JOSH STEIN
Governor
D. REID WILSON
Secretary
MICHAEL ABRACZINSKAS
Director

NORTH CAROLINA
Environmental Quality

April 3, 2025

Mr. Matt Jarusinski
Vice President and General Manager
Railroad Friction Products Corporation
13601 Airport Road
Maxton, NC 28364

SUBJECT: Air Quality Permit No. 02941T42
Facility ID: 8300019
Railroad Friction Products Corporation
Laurinburg
Scotland County
Fee Class: Title V
PSD Class: Major

Dear Mr. Jarusinski:

In accordance with your completed Air Quality Permit Application for a minor modification of your Title V permit, we are forwarding, herewith, Air Quality Permit No. 02941T42 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.

The emission source (ID No. ES-10) is listed as a minor modification per 15A NCAC 02Q .0515. The annual compliance certification as described in General Condition P is required. Unless otherwise notified by DAQ, the affected terms of this permit (excluding the permit shield as described General Condition R) for these emission sources shall become final on June 2, 2025. Until this date, the affected permit terms herein reflect the proposed operating language that the Permittee shall operate these emission source(s) and/or control device(s) under pursuant to 15A NCAC 02Q .0515(f).

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 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 143-215.108A and may subject the Permittee to civil or criminal penalties as described in NCGS 143-215.114A and 143-215.114B.

Scotland County has triggered increment tracking under PSD for PM_{10} and SO_2. However, this permit modification does not consume or expand increments for any pollutants.

This Air Quality Permit shall be effective from April 3, 2025 and shall expire on the earlier of October 31, 2027 or the renewal of Permit No. 02941T37 has been issued or denied. This Air Quality Permit 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 Taylor Easter at 919-707-8732 or taylor.easter@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 only)
Laserfiche (8300019)

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:

Daniel S. Hirschman, 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. 02941T41:*

Page No.	Section	Description of Changes
Throughout	Throughout	• Updated dates and permit numbers.
Cover letter	Cover letter	• Updated letterhead and permit using new permit shell. • Updated General Counsel contact.
5, 7	1	• Added note regarding minor modification.
9	2.1.A	• Updated the pollutant, limit, and standard table to clarify regulatory applicability for individual sources.
17	2.2.A	• Updated permitted emission source tables to clarify regulatory applicability for individual sources.
20-22	2.2.A4	• Updated the monitoring, recordkeeping, and reporting requirements of 02D .1111, MACT Subpart QQQQQ (5Q) to remove the startup, shutdown, and malfunction (SSM) plan requirements.
20-22	2.2.A4	• Updated 02D .1111, MACT Subpart QQQQQ (5Q) to remove all references to 63.9500(b), emissions limitations for small solvent mixers. Only 63.9500(a), emissions limitations for large solvent mixers, apply to source ID No. ES-10.
29-36	4	• Updated General Conditions to most current version (07/10/2024).

* 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.	Effective Date	Expiration Date
02941T42	02941T41	June 2, 2025*	October 31, 2027**

NOTE: Per General Condition K, a permit application for the renewal of this Title V permit shall be submitted no later than April 30, 2027.
*The effective date listed above applies only to changes made as a result of this modification. All other terms and conditions of this permit are applicable as of the issuance date.
**This permit shall expire on the earlier of October 31, 2027 or the renewal of Permit No. 02941T37 has been issued or denied.

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:	**Railroad Friction Products Corporation**
Facility ID:	**8300019**
Primary SIC Code:	**3069**
NAICS Code:	**326299**
Facility Site Location:	**13601 Airport Road**
City, County, State, Zip:	**Maxton, Scotland County, NC 28364**
Mailing Address:	**13601 Airport Road**
City, State, Zip:	**Maxton, NC 28364**
Application Number:	**8300019.25A**
Complete Application Date:	**January 2, 2025**
Division of Air Quality, Regional Office Address:	**Fayetteville Regional Office** **225 Green Street, Suite 714** **Fayetteville, NC 28301-5043**

Permit issued this the 3rd day of April 2025.

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

Table of Contents

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
PM_{10}	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
SO_2	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
Solids Handling Equipment			
ES-02	One dry mix room (miscellaneous capture hoods)	CD-01 and CD-15*	One bagfilter (5,600 square feet of filter area) One bagfilter (4,104 square feet of filter area)
ES-05F	One trim/scrap saw	CD-01	One bagfilter (5,600 square feet of filter area)
ES-07B ES-52 ES-54	One dry mixer (70.6 cubic feet capacity) Miscellaneous weigh stations and press lines 4/5, 1/6 and 2/3 slab grinders Rubber grinding operations with vacuum conveying system	CD-01 CD-03 CD-10	One bagfilter (5,600 square feet of filter area) One bagfilter (11,700 square feet of filter area) One bagfilter (148 square feet of filter area)
ES-64***	Dry Mixer Loading System	CD-16***	One filter receiver (226 square feet of filter area)
ES-06	Reclaim scrap grinder (625 pounds per hour maximum capacity)	CD-01 CD-02 CD-03	One bagfilter (5,600 square feet of filter area) One bagfilter (12,000 square feet of filter area) One bagfilter (11,700 square feet of filter area)
ES-03 ES-07A ES-Silo ES-05A through ES-05E ES-53 ES-55 ES-60	Wet mix room general exhaust vent Weigh out area Storage silo for recycled brake material Five trim/scrap saws Recycle unloading station Calcium carbonate unloading operation R-12 unloading station	CD-03	One bagfilter (11,700 square feet of filter area)
ES-09A	Sigma mixer batch hopper	CD-04	One bagfilter (150 square feet of filter area)
ES-09B	Dust house & reclaim material hopper (conveys material pneumatically to ES-09A)		
ES-56	Calcium carbonate conveying operation	CD-08	One bin vent filter (41 square feet of filter area)
ES-57	Milling machine	CD-06	One bagfilter (70 square feet of filter area)
ES-58	R & D Banbury Weigh Station combined with Blanchard Grinder No.1	CD-07	One bagfilter (1,520 square feet of filter area)
ES-59B	Blanchard Grinder No.2	CD-11	One bagfilter (759 square feet of filter area)
ES-63**	Central Vacuum System serving Dry & Wet Mix Rooms	CD-14**	One bagfilter (99 square feet of filter area)

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
ES-65†	Offline cleaning table and hood	CD-07	One bagfilter (1,520 square feet of filter area)
Mixing Operations			
ES-10†† **MACT QQQQQ**	One Sigma mixer (78.6 cubic feet maximum capacity)	CD-05A CD-05B	One glycol/water condenser (inside facility) One glycol/water condenser (outside facility)
F-01 (in series with) F-02	Primary granulators (No. 1) Secondary granulator (No. 2)	CD-03	One bagfilter (11,700 square feet of filter area)
ES-61	One Sigma mixer grinder with two pneumatic conveyor system and dust collection points	CD-09 and CD-13	One bagfilter (424 square feet of filter area) installed on one material cooling cyclone (where the material is pneumatically conveyed to the material collection cyclone) One bagfilter (424 square feet of filter area) installed on one material collection cyclone
ES-62 ES-62a ES-62b	One Banbury mixer (5.65 cubic feet capacity) One capture hood for a grinder associated with Banbury mixer with Weigh Station No.2 One Banbury mixer system transfer and discharge area with five dust collection pickup hoods installed on the mixer unloading area, the shredder inlet area, incline belt conveyor, transfer between horizontal feeder and spiral elevator and material buggy loading	CD-01 CD-12	One bagfilter (5,600 square feet of filter area) One bagfilter (905 square feet of filter area)
ES-50+	One hexane storage tank (15,000 gallon capacity)	NA	NA
Spray Application Processes			
ES-17**** **MACT MMMM**	One backing plate spray/dip application process with panel-filter consisting of two spray guns (Nos. 1a and 1b)	NA	NA
ES-18 ** **MACT MMMM**	One wedge casting hand spray application process with panel-filter	NA	NA
ES-19****	One automated water-based dry filter-type spray booth with three active spray guns, electrically heated infrared dryer, and air cool-down	NA	NA
Brake Molding and Curing Operations			
ES-20 through ES-22	Three direct natural gas-fired Post Bake Ovens (1.0 million Btu per hour maximum heat input each)	NA	NA

