in the application or presented in support thereof is determined to be incorrect;
- B. the conditions under which the permit or permit renewal was granted have changed;
- C. violations of conditions contained in the permit have occurred;
- D. the permit holder fails to pay fees required under Section 3Q-0200 within 30 days after being billed;
- E. the permittee refuses to allow the Director or his authorized representative upon presentation of credentials:
 1. to enter, at reasonable times and using reasonable safety practices, the permittee's premises in which a source of emissions is located or in which any records are required to be kept under terms and conditions of the permit;
 2. to have access, at reasonable times, to any copy or records required to be kept under terms and conditions of the permit;
 3. to inspect, at reasonable times and using reasonable safety practices, any source of emissions, control equipment, and any monitoring equipment or method required in the permit; or
 4. to sample, at reasonable times and using reasonable safety practices, any emission sources at the facility;
- F. the U.S. EPA requests that the permit be revoked under 40 CFR 70.7(g) or 70.8(d); or
- G. the Director finds that termination, modification, or revocation and reissuance of the permit is necessary to carry out the purpose of Chapter 3 of the Forsyth County Code.

2.25 Permit Reopenings, Modifications, Revocations and Reissuances, or Terminations [Sec. 3Q-0508(i)(5)]

The Director may reopen, modify, revoke and reissue, or terminate this permit for reasons specified in Sec. 3Q-0517 or .0519. The filing of a request by the permittee for a permit revision, revocation and reissuance, or termination, notification of planned changes, or anticipated noncompliance does not stay any permit condition in this permit.

2.26 Permit Renewal [Sec. 3Q-0508(e) and Sec. 3Q-0513]

This permit is issued for a term not to exceed **five (5) years**. Permits issued under Title IV of the Clean Air Act shall be issued for a fixed period of five years. This permit shall expire

at the end of its term. Permit expiration terminates the facility's right to operate unless a complete renewal application is submitted at least nine months before the date of permit expiration. If the permittee or applicant has complied with Sec. 3Q-0512(b)(1), this permit shall not expire until the renewal permit has been issued or denied. All terms and conditions of this permit shall remain in effect until the renewal permit has been issued or denied.

2.27 Reopening for Cause [Sec. 3Q-0517 and 3Q-0508(g)]

This permit shall be reopened and revised in accordance with Sec. 3Q-0517 prior to its expiration date, for any of the following reasons:

- A. Additional applicable requirements become applicable to the facility with remaining permit term of three or more years.
- B. Additional requirements, including excess emissions requirements, become applicable to this source under Title IV of the Clean Air Act. Excess emissions offset plans for this source shall become part of this permit upon approval by the U.S. EPA.
- C. The Director or the U.S. EPA finds that a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.
- D. The Director or the U.S. EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

2.28 Construction and Operation Permits [Sections 3Q-0100 and 3Q-0300]

A construction and operating permit shall be obtained by the permittee for any proposed new or modified facility or emission source which is not exempted from having a permit prior to the beginning of construction or modification, in accordance with all applicable provisions of Sections 3Q-0100 and 3Q-0300.

2.29 Permit Modifications [Sec. 3Q-0514, 0515, 0516, 0517, 0523, and 0524]

- A. Permit modifications may be subject to the requirements of Sec. 3Q-0514, 0515, 0516, and 0524.
- B. Changes made pursuant to Sec. 3Q-0523(a) and (b) do not require a permit modification.
- C. The permittee shall submit an application for reopening for cause in accordance with Sec. 3Q-0517 if notified by this Office.
- D. To the extent that emissions trading is allowed under FCAQTC Subchapter 3D, including subsequently adopted maximum achievable control technology standards, emissions trading shall be allowed without permit revision pursuant to Sec. 3Q-0523(c).

2.30 Insignificant Activities [Sec. 3Q-0503 and .0508(i)(15)]

Because an emission source or activity is insignificant does not mean that the emission source or activity is exempted from any applicable requirement or that the owner or operator of the source is exempted from demonstrating compliance with any applicable requirement. The permittee shall have available at the facility at all times and made available to an authorized representative of this Office upon request, documentation, including calculations if necessary, to demonstrate that an emission source or activity is insignificant.

2.31 Standard Application Form and Required Information [Sec. 3Q-0505 and 3Q-0507]

The permittee shall submit applications and required information in accordance with the provision of Sec. 3Q-0505 and 3Q-0507.

2.32 Property Rights [Sec. 3Q-0508(i)(8)]

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

2.33 Refrigerant Requirements (Stratospheric Ozone and Climate Protection) [Sec. 3Q-0508(b)]

- A. If the permittee has appliances or refrigeration equipment, including air conditioning equipment, which use Class I or II ozone-depleting substances such as chlorofluorocarbons and hydrochlorofluorocarbons listed as refrigerants in 40 CFR 82 Subpart A, Appendices A and B, the permittee shall service, repair, and maintain such equipment according to the work practices and personnel certification requirements, and the permittee shall use certified recycling and recovery equipment specified in 40 CFR 82 Subpart F.
- B. The permittee shall not knowingly vent or otherwise release any Class I or II substance into the environment during the repair, servicing, maintenance, or disposal of any such device except as provided in 40 CFR 82 Subpart F.
- C. The permittee shall comply with all reporting and recordkeeping requirements of 40 CFR 82.166. Reports shall be submitted to the U.S. EPA or its designee as required.

2.34 Prevention of Accidental Releases - Section 112(r) [Sec. 3Q-0508(h)]

If the permittee is required to develop and register a risk management plan pursuant to Section 112(r) of the federal Clean Air Act, then the permittee is required to register this plan in accordance with 40 CFR Part 68.

2.35 Title IV Allowances [Sec. 3Q-0508(i)(1)]

The facility's emissions are prohibited from exceeding any allowances that the facility lawfully holds under Title IV of the Clean Air Act. This permit shall not limit the number of allowances held by the permittee, but the permittee may not use allowances as a defense to noncompliance with any other applicable requirement.

2.36 Air Pollution Alert, Warning or Emergency [Section 3D-0300]

Should the Director of this Office declare an Air Pollution Alert, Warning or Emergency, the permittee will be required to operate in accordance with the permittee's previously approved Emission Reduction Plan or, in the absence of an approved plan, with the appropriate requirements specified in Section 3D-0300.

2.37 Registration of Air Pollution Sources [Sec. 3D-0202]

The Director of this Office may require the permittee to register a source of air pollution. If the permittee is required to register a source of air pollution, this registration and required information shall be in accordance with Sec. 3D-0202(b).

2.38 **Ambient Air Quality Standards** [Sec. 3D-0501(e)]

In addition to any control or manner of operation necessary to meet emission standards specified in this permit, any source of air pollution shall be operated with such control or in such manner that the source shall not cause the ambient air quality standards in Section 3D-0400 to be exceeded at any point beyond the premises on which the source is located. When controls more stringent than named in the applicable emission standards in this permit are required to prevent violation of the ambient air quality standards or are required to create an offset, the permit shall contain a condition requiring these controls.

2.39 **Odor** [Sec. 3D-0522] *Locally Enforceable Only*

The permittee shall not cause or permit the emission of odors beyond the facility's property lines which are harmful, irritating or which unreasonably interfere with the use and enjoyment of any person's properties or living conditions, or any public properties or facilities. Such odors are prohibited by Sec. 3D-0522. No violation shall be cited, provided that the best practical treatment, maintenance, and control of odor(s) currently available is used. This requirement does not apply to normal agricultural practices, nor to accidental emissions of odors which are not normally produced during routine operations and activities as determined by the Director.

2.40 **Fugitive Dust Control Requirement** [Sec. 3D-0540]

The permittee shall not cause or allow fugitive dust emissions to cause or contribute to substantive complaints or excess visible emissions beyond the property boundary. If substantive complaints or excessive fugitive dust emissions from the facility are observed beyond the property boundaries for six minutes in any one hour (using Reference Method 22 in 40 CFR 60, Appendix A), the owner or operator may be required to submit and implement a fugitive dust control plan as described in 3D-0540(f).

New Source Performance Standards (NSPS) General Conditions - [Sec. 3D-0524]

Following are conditions found in the 40 CFR Part 60 NSPS General Provisions. The following conditions only apply to sources subject to a relevant standard of a subpart of 40 CFR Part 60 except when otherwise specified in a particular subpart or in a relevant standard.

2.41 **NSPS - General Provisions** <40 CFR 60 Subpart A> [Sec. 3D-0524]

The permittee shall comply with all applicable requirements specified in the general provisions of the New Source Performance Standards (40 CFR 60 Subpart A) including but not limited to requirements concerning notifications, testing, monitoring, recordkeeping, modifications and reconstruction.

2.42 **NSPS - Good Air Pollution Control Practice** <40 CFR 60.11(d)> [Sec. 3D-0524]

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions.

2.43 NSPS - Circumvention <40 CFR 60.12> [Sec. 3D-0524]

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard under 40 CFR 60. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.

2.44 NSPS - Maintain Records - Startup/Shutdown/Malfunction <40 CFR 60.7(b)> [Sec. 3D-0524]

The permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

2.45 NSPS - Files Available for Inspection <40 CFR 60.7(f)> [Sec. 3D-0524]

The permittee shall maintain a file of all measurements, including, if applicable, performance test measurements and all other information required in 40 CFR 60. This file shall be kept in a permanent form suitable for inspection and shall be retained at least two years following the date of such measurements, maintenance, reports, and records.

2.46 NSPS - Performance Testing Facilities Provided by Permittee <40 CFR 60.8(e)> [Sec. 3D-0524]

For any performance testing, the permittee shall provide, or cause to be provided, performance testing facilities as follows:

- A. Sampling ports adequate for the applicable test methods. This includes:
 - 1. constructing the air pollution control system such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and procedures and
 - 2. providing a stack or duct free of cyclonic flow during performance tests, as demonstrated by applicable test methods and procedures.
- B. Safe sampling platform(s) with safe access.
- C. Utilities for sampling and testing equipment.
- D. Unless otherwise specified in the applicable subpart, each performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For purposes of determining compliance with an applicable standard, the arithmetic means of results of the three (3) runs shall apply.

National Emission Standards for Hazardous Air Pollutants for Source Categories (NESHAP) General Conditions - [Sec. 3D-1111]

Following are conditions found in the 40 CFR Part 63 NESHAP General Provisions. The following conditions only apply to sources subject to a relevant standard of a subpart of 40 CFR Part 63 except when otherwise specified in a particular subpart or in a relevant standard.

2.47 NESHAP - General Provisions <40 CFR 63 Subpart A> [Sec. 3D-1111]

The permittee shall comply with all applicable requirements specified in the general provisions of the National Emission Standards for Hazardous Air Pollutants for Source Categories (40 CFR 63 Subpart A) including but not limited to requirements concerning notifications, testing, monitoring, recordkeeping, modifications, construction, and reconstruction.

2.48 NESHAP - Startup Shutdown and Malfunction Plan <40 CFR 63.6(e)(3)> [Sec. 3D-1111]

The permittee shall develop and implement a written startup, shutdown and malfunction plan in accordance with the requirements in 40 CFR 63.6(e)(3).

2.49 NESHAP - Good Air Pollution Control Practice <40 CFR 63.6(e) and 63.8(c)> [Sec. 3D-1111]

At all times, including periods of startup, shutdown, and malfunction, the permittee shall maintain and operate any affected source, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions at least to the levels required by all relevant standards. The permittee also shall maintain and operate each continuous monitoring system (CMS) as specified in 40 CFR 63.8, or in a relevant standard, and in a manner consistent with good air pollution control practices. Malfunctions shall be corrected as soon as practicable after their occurrence in accordance with the startup, shutdown, and malfunction plan required by 40 CFR 63.6(e)(3). Operation and maintenance requirements established pursuant to Section 112 of the Clean Air Act are enforceable independent of emissions limitations or other requirements in relevant standards.

2.50 NESHAP - Circumvention <40 CFR 63.4(b)> [Sec. 3D-1111]

The permittee shall not build, erect, install, or use any article, machine, equipment or process to conceal an emission that would otherwise constitute noncompliance with a relevant standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with a relevant standard based on the concentration of a pollutant in the effluent discharged to the atmosphere, the use of diluents to achieve compliance with a relevant standard for visible emissions, and the fragmentation of an operation such that the operation avoids regulation by a relevant standard.

2.51 NESHAP - Maintain Records <40 CFR 63.10(b)(2)> [Sec. 3D-1111]

For affected sources, the permittee shall maintain relevant records of:

- A. the occurrence and duration of each startup, shutdown, or malfunction of operation;
- B. the occurrence and duration of each malfunction of the air pollution control equipment;
- C. all maintenance performed on the air pollution control equipment;
- D. actions taken during periods of startup, shutdown, and malfunction;
- E. all information necessary to demonstrate compliance with the affected source's startup, shutdown, and malfunction plan when all actions taken are consistent with the procedures specified in the plan;

- F. each period during which a CMS is malfunctioning or inoperative;
- G. all required measurement needed to demonstrate compliance with a relevant standard;
- H. all results of performance tests, CMS performance evaluations, and opacity and visible emission observations;
- I. all measurements as may be necessary to determine the conditions of performance tests and performance evaluations;
- J. all CMS calibration checks;
- K. all adjustments and maintenance performed on CMS;
- L. any information demonstrating whether a source is meeting the requirements for a waiver of recordkeeping or reporting requirements if the source has been granted a waiver under 40 CFR 63.10(f);
- M. all emission levels relative to the criterion for obtaining permission to use an alternative to the relative accuracy test if the source has been granted such permission under 40 CFR 63.8(f)(6); and
- N. all documentation supporting initial notifications and notifications of compliance status under 40 CFR 63.7.

2.52 NESHAP - Files Available for Inspection <40 CFR 63.10(b)(1)> [Sec. 3D-1111]

The permittee shall maintain files of all information required by 40 CFR Part 63 recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least five years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent two years of data shall be retained on site. The remaining three years of data may be retained off site.

2.53 NESHAP - Performance Testing Facilities Provided by Permittee <40 CFR 63.7(d)> [Sec. 3D-1111]

For any performance testing for each new source and, at the request of the Director, for each existing source, the permittee shall provide performance testing facilities as follows:

- A. Sampling ports adequate for test methods applicable to the affected source. This includes:
 1. Constructing the air pollution control system such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and procedures; and
 2. Providing a stack or duct free of cyclonic flow during performance tests, as demonstrated by applicable test methods and procedures.
- B. Safe sampling platform(s).
- C. Safe access to sampling platform(s).
- D. Utilities for sampling and testing equipment.
- E. Any other facilities that the Director deems necessary for safe and adequate testing of a source.
- F. Unless otherwise specified in the applicable subpart, each performance test shall be conducted according to the requirements in 40 CFR 63.7.

Compliance Assurance Monitoring for Major Stationary Sources (CAM) General Conditions - [40 CFR Part 64]

The following are conditions based on the requirements found in 40 CFR Part 64. These conditions apply solely to sources subject to the CAM requirements.

2.54 CAM - Proper Maintenance <40 CFR 64.7(b)> [Sec. 3D-0614]

At all times, the permittee shall maintain the monitoring equipment, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.

2.55 CAM - Continued Operation <40 CFR 64.7(c)> [Sec. 3D-0614]

Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The permittee shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

2.56 CAM - Response to Excursions or Exceedances <40 CFR 64.7(d)> [Sec. 3D-0614]

Upon detecting an excursion or exceedance, the permittee shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designed condition, or below the applicable emissions limitation or standard, as applicable.

Determination of whether the permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process. Based on the results of this determination, this Office may require the permittee to develop and implement a Quality Improvement Plan (QIP). The elements of a QIP are identified in 40 CFR 64.8(b).

2.57 CAM - Documentation of Need for Improved Monitoring <40 CFR 64.7(e)> [Sec. 3D-0614]

After approval of the CAM plan, if the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the permittee shall promptly notify this Office and, if necessary, submit a proposed modification to this permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conduction monitoring and collecting data, or the monitoring of additional parameters.

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SECTION 3 SPECIFIC LIMITATIONS AND CONDITIONS

3.0 Emissions Sources and Applicability Table

| Emissions Point | Applicable Permit Section | | | | | | |
|---|---------------------------|-----|-----|-----|-----|-----|-----|
| | 3.1 | 3.2 | 3.3 | 3.4 | 3.5 | 3.6 | 3.7 |
| ES-21, Kewanee Boiler | X | X | | | | | |
| ES-31, #18 Finishing Range | | X | | | | | X |
| ES-33, #3 Finishing Range | | X | | | X | | X |
| ES-34, #4 Finishing Range | | X | X | X | X | | X |
| ES-35, #5 Finishing Range | | X | | X | | | X |
| ES-36, #6 Finishing Range | | X | X | X | X | | X |
| ES-38, #9 Laminator | | X | | X | | | X |
| ES-61, Solvated Rubber Mixing & Storage | | X | X | X | X | | X |
| ES-62, Aqueous Coating Mixing & Storage | | X | | X | | | X |
| ES-81, Toluene Storage Tanks | | X | | | | | X |
| ES-82, Latex Storage Tanks | | X | | | | | X |
| ES-83, Tote Storage | | X | | | | | X |
| ES-90, Groundwater Stripper | | X | | | | X | |
| ES-91, Groundwater Sparger | | X | | | | X | |

The emission source(s) and/or associated air pollution control device(s) listed in each subsequent subsection are subject to the following specific terms, conditions, and limitations, including all applicable monitoring recordkeeping, and reporting requirements.

