



NORTH CAROLINA
Environmental Quality

ROY COOPER
Governor

ELIZABETH S. BISER
Secretary

MICHAEL ABRACZINSKAS
Director

Enter XX or Calendar Date

Mr. William Lopatka
Plant Manager
Corning Incorporated
310 North College Road
Wilmington, NC 28405

SUBJECT: Air Quality Permit No. 03809T57
Facility ID: 6500049
Corning Incorporated
Wilmington, North Carolina
New Hanover County
Fee Class: Title V
PSD Class: Minor

Dear Mr. Lopatka:

In accordance with your completed Air Quality Permit Application for Renewal of your Title V permit and a 502(b)(10) modification we are forwarding herewith Air Quality Permit No. 03809T57 authorizing the construction and operation, of the emission source(s) and associated air pollution control device(s) specified herein. Additionally, any emissions activities determined from your Air Quality Permit Application as being insignificant per 15A North Carolina Administrative Code 02Q .0503(8) have been identified as such in the permit. Please note the requirements for the annual compliance certification are contained in General Condition P in Section 4. The current owner is responsible for submitting a compliance certification for the entire year regardless of who owned the facility during the year.

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. 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.

If any parts, requirements, or limitations contained in this Air Quality Permit are unacceptable to you, you have the right to file a petition for a contested case hearing in the North Carolina Office of Administrative Hearings. Information regarding the right, procedure, and time limit for permittees and other persons aggrieved to file such a petition is contained in the attached "Notice Regarding the Right to Contest A Division of Air Quality Permit Decision."

The construction of new air pollution emission source(s) and associated air pollution control device(s), or modifications to existing emission source(s) and air pollution control device(s) described in this permit must be covered under an Air Quality Permit issued by the Division of Air Quality prior to construction unless the Permittee has fulfilled the requirements of NCGS 143-215.108A(b) and received written approval from the Director of the Division of Air Quality to commence construction. Failure to receive an Air Quality Permit or written approval prior to commencing construction is a violation of NCGS



North Carolina Department of Environmental Quality | Division of Air Quality
217 West Jones Street | 1641 Mail Service Center | Raleigh, North Carolina 27699-1641
919.707.8400

Mr. Lopatka
Enter XX or Calendar Date
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143-215.108A and may subject the Permittee to civil or criminal penalties as described in NCGS 143-215.114A and 143-215.114B.

New Hanover County has triggered increment tracking under PSD for particulate matter (PM10), Nitrogen oxide (NOx), and sulfur dioxide (SO2). However, this permit renewal does not consume or expand increments for any pollutants.

This Air Quality Permit shall be effective from (*Enter Permit Issuance Date*) until (*Enter Permit Expiration Date*), is nontransferable to future owners and operators, and shall be subject to the conditions and limitations as specified therein.

Should you have any questions concerning this matter, please contact Suraiya Akter at 919-707-8842 and suraiya.akter@deq.nc.gov.

Sincerely yours,

Mark J. Cuilla, EIT, CPM, Chief, Permitting Section
Division of Air Quality, NCDEQ

Enclosure

c: Brad Akers, EPA Region 4 (Permit and Review)
Laserfiche (6500049)
Connie Horne (cover letter only)

**NOTICE REGARDING THE RIGHT TO CONTEST A DIVISION OF AIR QUALITY PERMIT
DECISION**

Right of the Permit Applicant or Permittee to File a Contested Case: Pursuant to NCGS 143-215.108(e), a permit applicant or permittee who is dissatisfied with the Division of Air Quality's decision on a permit application may commence a contested case by filing a petition under NCGS 150B-23 in the Office of Administrative Hearings within 30 days after the Division notifies the applicant or permittee of its decision. If the applicant or permittee does not file a petition within the required time, the Division's decision on the application is final and is not subject to review. The filing of a petition will stay the Division's decision until resolution of the contested case.

Right of Other Persons Aggrieved to File a Contested Case: Pursuant to NCGS 143-215.108(e1), a person other than an applicant or permittee who is a person aggrieved by the Division's decision on a permit application may commence a contested case by filing a petition under NCGS 150B-23 within 30 days after the Division provides notice of its decision on a permit application, as provided in NCGS 150B-23(f), or by posting the decision on a publicly available Web site. The filing of a petition under this subsection does not stay the Division's decision except as ordered by the administrative law judge under NCGS 150B-33(b).

General Filing Instructions: A petition for contested case hearing must be in the form of a written petition, conforming to NCGS 150B-23, and filed with the Office of Administrative Hearings, 1711 New Hope Church Road, Raleigh NC, 27609, along with a fee in an amount provided in NCGS 150B-23.2. A petition for contested case hearing form may be obtained upon request from the Office of Administrative Hearings or on its website at <https://www.oah.nc.gov/hearings-division/filing/hearing-forms>. Additional specific instructions for filing a petition are set forth at 26 NCAC Chapter 03.

Service Instructions: A party filing a contested case is required to serve a copy of the petition, by any means authorized under 26 NCAC 03 .0102, on the process agent for the Department of Environmental Quality:

William F. Lane, General Counsel
North Carolina Department of Environmental Quality
1601 Mail Service Center
Raleigh, North Carolina 27699-1601

If the party filing the petition is a person aggrieved other than the permittee or permit applicant, the party **must also** serve the permittee in accordance with NCGS 150B-23(a).

* * *

Additional information is available at <https://www.oah.nc.gov/hearings-division/hearing-process/filing-contested-case>. Please contact the OAH at 984-236-1850 or oah.postmaster@oah.nc.gov with all questions regarding the filing fee and/or the details of the filing process.

Summary of Changes to Permit

The following changes were made to Air Permit No. 03809T56:*

Page No.	Section	Description of Changes
Cover Letter		Modified to reflect current permit number, issue and effective dates and associated renewal information
--	Throughout permit	Updated all dates and permit revision numbers
--	Cover letter	A notice regarding the right to contest a division of air quality permit decision is added to the renewed permit.
--	Table of Contents	Revised the list to add Insignificant Activities as Section 3 and the General Conditions as Section 4.
3	List of acronyms	Moved from the cover letter in the previous permit to page 3 in the body of the renewed permit.
3	Section 1- Permitted Emission source table	<ul style="list-style-type: none"> • Removed AOS for source ES-006 • Removed emission source EPG1, EPG2, ES-FP1, ES-FP2, and ES-FP3 • Moved emission source ES-HB to Insignificant Activity list • Removed page nos. column from the table • Removed venting location information is added to the “Emission source Description” Column. • Removed asterisk ** and *** from the table footnote
10	2.1 A	Section 2.1.A.4 of the existing permit reflecting AOS removed
-	2.2 A - throughout	Removed the monitoring, recordkeeping and reporting requirements for fire three pump engines (ES-FP1, ES-FP2, ES-FP3 and generator EPG1 and EPG2, and humidification boiler (ES-HB) as they were moved to insignificant list with most current permitting language.
9	2.1 A.3 c	Updated Monitoring conditions according to the current shell language for control of visible emissions
11	2.1 B.2 c	Updated Monitoring conditions according to the current shell language for control of visible emissions
12	2.1 A. C	<ul style="list-style-type: none"> • Sources moved to insignificant list and their consequent permit conditions removed from this section • Footnote from this page removed
21	2.1 F	This section was removed as the source moved to insignificant activity list
32	2.3 A b	<ul style="list-style-type: none"> • Updated CAM requirements • AOS removed from the section
33	2.4	Other applicable requirements updated according to current permit conditions
27	3	<ul style="list-style-type: none"> • Moved Insignificant Activities list from attachment to Section 3. • Removed the footnote stating the additional information regarding applicability of MACT and GACT. • Fire pumps ES-FP1, ES-FP2, ES-FP3 and Generators ES-EPG1, and ES-EPG2 were added to the insignificant list • NSPS III removed for ES-FP3
28	4	Updated General Conditions with the most current version (Version 7.0, 08/21/2023) and moved to Section 4.

* This list is not intended to be a detailed record of every change made to the permit but a summary of those changes.



State of North Carolina
Department of Environmental Quality
Division of Air Quality

AIR QUALITY PERMIT

Permit No.	Replaces Permit No.(s)	Effective Date	Expiration Date
03809T57	03809T56	XXXX	XXXX

NOTE: Per General Condition K, a permit application for the renewal of this Title V permit shall be submitted no later than **XXXX**.

Until such time as this permit expires or is modified or revoked, the below named Permittee is permitted to construct and operate the emission source(s) and associated air pollution control device(s) specified herein, in accordance with the terms, conditions, and limitations within this permit. This permit is issued under the provisions of Article 21B of Chapter 143, General Statutes of North Carolina as amended, and Title 15A North Carolina Administrative Codes (15A NCAC), Subchapters 02D and 02Q, and other applicable Laws.

Pursuant to Title 15A NCAC, Subchapter 02Q, 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 permitting authority and received an Air Quality Permit, except as provided in this permit.

Permittee: **Corning Incorporated**
Facility ID: **6500049**
Primary SIC Code: **3229**
NAICS Code: **327212**

Facility Site Location: **310 North College Road**
City, County, State, Zip: **Wilmington, New Hanover County, NC 28405**
Mailing Address: **310 North College Road**
City, State, Zip: **Wilmington, NC 28405**

Application Number(s): **6500049.23A and 6500049.21A**
Complete Application Date(s): **October 19, 2023 and March 10, 2021**

Division of Air Quality,
Regional Office Address: **Wilmington Regional Office**
127 Cardinal Drive Extension
Wilmington, NC 28405-3845

Permit issued this the XX day of XXXXX, XXXX.