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
ES-23 and ES-24	Two direct natural gas-fired Post Bake Ovens (1.5 million Btu per hour maximum heat input each)	NA	NA
ES-25.1 through ES-25.4 ES-26.1 through ES-26.4 and ES-26.5† ES-27.1 through ES-27.4 and ES-27.5† ES-28.1 through ES-28.4 ES-29.1 through ES-29.4 ES-30.1 through ES-30.4 ES-31.1 through ES-31.5 ES-32.1 through ES-32.5 ES-33.1 through ES-33.5 ES-34.1 through ES-34.4 ES-35.1 through ES-35.4	Eleven press lines, each line with four presses (with the exception of ES-26, ES-27, ES-31, ES-32, and ES-33 which have five presses, each)	NA	NA
ES-51	One direct natural gas-fired NABCO oven (100,000 Btu per hour maximum heat input capacity)	NA	NA

+ Source with no applicable requirements.

* This control device **(ID No. CD-15)** is listed as a minor modification per 15A NCAC 02Q .0515 pursuant to Application No. **8300019.21A**. The compliance certification as described in General Condition P is required. Unless otherwise notified by NC DAQ, the affected terms of this permit (excluding the permit shield as described General Condition R) for this source shall become final on July 10, 2021. Until this date, the affected permit terms herein reflect the proposed operating language that the Permittee shall operate this source pursuant to 15A NCAC 02Q .0515(f).

** These emission source(s) and/or control device(s) **(ID Nos. ES-18, ES-63, and CD-14)** are listed as a minor modification per 15A NCAC 02Q .0515 pursuant to Application No. **8300019.20B**. The compliance certification as described in General Condition P is required. Unless otherwise notified by NC DAQ, the affected terms of this permit (excluding the permit shield as described General Condition R) for this source shall become final on January 15, 2021. Until this date, the affected permit terms herein reflect the proposed operating language that the Permittee shall operate this source pursuant to 15A NCAC 02Q .0515(f).

***The emission source (Dry Mixer Loading System, **ID No. ES-64**) and the control device (Filter Receiver, **ID No. CD-16**) are listed as a minor modification per 15A NCAC 02Q .0515 pursuant to Application No. **8300019.22C**. The annual compliance certification as described in General Condition P is required. Unless otherwise notified by DAQ, the affected terms of this permit (excluding the permit shield as described General Condition R) for these emission source(s) and/or control device(s) shall become final on January 14, 2023. Until this date, the affected permit terms herein reflect the proposed operating language that the Permittee shall operate these emission source(s) and/or control device(s) under pursuant to 15A NCAC 02Q .0515(f).

**** Pursuant to application(s) 8300019.23A, these emission sources **(ID Nos. ES-17 and ES-19)** are listed as a minor modification per 15A NCAC 02Q .0515. The annual compliance certification as described in General Condition P is required. Unless otherwise notified by DAQ, the affected terms of this permit (excluding the permit shield as described General Condition R) for these emission sources shall become final on December 17, 2023. Until this date, the affected permit terms herein reflect the proposed operating language that the Permittee shall operate these emission source(s) and/or control device(s) pursuant to 15A NCAC 02Q .0515(f).

† Pursuant to application(s) 8300019.24A, these emission sources **(ID Nos. ES-26.5, ES-27.5, and ES-65)** are listed as a minor modification per 15A NCAC 02Q .0515. The annual compliance certification as described in General Condition P is required. Unless otherwise notified by DAQ, the affected terms of this permit (excluding the permit shield as described General Condition R) for these emission sources shall become final on April 16, 2024. Until this date, the affected permit terms herein reflect the proposed operating language that the Permittee shall operate these emission source(s) and/or control device(s) pursuant to 15A NCAC 02Q .0515(f).

†† Pursuant to application(s) 8300019.25A, the emission source (**ID No. ES-10**) is listed as a minor modification per 15A NCAC 02Q .0515. The annual compliance certification as described in General Condition P is required. Unless otherwise notified by DAQ, the affected terms of this permit (excluding the permit shield as described General Condition R) for these emission sources shall become final on June 2, 2025. Until this date, the affected permit terms herein reflect the proposed operating language that the Permittee shall operate these emission source(s) and/or control device(s) under pursuant to 15A NCAC 02Q .0515(f).

SECTION 2 - SPECIFIC LIMITATIONS AND CONDITIONS

2.1 Emission Source(s) and Control Devices(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. <u>Solids Handling Equipment including:</u>

One dry mix room (ID No. ES-02), and
One trim/scrap saw (ID No. ES-05F)
with associated bagfilters (ID Nos. CD-01 and CD-15)

One dry mixer (ID No. ES-07B),
Miscellaneous weigh stations and press lines 4/5, 1/6 and 2/3 slab grinders (ID No. ES-52), and
Rubber grinding operations (ID No. ES-54)
with associated bagfilters (ID Nos. CD-01, CD-03 and CD-10)

One reclaim scrap grinder (ID No. ES-06) with associated bagfilters (ID Nos. CD-01, CD-02 (in parallel), and CD-03)

Wet mix room general exhaust vent (ID No. ES-03),
Five trim/scrap saws (ID Nos. ES-05A through 05E),
Weigh Out Area (ID No. ES-07A),
Storage silo (ID No. ES-Silo),
Recycle unloading station (ID No. ES-53),
Calcium carbonate unloading operation (ID No. ES-55), and
R-12 unloading station (ID No. ES-60),
with associated bagfilter (ID No. CD-03)

Sigma Batch Hopper (ID No. ES-09A) with associated bagfilter (ID No. CD-04)
Dust House & Reclaim Material Hopper (ID No. ES-09B) (conveys material to ES-09A)

Milling Operation (ID No. ES-57) with associated bagfilter (ID No. CD-06)

R & D Banbury Mixer Weigh Station (ID No. ES-58) combined with Blanchard Grinder No. 1 with associated bagfilter (ID No. CD-07)

Blanchard Grinder No. 2 (ID No. ES-59B) with associated bagfilter (ID No. CD-11)

Calcium carbonate conveying operation (ID No. ES-56) with associated bin vent filter (ID No. CD-08)

Central Vacuum System (ID No. ES-63) with associated bagfilter (ID No. CD-14)

One dry mixer loading system (ID No. ES-64) with associated filter receiver (ID No. CD-16)

Offline cleaning table and hood (ID No. ES-65) with one bagfilter (CD-07)

Mixing Operations including:

One Sigma mixer (ID No. ES-10) with associated condensers (ID Nos. CD-05A and CD-05B) Two granulators (ID Nos. F-01 and F-02) with associated bagfilter (ID No. CD-03)

One Sigma mixer grinders (ID No. ES-61) with two pneumatic conveyor system dust collection points and two associated bagfilters (ID Nos. CD-09 and CD-13) installed on one cooling cyclone and one material collection cyclone

One Banbury mixer and Weigh Station No. 2 (ID No. ES-62) with associated bagfilter (ID No. CD-01)

One capture hood for a grinder associated with Banbury mixer (ID No. ES-62a) with associated bagfilter (ID No. CD-01)