3.1 Natural Gas-Fired Kewanee Boiler, Uncontrolled (ES-21)

- A) **Particulates from Fuel Burning Indirect Heat Exchangers** [Sec. 3D-0503]
- 1) **Standard** - [Sec. 3D-0503] - Emissions of particulate matter from the combustion of natural gas that are discharged from this source into the atmosphere shall not exceed **0.495 pounds per million Btu heat input**.
 - 2) **Testing** - [Sec. 3D-2601] - The permittee shall follow the testing requirements specified in condition **3.2(A)(2)**.
 - 3) **Monitoring/Recordkeeping/Reporting** - No monitoring, recordkeeping, or reporting is required for particulate matter from the firing of natural gas in this source.
- B) **40 CFR Part 60, Subpart Dc - Standards of Performance for Small Industrial - Commercial - Institutional Steam Generating Units; Boiler Fuel Combustion Report** [Sec. 3D-0524]
- 1) The permittee shall maintain records of the total annual quantities of all fuel combusted in the Kewanee Boiler, in accordance with revised recordkeeping requirements as described in a U.S. EPA, Region IV guidance memorandum dated February 20, 1992 [in lieu of the specific requirements of 40 CFR 60.48c.(g)]
 - 2) This information shall be reported to the Forsyth County Office of Environmental Assistance and Protection by January 31st of each year for the previous calendar year.
- C) **National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters** [Sec. 3D-1111 and 40 CFR 63, Subpart DDDDD]
- 1) **Tune-up of Boiler** [Sec. 3D-1111 and 40 CFR 63.7515 and 63.7540(a)(10)] - the permittee shall conduct an annual tune-up to demonstrate continuous compliance. The annual tune-up shall be performed no more than 13 months after the previous tune-up and be performed as specified below:
 - a) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may delay the burner inspection until the next scheduled unit shutdown). At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment;
 - b) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;
 - c) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown);
 - d) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NO_x requirement to which the unit is subject;
 - e) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is

- the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer; and
- f) Maintain on-site and submit, if requested by this Office, an annual report containing the information below:
 - i) The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater;
 - ii) A description of any corrective actions taken as a part of the tune-up; and
 - iii) The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit.
 - 2) **Recordkeeping Requirements** [Sec. 3D-1111, 40 CFR 63.7555, 63.7560]
 - a) The permittee shall maintain files of all information (including all reports and notifications, and all documentation supporting initial notifications and notifications of compliance status) required by Subpart DDDDD recorded in a form suitable and readily available for expeditious inspection and review.
 - b) The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche.
 - 3) **Reporting Requirements** [Sec. 3D-1111 and 40 CFR 63.7550]
 - a) The permittee shall submit a compliance report to this Office containing the following information:
 - i) Company and Facility name and address;
 - ii) Process unit information;
 - iii) Date of report and the beginning and ending dates of the reporting period (January 1st through December 31st);
 - iv) The total operating time during the reporting period; and
 - v) The date of the most recent tune-up of the boiler and the date of the most recent burner inspection if it was not done annually and was delayed until the next scheduled or unscheduled boiler shutdown.
 - b) All reports shall be postmarked or submitted no later than January 31st of each year. In addition to submitting the compliance report to this Office, the permittee shall submit the compliance report electronically using CEDRI that is accessed through the EPA's Central Data Exchange (CDX): (www.epa.gov/cdx).

3.2 General and Facility-Wide Emissions Conditions

Table 3.2-1, Applicable Emission Sources

| Source ID | Source Description | Control Device |
|-----------|--|--|
| ES-21 | Natural Gas-Fired Kewanee Boiler | Uncontrolled |
| *ES-31 | #18 Finishing Range | CD-123, EviroCare MicroMist venturi scrubber (when SiO ₂ is formed) |
| ES-33 | #3 Finishing Range | CD-51, Solvent Recovery Unit (SRU) |
| *ES-34 | #4 Finishing Range | CD-51, SRU or CD-42, Cor-Pak Thermal Oxidizer (includes the Dryer Section, controlled by CD-123, EviroCare MicroMist venturi scrubber when SiO ₂ is formed) |
| *ES-35 | #5 Finishing Range | Uncontrolled (except Coater Section controlled by CD-123, EviroCare MicroMist venturi scrubber when SiO ₂ is formed) |
| ES-36 | #6 Finishing Range | CD-51, SRU or CD-42, Cor-Pak Thermal Oxidizer |
| ES-38 | #9 Laminator | Uncontrolled |
| ES-61 | Solvated Rubber Mixing and Storage | CD-51, Solvent Recovery Unit (SRU) |
| ES-62 | Aqueous Coating Mixing and Storage | Uncontrolled |
| ES-81 | Two (2) Above-ground Toluene Storage Tanks | CD-51, Solvent Recovery Unit (SRU) |
| ES-82 | Two (2) Underground Latex Storage Tanks | Uncontrolled |
| ES-83 | Tote Storage | Uncontrolled |
| ES-90 | Groundwater Stripper | CD-51, Solvent Recovery Unit (SRU) |
| ES-91 | Groundwater/Soil Air Sparger | Uncontrolled |

* Some silicone-based coatings form silicone dioxide (SiO₂) particulate as the coating dries or cures. Emissions from the ES-31 & ES-34 Dryer Sections, and the ES-35 Coater Section, **shall be vented to the EviroCare MicroMist venturi scrubber (CD-123) for all operations involving the formation of SiO₂ particulate (see Condition 3.2(A)(4)).**

Table 3.2-2, Summary of Applicable Requirements

| Pollutant | Applicable Condition(s) | Emission Point(s) Subject |
|--------------------|-------------------------|---|
| Visible Emissions | 3.2(A) | ES-21, ES-31, ES-33, ES-34, ES-35 |
| Sulfur Dioxide | 3.2(B) | ES-21, ES-31, ES-33, ES-34, ES-35 |
| VOCs | 3.2(C) | ES-31, ES-33, ES-34, ES-35, ES-36, ES-38, ES-61, ES-62, ES-81, ES-82, ES-83 |
| Particulate Matter | 3.2(D) | ES-31, ES-33, ES-34, ES-35 |
| Local Air Toxics | 3.2(E) | ES-31, ES-33, ES-34, ES-35, ES-36, ES-38, ES-61, ES-62, ES-81, ES-82, ES-83, ES-90, ES-91 |

A) Control of Visible Emissions [Sec. 3D-0521]

- 1) **Standard Applicable to sources established after July 1, 1971** [Sec. 3D-0521(d)] - Visible emissions for sources established after July 1, 1971 shall not exceed 20% opacity when averaged over a six-minute period except that six-minute periods averaging not more than 87% opacity may occur not more than once in any hour nor more than four times in any 24-hour period.

Table 3.2-3, Applicable Visible Emissions Standards

| Emission Source ID# | Emission Source Description | Visible Emission Standard |
|---|------------------------------------|--|
| *ES-21 | Kewanee Boiler | 20% Opacity [3D-0521(d)] Sources Established After July 1, 1971 |
| ES-31, ES-33, ES-34, ES-35 | Finishing Ranges (#3, #4 & #5) | |
| <i>*The monitoring/recordkeeping and reporting requirements below do not apply to this source based on the combustion of only natural gas as the only fuel.</i> | | |

- 2) **Testing** - [Sec. 3D-2601] - If emissions testing is required by this Office or the U.S. EPA, or the permittee submits emissions testing to this Office in support of a permit application, the permittee shall perform such testing in accordance with the appropriate U.S. EPA reference method(s) as approved by this Office. The permittee may request approval from this Office for an alternate test method or procedure in writing.
- 3) **Monitoring / Recordkeeping / Reporting** [Sec. 3Q-0508(f) and (g) and 3D-0611]
- a) The permittee shall conduct a daily observation of the stacks/vents venting emissions from the sources listed in Table 3.2-3. The permittee should attempt these observations during a period when the plant is operating at an average or greater than average capacity.
 - b) The permittee shall keep a daily record of these daily visible emission stack observations. The record shall contain the following:
 - i) the date and time of visual observation,
 - ii) the person(s) who performed visual observation,
 - iii) identification of stack(s) where visible emissions were occurring (otherwise, input a general overall statement or check that there were no problems noted on a plant-wide basis),
 - iv) the operating conditions under which the visual observation was conducted, and
 - v) any actions taken to reduce the visible emissions.
 - c) The visible emissions observation data must be available for at least 90 percent of the operating days at the facility during the six-month reporting period to ensure compliance with this requirement.
 - i) If the emission source is not operating, a record of this fact along with the corresponding date and time shall substitute for the daily check.
 - ii) These records shall be retained on-site for at least 5 years from the event recorded and shall be made readily available upon request by an authorized representative of this Office or the U.S. EPA.
- 4) All instances of deviations from the requirements for these emission sources and the duration of these deviations must be clearly identified and reported in writing to this Office by July 30th for the previous months of January through June, and by January 30th for the previous months of July through December.

If no deviations have occurred, the permittee shall provide this statement in the report.

- 5) **Add-on Controls (ES-31, ES-34, and ES-35 only)**[Sec. 3Q-0508(f) and (g), 3D-0611 and 3D-0613]
- a) The permittee shall operate an EnviroCare MicroMist venturi scrubber (“*wet scrubber*”) control device, and route all emissions from ES-34, ES-35, and ES-31 through this device **at all times** when applying silicone-based coatings that will result in siloxane (SiO₂) particulates entering the exhaust stream.
 - b) The permittee shall operate and maintain pressure drop monitoring devices on the wet scrubber unit.
 - i) A pressure drop monitoring device shall measure the overall differential pressure drop between the input and output exhaust flow of the wet scrubber unit.
 - ii) A pressure drop monitoring device shall measure the differential pressure drop across the MicroMist venturi stage (MMV) of the wet scrubber unit.
 - iii) Pressure drop monitors shall be connected to a continuous data-logging system capable of recording on a 15-minute block average basis, with no fewer than four 15-minute block averages recorded each hour.
 - iv) The pressure drop monitoring system shall contain an alarm that alerts operator(s) of any excursions of the 15-minute block average that occur outside of manufacturer’s specified ranges.
 - v) The permittee shall develop and implement a quality assurance program (QAP) for the differential pressure drop monitor(s). The quality assurance program (QAP) shall include at a minimum, if applicable:
 - A) procedures and frequencies for calibration,
 - B) standards traceability,
 - C) operational checks,
 - D) maintenance,
 - E) auditing,
 - F) data validation, and
 - G) a schedule for implementing the quality assurance program.

A manufacturer’s recommended quality assurance procedure may be used as a QAP if it provides an adequate quality assurance program. The QAP shall be maintained on-site and made available to an authorized OEAP representative upon request.

- c) While the wet scrubber is in operation, the permittee shall maintain the range of pressure drop readings guaranteed by the manufacturer to prevent visible emissions from exceeding Sec. 5D-0521(d).
 - i) The 15-minute block average differential pressures shall not fall below those range(s) specified by the manufacturer more than once per hour, or four times per 24-hour period.
 - ii) If the 15-minute block average differential pressure falls below the manufacturer’s specified range(s), the permittee shall record the incident and take immediate corrective action(s) necessary to maintain compliance.
 - iii) The permittee shall also record the corrective action(s) taken, the period the pressure drop is outside the manufacturer specified operational range, and/or any monitoring downtime.

iv) Records shall be maintained as established in Condition 3.2(A)(3)(c)(ii).

B) Sulfur Dioxide Emissions from Combustion Sources [Sec. 3D-0516]

- 1) **Standard** - [Sec. 3D-0516] - Emissions of sulfur dioxide from affected sources shall not exceed **2.3 pounds per million Btu heat input**. Sulfur dioxide (SO₂) formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.
- 2) **Testing** - [Sec. 3D-2601] - The permittee shall follow the testing requirements specified in permit condition **3.2(A)(2)** for affected sources.
- 3) **Monitoring/Recordkeeping/Reporting** - No monitoring, recordkeeping, or reporting is required for sulfur dioxide from the firing of natural gas in affected sources. The emissions from the combustion of natural gas are accounted for in the facility annual emissions inventories.

C) Work Practices for Sources of Volatile Organic Compounds [Sec. 3D-0958]

- 1) **Facility-wide Work Practice Standards [Sec. 3D-0958(c)]**
The owner or operator of any facility subject to this Section shall:
 - a) store all material, including waste material, containing volatile organic compounds in containers covered with a tightly fitting lid that is free of cracks, holes, or other defects, when not in use,
 - b) clean up spills as soon as possible following proper safety procedures,
 - c) store wipe rags in closed containers,
 - d) not clean sponges, fabric, wood, paper products, and other absorbent materials, unless volatile organic compound emissions are captured and controlled,
 - e) drain solvents used to clean supply lines and other coating equipment into containers designed for closure, and close containers immediately after each use, and
 - f) clean mixing, blending, and manufacturing vats and containers by adding cleaning solvent, closing the vat or container before agitating the cleaning solvent. The spent cleaning solvent shall then be poured into a closed container.
- 2) **Facility-wide Work Practice Standards Specific to Parts Cleaning [Sec. 3D-0958(d)]** - When cleaning parts, the owner or operator of any facility subject to this Sec. shall:
 - a) flush parts in the freeboard area,
 - b) take precautions to reduce the pooling of solvent on and in the parts,
 - c) tilt or rotate parts to drain solvent and allow a minimum of 15 seconds for drying or until all dripping has stopped, whichever is longer,
 - d) not fill cleaning machines above the fill line, and
 - e) not agitate solvent to the point of causing splashing, unless volatile organic compound emissions are captured and controlled.
- 3) **Facility-wide Work Practice Standards Specific to Control Devices [Secs. 3D-0958(e) and 3Q-0508(i)(16)]** - The owner or operator of a source on which a control device has been installed to comply with Sec. 3D-0518(d) shall continue to maintain and operate the control device. The following emission units previously utilized a control device to comply with Sec. 3D-0518(d):

Table 3.2(C)(3), Applicable Control Devices

| Emission Source ID | Emission Source Description | Control Device ID | Control Device Description |
|--------------------|------------------------------------|-------------------|-----------------------------|
| ES-33 | #3 Finishing Range | CD-51 | Solvent Recovery Unit |
| ES-34 | #4 Finishing Range | CD-51 | Solvent Recovery Unit |
| | | CD-42 | Cor-Pak Thermal Oxidizer |
| | | CD-123 | EnviroCare Venturi Scrubber |
| ES-35 | #5 Finishing Range | CD-123 | EnviroCare Venturi Scrubber |
| ES-36 | #6 Finishing Range | CD-51 | Solvent Recovery Unit |
| | | CD-42 | Cor-Pak Thermal Oxidizer |
| ES-61 | Solvated Rubber Mixing and Storage | CD-51 | Solvent Recovery Unit |
| ES-81 | 2 Toluene Tanks | CD-51 | Solvent Recovery Unit |
| ES-91 | Groundwater Sparger | CD-51 | Solvent Recovery Unit |

The permittee shall continue to operate these control devices unless the Director determines that the removal of the control device shall not cause or contribute to a violation of the ambient air quality standard (NAAQS) for ozone (3D-0405).

- 4) **Monitoring/Recordkeeping** [Sec. 3Q-0508(f) and (g)] - To ensure compliance with the work practice standards above, the permittee shall perform weekly inspections at each affected emissions unit to verify compliance with the work practices and identify any deviations. The results of the inspections and any deviations shall be recorded in a log (written or electronic form) on site and be readily available upon request by an authorized representative of this Office or the U.S. EPA. The log shall contain the following records:
- the date and time of each inspection,
 - the results of each inspection, and
 - all deviations from required work practice standards and the corrective actions taken.
- 5) **Reporting Requirements** [Sec. 3Q-0508(f)] - The permittee shall submit a summary report of the monitoring requirements specified in permit condition **3.2(C)(4)**, to this Office by July 30th for the previous months of January through June, and by January 30th for the previous months of July through December. This report shall contain the total number of weeks in which the work practice standards weekly check was not made during the reporting period.

D) Particulates from Miscellaneous Industrial Processes [Sec. 3D-0515]

- 1) **Standard/Operation Requirements** - [Sec. 3D-0515] - Emissions of particulate matter from affected sources shall not exceed the allowable emission rate calculated by the equation:

$$E = 4.10 * P^{0.67} \text{ where;}$$

E = allowable emission rate for particulate matter in lb/hr, and

P = process weight rate in tons/hr.