Mark J. Cuilla, EIT, CPM, Chief, Air Permitting Section
By Authority of the Environmental Management Commission

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List of Acronyms

AOS	Alternative Operating Scenario
BACT	Best Available Control Technology
BAE	Baseline Actual Emissions
Btu	British thermal unit
CAA	Clean Air Act
CAM	Compliance Assurance Monitoring
CEMS	Continuous Emission Monitoring System
CEDRI	Compliance and Emissions Data Reporting Interface
CFR	Code of Federal Regulations
CO	Carbon Monoxide
COMS	Continuous Opacity Monitoring System
CSAPR	Cross-State Air Pollution Rule
DAQ	Division of Air Quality
DEQ	Department of Environmental Quality
EMC	Environmental Management Commission
EPA	Environmental Protection Agency
FR	Federal Register
GACT	Generally Available Control Technology
GHGs	Greenhouse Gases
HAP	Hazardous Air Pollutant
LAER	Lowest Achievable Emission Rate
MACT	Maximum Achievable Control Technology
NAA	Non-Attainment Area
NAAQS	National Ambient Air Quality Standards
NAICS	North American Industry Classification System
NCAC	North Carolina Administrative Code
NCGS	North Carolina General Statutes
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO_x	Nitrogen Oxides
NSPS	New Source Performance Standard
NSR	New Source Review
OAH	Office of Administrative Hearings
PAE	Projected Actual Emissions
PAL	Plantwide Applicability Limitation
PM	Particulate Matter
PM_{2.5}	Particulate Matter with Nominal Aerodynamic Diameter of 2.5 Micrometers or Less
PM₁₀	Particulate Matter with Nominal Aerodynamic Diameter of 10 Micrometers or Less
POS	Primary Operating Scenario
PSD	Prevention of Significant Deterioration
PTE	Potential to Emit
RACT	Reasonably Available Control Technology
SIC	Standard Industrial Classification
SIP	State Implementation Plan
SO₂	Sulfur Dioxide
TAP	Toxic Air Pollutant
tpy	Tons Per Year
VOC	Volatile Organic Compound

SECTION 1- PERMITTED EMISSION SOURCE(S) AND ASSOCIATED AIR POLLUTION CONTROL DEVICE(S) AND APPURTENANCES

The following table contains a summary of all permitted emission sources and associated air pollution control devices and appurtenances:

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
ES-002 CAM	Natural gas-fired chemical vapor deposition process (8.22 million Btu per hour heat input) Venting to stack 3	CD-BH-1, CD-BH-2, and CD-BH-3	Fabric filter system consisting of 3 modules (12,012 square feet of filter area), Fabric filter system consisting of 4 modules (20,888 square feet of filter area), and Fabric filter system consisting of 8 modules (53,016 square feet of filter area)
		with a minimum of 48,964 square feet of filter area on-line venting to a minimum of two sieve tray scrubbers operating in parallel in the following configuration: CD-HCL-5, CD-HCL-6, or CD-HCL-7 Three sieve tray scrubbers (80 gallons per minute water/weak acid injection, each)	
ES-001	Glass modification, Glass drying and Tramp fume collection system venting to Stack 2A	CD-TF-1, and CD-TF-2, CD-TF-3, and CD-TF-4	Two four stage horizontal spray chamber scrubbers (360 gallons per minute minimum water injection, each) Two educing venturi scrubbers (306 gallons per minute minimum caustic solution injection, minimum 4 pH, each) (CD-TF-1 through CD-TF-4 interconnected and in parallel, 3 out of 4 scrubbers online at any time)
ES-005	Glass drying and Tramp fume collection system venting to Stack 3	CD-POU-2, and CD-TF-6, or CD-TF-7, or CD-TF-8, or CD-TF-9	Venturi scrubber (with a minimum 13 gallons per minute liquid injection rate, minimum 4 pH and 28 standard cubic feet per minute air flow rate). Two educing venturi scrubbers (350 gallons per minute caustic solution injection, minimum 4 pH, each) Two packed tower countercurrent scrubbers (257 gallons per minute minimum caustic solution injection, 15 foot LANPAC bed height, each)

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
ES-003	Miscellaneous emissions collection system consisting of: analytical lab hood, acid tank farm vents, and PA chemical transfer station venting to Stack 2A	CD-TF-1, and CD-TF-2, CD-TF-3, and CD-TF-4	Two four stage horizontal spray chamber scrubbers (360 gallons per minute minimum water injection, each) with: Two educing venturi scrubbers (306 gallons per minute minimum caustic solution injection, minimum 4 pH, each) (CD-TF-1 through CD-TF-4 interconnected and in parallel, 3 out of 4 scrubbers online at any time)
ES-006 CAM	Natural gas-fired chemical vapor deposition process (8.22 million Btu per hour heat input) venting to Stack 3	CD-BH-4	Fabric filter system consisting of 12 modules (3,500 square feet of filter area each), each module shall maintain a maximum air to cloth ratio of 1:1 when operating.
ES-007 CAM	Natural gas-fired chemical vapor deposition process (11.58 million Btu per hour heat input) venting to Stack 4	CD-BH-5	Cartridge filter (maximum air-to-cloth ratio of 2.06:1 when operating, nine of eleven modules on line)
ES-EPG3 MACT ZZZZ	One CI diesel-fired emergency generator (2,925 hp, 2,000 kW)	NA	NA
ES-EPG4 <i>(not constructed)</i>	One CI diesel-fired emergency generator (2,190 kW)	NA	NA
ES-COATING	Acrylate coating and curing operations for glass optical fiber	NA	NA
ES-008	Natural gas-fired chemical vapor deposition process (3.5 million Btu per hour heat input) venting to Stack 5	CD-BH-6 and CD-HCL-8 to CD-POS-8 OR CD-HCL-9 to CD-POS-9	Fabric filter (33,175 square feet of filter area with 19,905 square feet of filter area on line) Sieve tray scrubber (80 gallons per minute water/weak acid injection) Sieve tray scrubber (30 gallons per minute caustic solution injection) OR Sieve tray scrubber (80 gallons per minute water/weak acid injection) Sieve tray scrubber (30 gallons per minute caustic solution injection)

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
ES-009	Glass drying process venting to Stack 5	CD-TF-10 <u>OR</u> CD-TF-11	Packed tower scrubber (257 gallons per minute caustic solution injection, 15 foot LANPAC bed height) <u>OR</u> Packed tower scrubber (257 gallons per minute caustic solution injection, 15 foot LANPAC bed height)
ES-010	Various wave guide manufacturing equipment including delivery cabinet, storage tank and fill reservoir venting to Stack 5	CD-TF-12 <u>OR</u> CD-TF-13	Educing venturi scrubber (350 gallons per minute caustic solution injection) <u>OR</u> Educing venturi scrubber (350 gallons per minute caustic solution injection)
ES-011	Glass modification equipment (including fabric filter (354 square feet of filter area with a minimum of 177 square feet of filter on line CD-BH-7A*) venting to Stack 6	CD-OX1, CD-OX2, CD-OX3, CD-OX4, CD-OX5, and CD-OX6 to CD-HFS-1 to CD-BH-7	Six Natural gas-fired thermal oxidizers (1.2 million Btu per hour total heat input); minimum of three on line Vertical moving bed limestone adsorber venting to: Fabric filter (4,666 square feet of filter area with a minimum of 2,333 square feet of filter area on line)
ES-004 CAM	Natural gas-fired chemical vapor deposition process (5.26 million Btu per hour heat input) venting to Stack 7	CD-BH-9	Cartridge filter (maximum air-to-cloth ratio of 2.0:1 when operating two of four modules on line)

* Control device (CD-BH-7A) is not required for compliance with any standard and is used as equipment protection for thermal oxidizers CD-OX-1 through CD-OX-6.

SECTION 2 - SPECIFIC LIMITATIONS AND CONDITIONS

2.1 Emission Source(s) and Control Device(s) Specific Limitations and Conditions

The emission source(s) and associated air pollution control device(s) and appurtenances listed below are subject to the following specific terms, conditions, and limitations, including the testing, monitoring, recordkeeping, and reporting requirements as specified herein:

- A. Glass Modification Process (ID No. ES-011) with six oxidizers, dry scrubber, and fabric filter, and scrubber controls;**
- Two Chemical Vapor Deposition Process (ID No. ES-002 and ES-008) with fabric filters and scrubber controls;**
- Three Chemical Vapor Deposition Process (ID No. ES-004, ES-006, and ES-007) with fabric filter controls.**

The following table provides a summary of limits and standards for the emission source(s) described above:

Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	For process rates up to 30 tons per hour: $E = 4.10 \times P^{0.67}$ For process rates greater than 30 tons per hour: $E = 55.0 \times P^{0.11} - 40$ Where: E = allowable emission rate in pounds per hour, and P = process weight in tons per hour	15A NCAC 02D .0515
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 02D .0516
Visible emissions	20 percent opacity	15A NCAC 02D .0521
Odorous emissions	State-enforceable only See Section 2.2 A.1	15A NCAC 02D .1806
NOx	PSD Avoidance - facility wide emissions shall not exceed 250 tons per consecutive 12-month period, running monthly total (See Multiple Emissions Sources - Section 2.2 B.1)	15A NCAC 02Q .0317 (Avoidance Condition for 15A NCAC 02D .0530)
Toxic air pollutants	State-enforceable only - toxic air pollutant ambient impact must not exceed acceptable ambient concentrations (See Multiple Emissions Sources - Section 2.2 D.1)	15A NCAC 02D .1100
PM10	PSD Avoidance - facility wide emissions shall not exceed 250 tons per consecutive 12-month period, running monthly total (See Multiple Emissions Sources - Section 2.2 E.1)	15A NCAC 02Q .0317 (Avoidance Condition for 15A NCAC 02D .0530)
PM10	Compliance Assurance Monitoring for ES-002, ES-004, ES-006, ES-007, and ES-008 – Section 2.3 A	15A NCAC 02D .0614

1. 15A NCAC 02D .0515: PARTICULATES FROM MISCELLANEOUS INDUSTRIAL PROCESSES

- a. Emissions of particulate matter from these sources (ID Nos. ES-002, ES-004, ES-006, ES-007, ES-008, and ES-011) shall not exceed an allowable emission rate as calculated by the following equation:

$$E = 4.10 \times P^{0.67} \quad (\text{for process rates less than or equal to 30 tons per hour}), \text{ or}$$

$$E = 55.0 \times P^{0.11} - 40 \quad (\text{for process rates greater than 30 tons per hour})$$

Where , E = allowable emission rate in pounds per hour
P = process weight in tons per hour

Liquid and gaseous fuels and combustion air are not considered as part of the process weight.

Testing [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515.

Monitoring [15A NCAC 02Q .0508(f)]

- c. Particulate matter emissions from these sources (**ID Nos. ES-002, ES-004, ES-006, ES-007, ES-008, and ES-011**) shall each be controlled as described above. To ensure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there are no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include the following:
 - i. a monthly visual inspection of the system ductwork and material collection units for leaks; and
 - ii. an annual (for each 12-month period following the initial inspection) internal inspection, where feasible, of each bag/cartridge house for structural integrity and filter fabric condition.The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515 if the cartridge and fabric filters are not inspected and maintained.
- d. The following continuous parametric measures of bagfilter performance are to be observed and recorded: differential pressure and a dust monitor located in the outlet header. Measured out of range deviations are to be alarmed with corrective actions taken.
- e. Parametric instrumentation shall be cleaned and calibrated as recommended by the manufacturer. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515 if the parametric instrumentation is not inspected and maintained.

Recordkeeping [15A NCAC 02Q .0508(f)]

- f. The results of inspection and maintenance shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each inspection;
 - iii. the results of any maintenance performed on any control device; and
 - iv. any variance from manufacturer's recommendations, if any, and corrections made.The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515 if the records of the monitoring results are not maintained.