One Banbury mixer system transfer and discharge area with five dust collection points (ID No. ES-62b) with associated bagfilter (ID No. CD-12)

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

Pollutant	Limits/Standards	Applicable Regulation
Particulate Matter	**(All sources above except ID Nos. ES-10, F-01, and F-02)** **(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 P = process weight in tons per hour	15A NCAC 02D .0515
Visible Emissions	**(All sources above except ID Nos. ES-10, F-01, and F-02)** 20 percent opacity	15A NCAC 02D .0521
Particulate Matter	**(ID Nos. CD-01, and CD-03)** Compliance Assurance Monitoring	15A NCAC 02D .0614
Toxic Air Pollutants	**(ID Nos. ES-03 and F-01 and F-02 to CD-03 only)** **State-enforceable only** **See Section 2.2.A.1**	15A NCAC 02D .1100
Toxic Air Pollutants	**(ID Nos. ES-03 and F-01 and F-02 to CD-03 only)** **State-enforceable only** **See Section 2.2.A.2**	15A NCAC 02Q .0711
Odors	**State-enforceable only** **See Section 2.2 A.5**	15A NCAC 02D .1806
Hazardous Air Pollutants	**(ID No. ES-10 only)** National Emission Standards for Hazardous Air Pollutants for Friction Materials Manufacturing Facilities **See Section 2.2 A.4**	15A NCAC 02D .1111 40 CFR 63, Subpart QQQQQ

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

a. Emissions of particulate matter from these sources **(ID Nos. ES-02, ES-03, ES-05A through ES-05F, ES-06, ES-07A, ES-07B, ES-09A, ES-09B, ES-52 through ES-60, ES-Silo, ES-61, ES-62, ES-62a, ES-62b, ES-63, ES-64, and ES-65)** shall not exceed an allowable emission rate as calculated by the following equations:

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

c. Particulate matter emissions from these sources **(ID Nos. ES-02, ES-03, ES-05A through ES-05F, ES-06, ES-07A, ES-07B, ES-09A, ES-09B, ES-52 through ES-60, ES-Silo, ES-61, ES-62, ES-62a, ES-62b, ES-63, ES-64, and ES-65)** shall be controlled by the bagfilters **(ID Nos. CD-01 through CD-04, CD-06, CD-07, CD-09, CD-10, CD-11, CD-12, CD-13, CD-14, CD-15, and CD-16)** and bin vent filter **(ID No. CD-08)** 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 initial inspection) internal inspection of the bagfilters' and bin vent filter structural integrities.

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

d. 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)]

e. The Permittee shall submit the results of any control device maintenance within 30 days of a written request by the DAQ.

f. The Permittee shall submit a summary report of monitoring and recordkeeping activities given in Section 2.1 A.1.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.

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

a. Visible emissions from these sources **(ID Nos. ES-02, ES-03, ES-05A through ES-05F, ES-06, ES-07A, ES-07B, ES-09A, ES-09B, ES-52 through ES-60, ES-Silo, ES-61, ES-62, ES-62a, ES-62b, ES-63, ES-64, and ES-65)** 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.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 points of these sources (**ID Nos. ES-02, ES-03, ES-05A through ES-05F, ES-06, ES-07A, ES-07B, ES-09A, ES-09B, ES-52 through ES-60, ES-Silo, ES-61, ES-62, ES-62a, ES-62b, ES-63, ES-64, and ES-65**) 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. The Permittee shall establish "normal" for this source (**ID No. ES-64**) in the first 30 days of beginning operation. The Permittee shall reestablish "normal" for the source (**ID No. ES-07B**) in the first 30 days following the beginning of operation of the source (**ID No. ES-64)**. The Permittee shall reestablish "normal" for the bagfilter (**ID No. CD-07**) in the first 30 days following the beginning of operation of the offline cleaning table and hood (**ID No. ES-65)**. 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.2.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; or if "normal" is not established for this source (**ID No. ES-64**) in the first 30 days following the effective date of this permit / of beginning operation.
d. The results of the monitoring 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 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 these records are not maintained.

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

e. The Permittee shall submit a summary report of the observations given in Section 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.

3. 15A NCAC 02D .0614: COMPLIANCE ASSURANCE MONITORING

a. Per 40 CFR 64 and 15A NCAC 02D .0614, the Permittee shall comply with the following.
b. **Background**
   i. Emission Unit(s).
      (A) Description.
      Dry mix room **(ID No. ES-02)**
      Wet mix room general exhaust vent **(ID No. ES-03)**
      Trim/scrap saws **(ID Nos. ES-05A through ES-05F)**
      Reclaim scrap grinder **(ID No. ES-06)**
      Weigh out area **(ID No. ES-07A)**
      Dry mixer **(ID No. ES-07B)**
      Miscellaneous weigh stations and press lines 4/5, 1/6 and 2/3 slab grinders **(ID No. ES-52)**
      Recycle unloading station **(ID No. ES-53)**
      Rubber grinding operations **(ID Nos. ES-54)**
      Calcium carbonate unloading operation **(ID No. ES-55)**
      R-12 unloading station **(ID No. ES-60)**
      Banbury mixer and Weigh Station No. 2 **(ID No. ES-62)**
      One capture hood for a grinder associated with Banbury mixer **(ID No. ES-62a)**
      Storage silo **(ID No. ES-Silo)**
   ii. Applicable Regulation, Emission Limit, and Monitoring Requirements.
      (A) Regulation(s): 15A NCAC 02D .0515.
      (B) Emission limit(s):$E = 4.10xP^{0.67}$, where E = allowable emission rate in pounds per hour and P = process weight in tons per hour.
      (C) Control Technology: Bagfilters **(ID Nos. CD-01 and CD-03)**.

c. **Monitoring Approach**. The key elements of the monitoring approach for particulate matter, including parameters to be monitored, parameter ranges and performance criteria are presented in the following table.

	Indicator
I. Indicator	Pressure drop (each bagfilter)
Measurement Approach	Pressure drop across the fabric filter is measured with a differential pressure gauge
II. Indicator Range	An excursion is defined as a pressure drop other than 1 to 8 inches of water for **CD-01** and 2 to 8 inches of water for **CD-03**. Excursions trigger an inspection, corrective action, and a reporting requirement.
QIP Threshold	None selected
III. Performance Criteria	
A. Data Representativeness	Pressure taps are located at the fabric filter inlet and outlet. The gauge has a minimum accuracy of 0.5 inches of water.
B. Verification of Operational Status	NA
C. QA/QC Practices	The pressure gauge is checked daily for operation.
D. Monitoring Frequency	Pressure drop is monitored continuously.
Data Collection Procedures	Pressure gauge readings are manually recorded daily.
Averaging Periods	NA

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

d. The Permittee shall submit a summary report 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. All instances of deviations from the requirements of this permit must be clearly identified.

The report shall also include the following information, as applicable:

i. Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or 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 owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.