- 2) **Reporting Deviations from Requirements** [Sec. 3Q-0508(f)] - The permittee shall follow the reporting requirements specified in permit condition **3.2(A)(4)** for these sources.
- E) **Toxic Air Pollutant (TAP) Emissions - Local Enforcement Only** [Secs. 3Q-0712, 3Q-0317 and 3Q-0308(a)(1)]
- 1) **Air toxics - general** [Sec. 3Q-0712] - Upon the written request of the Director and in accordance with Section 3D-1100 ("Control of Toxic Air Pollutants") of the FCAQTC, the permittee shall demonstrate to the satisfaction of the Director that the facility's emissions of the toxic air pollutants listed in Section 3D-1100 do not "cause or contribute to any significant ambient air concentration that may adversely affect human health". This demonstration shall be made in accordance with Sections 3D-1100 and 3Q-0700.
 - 2) **Air Toxics Recordkeeping Requirements** [Sec. 3D-0605 and 3Q-0308(a)(1)]
 - a) The permittee shall maintain updated records of production rates, throughputs, material usage, and other process operational information as is necessary to determine toxic air pollutant emissions. At a minimum these records shall include data sufficient to calculate monthly averaged emission rates (in pounds per hour of emission source operation) for TAPs with 1-hour or 24-hour emission limits and yearly emission rates (in pounds per calendar year) for TAPs with annual emission limits.
 - b) Copies of the records specified in Condition **3.2(E)(2)(a)** shall be retained by the permittee for a period of two (2) years after the date on which the record was made, except that the Director may extend the retention period in particular instances. The permittee shall readily furnish copies of these records upon request by this Office.

3.3 Standards of Performance for Polymeric Coating of Supporting Substrates Facilities (40 CFR 60, Subpart VV)

Table 3.3-1, Applicable Emission Sources

| Source ID | Source Description | Control Device |
|-----------|------------------------------------|--|
| ES-34 | #4 Finishing Range | CD-51, SRU or CD-42, Cor-Pak Thermal Oxidizer (includes the Dryer Section, controlled by CD-123, EviroCare MicroMist venturi scrubber when SiO ₂ is formed) |
| ES-36 | #6 Finishing Range | CD-51, SRU or CD-42, Cor-Pak Thermal Oxidizer |
| ES-61 | Solvated Rubber Mixing and Storage | CD-51, Solvent Recovery Unit (SRU) |

- A) **New Source Performance Standards Subpart VV Requirements - ES-34 and ES-61** [Sec. 3D-0524] <40 CFR Part 60, Subpart VV> - Subpart VV of 40 CFR 60 entitled *Standards of Performance for Polymeric Coating of Supporting Substrates Facilities* applies to the #4 Finishing Range (ES-34) and Solvated Rubber Mixing and Storage (ES-61) at all times except during those times when the equipment is used to prepare or apply waterborne coatings so long as the volatile organic compound (VOC) content of the coating does not exceed 9 percent by weight of the volatile fraction. *Waterborne coating* means a coating which contains more than 5 weight percent water in its volatile fraction. Except when mixing or using these exempt waterborne coatings, Subpart VV applies to ES-34 and ES-61 and emissions from these sources must be directed to the appropriate control devices.
- 1) **Standards & Operational Requirements** - The permittee shall comply with the following conditions when applying coatings subject to Subpart VV:
- Vent ES-34 to Control Device** [Sec. 3D-0524] <40 CFR 60.742(b)(2)> - The #4 Finishing Range (ES-34) shall be vented to either the solvent recovery unit (SRU) or the Cor-Pak Thermal Oxidizer.
 - SRU Must Be at Least 95% Efficient** [Sec. 3D-0524] <40 CFR 60.742(b)(2)> - The solvent recovery unit shall operate at a VOC control efficiency of at least 95% according to the requirements of 40 CFR 60.742(b)(2) and Sec. 3D-524 of the FCAQTC. By meeting or exceeding a 95% control efficiency, this system meets the NSPS requirement for control as well as provides the desired control efficiency needed to determine compliance with PSD requirements found in **Section 3.4**.
 - Cor-Pak Must Be at Least 95% Efficient** [Sec. 3D-0524] 40 CFR 60.742(b)(2)> - The Cor-Pak Thermal Oxidizer shall maintain a minimum overall VOC control efficiency of 95% according to the requirements of 40 CFR 60.742(b)(2) and Sec. 3D 0.524 of the FCAQTC. (As stated in permit conditions **3.4(A)(1)(a)** and **3.4(A)(2)(a)**, the permittee shall refer to the most recent performance test VOC control efficiency results approved by this Office for determining VOC emissions under the PSD requirements in **Section 3.4**.) Parameters shall be used to determine compliance with this requirement:
 - a minimum residence time of 0.8 seconds shall be maintained in the combustion chamber by not exceeding the maximum design air flow capacity of 20,000 SCFM. Any change in this design capacity shall be

- applied for and approved by this Office prior to operation.
- ii) a minimum operating temperature of 1400 °F shall be maintained in the combustion chamber.
- d) **Total Enclosure Required for ES-34** [Sec. 3D-0524] <40 CFR 60.743(b)(1)> - In accordance with the requirements of 40 CFR 60.742(b)(2) and Sec. 3D-0524 of the FCAQTC, the #4 Finishing Range shall operate within a total enclosure designed to achieve 100% capture of process emissions. The enclosure shall meet the following design and operating criteria as required by 40 CFR 60.743(b)(1) when running solvent-based coatings:
- i) The only openings in the enclosure shall be forced makeup air and exhaust ducts and natural draft openings such as those which raw materials enter and exit the coating operation.
 - ii) The total area of all natural draft openings shall not exceed 5% of the total surface area of the total enclosure's walls, floor, and ceiling.
 - iii) Access doors #18, #2, #3, #4 and #6 shall be closed during normal operation of the enclosed coating operation, except for brief, occasional openings to accommodate process equipment adjustments. If such openings are frequent, or if the access door remains open for a significant amount of time during the process operation, it must be considered a natural draft opening. Door #5 will remain open during the operation of the range.
 - iv) The average inward face velocity across all natural draft openings shall be *at least 200 feet per minute*. The direction of air flow through all natural draft openings shall be into the enclosure.
 - v) All sources of volatile organic compounds shall be located a minimum of four equivalent diameters away from each natural draft opening.
 - vi) All exhaust vents from the #4 Finishing Range total enclosure shall be directed to the solvent recovery unit or Cor Pak Thermal Oxidizer when processing VOC based coatings.
- e) **Access Doors Closed - ES-34** [Sec. 3D-0524] <40 CFR 60.743(b)(1)> - In order to maintain the 200 feet per minute inward face velocity needed to assure 100% capture of emissions to the control device, the access doors to the enclosure for the # 4 range shall be operated as follows when using VOC based coatings:
- i) Access doors #18, #2, #3, #4 and #6 shall remain closed on the #4 finishing Range during normal operation, except that doors #2 and #4 may be opened for a brief period of time when re-supplying fabric to the #4 Finishing Range. Door numbers shall be marked clearly on each door so that both plant personnel and regulatory inspectors can easily identify them.
 - ii) All access doors on the #4 Finishing Range shall be equipped with an alarm or range shut-down system interlocked with the operation of the range. These alarms or shut-down systems shall be triggered within 10 minutes of the time that a door (required to be closed) is left opened.
 - iii) In accordance with 40 CFR 40.743 (b)(1)(iii), all access doors used routinely by workers to enter and exit the enclosed area shall be equipped with automatic closure devices.
- f) **Solvent Coating Mix Room Requirements (ES-61)** - The following conditions apply to the solvent coating mixing room and tanks at all times:

- i) **Storage Tanks Covered and Vented to SRU** [Sec. 3D-0524] <40 CFR 60.743(c)(1) and (3)> - The solvent coating mix storage tanks shall be equipped with covers and shall be vented to the solvent recovery unit during any mixing operation in these tanks.
 - ii) **Procedures Posted** [Sec. 3D-0524] <40 CFR 60.743(c)(2)> - Procedures detailing the proper use of covers, as specified in 40 CFR 60.743(c)(1)(i), shall be posted in all areas where coating mix preparation equipment are subject to NSPS.
 - iii) **Mixing Equipment Covered and Vented to SRU** [Sec. 3D-0524] <40 CFR 60.743(c)(1) and (3)> - All solvent coating mix preparation equipment shall be equipped with covers. These, except the 50 gallon drum mixer, shall be vented to the solvent recovery unit whenever coating is being formulated and/or mixed. Covers shall be closed at all times except when adding ingredients, withdrawing samples, transferring the contents, or making visual inspections, when such activities cannot be carried out with the cover in place. Provided the covers are in place, the mixing equipment may be vented away from the solvent recovery unit during periods of temporary storage of previously prepared coating mix. Under no circumstances shall any phase of coating mix preparation take place unless the mixers are vented to the solvent recovery unit.
- 2) **Monitoring/Recordkeeping** - The permittee shall comply with the following monitoring requirements for ES-34 when applying coatings subject to this requirement:
- a) **SRU Monitoring** [Sec. 3D-0524] <40 CFR 60.744(c)(1)> - The permittee shall calibrate, properly maintain and operate monitoring devices that continuously indicate and record the levels of organic compounds in both the inlet and outlet gas streams of the solvent recovery unit.
 - b) **Cor-Pak Temperature Monitoring** [Sec. 3D-0524] <40 CFR 60.744(e)> The permittee shall calibrate, maintain and operate, according to the manufacturer's specifications, a monitoring device that continuously indicates and records the combustion temperature of the Cor-Pak Thermal Oxidizer. The monitoring device shall have an accuracy within $\pm 1\%$ of the temperature being measured in Fahrenheit degrees.
 - c) **Total Enclosure Monitoring on ES-34** [Sec. 3D-0524] <40 CFR 60.744(h)> According to the specifications of the monitoring plan submitted by the applicant on January 15, 1990 and as amended and approved by the Office of Environmental Assistance and Protection on February 13, 1990, the permittee shall perform the following monitoring requirements:
 - i) Continuously monitor and record the exhaust fan amperages to indicate the performance of the total enclosure for the #4 Finishing Range. Fan amperages from the #4 Finishing Range Oven Exhaust Fan, when averaged over a three-hour period shall be **11.4 amps or greater**. Excursions that are 11.4 amps (5% below 12 amps) must be reported to the Office of Environmental Assistance and Protection in accordance with the reporting requirements below. Any corrective actions taken to limit these excursions shall be included in the report. Continued excursions will this Office to require the permittee to undergo a compliance test at the reduced amperages to verify that the permittee is still meeting the inward face velocity requirements when operating at these lower rates.
 - ii) The permittee shall calibrate, properly maintain and operate the

amperage meters which indicate that the total enclosure is operating at the baseline conditions established during the performance testing.

- 3) **Testing** [Sec. 3D-2601] - The permittee shall follow the testing requirements specified in condition **3.2(A)(2)** when applying coatings subject to Subpart VV of 40 CFR 60.
- 4) **Reporting** [Sec. 3Q-0508(f)] - The permittee shall comply with the requirements of conditions **3.2(A)(4)**, and **Section 3.5(D)** of this permit for these sources.

B) New Source Performance Standards Subpart VV Requirements - ES-36 [Sec. 3D-0524] <40 CFR Part 60, Subpart VV> - Subpart VV of 40 CFR 60 entitled "*Standards of Performance for Polymeric Coating of Supporting Substrates Facilities*" applies to the #6 Finishing Range (ES-36) at all times because the range does not apply waterborne coatings. However, as long as the #6 Finishing Range (ES-36) continues to use less than 95 Mg (104.7 tons) of VOC per consecutive 12-month period, it is only subject to the requirements of 40 CFR 60.744(b), 60.747(b) and 60.747(c).

The permittee shall comply with all of the applicable requirements in 40 CFR 60, Subpart VV and Subpart A. The following requirements apply to affected facilities using less than 95 Mg (104.7 tons) per 12 month period. If actual VOC use on the #6 Finishing Range (ES-36) equals or exceed 95 Mg (104.7 tons) per 12 month period the permittee shall comply with the additional requirements in 40 CFR 60, Subpart VV.

- 1) **Projected and actual VOC usage** [Sec.3D-0524] <40 CFR 60.744(b)>
 - a) The permittee shall make semiannual estimates of the projected annual amount of VOC to be used for the manufacture of polymeric coated substrate on ES-36 in that year.
 - b) The permittee shall maintain records of actual VOC usage.
- 2) **VOC usage recordkeeping and reporting** [Sec. 3D-0524] <40 CFR 60.747(c)>
 - a) The permittee shall record semiannual estimates of projected VOC use and actual 12-month VOC use.
 - b) The permittee shall report the first semiannual estimate in which projected annual VOC use exceeds 95 Mg (104.7 tons).
 - c) The permittee shall report the first 12-month period in which the actual VOC use exceeds 95 Mg (104.7 tons).
- 3) **Reporting due dates and records retention** <40 CFR 60.747(g)> [Sec. 3D-0524]
 - a) The records associated with the requirements of Conditions **(1)** and **(2)** above, shall be retained for at least two years.
 - b) The reports associated with the requirements of Conditions **(2)(b)** and **(2)(c)** above shall be postmarked within 30 days of the end of the reporting period.

3.4 PREVENTION OF SIGNIFICANT DETERIORATION (PSD) [Secs. 3Q-0315 & 3D-0530]

These emission sources listed in Table 3.4-1 have a federally enforceable limit of emitting **no more than 79,000 lbs of VOC in any consecutive 12-month period** applied to them in order to avoid the provisions of Sec. 3D-0530. For permitting and compliance demonstration purposes, sources have been **grouped based on when they became subject to PSD avoidance requirements**. Should any of the following applicable conditions be violated, this facility may become subject to the requirements of this Sec.

Table 3.4-1, PSD Avoidance Source Groups

| Source ID | Source Description | Control Device |
|------------------|----------------------------------|--|
| GROUP #1: | | |
| ES-34 | #4 Finishing Range | CD-51, SRU or CD-42, Cor-Pak Thermal Oxidizer (includes the Dryer Section, controlled by CD-123, EviroCare MicroMist venturi scrubber when SiO ₂ is formed) |
| ES-36 | #6 Finishing Range | CD-51, SRU or CD-42, Cor-Pak Thermal Oxidizer |
| ES-61 | Solvated Rubber Mixing & Storage | CD-51, Solvent Recovery Unit (SRU) |
| GROUP #2: | | |
| ES-35 | #5 Finishing Range | Uncontrolled (except Coater Section controlled by CD-123, EviroCare MicroMist venturi scrubber when SiO ₂ is formed) |
| ES-36 | #6 Finishing Range | CD-51, SRU or CD-42, Cor-Pak Thermal Oxidizer |
| ES-62 | Aqueous Coating Mixing & Storage | Uncontrolled |
| GROUP #3: | | |
| ES-38 | #9 Laminator | Uncontrolled |

A) Emission Requirements [3Q-0317(1)]

In order to avoid the applicability of Sec. 3D-0530(g) for major sources and major modifications, for the emission source groups listed below, the following requirements shall apply:

- 1) **GROUP #1: ES-34, ES-61, ES-62**
 - a) Volatile organic compound (VOC) emissions shall not exceed 79,000 lbs per 12-month period. The VOC emissions shall be calculated based on the following VOC control efficiencies:
 - i) For the solvent recovery unit (SRU, CD-51), 95% control efficiency.
 - ii) For the Cor-Pak thermal oxidizer (CD-42) the control efficiency shall be based upon the most recent performance test VOC control efficiency results approved by this Office.

- b) Operate and/or control emissions during solvent operations as specified in condition **3.3(A)(1)(a)-(e)** for ES-34 and **3.3(A)(1)(b) and (f)** for ES-61.
 - c) ES-62 shall use only non-solvent based formulations in all phases of operation.
- 2) **GROUP #2: ES-35, ES-36, ES-61, ES-62**
- a) Volatile organic compound (VOC) emissions shall not exceed 79,000 lbs per 12-month period. The VOC emissions shall be calculated based on the following VOC control efficiencies:
 - i) For the solvent recovery unit (CD-51), 95% control efficiency.
 - ii) For the Cor-Pak thermal oxidizer (CD-42) the control efficiency shall be based upon the most recent performance test VOC control efficiency results approved by this Office.
 - b) Operate and/or control emissions during solvent operations as specified in conditions **3.3(A)(1)(b)-(c)** for ES-36 and **3.3(A)(1)(b) and (f)** for ES-61.
 - c) The #6 Finishing Range (ES-36) shall operate within a total enclosure designed to achieve 100% capture of process emissions. The enclosure shall meet the following design and operating criteria:
 - i) The only openings in the enclosure shall be forced makeup air and exhaust ducts and natural draft openings such as those which raw materials enter and exit the coating operation.
 - ii) The total area of all natural draft openings shall not exceed 5% of the total surface area of the total enclosure's walls, floor, and ceiling.
 - iii) All access doors and windows shall be closed during normal operation of the enclosed coating operation, except for brief, occasional openings to accommodate process equipment adjustments. If such openings are frequent, or if the access door remains open for a significant amount of time during the process operation, it must be considered a natural draft opening.
 - iv) The average inward face velocity across all natural draft openings shall be *at least 200 feet per minute*. The direction of air flow through all natural draft openings shall be into the enclosure.
 - d) ES-35 shall apply only waterborne coatings with VOC content not exceeding 9% by weight of the volatile fraction.
 - e) ES-62 shall use only non-solvent based formulations in all phases of operation.
- 3) **GROUP #3: ES-38**
- a) Volatile organic compound emissions shall not exceed 79,000 lbs per 12-month period.
 - b) The #9 Laminator (ES-38) shall use only non-solvent based formulations in all phases of its operation.