Reporting [15A NCAC 02Q .0508(f)]

- g. The Permittee shall submit the results of any maintenance performed on any control device within 30 days of a written request by the DAQ.
- h. The Permittee shall submit a summary report of monitoring and recordkeeping activities given in Section 2.1 A.1.c through f postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

2. 15A NCAC 02D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

- a. Emissions of sulfur dioxide from these sources (**ID Nos. ES-002, ES-004, ES-006, ES-007, ES-008, and ES-011**) shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.

Testing [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516.

Monitoring/Recordkeeping/Reporting [15A NCAC 02Q .0508(f)]

- c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the firing of natural gas in these sources (**ID Nos. ES-002, ES-004, ES-006, ES-007, ES-008, and ES-011**).

3. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from these sources (**ID Nos. ES-002, ES-004, ES-006, ES-007, ES-008, and ES-011**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may

exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

Testing [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.3.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

Monitoring [15A NCAC 02Q .0508(f)]

- c. To ensure compliance, once a month the Permittee shall observe the emission points of these sources (**ID Nos. ES-002, ES-004, ES-006, ES-007, ES-008, and ES-011**) for any visible emissions above normal. The monthly observation must be made for each month of the calendar year period to ensure compliance with this requirement. If visible emissions from these sources are observed to be above normal, the Permittee shall either:
 - i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1 A.4.a above.The Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521 if the required monthly observations are not conducted as required; if the above-normal emissions are not corrected within the monitoring period or the percent opacity demonstration cannot be made.

Recordkeeping [15A NCAC 02Q .0508(f)]

- d. The results of the monitoring shall be maintained in a logbook (written or electronic format), kept on-site, and made available to an authorized representative upon request. The logbook shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
 - iii. the results of any corrective actions performed.The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if the records of the monitoring results are not maintained.

Reporting [15A NCAC 02Q .0508(f)]

- e. The Permittee shall submit a summary report of the monitoring and recordkeeping activities given in Sections 2.1 A.3.c and d above postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

B. Miscellaneous Emission Collections System (ID No. ES-003) with scrubber controls and Various Wave Guide Manufacturing Equipment Emissions Collection System (ID No. ES-010) with scrubber controls

The following table provides a summary of limits and standards for the emission source(s) described above:

Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	For process rates up to 30 tons per hour: $E = 4.10 \times P^{0.67}$ For process rates greater than 30 tons per hour: $E = 55.0 \times P^{0.11} - 40$ Where: E = allowable emission rate in pounds per hour, and P = process weight in tons per hour	15A NCAC 02D .0515
Visible emissions	20 percent opacity	15A NCAC 02D .0521
PM10	PSD Avoidance - facility wide emissions shall not exceed 250 tons per consecutive 12-month period, running monthly total (See Multiple Emissions Sources - Section 2.2 E.1)	15A NCAC 02Q .0317 (Avoidance Condition for 15A NCAC 02D .0530)
Odorous emissions	State-enforceable only See Section 2.2 A.1	15A NCAC 02D .1806
Toxic air pollutants	State-enforceable only - toxic air pollutant ambient impact must not exceed acceptable ambient concentrations (See Multiple Emissions Sources - Section 2.2 D.1)	15A NCAC 02D .1100

1. 15A NCAC 02D .0515: PARTICULATES FROM MISCELLANEOUS INDUSTRIAL PROCESSES

- a. Emissions of particulate matter from these sources (**ID Nos. ES-003 and ES-010**) shall not exceed an allowable emission rate as calculated by the following equation:

$$E = 4.10 \times P^{0.67} \quad (\text{for process rates less than or equal to 30 tons per hour), or}$$

$$E = 55.0 \times P^{0.11} - 40 \quad (\text{for process rates greater than 30 tons per hour})$$

Where, E = allowable emission rate in pounds per hour
P = process weight in tons per hour

Liquid and gaseous fuels and combustion air are not considered as part of the process weight.

Testing [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 B.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515.

Monitoring, Recordkeeping, and Reporting [15A NCAC 02Q .0508(f)]

- c. No monitoring, recordkeeping or reporting is required.

2. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Emissions from these sources (**ID Nos. ES-003 and ES-010**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

Testing [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 B.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

Monitoring [15A NCAC 02Q .0508(f)]

- c. To ensure compliance, once a month the Permittee shall observe the emission points of these sources (**ID Nos. ES-003, ES-010**) for any visible emissions above normal. The monthly observation must be made for each month of the calendar year period to ensure compliance with this requirement. If visible emissions from these sources are observed to be above normal, the Permittee shall either:
- i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1 A.4.a above.
- The Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521 if the required monthly observations are not conducted as required; if the above-normal emissions are not corrected within the monitoring period or the percent opacity demonstration cannot be made.

Recordkeeping [15A NCAC 02Q .0508(f)]

- d. The results of the monitoring shall be maintained in a logbook (written or electronic format), kept on-site, and made available to an authorized representative upon request. The logbook shall record the following:
- i. the date and time of each recorded action;
 - ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
 - iii. the results of any corrective actions performed.
- The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if the records of the monitoring results are not maintained.

Reporting [15A NCAC 02Q .0508(f)]

- e. The Permittee shall submit a summary report of the monitoring and recordkeeping activities given in Sections 2.1 A.2.c and d above postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

C. Two CI diesel-fired engines including emergency generators (ID Nos. ES-EPG3, ES-EPG4)

The following table provides a summary of limits and standards for the emission source(s) described above:

Pollutant	Limits/Standards	Applicable Regulation
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 02D .0516
Visible emissions	20 percent opacity	15A NCAC 02D .0521
Hazardous air pollutants	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines For existing engines less than or equal to 500 hp; See 2.1 C.3. below	15A NCAC 02D .1111 (40 CFR 63, Subpart ZZZZ)
NOx	PSD Avoidance - facility wide emissions shall not exceed 250 tons per consecutive 12-month period, running monthly total (See Multiple Emissions Sources - Section 2.2 B. 1.)	15A NCAC 02Q .0317 (Avoidance Condition for 15A NCAC 02D .0530)
PM10	PSD Avoidance - facility wide emissions shall not exceed 250 tons per consecutive 12-month period, running monthly total (See Multiple Emissions Sources - Section 2.2 E. 1.)	15A NCAC 02Q .0317 (Avoidance Condition for 15A NCAC 02D .0530)

1. 15A NCAC 02D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

- a. Emissions of sulfur dioxide from these sources (**ID Nos. ES-EPG3, ES-EPG4**) shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.

Testing [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 C.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516.

Monitoring, Recordkeeping, and Reporting [15A NCAC 02Q .0508(f)]

- c. No monitoring, recordkeeping, or reporting is required for sulfur dioxide emissions from the firing of diesel fuel in these sources (**ID Nos. ES-EPG3, ES-EPG4**).

2. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from these sources (**ID Nos. ES-EPG3, ES-EPG4**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

Testing [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 C.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

Monitoring, Recordkeeping, and Reporting [15A NCAC 02Q .0508(f)]

- c. No monitoring, recordkeeping, or reporting is required for the combustion of diesel fuel.

3. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY

Applicability [40 CFR 63.6585, 63.6590(a)(1)(i)]

- a. For these emission sources (**ID No. ES-EPG3**) (existing stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions), the Permittee shall comply with all applicable provisions, including the monitoring, recordkeeping, and reporting contained in Environmental Management Commission Standard 15A NCAC 02D .1111 "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR 63, Subpart ZZZZ "National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines" and Subpart A "General Provisions."

Stationary RICE subject to limited requirements [40 CFR 63.6590(b)]

- b. Pursuant to 40 CFR 63.6590(b)(3)(iii), these sources do not have to meet the requirements of 40 CFR 63 Subpart ZZZZ and of Subpart A, including initial notification requirements.

D. Glass modification, Glass Drying, and Tramp Fume Collection System (ID No. ES-001) with scrubber controls, Glass Drying, and Tramp Fume Emissions Collection System¹ (ID No. ES-005) with scrubber controls, and Glass Drying Process (ID No. ES-009) with scrubber controls

The following table provides a summary of limits and standards for the emission source(s) described above:

Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	(ID No. ES-005 only) For process rates less than or equal to 30 tons per hour: $E = 4.10 \times P^{0.67}$ For process rates greater than 30 tons per hour: $E = 55.0 \times P^{0.11} - 40$ Where: E = allowable emission rate in pounds per hour, and P = process weight in tons per hour	15A NCAC 2D .0515
Visible emissions	(ID No. ES-005 only) 20 percent opacity	15A NCAC 02D .0521
PM10	PSD Avoidance - facility wide emissions shall not exceed 250 tons per consecutive 12-month period, running monthly total (See Multiple Emissions Sources - Section 2.2 E.1)	15A NCAC 02Q .0317 (Avoidance Condition for 15A NCAC 02D .0530)
Odorous emissions	State-enforceable only See Section 2.2 A.1	15A NCAC 02D .1806
Toxic air pollutants	State-enforceable only - toxic air pollutant ambient impact must not exceed acceptable ambient concentrations (See Multiple Emissions Sources - Section 2.2 D.1)	15A NCAC 02D .1100

1. 15A NCAC 2D .0515: PARTICULATES FROM MISCELLANEOUS INDUSTRIAL PROCESSES

- a. Emissions of particulate matter from these sources shall not exceed an allowable emission rate as calculated by the following equations:

For process rates less than or equal to 30 tons per hour:

$$E = 4.10 \times P^{0.67}$$

For process rates greater than 30 tons per hour:

$$E = 55.0 \times P^{0.11} - 40$$

Where:

E = allowable emission rate in pounds per hour, and

P = process weight in tons per hour

Liquid and gaseous fuels and combustion air are not considered as part of the process weight.

Testing [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 D.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515.

Monitoring/Recordkeeping/ Reporting [15A NCAC 02Q .0508(f)]

¹ Note – (Application 6500049.19A)

(ES-005) is controlled by scrubbers (ID Nos. CD-POU-2, CD-TF-6, CD-TF-7, CD-TF-8, and CD-TF-9) and all the controlled emissions from (ES-005) vents into Stack 3.

Controlled emissions from control device (ID No. CD-POU-2) are further controlled by (ID Nos. CD-TF-6 and CD-TF-7). The control device (ID No. CD-POU-2) can also be completely bypassed based on the raw material used in source (ES-005).

- c. No monitoring/ recordkeeping/ reporting will be required for particulate emissions from these sources (**ID Nos. ID No. ES-001 and ES-009**).