B. Spray Application Processes including:
Backing plate spray/dip application process (ID Nos. ES-17)
Wedge casting hand spray application process (ID Nos. ES-18)
Automated water-based dry filter-type spray booth (ID No. ES-19)

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

Pollutant	Limits/Standards	Applicable Regulation
Particulate Matter	$E=4.10 \times P^{0.67}$, for process rates ≤ 30 tons per hour, OR $E=55 \times P^{0.11} - 40$, for process rates > 30 tons per hour Where: E = allowable emission rate in pounds per hour P = process weight in tons per hour	15A NCAC 02D .0515
Visible Emissions	20 percent opacity	15A NCAC 02D .0521
Hazardous Air Pollutants	**(ID Nos. ES-17 and ES-18 only)** National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products **See Section 2.2 A.5**	15A NCAC 02D .1111 40 CFR 63, Subpart MMMM

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

a. Emissions of particulate matter from these sources **(ID Nos. ES-17, ES-18, and ES-19)** shall not exceed an allowable emission rate as calculated by the following equations:

E = 4.10 x P0.67 (for process rates less than or equal to 30 tons per hour), or
E = 55.0 x P0.11 - 40 (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/Reporting [15A NCAC 02Q .0508(f)]

c. The Permittee shall maintain production records such that the process rates "P" in tons per hour, as specified by the formulas contained above can be derived and shall make these records available to a DAQ authorized representative upon request. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515 if the production records are not maintained or the types of materials and finishes are not monitored.

d. No reporting is required for particulate matter from these sources **(ID Nos. ES-17, ES-18, and ES-19).**

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

a. Visible emissions from these sources **(ID Nos. ES-17, ES-18, and ES-19)** 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/Recordkeeping [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-17, ES-18, and ES-19**) for any visible emissions above normal. The monthly observation must be made for each of the calendar year periods to ensure compliance with this requirement. The Permittee shall establish "normal" for this source (**ID No. ES-18**) in the first 30 days following beginning operation. If visible emissions from these sources (**ID Nos. ES-17, ES-18, and ES-19**) 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 B.2.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; or if "normal" is not established for this source(**ID No. ES-18**) in the first 30 days following beginning operation.

d. The results of the monitoring 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 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 these records are not maintained.

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

e. The Permittee shall submit a summary report of the observations given in Section 2.1 B.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. Brake Molding and Curing Operations including:
Four direct natural gas-fired post bake ovens (ID Nos. ES-20 through ES-24)
Press ES-25.1 through ES-25.4
Press ES-26.1 through ES-26.5
Press ES-27.1 through ES-27.5
Press ES-28.1 through ES-28.4
Press ES-29.1 through ES-29.4
Press ES-30.1 through ES-30.4
Press ES-31.1 through ES-31.5
Press ES-32.1 through ES-32.5
Press ES-33.1 through ES-33.5
Press ES-34.1 through ES-34.4
Press ES-35.1 through ES-35.4
One direct natural gas-fired NABCO oven (ID No. ES-51)

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

Pollutant	Limits/Standards	Applicable Regulation
Visible emissions	40 percent opacity 20 percent opacity (ID Nos. ES-26.5 and ES-27.5) only	15A NCAC 02D .0521

1. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

a. i. Visible emissions from these sources **(ID Nos. ES-20 through ES-24, ES-25 through ES-35, and ES-51)** shall not be more than 40 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 40 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 90 percent opacity.

ii. Visible emissions from these sources **(ID Nos. ES-26.5 and ES-27.5)** 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.1.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 points of these sources (**ID Nos. ES-20 through ES-24, ES-25 through ES-35, and ES-51**) for any visible emissions above normal. The Permittee shall reestablish "normal" for the groups of presses **(ID Nos. ES-26 and ES-27)** in the first 30 days following the beginning of operation of the new presses **(ID Nos. ES-26.5 and ES-27.5).** The monthly observation must be made for each of the calendar year periods to ensure compliance with this requirement. If visible emissions from these sources (**ID Nos. ES-20 through ES-24, ES-25 through ES-35, and ES-51**) 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 C.2.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;

d. The results of the monitoring 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 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 these records are not maintained.

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

e. The Permittee shall submit a summary report of the observations 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.

2.2 Multiple Emission Source(s) Specific Limitations and Conditions

A. Facility-wide affected sources including:

One backing plate spray/dip application (ID No. ES-17)
One wedge casting hand spray application (ID No. ES-18)
Direct natural gas-fired post bake ovens (ID Nos. ES-20 through ES-24)
Direct natural gas-fired NABCO oven (ID No. ES-51)
Press ES-25.1 through ES-25.4
Press ES-26.1 through ES-26.5
Press ES-27.1 through ES-27.5
Press ES-28.1 through ES-28.4
Press ES-29.1 through ES-29.4
Press ES-30.1 through ES-30.4
Press ES-31.1 through ES-31.5
Press ES-32.1 through ES-32.5
Press ES-33.1 through ES-33.5
Press ES-34.1 through ES-34.4
Press ES-35.1 through ES-35.4
One Sigma mixer line (ID No. ES-10)
Two granulators (ID Nos. F-01 and F-02)
One Sigma mixer grinder (ID No. ES-61)
One Banbury mixer (ID No. ES-62)
One capture hood for a grinder associated with Banbury mixer (ID No. ES-62a)
Central Vacuum System (ID No. ES-63) with associated bagfilter (ID No. CD-14)

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

Pollutant	Limits/Standards	Applicable Regulation
Toxic air pollutants	**(All sources above except ID Nos. ES-10, ES-61, ES-62, ES-62a, and ES-63)** **State-enforceable only** Modeled emission rates	15A NCAC 02D .1100
Toxic air pollutants	**State-enforceable only** Toxic pollutant emission rates	15A NCAC 02Q .0711
Odors	**State-enforceable only** Odorous emissions must be controlled	15A NCAC 02D .1806
Hazardous air pollutants	**(ID No. ES-10 only)** National Emission Standards for Hazardous Air Pollutants for Friction Materials Manufacturing Facilities **See Section 2.2 A.4**	15A NCAC 02D .1111 (40 CFR 63, Subpart QQQQQ)
Hazardous air pollutants	**(ID Nos. ES-17 and ES-18 only)** National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products **See Section 2.2 A.5**	15A NCAC 02D .1111 (40 CFR 63, Subpart MMMM)

State-enforceable only

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

a. Pursuant to 15A NCAC 02D .1100 and in accordance with the approved application for an air toxic compliance demonstration, the following permit limit shall not be exceeded:

Emission Source(s)	Toxic Air Pollutant(s)	Emission Limit(s)
IES-56, IES-57, IES-59, IES-60 and IES-62	Chromium VI	0.078 lb/year*
ES-17, ES-18, ES-20 through ES-24, ES-51, ES-25.1 through ES-25.4, ES-26.1 through ES-26.4, ES-27.1 through ES-27.4, ES-28.1 through ES-28.4, ES-29.1 through ES-29.4, ES-30.1 through ES-30.4, ES-31.1 through ES-31.5, ES-32.1 through ES-32.5, ES-33.1 through ES-33.5, ES-34.1 through ES-34.4, and ES-35.1 through ES-35.4	Methyl Ethyl Ketone Ammonia Formaldehyde Phenol Toluene	2,077.36 lb/day 578.80 lb/hr 15.82 lb/hr 0.88 lb/hr 5.56 lb/hr 660.8 lb/day 328 lb/hr
Press Lines 2-5 and 7-9: **ES-26.1 through ES-26.5, ES-27.1 through ES-27.5, ES-28.1 through ES-28.4, ES-29.1 through ES-29.4, ES-31.1 through ES-31.5, ES-32.1 through ES-32.5, and ES-33.1 through ES-33.5**	Hexane isomers n-hexane	276 lb/hr** 87.3 lb/day**
Press Lines 1, 6, 10 and 11: **ES-25.1 through ES-25.4, ES-30.1 through ES-30.4, ES-34.1 through ES-34.4, and ES-35.1 through ES-35.4**	Hexane isomers n-hexane	276 lb/hr** 87.3 lb/day**
ES-20 through ES-24 and ES-51	Hexane isomers n-hexane	110 lb/hr** 35 lb/day**
ES-03	Hexane isomers n-hexane	661.4 lb/hr** 210 lb/day**
ES-50	Hexane isomers n-hexane	44.09 lb/hr** 14.0 lb/day**
Granulators F-01 and F-02 to CD-03	Hexane isomers n-hexane	881 lb/hr** 280 lb/day**