B) Monitoring/Recordkeeping [Sec. 3D-0605 and 3Q-0508(f) and (g)]

- 1) **VOC Emissions**
 - GROUP #1: ES-34, ES-61, ES-62**
 - GROUP #2: ES-35, ES-36, ES-61, ES-62**
 - GROUP #3: ES-38**
 - a) The permittee shall monitor and record the VOC emissions for these sources. Compliance with the emissions limitation for these units shall be demonstrated by calculating the combined VOC emissions using actual equipment-specific

- VOC consumption data and the efficiency, if applicable, for control equipment.
- b) The emissions shall be calculated on a monthly basis and summed for the most current consecutive 12-month period. These records shall be made readily available upon request by an authorized representative of this Office or the U.S. EPA.
 - c) The permittee shall maintain daily records providing the following information for each day that these ranges are in operation. These records shall be maintained on-site for at least 5 years from the event recorded and shall be made readily available upon request by an authorized representative of this Office or the U.S. EPA:
 - i) the product and type of formulation (solvent or aqueous based) used on each range and
 - ii) where the emissions from each formulation being used on the range are being vented (i.e. - name of control device, if applicable, or directly to atmosphere).
- 2) **Processes, Control Devices and Enclosures**
- a) **GROUP #1: ES-34, ES-61, ES-62 *and***
GROUP #2: ES-35, ES-36, ES-61, ES-62
 - i) **SRU Control Device Monitoring**
The permittee shall follow the monitoring requirements as specified in **3.3(A)(2)(a) and 3.5(B)(1)(b)** for ES-34, ES-36 and ES-61.
 - ii) **Cor-Pak Control Device Monitoring**
The permittee shall follow the monitoring requirements as specified in **3.3(A)(2)(b) and 3.5(B)(1)(a)** for ES-34 and ES-36.
 - iii) **Enclosure Monitoring for ES-34**
The permittee shall follow the monitoring requirements as specified in **3.3(A)(2)(c) and 3.5(B)(2)(b)** for ES-34.
 - iv) **Enclosure Monitoring for ES-36**
The permittee shall follow the monitoring requirements as specified in **3.5(B)(2)(c)** for ES-36.
 - b) **GROUP #3: ES-38**
No monitoring required because there is no control device and no enclosure.
- C) **Testing - [Sec. 3D-2601]**
The permittee shall follow the testing requirements specified in permit condition **3.2(A)(3)** for these sources.
- D) **Reporting VOC Emissions [Sec. 3Q-0508(f)]**
VOC Emissions from Groups 1- 3 shall be reported semi-annually to the Office of Environmental Assistance and Protection. The report shall include the total VOC emissions for each month and the 12-month rolling totals for each month. This report shall be received by this Office by July 30th for the previous months of January through June, and by January 30th for the previous months of July through December.
- E) **Reporting Deviations from Requirements [Sec. 3Q-0508(f)]**
The permittee shall follow the reporting requirements specified in permit condition **3.2(A)(4)** for these sources.

3.5 COMPLIANCE ASSURANCE MONITORING

The following emission sources, control devices, and for the finishing ranges the associated enclosures are subject to the provisions of Sec. 3D-0614 <40 CFR Part 64>:

Table 3.5-1, Summary of Applicable Control Equipment

| Emission Source ID | Emission Source Description | Control Device ID | Control Device Description |
|--------------------|------------------------------------|-------------------|----------------------------|
| ES-33 | # 3 Finishing Range | CD-51 | Solvent Recovery Unit |
| ES-34 | # 4 Finishing Range | CD-51 | Solvent Recovery Unit |
| | | CD-42 | Cor-Pak Thermal Oxidizer |
| ES-36 | # 6 Finishing Range | CD-51 | Solvent Recovery Unit |
| | | CD-42 | Cor-Pak Thermal Oxidizer |
| ES-61 | Solvated Rubber Mixing and Storage | CD-51 | Solvent Recovery Unit |

A) **Standard** [Sec. 3D-0614] <40 CFR Part 64> - Pollutant-specific emissions units (PSEUs) at a facility required to obtain permit under 3Q-0500 shall be subject to the provisions of this Sec., and the requirements of 40 CFR Part 64, based on the following criteria:

- 1) The unit is subject to an emission limitation or standard for the applicable regulated air pollutant;
- 2) The unit uses a control device to achieve compliance with any such emission limitation or standard; and
- 3) The unit has potential pre-control device emissions of the applicable regulated air pollutant that are equal to or greater than 100 tons per year.

B) **Monitoring** [Sec. 3D-0614] <40 CFR Part 64> - The permittee shall conduct the following monitoring of PSEUs at the facility, including enclosures and control devices, to ensure compliance with this Sec., the requirements of 40 CFR Part 64, and the applicable standards:

1) **Control Device Monitoring**

a) **Cor-Pak Thermal Oxidizer (CD-42) for (ES-34, and ES-36)**

| Indicators | Primary Indicators: Combustion Chamber Temperature and VOC % Destruction | Secondary Indicator: Residence Time |
|-----------------------------|---|---|
| Measurement Approach | Combustion chamber temperature shall be monitored with a thermocouple and maintained in accordance with permit condition 3.3(A)(1)(c)(ii) . Flame Ionization Detectors (FIDs) measure the VOC concentration (ppm) at the inlet to the Cor-Pak and VOC concentration (ppm) in the exhaust outlet of the Cor-Pak. The inlet and outlet concentrations are used to calculate the VOC percent destruction efficiency of the Cor-Pak. | Minimum residence time of 0.8 seconds shall be maintained in the combustion chamber in accordance with permit condition 3.3(A)(c)(i) by maintaining air flow capacity #20,000 SCFM (Negative static pressure ≥ 0.3 inches H ₂ O) in the Cor-Pak Oxidizer |

| Indicators | Primary Indicators: Combustion Chamber Temperature and VOC % Destruction | Secondary Indicator: Residence Time |
|--------------------------------|--|---|
| Indicator Range | An excursion is defined as a (3) three hour period during actual solvent coating operations, where average combustion temperature drops below 1400 °F or the VOC percent destruction efficiency drops below 95%. Excursions will automatically shut down the equipment that triggered the excursion. Excursions will also trigger an inspection, corrective action, and a deviation reporting requirement per condition 3.2(A)(4) . | An excursion is defined as a (3) three hour period during actual solvent coating operations where air flow to the device exceeds 20,000 SCFM in the Cor-Pak Oxidizer. Excursions will automatically shut down the equipment that triggered the excursion. Excursions will also trigger an inspection, corrective action, and a deviation reporting requirement per condition 3.2(A)(4) . |
| Data Representativeness | Combustion temperature is measured by a thermocouple located in the combustion chamber. The inlet VOC concentration is measured in the inlet to the Cor-Pak by an FID. The outlet VOC concentration is measured in the Cor-Pak exhaust stack by an FID. Displays for the VOC percent destruction efficiency and the inlet and outlet VOC concentrations are located at the ES-34 Solvent Panel. | The airflow is monitored and controlled by a pressure monitoring and control system located at the entry to the Cor-Pak afterburner. Pressure data is recorded on a paperless recorder. |
| QA/QC Procedures | Instrument and recorders are part of a gauge calibration preventive maintenance program. | The paperless recorders are monitored and memory changed per preventive maintenance procedures. |
| Monitoring Frequency | Measured and recorded electronically on a continuous basis and three hour averages calculated with a minimum of four readings per hour < or = to once every 15 minutes. | Measured and recorded electronically on a continuous basis and three hour averages calculated with a minimum of four readings per hour < or = to once every 15 minutes. |
| Averaging Period | 1 hour | 1 hour |

The monitoring program for this control device incorporates the requirements of Sec. 3Q-0317 & 3D-0530 (Avoidance Conditions & Prevention of Significant Deterioration) and Sec. 3D-0958(e) (VOC Work Practices) for ES-34 and ES-36; and Sec. 3D-0524 (New Source Performance Standards) specifically Subpart VVV of 40 CFR 60 for ES-34.

b) Solvent Recovery Unit (CD-51) for (ES-33, ES-34, ES-36 and ES-61)

| Indicators | Inlet/Outlet VOC ppm |
|-----------------------------|---|
| Measurement Approach | Solvent detectors measure % LEL at the inlet to the SRU and VOC PPM in the outlet. The inlet measurement is converted to PPM to calculate the % efficiency of the SRU. |
| Indicator Range | An excursion is defined as a 3 hour period, during actual solvent coating operations, where the efficiency of the SRU falls below 95% efficiency. Excursions will automatically shut down the equipment that triggered the excursion. Excursions will also trigger an inspection, corrective action, and a deviation reporting requirement per condition 3.2(A)(4) . |

| Indicators | Inlet/Outlet VOC ppm |
|--------------------------------|---|
| Data Representativeness | The %LEL inlet measurement is taken by a solvent detector placed in the inlet to the SRU. The VOC outlet PPM reading is taken by a solvent detector placed in the SRU stack outlet. Inlet and outlet computer displays are located at the ES-34 Solvent Panel and an inlet measurement recorder is located at the Boiler room wall. An outlet VOC PPM computer display and recorder are also located in SRU room. |
| QA/QC Procedures | Instrument and recorders are part of a gauge calibration preventive maintenance program. |
| Monitoring Frequency | Measured and recorded electronically on a continuous basis and three hour averages calculated with a minimum of four readings per hour < or = to once every 15 minutes. |
| Averaging Period | 1 hour |

The monitoring program for this control device incorporates the requirements of Sec. 3D-0958(e)(VOC Work Practices) for ES-33, ES-34, ES-36 and ES-61; Sec. 3Q-0317 & 3D-0530 (Avoidance Conditions & Prevention of Significant Deterioration) for ES-34, ES-36 and ES-61; and Sec. 3D-0524 (New Source Performance Standards) specifically Subpart VVV of 40 CFR 60 for ES-34 and ES-61.

2) **Enclosure Monitoring**
a) **Enclosure for (ES-33)**

| Indicators | Airflow via pressure drop across enclosure |
|--------------------------------|---|
| Measurement Approach | A pressure drop of 0.013 mm Hg (0.007 in. H ₂ O) corresponds to a face velocity (FV) of 3,600 m/hr (200 fpm). Pressure drop will be monitored across the enclosure to assure that 0.007 in H ₂ O is maintained. |
| Indicator Range | An excursion is defined as a five (5) minute period during actual solvent coating operations that the air flow for the total enclosure allows the face velocity to drop to less than 200 feet per minute. Excursions will automatically shut down the equipment that triggered the excursion. Excursions will also trigger an inspection, corrective action, and a deviation reporting requirement per condition 3.2(A)(4) . |
| Data Representativeness | A pressure drop of 0.013 mm Hg (0.007 in. H ₂ O) corresponds to a face velocity (FV) of 3,600 m/hr (200 fpm). Pressure drop across the enclosure is measured by a room monitor unit in the vicinity of ES-33. Pressure drop is to be recorded via paperless recorder. Personnel will not allow the range to operate in the event of an excursion. |
| QA/QC Procedures | Room monitor and paperless recorder are monitored and maintained per preventive maintenance schedules. |
| Monitoring Frequency | Data is recorded on no more than 15-minute increments. |
| Averaging Period | 1 hour |

The monitoring program for this enclosure incorporates the requirements of Sec. 3D-0958(e) (VOC Work Practices).

b) **Enclosure for (ES-34)**

| Indicators | Primary Indicator: Fan Amperage | Secondary Indicator: Pressure drop across enclosure |
|-----------------------------|---|--|
| Measurement Approach | Fan amperage on the primary exhaust system for the total enclosure for ES-34. | Pressure drop across the enclosure will be monitored to assure that 0.007 in H ₂ O is maintained. |

| Indicators | Primary Indicator: Fan Amperage | Secondary Indicator: Pressure drop across enclosure |
|--------------------------------|--|--|
| Indicator Range | An excursion is defined as a (3) three hour period during actual solvent coating operations that Oven Exhaust fan amperage drops below 11.4 amps (5% below 12 amps). Excursions will automatically shut down the equipment that triggered the excursion. Excursions will also trigger an inspection, corrective action, and a deviation reporting requirement per condition 3.2(A)(4) . | An excursion is defined as a five (5) minute period during which the pressure drop falls below 0.007 in H ₂ O, corresponding to a face velocity lower than 200 feet per minute. Excursions will automatically shut down the process equipment and control device. Excursions will also trigger an inspection, corrective action, and a deviation reporting requirement per condition 3.2(A)(4) . |
| Data Representativeness | Fan amperage is measured with ammeters and recorded electronically in the vicinity ES-34. | Pressure drop is recorded on a paperless recorder. Pressure drop is observed by personnel in the vicinity of ES-34 during emission source operation. Personnel will not allow the range to operate in the event of an excursion. |
| QA/QC Procedures | Instrument and recorders are part of a gauge calibration preventive maintenance program and shall be calibrated semi-annually. | The room monitor and recorders are part of a gauge calibration preventive maintenance program and shall be calibrated semi-annually or as specified by the vendor. |
| Monitoring Frequency | Data is recorded on no more than 15- minute increments. | Data is recorded on no more than 15- minute increments. |
| Averaging Period | 1 hour | 1 hour |

The monitoring program for this enclosure incorporates the requirements of Sec. 3D-0958(e) (VOC Work Practices); Sec. 3Q-0317 & 3D-0530 (Avoidance Conditions & Prevention of Significant Deterioration); and Sec. 3D-0524 (New Source Performance Standards) specifically Subpart VVV of 40 CFR 60.

c. Enclosure for (ES-36)

| Indicators | Air Flow via pressure drop across enclosure |
|-----------------------------|---|
| Measurement Approach | A pressure drop of 0.013 mm Hg (0.007 in. H ₂ O) corresponds to a face velocity (FV) of 3,600 m/hr (200 fpm). Pressure drop will be monitored across the enclosure to assure that 0.007 in H ₂ O is maintained. |
| Indicator Range | An excursion is defined as a five (5) minute period during actual solvent coating operations that the air flow for the total enclosure allows the face velocity to drop to less than 200 feet per minute. Excursions will automatically shut down the equipment that triggered the excursion. Excursions will also trigger an inspection, corrective action, and a deviation reporting requirement per condition 3.2(A)(4) . |

| Indicators | Air Flow via pressure drop across enclosure |
|--------------------------------|--|
| Data Representativeness | A pressure drop of 0.013 mm Hg (0.007 in. H ₂ O) corresponds to a face velocity (FV) of 3,600 m/hr (200 fpm). Pressure drop across the enclosure is measured by a room monitor unit in the vicinity of ES-36. Pressure drop is to be recorded via paperless recorder. Personnel will not allow the range to operate in the event of an excursion. |
| QA/QC Procedures | Room monitor and paperless recorder are monitored and maintained per preventive maintenance schedules. |
| Monitoring Frequency | Data is recorded on no more than 15-minute increments. |
| Averaging Period | 1 hour |

The monitoring program for this enclosure incorporates the requirements of Sec. 3D-0958(e) (VOC Work Practices) and Sec. 3Q-0317 & 3D-0530 (Avoidance Conditions & Prevention of Significant Deterioration).

C) Recordkeeping <40 CFR 64.9> [Sec. 3Q-0614]

- 1) The permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.
- 2) In accordance with Sec. 3Q-0508(j), the permittee shall record the operating scenario under which these sources are operating. This shall be recorded contemporaneously with making a change from one operating scenario to another.
- 3) The permittee may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.

D) Reporting <40 CFR 64.9> [Sec. 3Q-0614] - The permittee shall submit a summary report of the compliance assurance monitoring required in permit conditions 3.5(A)-(B) including, as a minimum:

- 1) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
- 2) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with calibration checks; if applicable); and
- 3) A description of the actions taken to implement a QIP (if required by this Office) during the reporting period as specified in 40 CFR 64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.
- 4) These reports shall be received by this Office by July 30th for the previous months of January through June, and by January 30th for the previous months of July through December.

3.6 Site Remediation

Table 3.6-1, Applicable Emission Sources

| Source ID | Source Description | Control Device |
|-----------|------------------------------|------------------------------------|
| ES-90 | Groundwater Stripper | CD-51, Solvent Recovery Unit (SRU) |
| ES-91 | Groundwater/Soil Air Sparger | Uncontrolled |

Table 3.6-2, Summary of Emission Limits, Standards, and Other Applicable requirements

| Regulated Pollutant | Applicable Standard | Applicable Regulation |
|---------------------------------|-------------------------------|-----------------------|
| Hazardous Air Pollutants (HAPs) | 40 CFR Part 63, Subpart GGGGG | Sec. 3D-1111 |

A. National Emissions Standards for Hazardous Air Pollutants: Site Remediation

(40CFR Part 63, Subpart GGGGG) General Requirements <40 CFR Part 63, Subpart GGGGG> [Sec. 3D-1111] - Upon initial start-up of the Groundwater Stripper (ES-90) or Groundwater/Soil Air Sparger (ES-91), the permittee shall be in compliance with 40 CFR Part 63, Subpart GGGGG. ES-90 and ES-91 are not subject to 40 CFR Part 63, Subpart GGGGG, except for the recordkeeping requirements specified below, if the site remediation meets all of the conditions in **Conditions (1) through (3)** below as specified in 40 CFR 63.7881(c):

- 1) The permittee determines for the remediation material that the permittee excavates, extracts, pumps or otherwise removes during the site remediation that the total quantity of the HAP listed in Table 1 of 40 CFR Part 63, Subpart GGGGG which is contained in the material is less than 1 megagram per year (Mg/yr).
- 2) The permittee prepares and maintains at the facility written documentation to support the permittee's determination of the total HAP quantity used to demonstrate compliance with **Condition (1)** above. This documentation must include a description of the permittee's methodology and data the permittee used for determining the total HAP content of the material.
- 3) This exemption may be applied to more than one site remediation at the facility provided that the total quantity of the HAP listed in Table 1 of 40 CFR Part 63, Subpart GGGGG for all of the permittee's site remediation activities exempted under this provision is less than 1 Mg/yr.