Monitoring [15A NCAC 02Q .0508(f)]

- d. Particulate matter emissions from this source (**ID No ES-005**) shall be controlled by the scrubber (**ID No. CD-POU-2**). To ensure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there are no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include the following:
 - i. a monthly visual inspection of the system ductwork and material collection unit for leaks; and
 - ii. an annual (for each 12-month period following the initial inspection) internal inspection of the scrubber's structural integrity.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515 if the ductwork and is not inspected and maintained.

Recordkeeping [15A NCAC 02Q .0508(f)]

- e. For source (**ID No ES-005**) the results of inspection and maintenance shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each inspection;
 - iii. the results of any maintenance performed on any control device; and
 - iv. any variance from manufacturer's recommendations, if any, and corrections made.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515 if these records are not maintained.

Reporting [15A NCAC 02Q .0508(f)]

- f. For source (**ID No ES-005**) the Permittee shall submit the results of any maintenance performed on any control device within 30 days of a written request by the DAQ.
- g. For source (**ID No ES-005**) the Permittee shall submit a summary report of the monitoring and recordkeeping activities given in Sections 2.1 D.1.d and e above postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

2. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from this source (**ID No. ES-005**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent opacity not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

Testing [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 D.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

Monitoring/Recordkeeping [15A NCAC 02Q .0508(f)]

- c. To ensure compliance, once a month the Permittee shall observe the emission point of this source (**ID No. ES-005**) for any visible emissions above normal. The monthly observation must be made for each month of the calendar year period to ensure compliance with this requirement. If visible emissions from this source is observed to be above normal, the Permittee shall either:
 - i. Take appropriate action to correct the above-normal emissions as soon as practicable and within the

monitoring period and record the action taken as provided in the recordkeeping requirements below, or

- ii. Demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2610 (EPA Method 9) for 12 minutes is below the limit given in Section 2.1 D.2.a above.

If the above-normal emissions are not corrected per i. above or if the demonstration in ii. above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521.

- d. The results of the observations shall be maintained in a logbook (written or electronic form) on site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. The date and time of each recorded action;
 - ii. The results of each observation noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
 - iii. The results of any corrective actions performed.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if these records are not maintained.

Reporting [15A NCAC 02Q .0508(f)]

- e. The Permittee shall submit a summary report of the monitoring and recordkeeping activities given in Section 2.1 D.2.c and d above postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

E. Acrylate Coating and Curing Operations for Optical Fiber (ID No. ES-COATING)

The following table provides a summary of limits and standards for the emission source(s) described above:

Pollutant	Limits/Standards	Applicable Regulation
Odorous emissions	State-enforceable only See Section 2.2 A.1	15A NCAC 02D .1806
Toxic air pollutants	State-enforceable only - facility wide emissions shall not exceed toxic pollutant exemption rates (See Multiple Emissions Sources - Section 2.2 C.1)	15A NCAC 02D .0711

2.2 - Multiple Emission Source(s) Specific Limitations and Conditions

A. Facility Wide

The following table provides a summary of limits and standards for the emission source(s) describe above:

Pollutant	Limits/Standards	Applicable Regulation
Odor	State-enforceable only odor control	15A NCAC 02D .1806

State-enforceable only

1. 15A NCAC 02D .1806: CONTROL AND PROHIBITION OF ODOROUS EMISSIONS

The Permittee shall not operate the facility without implementing management practices or installing and operating odor control equipment sufficient to prevent odorous emissions from the facility from causing or contributing to objectionable odors beyond the facility's boundary. The Permittee shall not operate the facility without implementing management practices or installing and operating odor control equipment sufficient to prevent odorous emissions from the facility from causing or contributing to objectionable odors beyond the facility's boundary.

**B. Facility Wide Including:
Five Chemical Vapor Deposition Processes (ID Nos. ES-002, ES-004, ES-006, ES-007, and ES-008);
Glass Modification Equipment (ID No. ES-011); and Diesel-fired Internal Combustion Engines**

The following table provides a summary of limits and standards for the emission source(s) describe above:

Pollutant	Limits/Standards	Applicable Regulation
NOx	Facility wide emissions of nitrogen oxides shall not exceed 250 tons per consecutive 12-month period on a rolling total basis	15A NCAC 02Q .0317 (Avoidance Condition for 15A NCAC 02D .0530)

**1. 15A NCAC 02Q .0317: AVOIDANCE CONDITION for
15A NCAC 02D .0530: PREVENTION OF SIGNIFICANT DETERIORATION**

- a. To comply with this permit and avoid the applicability of 15A NCAC 02D .0530 "Prevention of Significant Deterioration," as requested by the Permittee, nitrogen oxides emissions from the facility shall be less than 250 tons per consecutive 12-month period on a rolling monthly total basis.

Operation Restrictions [15A NCAC 02Q .0508(f)]

- b. To ensure emissions do not exceed the limitations above, NOx emissions shall be calculated as follows:
 - i. NOx emissions from the processes **ES-002** and **ES-008** shall be the Btu heat input to the process times 1.065 tons of nitrogen oxide per billion Btu (except for the TAS lathe at **ES-002** whose emission factor is 1.82 tons of nitrogen oxide per billion Btu),
 - ii. NOx emissions from process **ES-006** shall be the Btu heat input times 1.494 tons of nitrogen oxide per billion Btu,
 - iii. NOx emissions from the processes **ES-004** and **ES-007** shall be the heat input to the process times 1.95 tons of nitrogen oxide per billion Btu, and
 - iv. NOx emission from the diesel-fired engines shall be determined using the actual heat input times the current AP-42 emissions factor, documented manufacturer's emission factors.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if the nitrogen oxide emissions logbook is not maintained or if the nitrogen oxide emissions exceed the limit in Section 2.2-B.1.a. above.

Testing [15A NCAC 02Q .0508(f)]

- c. If emissions testing is required, the Permittee shall perform such testing in accordance with General Condition JJ.
 - i. Periodic testing of the above sources (**ID Nos. ES-004 and ES-007**) shall be conducted once every 5 years. If the results of this test are above the limits given in Sections 2.2 B.1.a. above for NOx emission rates, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530.
 - ii. Operating parameters or emission factors as specified in this permit do not apply during performance tests or emissions tests conducted in an attempt to establish new operating parameters or emission factors. The source shall be responsible for ensuring, within the limits of practicality, that the equipment or process being tested is operated at or near its maximum normal production rate, or at a lesser rate if specified by the Director or his delegate. The results of any testing pursuant to this paragraph shall be submitted to DAQ within 30 days of receipt by the Permittee.

Recordkeeping Requirements [15A NCAC 02Q .0508(f)]

- d. The Permittee shall keep each monthly record on file for a minimum of three years. The report shall contain the following:
 - i. the date meter read, the meter reading, and the calculated quantity by fuel type delivered to processes ES-002, ES-004, ES-006, ES-007, ES-008, and ES-011. In addition, the silicon fluid delivered to these processes shall be measured monthly by load cells or on a per drum basis,
 - ii. a detailed list of the lathes which comprise processes ES-002, ES-004, ES-006, ES-007, and ES-008 from which nitrogen oxide is emitted,
 - iii. monthly calculation of heat input to processes ES-002, ES-004, ES-006, ES-007, ES-008, ES-011, and the diesel engines, and
 - iv. the dates of meter calibration by identification number and a brief summary of any required meter calibrations.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if the above records are not maintained.

Reporting Requirements [15A NCAC 02Q .0508(f)]

- e. The Permittee shall submit a semi-annual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December, and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following:
 - i. the monthly nitrogen oxide emissions for the previous 17 months. The emissions must be calculated for each of the 12-month periods over the previous 17 months,
 - ii. the monthly Btu heat input for processes **ES-002**, **ES-004**, **ES-006**, **ES-007**, **ES-008**, and **ES-011** including the heat input value of the silicon fluid for the previous 17 months, and
 - iii. The monthly heat input to the diesel engines for the previous the previous 17 months.
 - iv. All instances of deviations from the requirements of this permit must be clearly identified.

**C. Facility Wide Including:
Acrylate Coating and Curing for Glass Optical Fiber (ID No. ES-COATING)**

The following table provides a summary of limits and standards for the emission source(s) describe above:

Pollutant	Limits/Standards	Applicable Regulation
Toxic air pollutants	State-enforceable only facility wide emissions of toxic air pollutants shall not exceed the applicable toxic pollutant exemption rate (TPER)	15A NCAC 02Q .0711

State-enforceable only

1. 15A NCAC 02Q .0711: TOXIC AIR POLLUTANT EMISSIONS REQUIRING A PERMIT

Pursuant to 15A NCAC 02Q .0711 Emission Rates Requiring a Permit, for each of the below listed toxic air pollutants (TAPs), the Permittee has made a demonstration that facility-wide actual emissions do not exceed the Toxic Permit Emission Rates (TPERs) listed in 15A NCAC 02Q .0711. The facility shall be operated and maintained in such a manner that emissions of any listed TAPs from the facility, including fugitive emissions, will not exceed TPERs listed in 15A NCAC 02Q .0711.

- a. A permit to emit any of the below listed TAPs shall be required for this facility if actual emissions from all sources will become greater than the corresponding TPERs.
- b. PRIOR to exceeding any of these listed TPERs, the Permittee shall be responsible for obtaining a permit to emit TAPs and for demonstrating compliance with the requirements of 15A NCAC 02D .1100 "Control of Toxic Air Pollutants".
- c. In accordance with the approved application, the Permittee shall maintain records of operational information demonstrating that the TAP emissions do not exceed the TPERs as listed below:

	TPERs Limitations			
Pollutant (CAS Number)	Carcinogens (lb/yr)	Chronic Toxicants (lb/day)	Acute Systemic Toxicants (lb/hr)	Acute Irritants (lb/hr)
Methyl Ethyl Ketone (78-93-3)		78		22.4
Toluene (108-88-33)		98		14.4
Xylene (1330-20-7)		57		16.4

- D. Glass Modification, Glass Drying, and Tramp Fume Emissions Collection System (ID No. ES-001) with scrubber controls,
Two Chemical Vapor Deposition Processes (ID Nos. ES-002 and ES-008) with fabric filter and scrubber controls,
Miscellaneous Emission Collections System (ID No. ES-003) with scrubber controls,
Glass Drying and Tramp Fume Collection System (ID No. ES-005) with scrubber controls,
Chemical Vapor Deposition Processes (ID No. ES-006) with fabric filter controls,
Glass Drying Process (ID No. ES-009) with scrubber controls,
Various Wave Guide Manufacturing Equipment Emissions Collection System (ID No. ES-010) with scrubber controls, and
Glass Modification Process (ID No. ES-011) with oxidizer, fabric filter, and scrubber controls**

The following table provides a summary of limits and standards for the emission source(s) describe above:

Pollutant	Limits/Standards	Applicable Regulation
Toxic air pollutants	State-enforceable only toxic air pollutants shall not exceed the applicable emissions rate to ensure that the acceptable ambient air quality levels (AAL) are not exceeded	15A NCAC 02D .1100

State-enforceable only

1. 15A NCAC 02D .1100: CONTROL OF TOXIC AIR POLLUTANTS

The Permittee has submitted a toxic air pollutant dispersion modeling analysis dated May 26, 2021 for the facility’s toxic air pollutant emissions as listed in the above table. The modeling analysis was reviewed and approved by the AQAB on July 15, 2021. Placement of the emission sources, configuration of the emission points, and operation of the sources shall be in accordance with the submitted dispersion modeling analysis and should reflect any changes from the original analysis submittal as outlined in the AQAB review memo.