*A compliance demonstration of the facility-wide emissions of Chromium VI was provided in application .13D in support of Permit 02941T32 and provided as applicability determination #2598 for the addition of a third robotic welder IES-62 in support of Permit 02941T33. No monitoring, recordkeeping or reporting is required for the emissions of Chromium VI
**A compliance demonstration of the facility-wide emissions of n-hexane and Hexane isomers was provided in Application No. 8300019.22A in support of Permit 02941T38.
Note: A MACT exemption and removal of toxic limitation was requested as per 15A NCAC 2Q .0702(a)(27)), effective May 1, 2014. As such some limitations on MACT affected sources were removed. See Permit 02941T33.

b. **Recordkeeping Requirements** - The Permittee shall keep records, in written or electronic format, of production rates, throughput, material usage, periods of excess emissions, and other process operational information, that allows for evaluation of compliance with the toxic air pollutant limits. These records shall be retained for a minimum of three years from the date of recording, and access to these records shall be provided to DAQ staff upon request.

c. **Reporting Requirements** - The Permittee shall submit a summary report of the recordkeeping activities within 30 days after each calendar year quarter, postmarked on or before January 30 of each calendar year for the preceding three-month period between October and December, April 30 of each calendar year for the preceding three-month period between January and March, July 30 of each calendar year for the preceding three-month period between

April and June, and October 30 of each calendar year for the preceding three-month period between July and September. The report shall contain the following:

i. Any and all exceedances of applicable toxic air pollutant limits during the previous three-month period.
ii. The maximum pound per 1-hour emission rate at any time during the previous three-month period for all applicable toxic air pollutants.
iii. The maximum pound per 24-hour emission rate at any time during the previous three-month period for all applicable toxic air pollutants.
iv. The yearly emission rate for the 12-month period ending with the previous calendar three-month period for all applicable toxic air pollutants.

State-enforceable only

2. 15A NCAC 02Q .0711: EMISSION RATES 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:

Pollutant(s) (CAS Number)	TPERs Limitations			
	Carcinogens (lb/yr)	Chronic Toxicants (lb/day)	Acute Systemic Toxicants (lb/hr)	Acute Irritants (lb/hr)
Epichlorohydrin (106-89-8)	5600			

State-enforceable only

3. 15A NCAC 02D .1806: CONTROL AND PROHIBITION OF ODOROUS EMISSIONS

a. 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 property line.

Additional Operational Requirements for Condensers (ID Nos. CD-05A and CD-05B) installed on Sigma Mixer Line (ES-10):

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

b. 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 an annual inspection of the condensers **(ID Nos. CD-05A and CD-05B)**, including the following:
   i. an inspection of the structural integrity of the condensers **(ID Nos. CD-05A and CD-05B)**, including the inspection for leakage of coolant and, if the system is under positive gauge pressure, leakage of the contaminated gas stream. In order to indicate leakage of the coolant, the condensate shall be inspected for the presence of coolant; and
   ii. an inspection of the structural integrity of duct work and piping leading to and coming from the condensers **(ID Nos. CD-05A and CD-05B)**.

   The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1806 if the condensers **(ID Nos. CD-05A and CD-05B)** are not inspected or maintained.

c. 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. records of inspections and any measures taken to repair leaks or other possible sites of fugitive emissions; and
   ii. records, once per week, of the total solvent used in the mixer **(ID No. ES-10)** and the total solvent recovered from the mixer **(ID No. ES-10)**. The Permittee shall also record if the batch was "solvent-based" or "solvent-free".

   The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1806 if these records are not maintained.

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

d. The Permittee shall submit a summary report of the inspection and maintenance, monitoring, and recordkeeping requirements 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 shall be clearly identified.

4. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY

a. The Permittee shall comply with all applicable provisions contained in Environmental Management Commission Standard 15A NCAC 02D .1111, "Maximum Achievable Control Technology" as promulgated in 40 CFR 63, Subpart QQQQQ, "National Emission Standards for Hazardous Air Pollutants for Friction Materials Manufacturing Facilities", by **October 18, 2005** for the existing source(s) **(ID No. ES-10)**. Solvent mixers constructed or reconstructed after May 3, 2018, must be in compliance with this subpart at startup.

Emission Limitations [40 CFR 63.9500]

b. The Permittee shall limit HAP solvent emissions from this source **(ID No. ES-10)** to the atmosphere to no more than 30 percent of that which would otherwise be emitted in the absence of solvent recovery and/or solvent substitution, based on a 7-day block average.
c. On and after August 7, 2019, the Permittee shall be in compliance with the emission limitations in this subpart at all times, including periods of startup, shutdown, and malfunction.
d. The Permittee shall always operate and maintain the affected source, including air pollution control and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions, including during periods of startup, shutdown, and malfunction. The general duty to minimize emissions does not require the owner or operator to make any further efforts to reduce emissions if levels required by the applicable standard have been achieved. Determination of whether a source is operating in compliance with operation and maintenance requirements will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.
e. For this source **(ID No. ES-10)**, a startup, shutdown, and malfunction plan is not required on and after August 7, 2019.
f. No startup, shutdown, and malfunction plan is required for any new or reconstructed source for which construction or reconstruction commences after May 3, 2018.
g. The Permittee shall install, operate and maintain a weight measurement device to measure the weight of HAP solvent loaded into the solvent mixer and the weight of HAP solvent recovered for each mix batch per the requirements of 40 CFR 63.9525(a) through (e).
h. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these emission limitations are not met.

Monitoring [40 CFR 63.9530 and 63.9535]

i. The Permittee shall demonstrate continuous compliance with the emission limitations for large solvent mixers in 40 CFR 63.9500(a) according to the following provisions:
   i. The Permittee shall collect and record the following information at all times that the affected source is operating and record all information needed to document conformance with requirements (A) through (H) below:
      (A) the date and time of each mix batch;
      (B) the identity of each mix batch using a unique batch ID;
      (C) measure and record the weight of HAP solvent loaded into the solvent mixer for each mix batch;
      (D) measure and record the weight of HAP solvent recovered for each mix batch;
      (E) (for the use of solvent recovery) determine the percent of HAP solvent discharged to the atmosphere for each mix batch according to the following equation:

$P_b = (1 - S_{rec}/S_{mix}) \times (100)$

Where: P_b = percent of HAP solvent discharged to the atmosphere for each mix batch, percent.
S_{rec} = weight of HAP solvent recovered for each mix batch, pounds.
S_{mix} = weight of HAP solvent loaded into the solvent mixer for each mix batch, pounds.

(F) (for the use of solvent substitution) record the use of non-HAP material as a substitute for a HAP solvent for that mix batch and assign a percent of HAP solvent discharged to the atmosphere for that mix batch (Pb).

(G) determine the 7-day block average percent of HAP solvent discharge to the atmosphere according to the following equation:

$$P_7 = 1/n \sum_{i=1}^{n} P_b$$

Where: $\%P_7$ = 7-day block average percent of HAP solvent discharged to the atmosphere, percent
i = mix batch
n = number of mix batches in 7-day block average

(H) have valid data for at least 90 percent of the mix batches over the 7-day averaging period.

ii. Maintain the 7-day block average percent of HAP solvent discharged to the atmosphere at or below 30 percent of that which would otherwise be emitted in the absence of solvent recovery and/or solvent substitution.

j. The Permittee shall report, according to the requirements in 40 CFR 63.9540, each instance in which the facility did not meet the emission limitations for solvent mixers in 40 CFR 63.9500(a). This includes periods of startup, shutdown, or malfunction.

k. On and after August 7, 2019 for this source **(ID No. ES-10)** and after February 8, 2019 for new or reconstructed sources which commence construction or reconstruction after May 3, 2018, all deviations are considered violations.

l. The Permittee shall submit all of the notifications in 40 CFR 63.8(f)(4) and 63.9(b), (c), (d), and (h) that apply to the facility by the specified dates.

m. The Permittee shall submit a notification of compliance status according to 40 CFR 63.9(h)(2)(ii). The Permittee shall submit the notification of compliance status before the close of business on the 30th calendar day following the completion of the initial compliance demonstration.

n. The owner or operator of a new or reconstructed major affected source for which an application for approval of construction or reconstruction is required under 40 CFR 63.5(d) must submit the following information in writing:
   i. A notification of intention to construct a new major-emitting affected source, reconstruct a major-emitting affected source, or reconstruct a major source such that the source becomes a major-emitting affected source with the application for approval of construction or reconstruction as specified in 40 CFR 63.5(d)(1)(i); and
   ii. A notification of the actual date of startup of the source, delivered or postmarked within 15 calendar days after that date.

o. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these monitoring requirements are not met.