3.7 Printing, Coating, Dyeing of Fabrics and Other Textiles [Sec. 3D-1111 & 40 CFR 63, Subpart OOOO]

Table 3.7-1, Applicable Emission Sources

| Source ID | Source Description | Control Device |
|-----------|--|--|
| ES-31 | #18 Finishing Range | CD-123, EviroCare MicroMist venturi scrubber (when SiO ₂ is formed) |
| ES-33 | #3 Finishing Range | CD-51, Solvent Recovery Unit (SRU) |
| ES-34 | #4 Finishing Range | CD-51, SRU or CD-42, Cor-Pak Thermal Oxidizer (includes the Dryer Section, controlled by CD-123, EviroCare MicroMist venturi scrubber when SiO ₂ is formed) |
| ES-35 | #5 Finishing Range | Uncontrolled (except Coater Section controlled by CD-123, EviroCare MicroMist venturi scrubber when SiO ₂ is formed) |
| ES-36 | #6 Finishing Range | CD-51, SRU or CD-42, Cor-Pak Thermal Oxidizer |
| ES-38 | #9 Laminator | Uncontrolled |
| ES-61 | Solvated Rubber Mixing and Storage | CD-51, Solvent Recovery Unit (SRU) |
| ES-62 | Aqueous Coating Mixing and Storage | Uncontrolled |
| ES-81 | Two (2) Above-ground Toluene Storage Tanks | CD-51, Solvent Recovery Unit (SRU) |
| ES-82 | Two (2) Underground Latex Storage Tanks | Uncontrolled |
| ES-83 | Tote Storage | Uncontrolled |

Table 3.7-2, Summary of Emission Limits, Standards, and Other Applicable requirements

| Regulated Pollutant | Applicable Standard | Applicable Regulation |
|---------------------------------|------------------------------|-----------------------|
| Hazardous Air Pollutants (HAPs) | 40 CFR Part 63, Subpart OOOO | Sec. 3D-1111 |

- A) **National Emissions Standards for Hazardous Air Pollutants: Printing, Coating, Dyeing of Fabrics and Other Textiles (40 CFR Part 63, Subpart OOOO) General Requirements** <40 CFR Part 63, Subpart OOOO> [Sec. 3D-1111] - The permittee shall comply with the applicable standards, provisions and requirements of Title 40 of the Code of Federal Regulations Part 63 Subpart OOOO "National Emission Standard for Hazardous Air Pollutants: Printing, Coating, and Dyeing of Fabrics and Other Textiles".
- 1) The permittee may demonstrate compliance with Subpart OOOO using any of the applicable compliance options listed in Subpart OOOO as long as the permittee satisfies all of the requirements applicable to the compliance option(s) used. The affected source at the facility consists of items in the web coating and

printing subcategory of Subpart OOOO, as described in 40 CFR 63.4282(b). This permit specifically describes standards, provisions and requirements for two compliance options: **The Emission Rate Without Add-On Controls Option** and the **Emission Rate With Add-On Controls Option**.

<40 CFR 63.4281(a)(1), 63.4282(b) and 63.4291(a)> [Sec. 3D-1111]

- 2) The Permittee You may apply any one of the compliance options in Conditions 3.7(B) and 3.7(C) to an individual web coating/printing operation, or to multiple web coating / printing operations in the affected source as a group, or to the entire affected source in the web coating and printing subcategory. The Permittee may also use different compliance options for different web coating/printing operations or at different times on the same web coating/printing operation. However, the Permittee may **not** use different compliance options at the same time on the same web coating/printing operation. If you switch between compliance options for any web coating/printing operation or group of operations, you must document this switch as required by **Condition 3.7(G)(3)**, and it must be reported in the next semiannual compliance report as required by permit **Condition 3.7(F)(1)**.
<40 CFR 63.4291(a)> [Sec. 3D-1111]
 - 3) At all times the Permittee must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the permittee to make any further efforts to reduce emissions if levels required by the applicable standard have been achieved. Determination of whether a source is operating in compliance with operation and maintenance requirements will be based on information available to the Director of the Forsyth County Office of Environmental Assistance and Protection, which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the affected source.
<40 CFR 63.4300(b)> [Sec. 3D-1111]
- B) **Emission Limit: Emission Rate Without Add-On Controls Option.** <40 CFR 63.4291(a)(2), 63.4331(a) and Table 1 to Subpart OOOO of 40 CFR Part 63> [Sec. 3D-1111] - The permittee shall demonstrate that, based on the regulated materials applied in the web coating/printing operations, the organic HAP emission rate for the web coating/printing operations is less than or equal to 0.12 kg of organic HAP per 1 kg of solids applied, calculated as a rolling 12-consecutive-month average emission rate.
- 1) The permittee may use the *Emission Rate Without Add-On Controls Option* for any individual web coating/printing operation, for any group of web coating/ printing operations in the affected source, or for all of the web coating/ printing operations as a group in the affected source. For any web coating/ printing operation in the affected source for which the permittee does not use the *Emission Rate Without Add-On Controls Option*, the permittee must use one or more of the other compliance options listed in 40 CFR Part 63 Subpart OOOO.
 - 2) The permittee must meet all the requirements of permit **Condition 3.7(D)** to demonstrate continuous compliance with the applicable emission limit using this option.
- C) **Emission Limit: Emission Rate With Add-On Controls Option.** <40 CFR 63.4291(a)(3), 63.4292(c), 63.4341(a), 63.4364(d) and Table 1 to Subpart OOOO of 40 CFR Part 63> [Sec. 3D-1111]

- 1) The permittee shall demonstrate that, based on the regulated materials applied in the web coating/printing operations, and the organic HAP emissions reductions achieved by emission capture systems and add-on controls, the organic HAP emission rate for the web coating/printing operations is less than or equal to **0.12 kg of organic HAP per kg of solids applied**, calculated as a rolling 12-consecutive-month average emission rate.
- 2) The permittee may use the *Emission Rate With Add-On Controls Option* for any individual web coating/printing operation, for any group of web coating/printing operations in the affected source, or for all of the web coating/printing operations in the affected source.
- 3) The permittee may include both controlled and uncontrolled web coating/ printing operations in a group for which this option is used. For any web coating/printing operation in the affected source for which the permittee does not use the *Emission Rate With Add-On Control Option*, the permittee must use one or more of the other compliance options listed in 40 CFR Part 63 Subpart OOOO.
- 4) If the *Emission Rate With Add-On Controls Option* is used, the permittee must also demonstrate that all capture systems and control devices for the web coating / printing operations meet the operating limits described in **Conditions 3.7(E)(1) and (2)** below, except for solvent recovery systems for which liquid-liquid material balances are conducted according to permit **Condition 3.7(E)(9)(e)**.
- 5) If the *Emission Rate With Add-On Controls Option* is used, the permittee must also demonstrate that the work practice standards required in **Condition 3.7(C)(8)** are met. The permittee must meet all the requirements of permit **Condition 3.7(E)** and 40 CFR 63.4360 through 63.4364 to demonstrate compliance with the emission limits, operating limits, and work practice standards using this option.
- 6) **Thermal Oxidizer Operating Limit:** <40 CFR 63.4292(b), 63.4364(c) and Table 2 to Subpart OOOO of 40 CFR Part 63> [Sec. 3D-1111] - The average oxidizer combustion temperature in any 3-hour block period must not fall below 1400 °F. Continuous compliance with the operating limit must be demonstrated by:
 - a) Collecting the temperature data according to **Conditions 3.7(C)(6)(a)(i) through (iii)** below:
 - i) The permittee shall install, calibrate, maintain, and operate temperature monitoring equipment according to the manufacturer's specifications.
 - ii) The calibration of the chart recorder, data logger, or temperature indicator must be verified every *three (3)* months, or the chart recorder, data logger, or temperature indicator must be replaced.
 - iii) The permittee shall install, calibrate, operate, and maintain a temperature monitoring device equipped with a continuous recorder. The device must have an accuracy of ± 1 percent of the temperature being monitored in degrees Celsius, or ± 1 degree Celsius, whichever is greater. The thermocouple or temperature sensor must be installed in the combustion chamber at a location in the combustion zone.
<40 CFR 63.4364(c)(i) and (ii)> [Sec. 3D-1111]
 - b) Reducing the data to 3-hour block averages.
 - c) Maintaining the 3-hour block average temperature at or above the 1400°F temperature limit.
<Table 2 to Subpart OOOO of 40 CFR Part 63> [Sec. 3D-1111]
- 7) **Emission Capture System Operating Limit:** <40 CFR 63.4292(b), 63.4364(e) and Table 2 to Subpart OOOO of 40 CFR Part 63> [Sec. 3D-1111] - The

enclosures for Finishing Range #3 (ES-33), Finishing Range #4 (ES-34), and Finishing Range #6 (ES-36) shall be operated and maintained in accordance with the emission capture system monitoring plan described in permit **Condition 3.7(B)(2)** *except* for web coating/printing operations for which the permittee uses a solvent recovery system and conducts a liquid-liquid material balance according to permit **Condition 3.7(E)(9)(e)**.

a) Any deviation from the operating parameter value or range of values which are monitored according to the plan will be considered a deviation from the operating limit.

<40 CFR 63.4364(e)(4)> [Sec. 3D-1111]

b) The permittee must review and update the capture system monitoring plan at least annually.

<40 CFR 63.4364(e)(5)> [Sec. 3D-1111]

8) **Work Practice Standards** – In addition to the requirements set forth in permit Condition 3.7(A)(3), the permittee must develop and implement a work practice plan to minimize organic HAP emissions from the storage, mixing, and conveying of regulated materials used in, and waste materials generated by, the coating / printing operations for which the *Emission Rate With Add-On Controls Option* is used. The plan must specify practices and procedures to ensure that, at a minimum, the practices specified in (a) through (e) below are implemented:

a) All organic-HAP-containing regulated materials and waste materials must be stored in closed containers.

b) Spills of organic-HAP-containing regulated materials, and waste materials must be minimized.

c) Organic-HAP-containing regulated materials and waste materials must be conveyed from one location to another in closed containers or pipes.

d) Mixing vessels that contain organic-HAP-containing regulated materials must be closed except when adding to, removing, or mixing the contents.

e) Emissions of organic HAP must be minimized during cleaning of web coating/ printing storage, mixing, and conveying equipment.

<40 CFR 4293(b)(1) through (5) *ibid.* §63.4300(b)> [Sec. 3D-1111]

9) **Compliance Testing Requirements** – The Permittee must demonstrate continuous compliance with each applicable operating limit required by 40 CFR 63.4292, as specified in Table 2 of 40 CFR 63, Subpart OOOO, and must conduct periodic performance tests as specified below:

a) If using the *Emission Rate With Add-On Controls Option* (except for solvent recovery systems for which you conduct liquid-liquid material balances according to 40 CFR 63.4351(d)(5)), within 5 years following the previous performance test, you must conduct, according to the procedures in 40 CFR §63.4360, §63.4361, and §63.4362, a periodic performance test of each capture system and add-on control device used, and you must establish the operating limits as required by 40 CFR 63.4292.

b) The first periodic performance test must be conducted before March 15, 2022. Thereafter you must conduct a performance test no later than 5 years following the previous performance test. Operating limits must be confirmed or reestablished during each performance test.

c) Performance test data shall be reported to the US EPA Administrator pursuant to the requirements specified in **Condition 3.7(F)(1)(e)**.

<40 CFR 63.4342(c)(3)> [Sec. 3D-1111]

- D) **Continuous Compliance Demonstration Requirements: Emission Rate Without Add-On Controls Option.** <40 CFR 63.4332> [Sec. 3D-1111] - If using the Emission Rate Without Add-On Controls Option, continuous compliance shall be demonstrated according to the applicable requirements in **Conditions 3.7(D)(1) through (5)** below:
- 1) To demonstrate continuous compliance, the organic HAP emission rate for each compliance period, determined according to **Condition 3.7(D)(5)** for web coating/printing operations, shall be less than or equal to 0.12 kg of organic HAP per 1 kg of solids applied, calculated as a rolling 12-consecutive-month average emission rate. Each month is a compliance period consisting of that month and the preceding 11 months. The calculations as described in **Condition 3.7(D)(5)** must be performed on a *monthly* basis.
<40 CFR 63.4332(a)> [Sec. 3D-1111]
 - 2) If the organic HAP emission rate for any compliance period exceeded the applicable emission limit in permit **Condition 3.7(D)(1)**, this is a deviation from the emission limitations for that compliance period and must be reported as specified in permit **Condition 3.7(F)(1)(d)**.
<40 CFR 63.4332(b)> [Sec. 3D-1111]
 - 3) As part of each semiannual compliance report required by permit **Condition 3.7(F)(1)**, the permittee shall identify any web coating/printing operation for which the Emission Rate Without Add-On Controls Option was used. If there were no deviations from the applicable emission limit in permit **Condition 3.7(D)(1)**, a statement must be submitted indicating that, as appropriate, the web coating/printing operations were in compliance with the emission limitations during the reporting period because the organic HAP emission rate for each compliance period was less than or equal to the applicable emission limit.
<40 CFR 63.4332(c)> [Sec. 3D-1111]
 - 4) The permittee shall maintain records as specified in permit **Condition 3.7(G)**.
<40 CFR 63.4332(d)> [Sec. 3D-1111]
 - 5) The permittee shall meet all the requirements of **Condition 3.7(D)(5)(a) through (f)** below to demonstrate compliance with the applicable emission limit in permit condition **3.7(D)(1)** for the web coating/printing operations using the *Emission Rate Without Add-On Controls Option*. When calculating the organic HAP emission rate according to this condition, **do not include** any coating, printing, thinning, or cleaning materials applied on web coating/printing operations for which any of the other compliance options listed in 40 CFR Part 63 Subpart OOOO is used. Use the procedures in this condition on each regulated material in the condition it is in when it is received from its manufacturer or supplier and prior to any alteration. The regulated materials for the web coating and printing category are the coating, printing, thinning and cleaning materials, as defined in 40 CFR 63.4371, used at the affected source.
<40 CFR 63.4282(b), 63.4331(a) and 63.4332(a)> [Sec. 3D-1111]
 - a) **Determine the mass fraction of organic HAP for each material**
Determine the mass fraction of organic HAP for each coating, printing, thinning, and cleaning material applied during the compliance period by using one of the options in **Conditions (i) through (v)** below. Determine the mass fraction of organic HAP for each printing material applied during the compliance period by using the option in **Condition (iv)** below:
<40 CFR 63.4331(a)(1) and 63.4321(e)(1)> [Sec. 3D-1111]

- i) **Method 311** (Appendix A to 40 CFR Part 63) - Method 311 may be used for determining the mass fraction of organic HAP. Use the procedures specified in **Conditions (A) and (B)** below when performing a Method 311 test.
 <40 CFR 63.4321(e)(1)(i)> [Sec. 3D-1111]
 A) Count each organic HAP that is measured to be present at 0.1% by mass or more for Occupational Safety and Health Administration (OSHA)-defined carcinogens as specified in 29 CFR 1910.1200(d)(4) and at 1.0 percent by mass or more for other compounds. Express the mass fraction of each organic HAP counted as a value truncated four (4) places after the decimal point.
 <40 CFR 63.4321(e)(1)(i)(A)> [Sec. 3D-1111]
 B) Calculate the total mass fraction of organic HAP in the regulated material being tested by adding up the individual organic HAP mass fractions and truncating the result to no more than three places after the decimal point.
 <40 CFR 63.4321(e)(1)(i)(B)> [Sec. 3D-1111]
- ii) **Method 24** (Appendix A to 40 CFR Part 60) - Method 24 may be used to determine the mass fraction of non-aqueous volatile matter and use that value as a substitute for mass fraction of organic HAP. For a multi-component coating with reactive chemicals, the permittee may use Method 24 on the coating as applied to determine the mass fraction of non-aqueous volatile matter and use that value as a substitute for the mass fraction of organic HAP determined from the sum of organic HAP in each component.
 <40 CFR 63.4321(e)(1)(ii)> [Sec. 3D-1111]
- iii) **Alternative method** - An alternative test method may be used for determining the mass fraction of organic HAP, mass fraction of solids, or fraction of organic HAP emitted from a reactive coating once the U.S. EPA has approved it. The permittee shall follow the procedure in 40 CFR 63.7(f) to submit an alternative test method for approval.
 <40 CFR 63.4321(e)(1)(iii)> [Sec. 3D-1111]
- iv) **Information from the supplier or manufacturer of the material** - The permittee may rely on information other than that generated by the test methods specified in **Conditions (i) through (iii)** above, such as manufacturer's formulation data, if it represents each organic HAP that is present at 0.1% by mass or more for OSHA-defined carcinogens as specified in 29 CFR 1910.1200(d)(4) and at 1.0% by mass or more for other compounds. If there is a disagreement between such information and results of a test conducted according to **Conditions (i) through (iii)** above on coating, thinning, or cleaning material, then the test method results will take precedence. Information from the supplier or manufacturer of the printing material is sufficient for determining the mass fraction of organic HAP.
 <40 CFR 63.4321(e)(1)(iv)> [Sec. 3D-1111]
- v) **Solvent blends** - Solvent blends may be listed as single components for some materials in data provided by manufacturers or suppliers. Solvent blends may contain organic HAP that must be counted toward the total organic HAP mass fraction of the materials. When test data and manufacturer's data for solvent blends are not available, the default

values for the mass fraction of organic HAP in these solvent blends listed in Table 4 or Table 5 to Subpart OOOO may be used. If using the tables, the permittee shall use the values in Table 4 for all solvent blends that match Table 4 entries, and Table 5 may only be used if the solvent blends in the materials used do not match any of the solvent blends in Table 4 and it is only known whether the blend is aliphatic or aromatic. However, if the results of a Method 311 test indicate higher values than those listed on Table 4 or Table 5 to Subpart OOOO, the Method 311 results will take precedence.