Emission Point	Toxic Air Pollutant	Emission Limits
Stack 2A	Hydrogen Chloride *	12.12 lb/hr
	Chlorine *	15.57 lbs/hr and 373.68 lb/day
	Total Fluorides (including HF)	2.82 lb/hr and 67.68 lb/day
	Hydrogen Fluoride	2.97 lb/hr and 71.28 lb/day
Stack 3	Hydrogen Chloride *	128.75 lb/hr
	Chlorine *	65.65 lb/hr and 1575.60 lb/day
	Total Fluorides (including HF)	2.59 lb/hr and 49.38 lb/day
	Hydrogen Fluoride	1.98 lb/hr and 32.81 lb/day
Stack 5	Hydrogen Chloride *	0.79 lb/hr
	Chlorine *	3.51 lb/hr and 38.47 lb/day
Stack 6	Total Fluorides (including HF)	4.96 lb/hr and 119.04 lb/day

Emission Point	Toxic Air Pollutant	Emission Limits
	Hydrogen Fluoride	3.02 lb/hr and 7 2.48 lb/day

* Hydrogen chloride and chlorine emissions shall be monitored as specified in Section 2.2 D.1.b.i.below.

- a. **Emissions Control Requirements** [15A NCAC 02Q .0308(a)]
 - i. **WET SCRUBBER SYSTEM REQUIREMENTS** - Hydrogen chloride and chlorine toxic air pollutant emissions shall be controlled as described in the permitted equipment list.
 - (A) **Wet Scrubber Systems Inspection and Maintenance Requirements**
To comply with the provisions of this Permit and ensure that optimum control efficiency is maintained, the Permittee shall establish an inspection and maintenance schedule/checklist based on manufacturer's recommendations. Additionally, an annual internal inspection shall be conducted on the wet scrubbers by the Permittee to ensure structural integrity such that optimum control efficiency is achieved. As a minimum, the inspection and maintenance program will include inspection of spray nozzles, packing material, chemical feed system (if so equipped), and the cleaning/calibration of all associated instrumentation.
 - (B) **Wet Scrubber Systems Monitoring Requirements**
The Permittee shall ensure the proper performance of each scrubber by monitoring the following operational parameters where appropriate:
 - (1) recycle liquid flow rates,
 - (2) sump levels,
 - (3) pH of recirculation tank scrubbing solution, and
 - (4) pressure drop across each scrubber.
 - (C) **Wet Scrubber Systems Record Keeping and Reporting Requirements**
A scrubber logbook or equivalent shall be kept on site and made available to DAQ personnel upon request. Any variance from manufacturer's recommendations shall be investigated with corrections made and date of actions recorded in the logbook. Inspections and maintenance of the I & M program, the recycle liquid flow rates, sump levels, pH of the scrubber solutions, and the pressure drop across the scrubbers shall be recorded in a log book, or equivalent. No reporting is required.
 - ii. **THERMAL OXIDIZER REQUIREMENTS** - Fluoride compound emissions from the glass modification process (**ID No. ES-011**) shall undergo degradation by thermal oxidizers (**ID Nos. CD-OX1 through CD-OX6**).
 - (A) **Inspection and Maintenance Requirements** - To comply with the provisions of this permit and ensure that emissions do not exceed the regulatory limits, the Permittee shall perform periodic inspection and maintenance (I&M) as recommended by the manufacturer. As a minimum, the Permittee shall perform an annual internal inspection of the combustion head to ensure structural integrity.
 - (B) **Recordkeeping Requirements** - The results of all inspections and any variance from manufacturer's recommendations or from those given in this permit (when applicable) shall be investigated with corrections made and dates of actions recorded in a logbook. Records of all maintenance and monitoring activities shall be recorded in the logbook. The logbook (in written or electronic form) shall be kept on-site and made available to DAQ personnel upon request.
 - (C) **Monitoring Requirements** - The Permittee shall ensure the proper performance of the thermal oxidizer by monitoring the following operational parameters:
 - (1) the Permittee shall continuously measure the temperature at the combustion chamber (design range of 1,200 F to 2,100 F), and
 - (2) the Permittee shall continuously measure the flow rate to the oxidizer (13.70 to 24.33 scfm per oxidizer unit on-line).
 - iii. **ADSORBER SYSTEM REQUIREMENTS** - Hydrogen fluoride emissions from the glass modification process (**ID No. ES-011**) shall be controlled by a vertical moving bed limestone adsorber (**ID No. CD-HFS-1**).
 - (A) **Adsorber System Inspection and Maintenance Requirements**
To comply with the provisions of this Permit and ensure that optimum control efficiency is maintained, the Permittee shall establish an inspection and maintenance schedule/checklist based on manufacturer's recommendations. Additionally, an annual inspection shall be conducted on the adsorber by the Permittee to ensure structural integrity such that optimum control efficiency is achieved.
 - (B) **Adsorber System Monitoring Requirements**
The Permittee shall ensure the proper performance of each scrubber by monitoring the following operational parameters where appropriate:

- (1) pressure drop across the adsorber and
- (2) verification of limestone bed movement through the adsorber by way of feed hopper replenishment.
- (C) Adsorber System Record Keeping and Reporting Requirements
 - A scrubber logbook or equivalent shall be kept on site and made available to DAQ personnel upon request. Any variance from manufacturer's recommendations shall be investigated with corrections made and date of actions recorded in the logbook. The I & M program, feed hopper replenishment for the limestone adsorber, and the pressure drop across the adsorber shall be recorded. The results of inspections and any maintenance performed on the adsorber shall be recorded in a log book, or equivalent. No reporting is required.
- b. **Emission Monitoring and Recordkeeping Requirements** [15A NCAC 02Q .0308(a)]
 - i. Hydrogen chloride and chlorine emissions shall be monitored as follows.
 - (A) A physical audit of all production equipment set-ups, covered under Sources **ES-002, ES-005, ES-008, ES-009, and ES-010** shall be conducted where applicable on a quarterly basis to certify that the mass flow controllers are the correct size and at correct setting. In addition, a quarterly sample audit of recipes shall be made where applicable to help ensure that the potential does not exist for the permit limits to be exceeded based on material balance.
 - (B) The Permittee shall maintain records of production rates, throughput, material usage, and other process operational information as is necessary to determine compliance with the above toxic air pollutant emission limits at sources **ES-001, ES-002, ES-003 ES-005, ES-008, ES-009, and ES-010**.
 - ii. All records required by these permit stipulations shall be kept on site and made available to the DAQ upon request. The Permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in this permit for a minimum of two years from the date of recording. For compliance purposes, within 30 days after each calendar year quarter, the Permittee shall provide to the Regional Supervisor a certification that the monitoring described above was performed and include a summary of the results.

E. Facility Wide Including:

- Five Chemical Vapor Deposition Processes (ID Nos. ES-002, ES-004, ES-006, ES-007, and ES-008);**
- Miscellaneous Emissions Collection System (ID Nos. ES-003);**
- Glass Drying and Tramp Fume Collection System (ID Nos. ES-005);**
- Various Waveguide Manufacturing Equipment (ID Nos. ES-010);**
- Glass Modification Equipment (ID No. ES-011);**
- Emergency Bulk SiCl₄ System (ID Nos. IES-EBSV);**
- Soot Silos (ID Nos. IES-SHP1, IES-SHP2);**
- Soot Vacuum Systems (ID Nos. IES-SOOTVACS); and**
- Diesel-fired Internal Combustion Engines**

The following table provides a summary of limits and standards for the emission source(s) describe above:

Pollutant	Limits/Standards	Applicable Regulation
PM-10	facility wide emissions of PM-10 shall not exceed 250 tons per consecutive 12-month period on a rolling total basis	15A NCAC 02Q .0317 (Avoidance Condition for 15A NCAC 02D .0530)

**1. 15A NCAC 02Q .0317: AVOIDANCE CONDITION
for 15A NCAC 02D .0530: PREVENTION OF SIGNIFICANT DETERIORATION**

- a. To comply with this permit and avoid the applicability of 15A NCAC 02D .0530 "Prevention of Significant Deterioration," as requested by the Permittee, PM₁₀ emissions from the facility shall be less than 250 tons per consecutive 12-month period, calculated once per year.

Operation Restrictions [15A NCAC 02Q .0508(f)]

- b. To ensure emissions do not exceed the limitations above, PM₁₀ emissions shall be calculated as follows:
 - i. PM-10 emissions from the processes **ES-002, ES-004, ES-006, ES-007 and ES-008** shall be based upon raw material usage rates, stoichiometric conversions and stated fabric filter efficiencies,
 - ii. PM-10 emissions from process **ES-003, ES-005, ES-010, ES-011** shall be based upon raw material usage rates and stoichiometric conversions,
 - iii. PM-10 emissions from the emergency bulk SiCl₄ system, humidification boilers, soot silos, soot vacuums and diesel-fired engines shall be the permitted potential to emit from these sources.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if the PM₁₀ emissions logbook is not maintained or if the PM₁₀ emissions exceed the limit in Section 2.2 B.1 above.

Recordkeeping Requirements [15A NCAC 02Q .0508(f)]

- c. The Permittee shall keep an annual record on file for a minimum of three years. The report shall contain the annual raw material usage rates for processes **ES-002, ES-004, ES-006, ES-007, ES-008, ES-003, ES-005, ES-010 and ES-011**. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if the above records are not maintained.

Reporting Requirements [15A NCAC 02Q .0508(f)]

- d. The Permittee shall submit a semi-annual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities given in Section 2.2 E.1.b and c above postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December, and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following:
 - i. the monthly PM-10 emissions for the previous 17 months. The emissions must be calculated for each of the 12-month periods over the previous 17 months,
 - ii. all instances of deviations from the requirements of this permit must be clearly identified. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if the PM₁₀ emissions logbook is not maintained or if the PM-10 emissions exceed the limit in Section 2.2 E.1 above.