Recordkeeping [40 CFR 63.9545]

p. The Permittee shall keep the following records:
   i. A copy of each notification and report submitted to comply with this subpart, including all documentation supporting any initial notification or notification of compliance status submitted, according to the requirements in 40 CFR 63.10(b)(2)(xiv).
   ii. The facility is not required to keep records related to startup, shutdown, or malfunction for this source (ID No. ES-10) on and after August 7, 2019.

q. On and after August 7, 2019, in the event that this source **(ID No. ES-10)** fails to meet an applicable standard, the Permittee shall record the number of deviations. For each deviation, record the date, time and duration of each deviation.
   i. For each deviation, record and retain cause of deviations (including unknown cause, if applicable), a list of the affected source or equipment, an estimate of the quantity of each regulated pollutant emitted over any emission limit, and a description of the method used to estimate the emissions.
   ii. Record actions taken to minimize emissions in accordance with 40 CFR 63.9505, and any corrective

actions taken to return the affected unit to its normal or usual manner of operation.

r. The Permittee shall keep the records required in 40 CFR 63.9525 to show proper operation and maintenance of the weight measurement device.

s. For this source **(ID No. ES-10)**, the Permittee shall keep the records required in 40 CFR 63.9530 to show continuous compliance with the emission limitations for solvent mixers in 40 CFR 63.9500(a).

t. The Permittee must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record, as specified in 40 CFR 63.10(b)(1). Records must be kept on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record. The Permittee may keep the records offsite for the remaining 3 years. All records must be kept in a form suitable and readily available for expeditious review.

u. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these records are not maintained.

Reporting [40 CFR 63.9540]

v. The Permittee shall submit a summary report of the monitoring and recordkeeping 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 period between January and June. The report must include the following information:
   i. Company name and address.
   ii. Statement by a responsible official, with the official's name, title, and signature, certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.
   iii. Date of report and beginning and ending dates of the reporting period.
   iv. A startup, shutdown, and malfunction plan is not required for this source **(ID No. ES-10)** on and after August 7, 2019.
   v. If there were no instances of noncompliance from the emission limitations for solvent mixers in 40 CFR 63.9500(a), a statement that there were no instances of noncompliance from the emission limitations during the reporting period.
   vi. If there were no periods during which a monitoring system was out-of-control as specified in 40 CFR 63.8(c)(7), a statement that there were no periods during which a monitoring system was out-of-control during the reporting period.

w. For each instance of noncompliance from an emission limitation occurring at an affected source, the Permittee shall include the information in 40 CFR 63.9540(b)(i) through (iv) and the following information. This includes periods of startup, shutdown, or malfunction.
   i. The total operating time of each affected source during the reporting period.
   ii. Information on the number, duration, and cause of instances of noncompliance (including unknown cause, if applicable), as applicable. For each instance, include the date and time, a list of the affected source or equipment, an estimate of the quantity of each regulated pollutant emitted over any emission limit, a description of the method used to estimate the emissions, and the corrective action taken.

x. An immediate startup, shutdown, and malfunction report is not required for this source **(ID No. ES-10)** on and after August 7, 2019.

y. The Permittee shall be deemed in noncompliance with reporting requirements of 15A NCAC 02D .1111 if these reports are not submitted.

5. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY

a. The Permittee shall comply with all applicable provisions contained in Environmental Management Commission Standard 15A NCAC 02D .1111, "Maximum Achievable Control Technology" as promulgated in 40 CFR 63, Subpart MMMM, "National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products", by **January 2, 2007** for the existing sources **(ID Nos. ES-17 and ES-18)**.

Emission Limits [40 CFR 63.3890]

b. For each existing rubber-to-metal coating affected source **(ID Nos. ES-17 and ES-18)**, the Permittee shall limit organic HAP emissions to the atmosphere to no more than 4.5 kg (37.7 lb) organic HAP per liter (gal) coating solids used during each 12-month compliance period. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these emission limits are not met.

Compliance Options [40 CFR 63.3891]

c. The Permittee shall include all coatings, thinners and/or other additives, and cleaning materials used in the affected source when determining whether the organic HAP emission rate is equal to or less than the applicable emission limit in Section 2.2 A.5.b above. To make this determination, the Permittee shall demonstrate that the organic HAP content of each coating used in the coating operation(s) is less than or equal to the applicable emission limit in Section 2.2 A.5.b above, and that each thinner and/or other additive, and cleaning material used contains no organic HAP. The Permittee shall meet all of the following requirements to demonstrate compliance with the applicable emission limit using this option:

i. The Permittee may use the compliant material option for any individual coating operation, for any group of coating operations in the affected source, or for all the coating operations in the affected source. To demonstrate initial compliance using the compliant material option, the coating operation or group of coating operations must use no coating with an organic HAP content that exceeds the applicable emission limits in Section 2.2 A.5.b above and must use no thinner and/or other additive, or cleaning material that contains organic HAP. The Permittee shall conduct a separate initial compliance demonstration for each rubber-to-metal coating operation.

ii. (A) Determine the mass fraction of organic HAP for each material used. The Permittee shall determine the mass fraction of organic HAP for each coating, thinner and/or other additive, and cleaning material used during the compliance period by using one of the following options:

(1) Method 311 (appendix A to 40 CFR part 63). The Permittee may use Method 311 for determining the mass fraction of organic HAP by using the following procedures:

(a) Count each organic HAP that is measured to be present at 0.1 percent by mass or more for Occupational Safety and Health Administration (OSHA)-defined carcinogens as specified in 29 CFR 1910.1200(d)(4) and at 1.0 percent by mass or more for other compounds. For example, if toluene (not an OSHA carcinogen) is measured to be 0.5 percent of the material by mass, the Permittee does not have to count it. Express the mass fraction of each organic HAP for which the Permittee counts, as a value truncated to four places after the decimal point (e.g., 0.3791)

(b) Calculate the total mass fraction of organic HAP in the test material by adding up the individual organic HAP mass fractions and truncating the result to three places after the decimal point (e.g., 0.763).

(2) Method 24 (appendix A to 40 CFR part 60). For coatings, the Permittee may use Method 24 to determine the mass fraction of nonaqueous volatile matter and use that value as a substitute for mass fraction of organic HAP. For reactive adhesives in which some of the HAP react to form solids and are not emitted to the atmosphere, the Permittee may use the alternative method contained in appendix A to subpart PPPP of this part, rather than Method 24. The Permittee may use the volatile fraction that is emitted, as measured by the alternative method in appendix A to subpart PPPP of this part, as a substitute for the mass fraction of organic HAP.

(3) Alternative method. The Permittee may use an alternative test method for determining the mass fraction of organic HAP once the Administrator has approved it. The Permittee shall follow the procedure in 63.7(f) to submit an alternative test method for approval.