<40 CFR 63.4321(e)(1)(v)> [Sec. 3D-1111]

- b) **Determination of Mass-fraction of Solids** - Determine the mass fraction of solids (kg of solids per kg of coating or printing material) for each coating material applied during the compliance period by a test or by information provided by the supplier or the manufacturer of the material, as specified in **Conditions (i) through (iii)** below. If test results obtained according to **Condition (i) or (ii)** below for a coating material do not agree with the information obtained under **Condition (iii)** below, the test results will take precedence. To determine mass fraction of solids for each printing material applied during the compliance period, information provided by the supplier or manufacturer of the material should be used, as specified in **Condition (iii)** below:

<40 CFR 63.4321(e)(2) and 63.4331(a)(2)> [Sec. 3D-1111]

- i) **Method 24** (Appendix A to 40 CFR Part 60) - Method 24 may be used for determining the mass fraction of solids of coating materials. <40 CFR 63.4321(e)(2)(i)> [Sec. 3D-1111]
 - ii) **Alternative method** - An alternative test method may be used for determining solids content of each coating material once the U.S. EPA has approved it. The permittee shall follow the procedure in 40 CFR 63.7(f) to submit an alternative test method for approval. <40 CFR 63.4321(e)(2)(ii)> [Sec. 3D-1111]
 - iii) Information from the supplier or manufacturer of the material - The mass fraction of solids for each coating and printing material may be obtained from the supplier or manufacturer. If there is disagreement between such information and the test method results for a coating material, then the test method results will take precedence. <40 CFR 63.4321(e)(2)(iii)> [Sec. 3D-1111]
- c) **Determine the Mass of Each Material** - Determine the mass (kg) of each coating, printing, thinning, or cleaning material applied during the compliance period by measurement or usage records. <40 CFR 63.4331(a)(3)> [Sec. 3D-1111]
- d) **Calculate the Mass of Organic HAP Emissions** - The mass of organic HAP emissions is the combined mass of organic HAP contained in all coating, printing, thinning, and cleaning materials applied during the compliance period minus the organic HAP in certain waste materials. Calculate the mass of organic HAP emissions using **Equation 3.7-1** below: <40 CFR 63.4331(a)(4)> [Sec. 3D-1111]

$$H_e = A + B - R_w \quad (\text{Equation 3.7-1})$$

Where:

- H_e = Mass of organic HAP emissions during the compliance period, kg.
 A = Total mass of organic HAP in the coating and printing materials applied during the compliance period, kg, as calculated in **Equation 3.7-1A** in **Condition (i)**.
 B = Total mass of organic HAP in the thinning and cleaning materials applied during the compliance period, kg, as calculated in **Equation 3.7-1B** in **Condition (ii)**.
 R_w = Total mass of organic HAP in waste materials sent or designated for shipment to a hazardous waste TSDf for treatment or disposal during the compliance period, kg, determined according to **Condition (iii)**. (A value of zero may be assigned to R_w if it is decided not to use this allowance.)

- i) Calculate the kg organic HAP in the coating and printing materials applied during the compliance period using **Equation 3.7-1A** below:
 <40 CFR 63.4331(a)(4)(i)> [Sec. 3D-1111]

$$A = \sum_{i=1}^m (M_{c,i})(W_{c,i}) \quad (\text{Equation 3.7-1A})$$

Where:

- A = Total mass of organic HAP in the coating and printing materials applied during the compliance period, kg.
 $M_{c,i}$ = Total mass of coating or printing material, i , applied during the compliance period, kg.
 $W_{c,i}$ = Mass fraction of organic HAP in coating or printing material, i , kg organic HAP per kg of material.
 m = Number of different coating and printing, materials applied during the compliance period.
- ii) Calculate the kg of organic HAP in the thinning and cleaning materials applied during the compliance period using **Equation 3.7-1B** below:
 <40 CFR 63.4331(a)(4)(ii)> [Sec. 3D-1111]

$$B = \sum_{j=1}^n (M_{t,j})(W_{t,j}) \quad (\text{Equation 3.7-1B})$$

Where:

- B = Total mass of organic HAP in the thinning and cleaning materials applied during the compliance period, kg.
 $M_{t,j}$ = Total mass of thinning or cleaning material, j , applied during the compliance period, kg.
 $W_{t,j}$ = Mass fraction of organic HAP in thinning or cleaning material, j , kg organic HAP per kg thinning or cleaning material.

- n = Number of different thinning and cleaning materials applied during the compliance period.
- iii) If accounting for the mass of organic HAP contained in waste materials sent or designated for shipment to a hazardous waste TSDF in **Equation 3.7-1**, R_w , then it must be determined according to **Conditions (A) through (D)** below:
- <40 CFR 63.4331(a)(4)(iii)> [Sec. 3D-1111]
- A) The only waste materials that may be included in the determination are those generated by web coating/printing operations that will be included in the calculations using **Equation 3.7-1** above and that will be treated or disposed of by a facility that is regulated as a TSDF under 40 CFR Part 262, 264, 265, or 266. The TSDF may be either off-site or on-site. Organic HAP contained in wastewater may not be included.
<40 CFR 63.4331(a)(4)(iii)(A)> [Sec. 3D-1111]
- B) Determine either the amount of the waste materials sent to a TSDF during the compliance period or the amount collected and stored during the compliance period designated for future transport to a TSDF. Do not include in the determination any waste materials sent to a TSDF during a compliance period if they have already been included in the amount collected and stored during that compliance period or a previous compliance period.
<40 CFR 63.4331(a)(4)(iii)(B)> [Sec. 3D-1111]
- C) Determine the total mass of organic HAP contained in the waste materials specified in **Condition (B)** above.
<40 CFR 63.4331(a)(4)(iii)(C)> [Sec. 3D-1111]
- D) Document the methodology used to determine the amount of waste materials and the total mass of organic HAP they contain, as required in permit condition **3.7(G)(7)**. To the extent that waste manifests include this, they may be used as part of the documentation of the amount of waste materials and mass of organic HAP contained in them.
<40 CFR 63.4331(a)(4)(iii)(D)> [Sec. 3D-1111]
- e) **Calculate the total mass of coating and printing solids** - Determine the total mass of coating and printing solids applied, kg, which is the combined mass of the solids contained in all the coating and printing materials applied during the compliance period, using **Equation 3.7-2** below:
<40 CFR 63.4331(a)(5)> [Sec. 3D-1111]

$$H_t = \sum_{i=1}^m (M_{c,i})(W_{f,i}) \quad (\text{Equation 3.7 - 2})$$

Where:

H_t = Total mass of solids contained in coating and printing materials applied during the compliance period, kg.

- $M_{c,i}$ = Mass of coating or printing material, i , applied during the compliance period, kg.
- $W_{f,i}$ = Mass fraction of solids in coating or printing material, i , applied during the compliance period, kg solids per kg of coating or printing material.
- m = Number of coating and printing materials applied during the compliance period.

- f) **Calculate the organic HAP emission rate for the compliance period**, kg organic HAP emitted per kg solids used, using **Equation 3.7-3** below:
<40 CFR 63.4331(a)(6)> [Sec. 3D-1111]

$$H_{yr} = \frac{H_e}{H_t} \quad (\text{Equation 3.7-3})$$

Where:

- H_{yr} = Organic HAP emission rate for the compliance period, kg of organic HAP emitted per kg of solids in coating and printing materials applied.
- H_e = Total mass organic HAP emissions from all coating, printing, thinning, and cleaning materials applied during the compliance period, kg, as calculated by **Equation 3.7-1**.
- H_t = Total mass of coating and printing solids in materials applied during the compliance period, kg, as calculated by **Equation 3.7-2**.

- E) **Continuous Compliance Demonstration Requirements: Emission Rate With Add-On Controls Option** - If using the Emission Rate With Add-On Controls Option, continuous compliance shall be demonstrated according to the applicable requirements in **Conditions (1) through (9)** below. The permittee may include both controlled and uncontrolled web coating/printing operations in a group for which this option is used.
<40 CFR 63.4342 and 63.4341(a)> [Sec. 3D-1111]

- 1) To demonstrate continuous compliance with the applicable emission limit in permit condition **3.7(C)**, the organic HAP emission rate for each compliance period, determined according to **Condition 3.7(E)(9)** below for web coating/printing operations, must be equal to or less than the applicable emission limit in permit condition **3.7(C)**. Each month is a compliance period consisting of that month and the preceding 11 months. The calculations in **Condition 3.7(E)(9)** below must be performed on a monthly basis.
<40 CFR 63.4342(a)> [Sec. 3D-1111]
- 2) If the organic HAP emission rate with add-on controls for any compliance period exceeded the applicable emission limit in permit condition **3.7(C)**, this is a deviation from the emission limitation for that compliance period and must be reported as specified in permit condition **3.7(F)(1)(e)**.
<40 CFR 63.4342(b)> [Sec. 3D-1111]
- 3) As part of each semiannual compliance report required in permit condition **3.7(F)(1)**, the permittee shall identify the coating/printing operations for which the Emission Rate With Add-On Controls Option was used. If there were no deviations from the applicable emission limit in permit condition **3.7(C)**, a statement must be

submitted indicating that, as appropriate, the web coating/printing operations were in compliance with the emission limitations during the reporting period because the organic HAP emission rate for each compliance period was less than or equal to the applicable emission limit in permit condition **3.7(C)**, and the operating limits required by permit condition **3.7(C)(1) and (2)** and the work practice standards required by permit condition **3.7(C)(8)** were achieved during each compliance period.

<40 CFR 63.4342(f)> [Sec. 3D-1111]

- 4) The permittee shall maintain records as specified in permit condition **3.7(G)**.
<40 CFR 63.4342(j)> [Sec. 3D-1111]
- 5) The permittee shall demonstrate continuous compliance with each operating limit required by permit conditions **3.7(C)(1) and (2)**.
<40 CFR 63.4342(c)> [Sec. 3D-1111]
 - i) If an operating parameter is out of the allowed range specified in permit conditions **3.7(C)(1) or (2)**, this is a deviation from the operating limit that must be reported as specified in permit condition **3.7(F)(1)(e)**.
<40 CFR 63.4342(c)(1)> [Sec. 3D-1111]
 - ii) If an operating parameter deviates from the operating limit specified in permit conditions **3.7(C)(1) or (2)**, then it must be assumed that the emission capture system and add-on control device were achieving zero efficiency during the time period of the deviation. For the purposes of completing the compliance calculations specified in permit condition **3.7(E)(9)(d)** the regulated materials applied during a deviation on a controlled coating/printing must be treated as if they were applied on an uncontrolled coating/printing operation for the time period of the deviation, as indicated in **Equation 3.7-4** for a web coating/printing operation.
<40 CFR 63.4342(c)(2)> [Sec. 3D-1111]
- 6) The permittee shall meet the requirements for bypass lines in 40 CFR 63.4364(b) for controlled coating/printing operations for which liquid-liquid material balances are not conducted. If any bypass line is opened and emissions are diverted to the atmosphere when the web coating/printing operation is running, this is a deviation that must be reported as specified in permit **Condition 3.7(F)(1)(e)**. For the purposes of completing the compliance calculations specified in permit **Condition 3.7(E)(9)(d)**, the coating, printing, thinning, and cleaning materials applied during a deviation on a controlled web coating/printing operation must be treated as if they were used on an uncontrolled web coating/printing operation for the time period of the deviation, as indicated in **Equation 3.7-4**.
<40 CFR 63.4342(d)> [Sec. 3D-1111]
- 7) The permittee shall, at all times, maintain and operate affected sources, including associated control and monitoring equipment, in a manner consistent with good air pollution control practices, and demonstrate continuous compliance with the work practice standards in permit **Condition 3.7(C)(8)**. If a work practice plan was not developed, or the plan was not implemented, or the records required by permit **Condition 3.7(G)(9)(g)** were not kept, this is a deviation from the work practice standards that must be reported as specified in permit **Condition 3.7(F)(1)(e)**. Determination of whether a source is operating in compliance with operation and maintenance in compliance with work practice standards will be based on information available to the Director of the Forsyth County Office of Environmental Assistance and Protection.
<40 CFR 63.4342(e) and (h)> [Sec. 3D-1111]

- 8) **Compliance with Web Coating/Printing Emission Limits** - The permittee shall follow the procedures in **Conditions 3.7(E)(8)(a) through (g) below** to demonstrate compliance with the applicable web coating/printing emission limit in permit **Condition 3.7(C)** for the web coating/printing operations using the *Emission Rate With Add-On Controls Option*. The permittee may include both controlled and uncontrolled web coating/printing operations in a group for which this option is used. When calculating the organic HAP emission rate according to this condition, do not include any coating, printing, thinning, or cleaning materials applied on web coating/printing operations for which any of the other compliance options listed in 40 CFR Part 63 Subpart OOOO is used.
- <40 CFR 63.4341(a), 63.4341(e) and 63.4342(a)> [Sec. 3D-1111]
- a) **Determine the mass fraction of organic HAP, the mass fraction of solids, and mass of materials** - Follow the procedures specified in permit condition **3.7(D)(5)(a), (b) and (c)** to determine the mass fraction of organic HAP for each coating, printing, thinning, and cleaning material applied during the compliance period; the mass fraction of solids for each coating and printing material applied during the compliance period; and mass of each coating, printing, thinning, and cleaning material applied during the compliance period. <40 CFR 63.4341(e)(1)> [Sec. 3D-1111]
- b) **Calculate the mass of organic HAP emissions before add-on controls** - Using **Equation 3.7-1** of permit **Condition 3.7(D)(5)(d)**, calculate the mass of organic HAP emissions before add-on controls from all coating, printing, thinning, and cleaning materials applied during the compliance period minus the organic HAP in certain waste materials in the web coating/printing operation or group of web coating/printing operations for which the Emission Rate With Add-On Controls Option is used. <40 CFR 63.4341(e)(2)> [Sec. 3D-1111]
- c) **Calculate the organic HAP emissions reductions for each controlled web coating/ printing operation** - Determine the mass of organic HAP emissions reduced for each controlled web coating/printing operation during the compliance period. The emissions reductions determination quantifies the total organic HAP emissions that pass through the emission capture system and are destroyed or removed by the add-on control device. Use the procedures in **Condition 3.7(E)(8)(d)** of this condition to calculate the mass of organic HAP emissions reductions for each controlled web coating/printing operation using an emission capture system and add-on control device other than a solvent recovery system for which liquid-liquid material balances are conducted. For each controlled web coating/printing operation using a solvent recovery system for which a liquid-liquid material balance is conducted, use the procedures in **Condition 3.7(E)(8)(e)** of this condition to calculate the organic HAP emissions reductions. <40 CFR 63.4341(e)(3)> [Sec. 3D-1111]
- d) **Calculate the organic HAP emission reduction for each controlled web coating/printing operation not using liquid-liquid material balance** - For each controlled web coating/printing operation using an emission capture system and add-on control device, other than a solvent recovery system for which liquid-liquid material balances are conducted, calculate the organic HAP emissions reductions using **Equation 3.7-4** of this condition. The equation applies the emission capture system efficiency and add-on control device efficiency to the mass of organic HAP contained in the coating, printing,

thinning, and cleaning materials applied in the web coating/printing operation served by the emission capture system and add-on control device during the compliance period. For any period of time a deviation specified in permit **Condition 3.7(E)(5) or (6)** occurs in the controlled web coating/printing operation; then zero efficiency must be assumed for the emission capture system and add-on control device. **Equation 3.7-4** below treats the coating, printing, thinning, and cleaning materials applied during such a deviation as if they were used on an uncontrolled web coating/printing operation for the time period of the deviation.