2.3 – Compliance Assurance Monitoring (40 CFR 64)

Per 40 CFR Part 64 and 15A NCAC 02D .0614, the Permittee shall comply with the following compliance assurance monitoring (CAM) requirements

Background:

- a. Emission Unit(s) and Control Devices:
 - i. the natural gas-fired chemical vapor deposition process (ID No. ES-002) is controlled by the three parallel fabric filters (ID Nos. CD-BH-1, CD-BH-2, and CD-BH-3),
 - ii. the natural gas-fired chemical vapor deposition process (ID No. ES-006) is controlled by the fabric filter (ID No. CD-BH-4),
 - iii. The natural gas fired vapor deposition process (ID No. ES-007) is controlled by the fabric filter (ID No. CD-BH-5),
 - iv. the natural gas-fired chemical vapor deposition process (ID No. ES-004) is controlled by the fabric filter (ID No. CD-BH-9).

The Permittee shall monitor the pressure differential across each bagfilter. The sources, control devices, pollutant controlled, regulation, maximum and minimum pressure difference across each bagfilter are outlined in the table below:

Source	Control device(s)	Pollutant controlled	Regulation	Maximum pressure difference across the bagfilter in inches of water	Minimum pressure difference across the bagfilter in inches of water
ES-002	CD-BH-1, CD-BH-2, and CD-BH-3	PM10	02D .0515	14.5	0.1
ES-006	CD-BH-4	PM10	02D .0515	14.5	0.075
ES-007	CD-BH-5	PM10	02D .0515	14.0	0.2
ES-004	CD-BH-9	PM10	02D .0515	16.5	0.2

Monitoring Approach.

- b. The key elements of the monitoring approach are presented in the following table.

Indicator [64.6(c)(1)(i)]	The pressure difference across each bagfilter shall be recorded once per day during operation.
Measurement Approach [64.6(c)(1)(ii)]	Pressure measurements are indicated by pressure transmitters on both the inlet and outlet side of each baghouse.
Indicator Range and excursion [64.6(c)(2)]	An excursion is defined as a pressure drop outside the indicator range as specified in the table above 2.3 A.1. Excursions trigger inspection, corrective action, and a reporting requirement.
Quality Improvement Plan (QIP) Threshold [64.8]	Four excursions, as defined above, within any 6-month period.
QA/QC Practices and Criteria [64.3(b)(3)]	The monitoring devices shall be calibrated once per year, and as per manufactures’s recommendation.
Monitoring Frequency [64.7(c)]	The pressure drop is monitored continuously.
Data Collection Procedure [64.3(b)(4)]	The daily results shall be recorded once per day (24-hour period) and kept in a logbook
Averaging Period	None

Recordkeeping and Reporting [40 CFR 64.9, 15A NCAC 02Q .0508(f)]

- c. The permittee shall comply with the recordkeeping requirements of 40 CFR 64.9(b) and submit a summary

report of the monitoring and recordkeeping activities given in Section 2.3 b above postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified. The reports shall comply with the reporting requirements of 40 CFR 64.9(a) and include, at a minimum, the following information, as applicable:

- i. Summary information on the number, duration and cause (including unknown cause, if applicable) of exceedances, as applicable, and the corrective actions taken;
- ii. Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and
- iii. A description of the actions taken to implement a QIP during the reporting period as specified in 40 CFR 64.8. Upon completion of a QIP, the Permittee 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.

2.4 - Other Applicable Requirements

1. 15A NCAC 02D .2100: RISK MANAEMENT PROGRAM

- a. The Permittee is subject to Section 112(r) of the Clean Air Act and shall comply with all applicable requirements in 15A NCAC 02D .2100, "Risk Management Program," as promulgated in 40 CFR Part 68.

Recordkeeping/Reporting [15A NCAC 02Q .0508(f)]

- c. The Permittee shall revise and update the RMP submitted under 40 CFR 68.150 no later than 28 January 2026 and at least every five years after that date or most recent update as required by 40 CFR 68.190(b)(2) through (b)(7), whichever is later.
- d. When the Permittee submits the Annual Compliance Certification required by General Condition P, the Permittee shall include a statement that the facility is in compliance with all requirements of 15A NCAC 02D .2100, including the registration and submission of the risk management plan.

SECTION 3 - INSIGNIFICANT ACTIVITIES PER 15A NCAC 02Q .0503(8)

Emission Source ID No.	Emission Source Description ^{1,2}
ES-HB MACT DDDDD	One natural gas-fired humidification boiler (2.9 million Btu per hour)
ES-EPG1 MACT ZZZZ	One CI diesel-fired emergency generator (800 hp, 450 kW)
ES-EPG2 MACT ZZZZ	One CI diesel-fired emergency generator (800 hp, 450 kW)
ES-FP1 MACT ZZZZ	One CI diesel-fired emergency fire pump (160 hp)
ES-FP2 MACT ZZZZ	One CI diesel-fired emergency fire pump (187 hp)
ES-FP3 MACT ZZZZ	One CI diesel-fired emergency fire pump (160 hp)
IES-D	Diesel storage tanks with a maximum capacity of 65,000 gallons
IES-CT	Cooling tower
IES-DRAW	Draw Conditioning
IES-EBSV	Emergency bulk SiC14 system (ID No. ES-EBSV) with associated spray scrubber (50 gpm liquid injection rate, ID No. CD-HCl-090)
IES-EHVS	Emergency halide storage area ventilation system
IES-EPG-6*	One diesel-fired IC driven emergency generator (755 hp)
IES-EPG-7*	One diesel-fired IC driven emergency generator (708 hp)
IES-FB	Maintenance spray booth
IES-GC	Glass cleaning operation
IES-HOUSEVACS	House vacuum systems with fabric filters
IES-PC	Purge carts
IES-SHP1	One soot handling silo (1,200 cubic foot capacity, north silo)
IES-SHP2	One soot handling silo (1,200 cubic foot capacity, south silo)
IES-SOOTVACS	Soot vacuum systems with fabric filters
IES-Solvent	Fugitive solvent emissions
IES-nMPDIECLEAN	Three nonhalogenated solvent vapor cleaning machine
IES-CF	Furnace Gas Treatment

¹ Because an activity is insignificant does not mean that the activity is exempted from an applicable requirement (Federal or State) or that the Permittee is exempted from demonstrating compliance with any applicable requirement.

² When applicable, emissions from stationary source activities identified above shall be included in determining compliance with the permit requirements for toxic air pollutants under 15A NCAC 02D .1100 "Control of Toxic Air Pollutants" or 02Q .0711 "Emission Rates Requiring a Permit."

SECTION 4 - GENERAL CONDITIONS (version 7.0, 08/21/2023)

This section describes terms and conditions applicable to this Title V facility.

- A. **General Provisions** [NCGS 143-215 and 15A NCAC 02Q .0508(i)(16)]
1. Terms not otherwise defined in this permit shall have the meaning assigned to such terms as defined in 15A NCAC 02D and 02Q.
 2. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are binding and enforceable pursuant to NCGS 143-215.114A and 143-215.114B, including assessment of civil and/or criminal penalties. Any unauthorized deviation from the conditions of this permit may constitute grounds for revocation and/or enforcement action by the DAQ.
 3. This permit is not a waiver of or approval of any other Department permits that may be required for other aspects of the facility which are not addressed in this permit.
 4. 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, nor does it allow the Permittee to cause pollution in contravention of state laws or rules, unless specifically authorized by an order from the North Carolina Environmental Management Commission.
 5. Except as identified as state-only requirements in this permit, all terms and conditions contained herein shall be enforceable by the DAQ, the EPA, and citizens of the United States as defined in the Federal Clean Air Act.
 6. Any stationary source of air pollution shall not be operated, maintained, or modified without the appropriate and valid permits issued by the DAQ, unless the source is exempted by rule. The DAQ may issue a permit only after it receives reasonable assurance that the installation will not cause air pollution in violation of any of the applicable requirements. A permitted installation may only be operated, maintained, constructed, expanded, or modified in a manner that is consistent with the terms of this permit.
- B. **Permit Availability** [15A NCAC 02Q .0507(k) and .0508(i)(9)(B)]
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(s) and any information submitted in support of the application package. The permit and application shall be made available to an authorized representative of Department of Environmental Quality upon request.
- C. **Severability Clause** [15A NCAC 02Q .0508(i)(2)]
In the event of an administrative challenge to a final and binding permit in which a condition is held to be invalid, the provisions in this permit are severable so that all requirements contained in the permit, except those held to be invalid, shall remain valid and must be complied with.
- D. **Submissions** [15A NCAC 02Q .0507(e) and 02Q .0508(i)(16)]
Except as otherwise specified herein, two copies of all documents, reports, test data, monitoring data, notifications, request for renewal, and any other information required by this permit shall be submitted to the appropriate Regional Office. Refer to the Regional Office address on the cover page of this permit. For continuous emissions monitoring systems (CEMS) reports, continuous opacity monitoring systems (COMS) reports, quality assurance (QA)/quality control (QC) reports, acid rain CEM certification reports, and NOx budget CEM certification reports, one copy shall be sent to the appropriate Regional Office and one copy shall be sent to:
- Supervisor, Stationary Source Compliance
North Carolina Division of Air Quality
1641 Mail Service Center
Raleigh, NC 27699-1641
- All submittals shall include the facility name and Facility ID number (refer to the cover page of this permit).
- E. **Duty to Comply** [15A NCAC 02Q .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 except conditions identified as state-only requirements constitutes a violation of the Federal Clean Air Act. 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.

F. **Circumvention** - STATE ENFORCEABLE ONLY

The facility shall be properly operated and maintained at all times in a manner that will effect an overall reduction in air pollution. Unless otherwise specified by this permit, no emission source may be operated without the concurrent operation of its associated air pollution control device(s) and appurtenances.

G. **Title V Permit Modifications**

1. Administrative Permit Amendments [15A NCAC 02Q .0514]
The Permittee shall submit an application for an administrative permit amendment in accordance with 15A NCAC 02Q .0514.
2. Transfer in Ownership or Operation and Application Submittal Content [15A NCAC 02Q .0524 and 02Q .0505]
The Permittee shall submit an application for an ownership change in accordance with 15A NCAC 02Q.0524 and 02Q .0505.
3. Minor Permit Modifications [15A NCAC 02Q .0515]
The Permittee shall submit an application for a minor permit modification in accordance with 15A NCAC 02Q .0515.
4. Significant Permit Modifications [15A NCAC 02Q .0516]
The Permittee shall submit an application for a significant permit modification in accordance with 15A NCAC 02Q .0516.
5. Reopening for Cause [15A NCAC 02Q .0517]
The Permittee shall submit an application for reopening for cause in accordance with 15A NCAC 02Q .0517.