(4) Information from the supplier or manufacturer of the material. The Permittee may rely on information other than that generated by the test methods specified in Section 2.2 A.5.c.ii.(A)(1) through (3) above, such as manufacturer's formulation data, if it represents each organic HAP that is present at 0.1 percent by mass or more for OSHA-defined carcinogens as specified in 29 CFR 1910.1200(d)(4) and at 1.0 percent by mass or more for other compounds. For example, if toluene (not an OSHA carcinogen) is 0.5 percent of the material by mass, the Permittee does not have to count it. For reactive adhesives in which some of the HAP react to form solids and are not emitted to the atmosphere, the Permittee may rely on manufacturer's data that expressly states the organic HAP or volatile matter mass fraction emitted. If there is a disagreement between such information and results of a test conducted according to Section 2.2 A5.c.ii.(A)(1) through (3) above, then the test method results will take precedence unless, after consultation, the Permittee demonstrates to the satisfaction of DAQ that the formulation data are correct.

(5) Solvent blends. Solvent blends may be listed as single components for some materials in data provided by manufacturers or suppliers. Solvent blends may contain organic HAP, which must be counted toward the total organic HAP mass fraction of the materials. When test data and manufacturer's data for solvent blends are not available, the Permittee may use the default values for the mass fraction of organic HAP in these solvent blends listed in Table 3 or 4 of Subpart MMMM. If the Permittee uses the tables, he shall use the values in Table 3 for all solvent blends that match Table 3 entries according to the instructions for Table 3, and may use Table 4 only if the solvent blends in the

materials do not match any of the solvent blends in Table 3 and he knows only whether the blend is aliphatic or aromatic. However, if the results of a Method 311 (appendix A to 40 CFR part 63) test indicate higher values than those listed on Table 3 or 4 to this subpart, the Method 311 results will take precedence unless, after consultation, he demonstrates to the satisfaction of DAQ that the formulation data are correct.

(B) Determine the volume fraction of coating solids for each coating. The Permittee shall determine the volume fraction of coating solids (liters (gal) of coating solids per liter (gal) of coating) for each coating used during the compliance period by a test, by information provided by the supplier or the manufacturer of the material, or by calculation, as specified in Section 2.2 A.5.c.ii.(B)(1) through (4) below. If test results obtained according to Section 2.2 A.5.c.ii.(B)(1) below do not agree with the information obtained under Section 2.2 A.5.c.ii.(B)(2) or (3) below, the test results will take precedence unless, after consultation, the Permittee demonstrates to the satisfaction of DAQ that the formulation data are correct.

(1) ASTM Method D2697-86 (Reapproved 1998) or ASTM Method D6093-97 (Reapproved 2003). The Permittee may use ASTM Method D2697-86 (Reapproved 1998), "Standard Test Method for Volume Nonvolatile Matter in Clear or Pigmented Coatings" (incorporated by reference, see Sec. 63.14), or ASTM Method D6093-97 (Reapproved 2003), "Standard Test Method for Percent Volume Nonvolatile Matter in Clear or Pigmented Coatings Using a Helium Gas Pycnometer" (incorporated by reference, see 63.14), to determine the volume fraction of coating solids for each coating. Divide the nonvolatile volume percent obtained with the methods by 100 to calculate volume fraction of coating solids.

(2) Alternative method. The Permittee may use an alternative test method for determining the solids content of each coating once the Administrator has approved it. The Permittee shall follow the procedure in 63.7(f) to submit an alternative test method for approval.

(3) Information from the supplier or manufacturer of the material. The Permittee may obtain the volume fraction of coating solids for each coating from the supplier or manufacturer.

(4) Calculation of volume fraction of coating solids. The Permittee may determine the volume fraction of coating solids using the following equation:

$$V_s = 1 - \frac{m_{volatiles}}{D_{avg}} \qquad \text{(Eq. 1)}$$

Where: V_s = Volume fraction of coating solids, liters (gal) coating solids per liter (gal) coating.
$m_{volatiles}$ = Total volatile matter content of the coating, including HAP, volatile organic compounds (VOC), water, and exempt compounds, determined according to Method 24 in appendix A of 40 CFR part 60, grams volatile matter per liter coating.
D_{avg} = Average density of volatile matter in the coating, grams volatile matter per liter volatile matter, determined from test results using ASTM Method D1475-98, "Standard Test Method for Density of Liquid Coatings, Inks, and Related Products" (incorporated by reference, see 63.14), information from the supplier or manufacturer of the material, or reference sources providing density or specific gravity data for pure materials. If there is disagreement between ASTM Method D1475-98 test results and other information sources, the test results will take precedence unless, after consultation the Permittee demonstrates to the satisfaction of DAQ that the formulation data are correct.

(C) Determine the density of each coating. Determine the density of each coating used during the compliance period from test results using ASTM Method D1475-98, "Standard Test Method for Density of Liquid Coatings, Inks, and Related Products" (incorporated by reference, see 63.14), information from the supplier or manufacturer of the material, or specific gravity data for pure chemicals. If there is disagreement between ASTM Method D1475-98 test results and the supplier's or manufacturer's information, the test results will take precedence unless, after consultation the Permittee demonstrates to the satisfaction of DAQ that the formulation data are correct.

(D) Determine the organic HAP content of each coating. Calculate the organic HAP content, kg (lb) of organic HAP emitted per liter (gal) coating solids used, of each coating used during the compliance period using the following equation:

$$H_c = \frac{(D_c)(W_c)}{V_s} \qquad \text{(Eq. 2)}$$

Where: H_c = Organic HAP content of the coating, kg (lb) organic HAP emitted per liter (gal) coating solids used.
D_c = Density of coating, kg (lb) coating per liter (gal) coating, determined according to Section 2.2 A.5.c.ii.(C) above.
W_c = Mass fraction of organic HAP in the coating, kg (lb) organic HAP per kg (lb) coating, determined according to Section 2.2 A.5.c.ii.(A) above.
V_s = Volume fraction of coating solids, liter (gal) coating solids per liter (gal) coating, determined according to Section 2.2 A.5.c.ii.(B) above.

(E) Compliance demonstration. The calculated organic HAP content for each coating used during the initial compliance period must be less than or equal to the applicable emission limit in Section 2.2 A.5.b above; and each thinner and/or other additive, and cleaning material used during the initial compliance period must contain no organic HAP, determined according to Section 2.2 A.5.c.ii.(A) above. The Permittee shall keep all records required by Section 2.2 A.5.i below. As part of the notification of compliance status required in Section 2.2 A.5.g below, the Permittee shall identify the coating operation(s) for which he used the compliant material option and submit a statement that the coating operation(s) was (were) in compliance with the emission limitations during the initial compliance period because he used no coatings for which the organic HAP content exceeded the applicable emission limit in Section 2.2 A.5.b above, and he used no thinners and/or other additives, or cleaning materials that contained organic HAP, determined according to the procedures in Section 2.2 A.5.c.ii.(A) above.

iii. (A) For each compliance period to demonstrate continuous compliance, the Permittee shall use no coating for which the organic HAP content (determined using Equation 2 of Section 2.2 A.5.c.ii.(D) above) exceeds the applicable emission limit in Section 2.2 A.5.b above, and use no thinner and/or other additive, or cleaning material that contains organic HAP, determined according to Section 2.2 A.5.c.ii.(A) above. A compliance period consists of 12 months. Each month, after the end of the initial compliance period described in Section 2.2 A.5.c.i above, is the end of a compliance period consisting of that month and the preceding 11 months.

(B) If the Permittee chooses to comply with the emission limitations by using the compliant material option, the use of any coating, thinner and/or other additive, or cleaning material that does not meet the criteria specified in Section 2.2 A.5.c.iii.(A) above is an instance of noncompliance from the emission limitations that must be reported as specified in Section 2.2 A.5.g below.