<40 CFR 63.4341(e)(4)> [Sec. 3D-1111]

$$H_C = (A_I + B_I - H_{UNC}) \left(\frac{CE}{100} \times \frac{DRE}{100} \right) \quad (\text{Equation 3.7-4})$$

Where:

- H_C = Mass of organic HAP emission reduction for the controlled web coating/printing operation during the compliance period, kg.
- A_I = Total mass of organic HAP in the coating and printing materials applied in the controlled web coating/printing operation during the compliance period, kg, as calculated in **Equation 3.7-4A**.
- B_I = Total mass of organic HAP in the thinning and cleaning materials applied in the controlled web coating/printing operation during the compliance period, kg, as calculated in **Equation 3.7-4B**.
- H_{UNC} = Total mass of organic HAP in the coating, printing, thinning, and cleaning materials applied during all deviations specified in permit conditions **3.7(E)(5) and (6)** that occurred during the compliance period in the controlled web coating/printing operation, kg, as calculated in **Equation 3.7-4C**.
- CE = Capture efficiency of the emission capture system vented to the add-on control device, percent.
- DRE = Organic HAP destruction or removal efficiency of the add-on control device, percent.

- i) Calculate, A_I , the total mass of organic HAP in the coating and printing materials applied in the controlled web coating/printing operations during the compliance period, kg, using **Equation 3.7-4A** below:

<40 CFR 63.4341(e)(4)(i)> [Sec. 3D-1111]

$$A_I = \sum_{i=1}^m (M_{c,i}) (W_{c,i}) \quad (\text{Equation 3.7-4A})$$

Where:

- A_I = Total mass of organic HAP in the coating and printing materials applied in the controlled web coating/printing operations during the compliance period, kg.
- $M_{c,i}$ = Mass of coating or printing material, i , applied during the compliance period, kg.

- $W_{c,i}$ = Mass fraction of organic HAP in coating or printing material, i , kg per kg.
 m = Number of different coating and printing materials applied during compliance period.

- ii) Calculate, B_I , the total mass of organic HAP in the thinning and cleaning materials applied in the controlled web coating/printing operations during the compliance period, kg, using **Equation 3.7-4B** below:
 <40 CFR 63.4341(e)(4)(ii)> [Sec. 3D-1111]

$$B_I = \sum_{j=1}^n (M_{t,j})(W_{t,j}) \quad (\text{Equation } 3.7 - 4B)$$

Where:

- B_I = Total mass of organic HAP in the thinning and cleaning materials applied in the controlled web coating/printing operations during the compliance period, kg.
 $M_{t,j}$ = Total mass of thinning or cleaning material, j , applied during the compliance period, kg.
 $W_{t,j}$ = Mass fraction of organic HAP in thinning or cleaning material, j , kg per kg.
 n = Number of different thinning and cleaning materials applied during the compliance period.

- iii) Calculate the mass of organic HAP in the coating, printing, thinning, and cleaning materials applied in the controlled web coating/printing operation during deviations specified in permit conditions **3.7(E)(5) and (6)**, using **Equation 3.7-4C** below:
 <40 CFR 63.4341(e)(4)(iii)> [Sec. 3D-1111]

$$H_{UNC} = \sum_{h=1}^q (M_h)(W_h) \quad (\text{Equation } 3.7 - 4C)$$

Where:

- H_{UNC} = Total mass of organic HAP in the coating, printing, thinning, and cleaning materials applied during all deviations specified in permit conditions **3.7(E)(5) and (6)** that occurred during the compliance period in the controlled web coating/printing operation, kg.
 M_h = Total mass of coating, printing, thinning, or cleaning material, h , applied in the controlled web coating/printing operation during deviations, kg.
 W_h = Mass fraction of organic HAP in coating, printing, thinning, or cleaning material, h , kg organic HAP per kg material.
 q = Number of different coating, printing, thinning, and cleaning materials applied and used.

- e) **Calculate the organic HAP emissions reductions for controlled web coating/printing operation using liquid-liquid material balances** - For each controlled web coating/printing operation using a solvent recovery system for which liquid-liquid material balances are conducted, calculate the organic HAP emissions reductions by applying the volatile organic matter collection and recovery efficiency to the mass of organic HAP contained in the coating, printing, thinning, and cleaning materials applied in the web coating/printing operation controlled by the solvent recovery system during the compliance period. Perform a liquid-liquid material balance for the compliance period as specified in **Conditions 3.7(E)(9)(e)(i) through (v)** below. Calculate the mass of organic HAP emissions reductions by the solvent recovery system as specified in **Condition 3.7(E)(9)(e)(vi)** below:
- <40 CFR 63.4341(e)(5)> [Sec. 3D-1111]
- i) For each solvent recovery system, install, calibrate, maintain, and operate according to the manufacturer's specifications, a device that indicates the cumulative amount of volatile organic matter recovered by the solvent recovery system for the compliance period. The device must be initially certified by the manufacturer to be accurate to within ± 2.0 percent of the mass of volatile organic matter recovered.
<40 CFR 63.4341(e)(5)(i)> [Sec. 3D-1111]
 - ii) For each solvent recovery system, determine the mass of volatile organic matter recovered for the compliance period, kg, based on measurement with the device required in **Condition 3.7(E)(9)(e)(i)** above.
<40 CFR 63.4341(e)(5)(ii)> [Sec. 3D-1111]
 - iii) Determine the mass fraction of volatile organic matter for each coating, printing, cleaning, and thinning material applied in the web coating/printing operation controlled by the solvent recovery system during the compliance period, kg volatile organic matter per kg coating, printing, cleaning, and thinning material. The volatile organic matter mass fraction may be determined using Method 24 of 40 CFR Part 60, Appendix A, or an EPA approved alternative method, or information provided by the manufacturer or supplier of the coating or printing material may be used. In the event of any inconsistency between information provided by the manufacturer or supplier and the results of Method 24 of 40 CFR Part 60, Appendix A, or an approved alternative method, the test method results will govern.
<40 CFR 63.4341(e)(5)(iii)> [Sec. 3D-1111]
 - iv) Measure the mass of each coating, printing, thinning, and cleaning material applied in the web coating/printing operation controlled by the solvent recovery system during the compliance period, kg.
<40 CFR 63.4341(e)(5)(iv)> [Sec. 3D-1111]
 - v) For the compliance period, calculate the solvent recovery system's volatile organic matter collection and recovery efficiency using **Equation 3.7-5** below:
<40 CFR 63.4341(e)(5)(v)> [Sec. 3D-1111]

$$R_v = 100 \frac{M_{VR}}{\sum_{i=1}^m M_i WV_{c,i} + \sum_{j=1}^n M_j WV_{t,j}} \quad (\text{Equation 3.7-5})$$

Where:

- R_V = Volatile organic matter collection and recovery efficiency of the solvent recovery system during the compliance period, percent.
- M_{VR} = Mass of volatile organic matter recovered by the solvent recovery system during the compliance period, kg.
- M_i = Mass of coating or printing material, i, applied in the web coating/printing operation controlled by the solvent recovery system during the compliance period, kg.
- $WV_{c,i}$ = Mass fraction of volatile organic matter for coating or printing material, i, kg volatile organic matter per kg coating or printing material.
- M_j = Mass of thinning or cleaning material, j, applied in the web coating/printing operation controlled by the solvent recovery system during the compliance period, kg.
- $WV_{t,j}$ = Mass fraction of volatile organic matter for thinning or cleaning material, j, kg volatile organic matter per kg thinning or cleaning material.
- m = Number of different coating and printing materials applied in the web coating/printing operation controlled by the solvent recovery system during the compliance period.
- n = Number of different thinning and cleaning materials applied in the web coating/printing operation controlled by the solvent recovery system during the compliance period.

- vi) Calculate the mass of organic HAP emission reductions for the web coating/printing operation controlled by the solvent recovery system during the compliance period using **Equation 3.7-6** below and according to the methodology in **(A)** and **(B)** below:
<40 CFR 63.4341(e)(5)(vi)> [Sec. 3D-1111]

$$H_{CSR} = (A_{CSR} + B_{CSR}) \left(\frac{R_V}{100} \right) \quad (\text{Equation 3.7-6})$$

Where:

- H_{CSR} = Mass of organic HAP emission reduction for the web coating/printing operation controlled by the solvent recovery system during the compliance period, kg.
- A_{CSR} = Total mass of organic HAP in the coating and printing material applied in the web coating/printing operation controlled by the solvent recovery system during the compliance period, kg, calculated using **Equation 3.7-6A** below.
- B_{CSR} = Total mass of organic HAP in the thinning and cleaning materials applied in the web coating/printing operation controlled by the solvent recovery system during the compliance period, kg, calculated using **Equation 3.7-6B** below.
- R_V = Volatile organic matter collection and recovery efficiency of the solvent recovery system, percent, from **Equation 3.7-5** above.

- A) Calculate the total mass of organic HAP in the coating and printing materials applied in the web coating/printing operations controlled by the solvent recovery system during the compliance period, kg, using **Equation 3.7-6A** below:

<40 CFR 63.4341(e)(5)(vi)(A)> [Sec. 3D-1111]

$$A_{\text{CSR}} = \sum_{i=1}^m (M_{\text{c},i}) (W_{\text{c},i}) \quad (\text{Equation 3.7 - 6A})$$

Where:

- A_{CSR} = Total mass of organic HAP in the coating and printing materials applied in the web coating/printing operations controlled by the solvent recovery system during the compliance period, kg.
- $M_{\text{c},i}$ = Mass of coating or printing material, i, applied during the compliance period in the web coating/printing operations controlled by the solvent recovery system, kg.
- $W_{\text{c},i}$ = Mass fraction of organic HAP in coating or printing material, i, kg per kg.
- m = Number of different coating and printing materials applied during compliance period.

- B) Calculate the total mass of organic HAP in the thinning and cleaning materials applied in the web coating/printing operations controlled by the solvent recovery system during the compliance period, kg, using **Equation 3.7-6B** below:

<40 CFR 63.4341(e)(5)(vi)(B)> [Sec. 3D-1111]

$$B_{\text{CSR}} = \sum_{j=1}^n (M_{\text{t},j}) (W_{\text{t},j}) \quad (\text{Equation 3.7 - 6B})$$

Where:

- B_{CSR} = Total mass of organic HAP in the thinning and cleaning materials applied in the web coating/printing operations controlled by the solvent recovery system during the compliance period, kg.
- $M_{\text{t},j}$ = Total mass of thinning or cleaning material, j, applied during the compliance period in the web coating/printing operations controlled by the solvent recovery system, kg.
- $W_{\text{t},j}$ = Mass fraction of organic HAP in thinning or cleaning material, j, kg per kg.
- n = Number of different thinning and cleaning materials applied during the compliance period.

- f) **Calculate the total mass of coating and printing solids, H_t** - Determine the total mass of coating and printing solids applied, kg, which is the combined mass of the solids contained in all the coating and printing material applied during the compliance period in the web coating/printing operations for which the Emission Rate With Add-On Controls Option is used, using **Equation 3.7-2** of permit **Condition 3.7(D)(5)(e)**.

<40 CFR 63.4341(e)(6)> [Sec. 3D-1111]

- g) **Calculate the organic HAP emission rate with add-on controls for the compliance period, H_{HAP}** - Determine the organic HAP emission rate with add-on controls for the compliance period, kg organic HAP emitted per kg solids applied during the compliance period, using **Equation 3.7-7** below:
<40 CFR 63.4341(e)(7)> [Sec. 3D-1111]

$$H_{HAP} = \frac{H_e - \sum_{i=1}^q (H_{C,i}) - \sum_{j=1}^r (H_{CSR,j})}{H_t} \quad (\text{Equation 3.7 - 7})$$

Where:

- H_{HAP} = Organic HAP emission rate with add-on controls for the compliance period, kg organic HAP emitted per kg solids applied.
- H_e = Total mass of organic HAP emissions before add-on controls from all the coating, printing, thinning, and cleaning materials applied during the compliance period, kg, determined according to **Equation 3.7-1** in permit **Condition 3.7(D)(5)(d)**.
- $H_{C,i}$ = Total mass of organic HAP emissions reduction for controlled web coating/printing operation, i, not using a liquid-liquid material balance, during the compliance period, kg, from **Equation 3.7-4** in permit **Condition 3.7(E)(9)(d)**.
- $H_{CSR,j}$ = Total mass of organic HAP emissions reduction for web coating/printing operation, j, controlled by a solvent recovery system using a liquid-liquid material balance, during the compliance period, kg, from **Equation 3.7-6** of permit **Condition 3.7(E)(9)(e)(vi)**.
- H_t = Total mass of coating and printing solids applied during the compliance period, kg, from **Equation 3.7-2** of permit **Condition 3.7(D)(5)(e)**.
- q = Number of controlled web coating/printing operations not using a liquid-liquid material balance.
- r = Number of web coating/printing operations controlled with a solvent recovery system.

- h) **Compliance Demonstration** - To demonstrate compliance with the emission limit, the organic HAP emission rate with add-on controls for the compliance period, calculated using **Equation 3.7-7** of **Condition 3.7(E)(g)** above, must be less than or equal to the applicable emission limit in permit **Condition 3.7(C)**. All records must be kept as required by permit **Condition 3.7(G)**.
<40 CFR 63.4342(e)(8)> [Sec. 3D-1111]

- F) **Reporting** - The permittee shall submit the reports as specified in **Conditions 3.7(F)(1)** through **(3)** below:
<40 CFR 63.4311> [Sec. 3D-1111]

- 1) **Semiannual Compliance Reports** - The permittee shall submit semiannual compliance reports for each affected source according to the requirements of **Conditions 3.7(F)(1)(a)** through **(f)** below. The semiannual compliance reporting

requirements below may be satisfied by reports required under other parts of the Clean Air Act (CAA), as allowed in **Conditions 3.7(F)(1)(a) and (b)** below.

<40 CFR 63.4311(a)> [Sec. 3D-1111]

a) Compliance Period(s)

- i) Each semiannual compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.
- ii) For the period ending on June 30 of the current calendar year, the semiannual compliance report is due by July 31.
- iii) For the period ending on December 31 of the previous calendar year, the semiannual compliance report is due by January 31.

<40 CFR 63.4311(a)(1)(i)-(iii)> [Sec. 3D-1111]

b) Electronic Reporting Requirements - Beginning on March 15, 2021, or once the reporting template has been available on the CEDRI website for 1 year, whichever date is later, each semiannual compliance report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through the EPA's Central Data Exchange (CDX) (www.epa.gov/cdx).

- i) The owner or operator must use the appropriate electronic template on the CEDRI website for this subpart or an alternate electronic file format consistent with the XML schema listed on the CEDRI website (<https://www.epa.gov/electronic-reporting-air-emissions/compliance-and-emissions-data-reporting-interface-cedri>).
- ii) The date report templates become available will be listed on the CEDRI website. If the reporting form for the semiannual compliance report specific to this subpart is not available in CEDRI at the time that the report is due, you must submit the report to the EPA Administrator at the appropriate address(s) listed in 40 CFR §63.13.
- iii) Once the form has been available in CEDRI for 1 year, you must begin submitting all subsequent reports via CEDRI. The reports must be submitted by the deadlines specified in **Condition 3.7(F)(1)(a)**, regardless of the method in which the reports are submitted.
- iv) Owners or operators who claim that some of the information required to be submitted via CEDRI is CBI shall submit a complete report generated using the appropriate form in CEDRI or an alternate electronic file consistent with the extensible markup language (XML) schema listed on the EPA's CEDRI website, including information claimed to be CBI, on a compact disc, flash drive, or other commonly used electronic storage medium to the EPA. The electronic medium shall be clearly marked as CBI and mailed to:

U.S. EPA/OAQPS/CORE CBI Office

Attention: Group Leader, Measurement Policy Group, MD C404-02
4930 Old Page Rd., Durham, NC 27703.

The same file with the CBI omitted shall be submitted to the EPA via the EPA's CDX as described earlier in this paragraph.