H. **Changes Not Requiring Permit Modifications**

1. Reporting Requirements [15A NCAC 02Q .0508(f)]
Any of the following that would result in new or increased emissions from the emission source(s) listed in Section 1 must be reported to the Regional Supervisor, DAQ:
 - a. changes in the information submitted in the application;
 - b. changes that modify equipment or processes; or
 - c. changes in the quantity or quality of materials processed.If appropriate, modifications to the permit may then be made by the DAQ to reflect any necessary changes in the permit conditions. In no case are any new or increased emissions allowed that will cause a violation of the emission limitations specified herein.
2. Section 502(b)(10) Changes [15A NCAC 02Q .0523(a)]
 - a. "Section 502(b)(10) changes" means changes that contravene an express permit term or condition. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.
 - b. The Permittee may make Section 502(b)(10) changes without having the permit revised if:
 - i. the changes are not a modification under Title I of the Federal Clean Air Act;
 - ii. the changes do not cause the allowable emissions under the permit to be exceeded;
 - iii. the Permittee notifies the Director and EPA with written notification at least seven days before the change is made; and
 - iv. the Permittee shall attach the notice to the relevant permit.
 - c. The written notification shall include:
 - i. a description of the change;
 - ii. the date on which the change will occur;
 - iii. any change in emissions; and
 - iv. any permit term or condition that is no longer applicable as a result of the change.
 - d. Section 502(b)(10) changes shall be made in the permit the next time that the permit is revised or renewed, whichever comes first.
3. Off Permit Changes [15A NCAC 02Q .0523(b)]
The Permittee may make changes in the operation or emissions without revising the permit if:
 - a. the change affects only insignificant activities and the activities remain insignificant after the change; or
 - b. the change is not covered under any applicable requirement.
4. Emissions Trading [15A NCAC 02Q .0523(c)]
To the extent that emissions trading is allowed under 15A NCAC 02D, including subsequently adopted maximum achievable control technology standards, emissions trading shall be allowed without permit revision pursuant to 15A NCAC 02Q .0523(c).

I.A. Reporting Requirements for Excess Emissions [15A NCAC 02D .0535(f) and 02Q .0508(f)(2)]

1. **"Excess Emissions"** - means an emission rate that exceeds any applicable emission limitation or standard allowed by any rule in Sections .0500, .0900, .1200, or .1400 of Subchapter 02D; or by a permit condition; or that exceeds an emission limit established in a permit issued under 15A NCAC 02Q .0700. *(Note: Definitions of excess emissions under 02D .1110 and 02D .1111 shall apply where defined by rule.)*
2. If a source is required to report excess emissions under NSPS (15A NCAC 02D .0524), NESHAPS (15A NCAC 02D .1110 or .1111), or the operating permit provides for periodic (e.g., quarterly) reporting of excess emissions, reporting shall be performed as prescribed therein.
3. If the source is not subject to NSPS (15A NCAC 02D .0524), NESHAPS (15A NCAC 02D .1110 or .1111), or these rules do NOT define "excess emissions," the Permittee shall report excess emissions in accordance with 15A NCAC 02D .0535 as follows:
 - a. Pursuant to 15A NCAC 02D .0535, if excess emissions last for more than four hours resulting from a malfunction, a breakdown of process or control equipment, or any other abnormal condition, the owner or operator shall:
 - i. notify the Regional Supervisor or Director of any such occurrence by 9:00 a.m. Eastern Time of the Division's next business day of becoming aware of the occurrence and provide:
 - name and location of the facility;
 - nature and cause of the malfunction or breakdown;
 - time when the malfunction or breakdown is first observed;
 - expected duration; and
 - estimated rate of emissions;
 - ii. notify the Regional Supervisor or Director immediately when corrective measures have been accomplished; and
 - iii. submit to the Regional Supervisor or Director within 15 days a written report as described in 15A NCAC 02D .0535(f)(3).

I.B. Reporting Requirements for Permit Deviations [15A NCAC 02D .0535(f) and 02Q .0508(f)(2)]

1. **"Permit Deviations"** - for the purposes of this condition, any action or condition not in accordance with the terms and conditions of this permit including those attributable to upset conditions as well as excess emissions as defined above lasting less than four hours.
2. Pursuant to 15A NCAC 02Q .0508(f)(2), the Permittee shall report deviations from permit requirements (terms and conditions) quarterly by notifying the Regional Supervisor or Director of all other deviations from permit requirements not covered under 15A NCAC 02D .0535. A written report to the Regional Supervisor shall include the probable cause of such deviation and any corrective actions or preventative actions taken. The responsible official shall certify all deviations from permit requirements.

I.C. Other Requirements under 15A NCAC 02D .0535

The Permittee shall comply with all other applicable requirements contained in 15A NCAC 02D .0535, including 15A NCAC 02D .0535(c) as follows:

1. Any excess emissions that do not occur during start-up and shut-down shall be considered a violation of the appropriate rule unless the owner or operator of the sources demonstrates to the Director that the excess emissions are a result of a malfunction. The Director shall consider, along with any other pertinent information, the criteria contained in 15A NCAC 02D .0535(c)(1) through (7).
2. 15A NCAC 02D .0535(g). Excess emissions during start-up and shut-down shall be considered a violation of the appropriate rule if the owner or operator cannot demonstrate that excess emissions are unavoidable.

J. RESERVED**K. Permit Renewal** [15A NCAC 02Q .0508(e) and 02Q .0513(b)]

This 15A NCAC 02Q .0500 permit is issued for a fixed term not to exceed five years and shall expire at the end of its term. Permit expiration terminates the facility's right to operate unless a complete 15A NCAC 02Q .0500 renewal application is submitted at least six months before the date of permit expiration. If the Permittee or applicant has complied with 15A NCAC 02Q .0512(b)(1), this 15A NCAC 02Q .0500 permit shall not expire until the renewal permit has been issued or denied. Permit expiration under 15A NCAC 02Q .0400 terminates the facility's right to operate unless a complete 15A NCAC 02Q .0400 renewal application is submitted at least six months before the date of permit expiration for facilities subject to 15A NCAC 02Q .0400 requirements. In either of these events, all terms and conditions of these permits shall remain in effect until the renewal permits have been issued or denied.

L. **Need to Halt or Reduce Activity Not a Defense** [15A NCAC 02Q .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.

M. **Duty to Provide Information (submittal of information)** [15A NCAC 02Q .0508(i)(9)]

1. The Permittee shall furnish to the DAQ, 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.
2. The Permittee shall furnish the DAQ copies of records required to be kept by the permit when such copies are requested by the Director. For information claimed to be confidential, the Permittee may furnish such records directly to the EPA upon request along with a claim of confidentiality.

N. **Duty to Supplement** [15A NCAC 02Q .0507(f)]

The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to the DAQ. The Permittee shall also provide additional information as necessary to address any requirement that becomes applicable to the facility after the date a complete permit application was submitted but prior to the release of the draft permit.

O. **Retention of Records** [15A NCAC 02Q .0508(f) and 02Q .0508(l)]

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. These records shall be maintained in a form suitable and readily available for expeditious inspection and review. Any records required by the conditions of this permit shall be kept on site and made available to DAQ personnel for inspection upon request.

P. **Compliance Certification** [15A NCAC 02Q .0508(n)]

The Permittee shall submit to the DAQ and the EPA (Air Enforcement Branch, EPA, Region 4, 61 Forsyth Street SW, Atlanta, GA 30303 or through the EPA CEDRI) postmarked on or before March 1 a compliance certification (for the preceding calendar year) by a responsible official with all terms and conditions in the permit (including emissions limitations, standards, or work practices), except for conditions identified as being State-enforceable Only. It shall be the responsibility of the current owner to submit a compliance certification for the entire year regardless of who owned the facility during the year. 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 specify:

1. the identification of each term or condition of the permit that is the basis of the certification;
2. the compliance status (with the terms and conditions of the permit for the period covered by the certification);
3. whether compliance was continuous or intermittent;
4. the method(s) used for determining the compliance status of the source during the certification period;
5. each deviation and take it into account in the compliance certification; and
6. as possible exceptions to compliance, any periods during which compliance is required and in which an excursion or exceedance as defined under 40 CFR Part 64 (CAM) occurred.

Q. **Certification by Responsible Official** [15A NCAC 02Q .0520]

A responsible official 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 statements and information in the document are true, accurate, and complete.

R. **Permit Shield for Applicable Requirements** [15A NCAC 02Q .0512]

1. 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.
2. A permit shield shall not alter or affect:
 - a. the power of the Commission, Secretary of the Department, or Governor under NCGS 143-215.3(a)(12), or EPA under Section 303 of the Federal Clean Air Act;
 - b. 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;
 - c. the applicable requirements under Title IV; or

- d. the ability of the Director or the EPA under Section 114 of the Federal Clean Air Act to obtain information to determine compliance of the facility with its permit.
3. A permit shield does not apply to any change made at a facility that does not require a permit or permit revision made under 15A NCAC 02Q .0523.
4. A permit shield does not extend to minor permit modifications made under 15A NCAC 02Q .0515.

S. **Termination, Modification, and Revocation of the Permit** [15A NCAC 02Q .0519]

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

1. the information contained in the application or presented in support thereof is determined to be incorrect;
2. the conditions under which the permit or permit renewal was granted have changed;
3. violations of conditions contained in the permit have occurred;
4. the EPA requests that the permit be revoked under 40 CFR 70.7(g) or 70.8(d); or
5. the Director finds that termination, modification, or revocation and reissuance of the permit is necessary to carry out the purpose of NCGS Chapter 143, Article 21B.

T. **Insignificant Activities** [15A NCAC 02Q .0503]

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 upon request, documentation, including calculations, if necessary, to demonstrate that an emission source or activity is insignificant.

U. **Property Rights** [15A NCAC 02Q .0508(i)(8)]

This permit does not convey any property rights in either real or personal property or any exclusive privileges.

V. **Inspection and Entry** [15A NCAC 02Q .0508(l) and NCGS 143-215.3(a)(2)]

1. Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow the DAQ, or an authorized representative, to perform the following:
 - a. enter 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;
 - b. have access to and copy, at reasonable times, any records that are required to be kept under the conditions of the permit;
 - c. 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
 - d. sample or monitor substances or parameters, using reasonable safety practices, for the purpose of assuring compliance with the permit or applicable requirements at reasonable times.

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

2. No person shall refuse entry or access to any authorized representative of the DAQ who requests entry for purposes of inspection, and who presents appropriate credentials, nor shall any person obstruct, hamper, or interfere with any such authorized representative while in the process of carrying out his official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.