(C) As part of each semiannual compliance report required by Section 2.2 A.5.j below, the Permittee shall identify the coating operation(s) for which you used the compliant material option. If there were no instances of noncompliance from the applicable emission limit in Section 2.2 A.5.b above, submit a statement that the coating operation(s) was (were) in compliance with the emission limitations during the reporting period because he used no coatings for which the organic HAP content exceeded the applicable emission limit in Section 2.2 A.5.b above, and he used no thinner and/or other additive, or cleaning material that contained organic HAP, determined according to Section 2.2 A.5.c.ii.(A) above.

(D) The Permittee shall maintain records as specified in Section 2.2 A.5.i below.

d. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these compliance options are not met.

Operating Limits/Work Practice Standards [40 CFR 63.3892 and 63.3893]

e. The Permittee is not required to meet any operating limits or work practice standards.

Notifications [40 CFR 63.3910]

f. The Permittee shall submit the notifications in 63.7(b) and (c), 63.8(f)(4), and 63.9(b) through (e) and (h) that apply to you by the dates specified in those sections, except as provided in Section 2.2 A.7.g below.

g. The Permittee shall submit the notification of compliance status required by 63.9(h) by **March 3, 2008**. The notification of compliance status must contain the following information and the information in 63.9(h).

i. Company name and address;
ii. Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report;
iii. Date of the report and beginning and ending dates of the reporting period;
iv. Identification of the compliance option specified in Section 2.2 A.5.c above that you used on each coating operation during the initial compliance period;
v. Statement of whether or not the affected source achieved the emission limitations for the initial compliance period;

vi. If the Permittee had an instance of noncompliance, include the following information:
(A) A description and statement of the cause of the instance of noncompliance; and
(B) If the Permittee failed to meet the applicable emission limit in Section 2.2 A.5.b above, include all the calculations used to determine the kg (lb) of organic HAP emitted per liter (gal) coating solids used. The Permittee does not need to submit information provided by the materials' suppliers or manufacturers, or test reports;

vii. For each of the following data items, an example of how the Permittee determined the value, including calculations and supporting data. Supporting data may include a copy of the information provided by the supplier or manufacturer of the example coating or material, or a summary of the results of testing conducted according to Sections 2.2 A.5.c.ii.(B) or (C) above. The Permittee does not need to submit copies of any test reports.
(A) Mass fraction of organic HAP for one coating, for one thinner and/or other additive, and for one cleaning material;
(B) Volume fraction of coating solids for one coating; and
(C) Density for one coating, one thinner and/or other additive, and one leaning material, except that if the Permittee uses the compliant material option, only the example coating density is required; and

viii. The calculation of kg (lb) of organic HAP emitted per liter (gal) coating solids used for the compliant material option, an example calculation of the organic HAP content for one coating, using Equation 2 of Section 2.2 A.5.c.ii.(D) above.

h. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these notifications are not submitted.

Recordkeeping [40 CFR 63.3930]

i. The Permittee shall collect and keep records of the data and information specified below:
i. A copy of each notification and report submitted to comply with this subpart, and the documentation supporting each notification and report;
ii. A current copy of information provided by materials suppliers or manufacturers, such as manufacturer's formulation data, or test data used to determine the mass fraction of organic HAP and density for each coating, thinner and/or other additive, and cleaning material, and the volume fraction of coating solids for each coating. If the Permittee conducted testing to determine mass fraction of organic HAP, density, or volume fraction of coating solids, he shall keep a copy of the complete test report. If the Permittee uses information provided by the manufacturer or supplier of the material that was based on testing, he shall keep the summary sheet of results provided by the manufacturer or supplier. The Permittee is not required to obtain the test report or other supporting documentation from the manufacturer or supplier;
iii. For each compliance period, the records specified below:
(A) A record of the coating operations; and
(B) A record of the calculation of the organic HAP content for each coating, using Equation 2 of Section 2.2 A.5.c.ii.(D) above.
iv. A record of the name and volume of each coating, thinner and/or other additive, and cleaning material used during each compliance period. If the Permittee is using the compliant material option for all coatings at the source, he may maintain purchase records for each material used rather than a record of the volume used;
v. A record of the mass fraction of organic HAP for each coating, thinner and/or other additive, and cleaning material used during each compliance period unless the material is tracked by weight;
vi. A record of the volume fraction of coating solids for each coating used during each compliance period; and
vii. The Permittee shall keep records of the date, time, and duration of each deviation.
The Permittee shall be deemed in noncompliance with the recordkeeping requirements of 15A NCAC 02D .1111 if the above records are not maintained.

Reporting [40 CFR 63.3920]

j. The Permittee shall submit a summary report of the 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. All instances of deviations from the requirements of this permit must be clearly identified. The report shall contain the following information:
i. Company name and address;
ii. Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report
iii. Date of report and beginning and ending dates of the reporting period;
iv. Identification of the compliance option that you used on each coating operation during the reporting period;

v. If there were no instances of noncompliance from the emission limitations in Section 2.2 A.7.b above that apply, a statement that there were no instances of noncompliance from the emission limitations during the reporting period;

vi. If there was an instance of noncompliance from the applicable organic HAP content requirements in Section 2.2 A.5.b above, the following information:

(A) Identification of each coating used that deviated from the applicable emission limit, and each thinner and/or other additive, and cleaning material used that contained organic HAP, and the dates and time periods each was used;

(B) The calculation of the organic HAP content (using Equation 2 of Section 2.2 A.5.c.ii.(D) above) for each coating identified in Section 2.2 A.5.j.vi.(A) above. The Permittee does not need to submit background data supporting this calculation (e.g., information provided by coating suppliers or manufacturers, or test reports);

(C) The determination of mass fraction of organic HAP for each thinner and/or other additive, and cleaning material identified in Section 2.2 A.5.j.vi.(A) above. The Permittee does not need to submit background data supporting this calculation (e.g., information provided by material suppliers or manufacturers, or test reports); and

(D) A statement of the cause of each instance of noncompliance.

k. The Permittee shall be deemed in noncompliance with reporting requirements of 15A NCAC 02D .1111 if these reports are not submitted.

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

Emission Source ID No.	Emission Source Description[1,2]
IES-2	One electric mold preheat oven
IES-3	One electric mold preheat oven
IES-36	R & D room consisting of small-scale testing equipment and operations
IES-47	Caustic bath vent
IES-48	One wastewater holding tank (15,000 gallon capacity)
IES-56 IES-57 IES-62	Three robotic welders
IES-59 IES-60	Two manual welders
IES-61	R & D vacuum with associated bagfilter **(ID No. ICD-58)**
IES-SGSLV	Sigma mixer solids loading vent equipped with filter
IES-DP Booth 1	One water-based disk pad paint spray booth with filters
IES-DP Booth 2	One water-based disk pad paint spray booth with filters
IES-DYNO	One dust capture system installed on a brake pad dyno-testing equipment with filter
IF-06	Adhesive parts cleaner
IF-09	R & D area low-volume high-sheer mixer equipped with a filter
IES-EMER[3] **MACT ZZZZ**	One propane-fired emergency back-up (94 HP) generator
IES-EMER2 **NSPS JJJJ,** **MACT ZZZZ**	One 100 kW propane-fired emergency generator (131 kW, 175 HP) maximum engine power)

[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.”

[3] The existing emergency generator (ID No. IES-EMER) shall be removed from the facility upon installation of the new emergency generator (ID No. IES-EMER2).

SECTION 4 - GENERAL CONDITIONS (version 8.0, 07/10/2024)

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 the 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, one copy 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 NonOperating 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.