<40 CFR 63.4311(f)> [Sec. 3D-1111]

- v) A copy of this form should also be submitted to the Director of the Forsyth County Office of Environmental Assistance & Protection at the

address denoted on the signature page by the deadlines specified in **Condition 3.7(F)(1)(a)**.
<40 CFR 63.4311> [Sec. 3Q-0308]

- c) **Required Information to Report** - The semiannual compliance report must contain the information specified in **Conditions (i) through (v)** below, the information specified in **Conditions (1)(d) through (1)(f)** below, and the information specified in permit condition **3.7(F)(3)(a)** that is applicable to the affected source.
- i) Company name and address.
<40 CFR 63.4311(a)(3)(i)> [Sec. 3D-1111]
 - ii) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.
<40 CFR 63.4311(a)(3)(ii)> [Sec. 3D-1111]
 - iii. Date of report and beginning and ending dates of the reporting period. The reporting period is the 6-month period ending on June 30 or December 31.
<40 CFR 63.4311(a)(3)(iii)> [Sec. 3D-1111]
 - iv) Identification of the compliance option or options specified in permit conditions **3.7(B) and (C)** that were used on each web coating/printing operation during the reporting period. If compliance options were changed during the reporting period, the permittee shall report the beginning and ending dates for each option used.
<40 CFR 63.4311(a)(3)(iv)> [Sec. 3D-1111]
 - v) If the permittee used the Emission Rate Without Add-On Controls Option or the Emission Rate With Add-On Controls Option, for web coating/printing operations in permit conditions **3.7(B) and (C)**, the calculation results for each compliance period ending each month during the 6-month reporting period.
<40 CFR 63.4311(a)(3)(v)> [Sec. 3D-1111]
- d) **Reporting of Deviations from Operating Limitations**
- i) **No Deviations** - If there were no deviations from the operating limitations in permit conditions **3.7(C)(1) and (2)** or from the work practice standards in permit condition **3.7(C)(3)** that apply, the semiannual compliance report must include a statement that there were no deviations from the emission limitations during the reporting period. If the permittee used the Emission Rate With Add-On Controls Option in permit condition **3.7(C)**, and there were no periods during which the continuous parameter monitoring systems (CPMS) were out-of-control as specified in 40 CFR 63.8(c)(7), the semiannual compliance report must include a statement that there were no periods during which the CPMS were out-of-control during the reporting period.
<40 CFR 63.4311(a)(4)> [Sec. 3D-1111]
 - ii) **Deviations: Emission Rate Without Add-On Controls Option** - If using the Emission Rate Without Add-On Controls Option in permit condition **3.7(B)** and there was a deviation from the applicable emission limit in permit condition **3.7(B)**, the semiannual compliance report shall contain the information in **Conditions (A) through (C)** below:

- <40 CFR 63.4311(a)(6)> [Sec. 3D-1111]
- A) The beginning and ending dates of each compliance period during which the organic HAP emission rate exceeded the applicable emission limit in permit condition **3.7(B)**.
<40 CFR 63.4311(a)(6)(i)> [Sec. 3D-1111]
- B) The calculations used to determine the organic HAP emission rate for the compliance period in which the deviation occurred. The permittee shall submit the calculations for **Equations 3.7-1, 3.7-1A, 3.7-1B, 3.7-2, and 3.7-3** in permit condition **3.7(D)(5)** for web coating/printing operations; and if applicable, the calculations used to determine mass of organic HAP in waste materials, R_w , according to permit **Condition 3.7(D)(5)(d)(iii)**. Background data supporting these calculations (e.g., information provided by material suppliers or manufacturers, or test reports) does not need to be submitted.
<40 CFR 63.4311(a)(6)(ii)> [Sec. 3D-1111]
- C) A statement of the cause of each such deviation.
<40 CFR 63.4311(a)(6)(iii)> [Sec. 3D-1111]
- iii) **Deviations: Emission Rate With Add-On Controls Option** - If using the Emission Rate With Add-On Controls Option in permit **Condition 3.7(C)** and there was a deviation from an emission limitation (including any periods when emissions bypassed the add-on control device and were diverted to the atmosphere), the semiannual compliance report shall contain the information in **Conditions (A) through (N)** below.
- A) The beginning and ending dates of each compliance period during which the organic HAP emission rate exceeded the applicable emission limit in permit **Condition 3.7(C)**.
- B) If using the *Emission Rate With Add-On Controls Option*, the calculations used to determine the organic HAP emission rate for each compliance period in which a deviation occurred. The applicable calculations must be submitted, including **Equations 3.7-1, 3.7-1A, 3.7-1B, and 3.7-2** in permit **Condition 3.7(D)(5)** and **Equations 3.7-4, 3.7-4A, 3.7-4B, 3.7-4C, 3.7-5, 3.7-6, 3.7-6A, 3.7-6B, and 3.7-7** in permit **Condition 3.7(E)(8)** for web coating/printing operations. Background data supporting these calculations (e.g., information provided by materials suppliers or manufacturers, or test reports) does not need to be submitted.
- C) If you use the organic HAP overall control efficiency option in conjunction with the *Emission Rate With Add-On Controls Option*, the calculations used to determine the organic HAP overall control efficiency for each compliance period in which a deviation occurred. You must submit the calculations that apply to you, however background data supporting these calculations (e.g. test reports) does not need to be submitted.
- D) The date and time that each malfunction of the capture or add-on control device(s) started and stopped.
- E) A brief description of the continuous parameter monitoring system (CPMS).
- F) The date of the latest CPMS certification or audit.
- G) Except for zero (low-level) and high-level checks; the date, time, and duration that each CPMS was inoperative, the cause (including

- unknown cause) for the CPMS being inoperative, and description(s) of the corrective action(s) taken.
- H) The date, time, and duration that each CPMS was out-of-control, (including the information in 40 CFR 63.8(c)(7)), the cause (including unknown cause) for the CPMS being out-of-control, and description(s) of the corrective action(s) taken
 - I) The date, time, and duration of each deviation from an operating limit in permit **Conditions 3.7(C)(1) and (2)**, and the date and time period of any bypass of the add-on control device.
 - J) A summary of the total duration of each deviation from an operating limit in permit **Conditions 3.7(C)(1) and (2)**, each bypass of the add-on control device during the semiannual reporting period, and the total duration as a percent of the total source operating time during that semiannual reporting period.
 - K) A breakdown of the total duration of the deviations from the operating limits in permit **Conditions 3.7(C)(1) and (2)** and bypasses of the add-on control device during the semiannual reporting period into those that were due to control equipment problems, process problems, other known causes, and/or other unknown causes.
 - L) A summary of the total duration of CPMS downtime during the semiannual reporting period and the total duration of CPMS downtime as a percent of the total source operating time during that semiannual reporting period.
 - M) A description of any changes in the CPMS, web coating/printing operation, emission capture system, or add-on control device since the last semiannual reporting period.
 - N) For each deviation from the work practice standards in permit **Condition 3.7(C)(8)**, a description of the deviation, the date and duration of the deviation, and the actions taken to minimize emissions in accordance with 40 CFR 63.4300(b). The description of the deviation must include a list of the affected sources or equipment for which the deviation occurred, and the cause of the deviation (including unknown cause, if applicable).
 - O) For deviations from an emission and/or operating limit in **Conditions 3.7(C)(1) and (2)**, a statement of the cause of each deviation (including unknown cause, if applicable)
 - P) For each deviation from emission and/or operating limit in **Conditions 3.7(C)(1) and (2)**, a list of the affected sources or equipment for which a deviation occurred, an estimate of the quantity of each regulated pollutant emitted over any emission limit in emission limit in **Condition 3.7(C)(1)**, and a description of the method used to estimate the emissions.
- <40 CFR 63.4311(a)(7)(ii)(A)-(P)> [Sec. 3D-1111]
- e) **Performance Test Reports** - Reports of performance test results for emission capture systems and add-on control devices as required in **Condition 3.7(C)(9)** must be submitted no later than 60 days after completing the tests as specified in 40 CFR 63.10(d)(2).
 - i) Beginning on March 15, 2021, the owner or operator shall submit the initial notifications required in §63.9(b) and the notification of compliance status required in §63.9(h) and §63.4310(c) to the EPA via CEDRI. The

CEDRI interface can be accessed through the EPA's CDX (<https://cdx.epa.gov>).

- ii) The owner or operator must upload to CEDRI an electronic copy of each applicable notification in portable document format (PDF).
- iii) The applicable notification must be submitted by the deadline specified in this subpart, regardless of the method in which the reports are submitted. Owners or operators who claim that some of the information required to be submitted via CEDRI is CBI shall submit a complete report generated using the appropriate form in CEDRI or an alternate electronic file consistent with the extensible markup language (XML) schema listed on the EPA's CEDRI website, including information claimed to be CBI, on a compact disc, flash drive, or other commonly used electronic storage medium to the EPA. The electronic medium shall be clearly marked as CBI and mailed to U.S. EPA/OAQPS/CORE CBI Office, Attention: Group Leader, Measurement Policy Group, MD C404-02, 4930 Old Page Rd., Durham, NC 27703. The same file with the CBI omitted shall be submitted to the EPA via the EPA's CDX as described earlier in this paragraph.
- iv) A copy of this form should also be submitted to this Office at the address denoted on the signature page by the deadlines specified in **Condition 3.7(F)(1)(a)**.
<40 CFR 63.4311(d)> [Sec. 3D-1111]

- G) **Recordkeeping Requirements** - The permittee shall collect and keep a record of the data and information specified in **Conditions 3.7(G)(1) through (9)**, and shall retain these records as described in **Condition 3.7(G)(10)** below. Failure to collect and keep these records is a deviation from the applicable standard.
<40 CFR 63.4312> [Sec. 3D-1111]

- 1) A copy of each notification and report that was submitted to comply with Subpart OOOO, and the documentation supporting each notification and report.
<40 CFR 63.4312(a)> [Sec. 3D-1111]
- 2) A current copy of information provided by material suppliers or manufacturers, such as manufacturer's formulation data or test data used to determine the mass fraction of organic HAP for coating, printing, dyeing, finishing, thinning, and cleaning materials; and the mass fraction of solids for coating and printing materials. If testing was conducted to determine the mass fraction of organic HAP of coating materials or the mass fraction of solids of coating materials, the permittee shall keep a copy of the complete test report. If information is used that was provided by the manufacturer or supplier of the material that was based on testing, the permittee shall keep the summary sheet of results provided by the manufacturer or supplier. The permittee is not required to obtain the test report or other supporting documentation from the manufacturer or supplier.
<40 CFR 63.4312(b)> [Sec. 3D-1111]
- 3) For each compliance period, a record of the web coating/printing operations on which each compliance option was used and the time periods (beginning and ending dates) each option was used. For each month, a record of all required calculations for the compliance options used, as specified in **Conditions 3.7(G)(3)(a) and (b)** below.
<40 CFR 63.4312(c)(1)> [Sec. 3D-1111]

- a) ***For the Emission Rate Without Add-On Controls Option***, a record of the calculation of the total mass of organic HAP emissions for the coating, printing, thinning and cleaning materials applied each compliance period using **Equations 3.7-1, 3.7-1A, 3.7-1B** in permit **Condition 3.7(D)(5)(d)** for web coating/printing operations; and if applicable, the calculation used to determine mass of organic HAP in waste materials, R_w , according to permit **Condition 3.7(D)(5)(d)(iii)**; the calculation of the total mass of the solids contained in all coating and printing materials applied each compliance period, H_t , using **Equation 3.7-2** in permit **Condition 3.7(D)(5)(e)**; and the calculation of the organic HAP emission rate for each compliance period, H_{yr} , using **Equation 3.7-3** in permit **Condition 3.7(D)(5)(f)**.
<40 CFR 63.4312(c)(1)(ii)> [Sec. 3D-1111]
- b) ***For the Emission Rate With Add-On Controls Option***, a record of the calculation of the total mass of organic HAP emissions before add-on controls for the coating, printing, thinning and cleaning materials applied each compliance period using **Equations 3.7-1, 3.7-1A, 3.7-1B** in permit **Condition 3.7(D)(5)(d)** and, if applicable, the calculation used to determine mass of organic HAP in waste materials, R_w , according to permit **Condition 3.7(D)(5)(d)(iii)**; the calculation of the total mass of the solids contained in all coating and printing materials applied each compliance period, H_t , using **Equation 3.7-2** in permit **Condition 3.7(D)(5)(e)**; the calculation of the mass of organic HAP emission reduction by emission capture systems and add-on control devices using **Equations 3.7-4, 3.7-4A, 3.7-4B, 3.7-4C, 3.7-5, 3.7-6, 3.7-6A, 3.7-6B** in permit condition **3.7(E)(9)**, as applicable; and the calculation of the organic HAP emission rate for each compliance period, H_{HAP} , using **Equation 3.7-7** in permit **Condition 3.7(E)(9)(g)**.
<40 CFR 63.4312(c)(1)(iii)> [Sec. 3D-1111]
- 4) A record of the name and mass of each regulated material applied in the web coating and printing subcategory during each compliance period.
<40 CFR 63.4312(d)> [Sec. 3D-1111]
- 5) A record of the mass fraction of organic HAP for each regulated material applied during each compliance period.
<40 CFR 63.4312(e)> [Sec. 3D-1111]
- 6) A record of the mass fraction of coating and printing solids for each coating and printing material applied during each compliance period.
<40 CFR 63.4312(f)> [Sec. 3D-1111]
- 7) If using an allowance in **Equation 3.7-1** in permit **Condition 3.7(D)(5)(d)** for organic HAP contained in waste materials, R_w , sent to, or designated for shipment to, a treatment, storage, and disposal facility (TSDF) according to permit **Condition 3.7(D)(5)(d)(iii)**, the permittee shall keep records of the information specified in **Conditions 3.7(G)(3)(7)(a) through (c)** below.
<40 CFR 63.4312(g)> [Sec. 3D-1111]
- a) The name and address of each TSDF to which waste materials were sent for which an allowance is used in **Equation 3.7-1** in permit **Condition 3.7(D)(5)(d)**, a statement of which subparts under 40 CFR Parts 262, 264, 265, and 266 apply to the facility, and the date of each shipment.
<40 CFR 63.4312(g)(1)> [Sec. 3D-1111]
- b) Identification of the web coating/printing operations producing waste materials included in each shipment and the compliance periods in which the allowance

was used for these materials in **Equation 3.7-1** in permit **Condition 3.7(D)(5)(d)**.

<40 CFR 63.4312(g)(2)> [Sec. 3D-1111]

- c) The methodology used in accordance with permit **Condition 3.7(D)(5)(d)(iii)** to determine the total amount of waste materials sent to or the amount collected, stored, and designated for transport to a TSDf each compliance period; and the methodology to determine the mass of organic HAP contained in these waste materials. This must include the sources for all data used in the determination, methods used to generate the data, frequency of testing or monitoring, and supporting calculations and documentation, including the waste manifest for each shipment.
<40 CFR 63.4312(g)(3)> [Sec. 3D-1111]
- 8) The permittee shall keep records of the date, time, and duration of each deviation.
<40 CFR 63.4312(i)> [Sec. 3D-1111]
- 9) If using the Emission Rate With Add-On Controls Option, the permittee shall keep the records specified in **Conditions 3.7(G)(3)(9)(a) through (g)** below:
<40 CFR 63.4312(j)> [Sec. 3D-1111]
 - a) For each deviation, a record of whether the deviation occurred during a period of startup, shutdown, or malfunction.
<40 CFR 63.4312(j)(1)> [Sec. 3D-1111]
 - b) The records in 40 CFR 63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.
<40 CFR 63.4312(j)(2)> [Sec. 3D-1111]
 - c) The records required to show continuous compliance with each operating limit specified in permit **Conditions 3.7(C)(1) and (2)**.
<40 CFR 63.4312(j)(3)> [Sec. 3D-1111]
 - d) For each capture system that is a permanent total enclosure (PTE), the data and documentation used to support a determination that the capture system meets the criteria in Method 204 of Appendix M to 40 CFR Part 51 for a PTE and has a capture efficiency of 100 percent, as specified in 40 CFR 63.4361(a).
<40 CFR 63.4312(j)(4)> [Sec. 3D-1111]
 - e) The records specified in **Conditions 3.7(G)(3)(9)(e)(i) and (ii)** below for each add-on control device organic HAP destruction or removal efficiency determination as specified in 40 CFR 63.4362:
<40 CFR 63.4312(j)(6)> [Sec. 3D-1111]
 - i) Records of each add-on control device performance test conducted according to 40 CFR 63.4360 and 63.4362.
<40 CFR 63.4312(j)(6)(i)> [Sec. 3D-1111]
 - ii) Records of the web coating/printing operation conditions during the add-on control device performance test showing that the performance test was conducted under representative operating conditions.
<40 CFR 63.4312(j)(6)(ii)> [Sec. 3D-1111]
 - f) Records of the data and calculations used to establish the emission capture and add-on control device operating limits as specified in 40 CFR 63.4363 and to document compliance with the operating limits as specified in permit **Conditions 3.7(C)(1) and (2)**.
<40 CFR 63.4312(j)(7)> [Sec. 3D-1111]
 - g) A record of the work practice plan required by permit **Condition 3.7(C)(3)** and documentation that the plan is being implemented on a continuous basis.

<40 CFR 63.4312(j)(8)> [Sec. 3D-1111]

- 10) The permittee shall maintain all records, described in **Conditions 3.7(G)(1) through (9)** above, in a form suitable and readily available for expeditious review.
 - a) As specified in 40 CFR 63.10(b)(1), each record must be kept for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. Each record must be kept **on-site** for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record. The records may be kept off site for the remaining 3 years.
 - b) Where appropriate, the records may be maintained electronically as spreadsheets, database(s), or other readily retrievable and readable format.
<40 CFR 63.4313, *ibid.* 63.10(b)(1)> [Sec. 3D-1111]
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APPENDIX A to 00460-TV-20

**List of Insignificant Activities
Highland Industries, Inc., Premise #00460
January 10, 2020**

Pursuant to Sec. 3Q-0503(7) and (8) of the Forsyth County Air Quality Technical Code (FCAQTC), certain air emission sources are considered insignificant activities and are not listed on the permit. However, insignificant activities exempted by size or production rate by Sec. 3Q - 0503(8) are required to be listed in the initial permit application and with each request for renewal. The following list summarizes insignificant activities exempted by size or production rate provided in the Title V permit application, as well as those exempted by specific activity category. Insignificant activities are not exempted from any applicable requirement, or from demonstrating compliance with any applicable requirement.

| Emission Source ID No. | Emission Source Description | Insignificant Because of: Category or Size/Production Rate |
|-------------------------------|--|---|
| N/A | Hot Slitter Machines | Size/Production Rate |
| N/A | Hot Oil Burner for Lamination Machines, natural gas fired, 1.6 mmBtu/hr maximum heat input | Size/Production Rate |
| N/A | Five (5) Make-Up Air Heating Units used only for human comfort heat (each less than 10 mmBtu/hr maximum heat input, natural gas fired) | Category |
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