W. **Annual Fee Payment** [15A NCAC 02Q .0508(i)(10)]

1. The Permittee shall pay all fees in accordance with 15A NCAC 02Q .0200.
2. Payment of fees may be by check or money order made payable to the N.C. Department of Environmental Quality. Annual permit fee payments shall refer to the permit number.
3. If, within 30 days after being billed, the Permittee fails to pay an annual fee, the Director may initiate action to terminate the permit under 15A NCAC 02Q .0519.

X. **Annual Emission Inventory Requirements** [15A NCAC 02Q .0207]

The Permittee shall report by **June 30 of each year** the actual emissions of each air pollutant listed in 15A NCAC 02Q .0207(a) from each emission source within the facility during the previous calendar year. The report shall be in or on such form as may be established by the Director. The accuracy of the report shall be certified by a responsible official of the facility.

- Y. **Confidential Information** [15A NCAC 02Q .0107 and 02Q .0508(i)(9)]
Whenever the Permittee submits information under a claim of confidentiality pursuant to 15A NCAC 02Q .0107, the Permittee may also submit a copy of all such information and claim directly to the EPA upon request. All requests for confidentiality must be in accordance with 15A NCAC 02Q .0107.
- Z. **Construction and Operation Permits** [15A NCAC 02Q .0100 and .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 15A NCAC 02Q .0100 and .0300.
- AA. **Standard Application Form and Required Information** [15A NCAC 02Q .0505 and .0507]
The Permittee shall submit applications and required information in accordance with the provisions of 15A NCAC 02Q .0505 and .0507.
- BB. **Financial Responsibility and Compliance History** [15A NCAC 02Q .0507(d)(3)]
The DAQ may require an applicant to submit a statement of financial qualifications and/or a statement of substantial compliance history.
- CC. **Refrigerant Requirements (Stratospheric Ozone and Climate Protection)** [15A NCAC 02Q .0501(d)]
 1. 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 Part 82 Subpart A Appendices A and B, the Permittee shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82 Subpart F.
 2. 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 Part 82 Subpart F.
 3. The Permittee shall comply with all reporting and recordkeeping requirements of 40 CFR 82.166. Reports shall be submitted to the EPA or its designee as required.
- DD. **Prevention of Accidental Releases - Section 112(r)** [15A NCAC 02Q .0508(h)]
If the Permittee is required to develop and register a Risk Management Plan with EPA pursuant to Section 112(r) of the Clean Air Act, then the Permittee is required to register this plan in accordance with 40 CFR Part 68.
- EE. **National Emission Standards Asbestos – 40 CFR Part 61, Subpart M** [15A NCAC 02D .1110]
The Permittee shall comply with all applicable standards for demolition and renovation activities pursuant to the requirements of 40 CFR Part 61, Subpart M. The permittee shall not be required to obtain a modification of this permit in order to perform the referenced activities.
- FF. **Title IV Allowances** [15A NCAC 02Q .0508(i)(1)]
This permit does not limit the number of Title IV allowances held by the Permittee, but the Permittee may not use allowances as a defense to noncompliance with any other applicable requirement. The Permittee's emissions may not exceed any allowances that the facility lawfully holds under Title IV of the Federal Clean Air Act.
- GG. **Air Pollution Emergency Episode** [15A NCAC 02D .0300]
Should the Director of the DAQ declare an Air Pollution Emergency Episode, 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 15A NCAC 02D .0300.
- HH. **Registration of Air Pollution Sources** [15A NCAC 02D .0202]
The Director of the DAQ 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 will be in accordance with 15A NCAC 02D .0202(b).
- II. **Ambient Air Quality Standards** [15A NCAC 02D .0501(c)]
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 15A NCAC 02D .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.

JJ. General Emissions Testing and Reporting Requirements [15A NCAC 02Q .0508(i)(16)]

Emission compliance testing shall be by the procedures of Section .2600, except as may be otherwise required in Rules .0524, .1110, or .1111 of Subchapter 02D. If emissions testing is required by this permit or the DAQ or if the Permittee submits emissions testing to the DAQ to demonstrate compliance for emission sources subject to Rules .0524, .1110, or .1111, the Permittee shall provide and submit all notifications, conduct all testing, and submit all test reports in accordance with the requirements of 15A NCAC 02D .0524, .1110, or .1111, as applicable. Otherwise, if emissions testing is required by this permit or the DAQ or if the Permittee submits emissions testing to the DAQ to demonstrate compliance, the Permittee shall perform such testing in accordance with 15A NCAC 02D .2600 and follow the procedures outlined below:

1. The owner or operator of the source 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 by the Director prior to air pollution testing. The Director shall review air emission testing protocols for pre-approval prior to testing if requested by the owner or operator at least **45 days** before conducting the test.
2. Any person proposing to conduct an emissions test to demonstrate compliance with an applicable standard shall notify the Director at least **15 days** before beginning the test so that the Director may at his option observe the test.
3. The owner or operator of the source shall arrange for controlling and measuring the production rates during the period of air testing. The owner or operator of the source shall ensure that the equipment or process being tested is operated at the production rate that best fulfills the purpose of the test. The individual conducting the emission test shall describe the procedures used to obtain accurate process data and include in the test report the average production rates determined during each testing period.
4. Two copies of the final air emission test report shall be submitted to the Director not later than **30 days** after sample collection unless otherwise specified in the specific conditions. The owner or operator may request an extension to submit the final test report. The Director shall approve an extension request if he finds that the extension request is a result of actions beyond the control of the owner or operator.
 - a. The Director shall make the final determination regarding any testing procedure deviation and the validity of the compliance test. The Director may:
 - i. Allow deviations from a method specified under a rule in this Section if the owner or operator of the source being tested demonstrates to the satisfaction of the Director that the specified method is inappropriate for the source being tested.
 - ii. Prescribe alternate test procedures on an individual basis when he finds that the alternative method is necessary to secure more reliable test data.
 - iii. Prescribe or approve methods on an individual basis for sources or pollutants for which no test method is specified in 15A NCAC 02D .2600 if the methods can be demonstrated to determine compliance of permitted emission sources or pollutants.
 - b. The Director may authorize the DAQ to conduct independent tests of any source subject to a rule in 15A NCAC 02D to determine the compliance status of that source or to verify any test data submitted relating to that source. Any test conducted by the Division of Air Quality using the appropriate testing procedures described in 15A NCAC 02D .2600 has precedence over all other tests.

KK. Reopening for Cause [15A NCAC 02Q .0517]

1. A permit shall be reopened and revised under the following circumstances:
 - a. additional applicable requirements become applicable to a facility with remaining permit term of three or more years;
 - b. additional requirements (including excess emission requirements) become applicable to a source covered by Title IV;
 - c. the Director or EPA finds that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; or
 - d. the Director or EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
2. Any permit reopening shall be completed or a revised permit issued within 18 months after the applicable requirement is promulgated. No reopening is required if the effective date of the requirement is after the expiration of the permit term unless the term of the permit was extended pursuant to 15A NCAC 02Q .0513(c).
3. Except for the state-enforceable only portion of the permit, the procedures set out in 15A NCAC 02Q .0507, .0521, or .0522 shall be followed to reissue the permit. If the State-enforceable only portion of the permit is reopened, the procedures in 15A NCAC 02Q .0300 shall be followed. The proceedings shall affect only those parts of the permit for which cause to reopen exists.

4. The Director shall notify the Permittee at least 60 days in advance of the date that the permit is to be reopened, except in cases of imminent threat to public health or safety the notification period may be less than 60 days.
5. Within 90 days, or 180 days if the EPA extends the response period, after receiving notification from the EPA that a permit needs to be terminated, modified, or revoked and reissued, the Director shall send to the EPA a proposed determination of termination, modification, or revocation and reissuance, as appropriate.

LL. Reporting Requirements for Non-Operating Equipment [15A NCAC 02Q .0508(i)(16)]

The Permittee shall maintain a record of operation for permitted equipment noting whenever the equipment is taken from and placed into operation. When permitted equipment is not in operation, the requirements for testing, monitoring, and recordkeeping are suspended until operation resumes.

MM. Fugitive Dust Control Requirement [15A NCAC 02D .0540]

As required by 15A NCAC 02D .0540 "Particulates from Fugitive Dust Emission Sources," 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, Appendix A), the owner or operator may be required to submit a fugitive dust plan as described in 02D .0540(f).

"Fugitive dust emissions" means particulate matter from process operations that does not pass through a process stack or vent and that is generated within plant property boundaries from activities such as: unloading and loading areas, process areas, stockpiles, stock pile working, plant parking lots, and plant roads (including access roads and haul roads).

NN. Specific Permit Modifications [15A NCAC 02Q .0501 and .0523]

1. For modifications made pursuant to 15A NCAC 02Q .0501(b)(2), the Permittee shall file a Title V Air Quality Permit Application for the air emission source(s) and associated air pollution control device(s) on or before 12 months after commencing operation.
2. For modifications made pursuant to 15A NCAC 02Q .0501(c)(2), the Permittee shall not begin operation of the air emission source(s) and associated air pollution control device(s) until a Title V Air Quality Permit Application is filed and a construction and operation permit following the procedures of Section .0500 (except for Rule .0504 of this Section) is obtained.
3. For modifications made pursuant to 502(b)(10), in accordance with 15A NCAC 02Q .0523(a)(1)(C), the Permittee shall notify the Director and EPA (Air Permitting Branch, EPA, Region 4, 61 Forsyth Street SW, Atlanta, GA 30303 or through the EPA CEDRI) in writing at least seven days before the change is made.
 - a. The written notification shall include:
 - i. a description of the change at the facility;
 - ii. the date on which the change will occur;
 - iii. any change in emissions; and
 - iv. any permit term or condition that is no longer applicable as a result of the change.
 - b. In addition to this notification requirement, with the next significant modification or Air Quality Permit renewal, the Permittee shall submit a page "E5" of the application forms signed by the responsible official verifying that the application for the 502(b)(10) change/modification, is true, accurate, and complete. Further note that modifications made pursuant to 502(b)(10) do not relieve the Permittee from satisfying preconstruction requirements.

OO. Third Party Participation and EPA Review [15A NCAC 02Q .0521, .0522 and .0525(7)]

For permits modifications subject to 45-day review by the federal EPA, EPA's decision to not object to the proposed permit is considered final and binding on the EPA and absent a third party petition, the failure to object is the end of EPA's decision-making process with respect to the revisions to the permit. The time period available to submit a public petition pursuant to 15A NCAC 02Q .0518 begins at the end of the 45-day EPA review period.