



North Carolina Department of Environment and Natural Resources

Division of Air Quality
B. Keith Overcash, P.E.
Director

Beverly Eaves Perdue
Governor

Dee Freeman
Secretary

date, 2009

Mr. Bruce Shute
Vice President and General Manager
Railroad Friction Products Corp.
P.O. Box 1349
Laurinburg, North Carolina 28353

Dear Mr. Shute:

SUBJECT: **Air Quality Permit No. 02941T25**
Facility ID: 8300019
Railroad Friction Products Corporation
Laurinburg, North Carolina
Scotland County
Fee Class: Title V

In accordance with your completed Air Quality Permit Application for **Significant modification** of your Title V permit received **December 31, 2008**, we are forwarding herewith Air Quality Permit No. **02941T25** to Railroad Friction Products Corporation, 13601 Airport Road, Maxton, North Carolina 28364 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 2Q .0503(8) have been listed for informational purposes. Please note the requirements for the annual compliance certification are contained in General Condition P in Section 3. **The current owner is responsible for submitting a compliance certification for the entire year regardless of who owned the facility during the year.**

As the designated responsible official it is your responsibility to review, understand, and abide by all of the terms and conditions of the attached permit. It is also your responsibility to ensure that any person who operates any emission source and associated air pollution control device subject to any term or condition of the attached permit reviews, understands, and abides by the condition(s) of the attached permit that are applicable to that particular emission source.

Permitting Section
1641 Mail Service Center, Raleigh, North Carolina 27699-1641
2728 Capital Blvd., Raleigh, NC 27604
Phone: 919-715-6237 \ FAX: 919-733-5317 \ Internet: www.daq.state.nc.us

One
North Carolina
Naturally

Mr. Bruce Shute

date, 2009

Page 2

If any parts, requirements, or limitations contained in this Air Quality Permit are unacceptable to you, you have the right to request a formal adjudicatory hearing within 30 days following receipt of this permit, identifying the specific issues to be contested. This hearing request must be in the form of a written petition, conforming to NCGS (North Carolina General Statutes) 150B-23, and filed with **both** the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, North Carolina 27699-6714 and the Division of Air Quality, Permitting Section, 1641 Mail Service Center, Raleigh, North Carolina 27699-1641. The form for requesting a formal adjudicatory hearing may be obtained upon request from the Office of Administrative Hearings. Please note that this permit will be stayed in its entirety upon receipt of a request for a hearing. Unless a request for a hearing is made pursuant to NCGS 150B-23, this Air Quality Permit shall be final and binding 30 days after issuance.

You may request modification of your Air Quality Permit through informal means pursuant to NCGS 150B-22. This request must be submitted in **writing** to the Director and must identify the specific provisions or issues for which the modification is sought. Please note that this Air Quality Permit will become final and binding regardless of a request for informal modification unless a request for a hearing is also made under NCGS 150B-23.

The construction of new air pollution emission source(s) and associated air pollution control device(s), or modifications to the 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 GS 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 GS 143-215.108A and may subject the Permittee to civil or criminal penalties as described in GS 143-215.114A and 143-215.114B.

This Air Quality Permit shall be effective from **date, 2009** until **February 29, 2012**, 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 Mr. Mark J. Cuilla, E.I.T. (mark.cuilla@ncmail.net) at (919) 733-1499.

Sincerely yours,

Donald R. van der Vaart, Ph.D., P.E.
Chief

Enclosure

c: Greg Worley, EPA Region 4 (with review)
Fayetteville Regional Office
Central Files

ATTACHMENT

Insignificant Activities under 15A NCAC 2Q .0503(8) under Permit No. **02941T25**

Emission Source ID	Emission Source Description
IES-2	One natural gas-fired mold pre-heat oven (175,000 Btu per hour)
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	Two robotic welders
IES-57	
IES-59	Two manual welders
IES-60	
IES-61	R&D vacuum
IES-SGSLV	Sigma mixer solids loading vent equipped with filter
IF-06	Adhesive parts cleaner
IF-08	Wedge casting/sealing operation
IF-09	R&D area low-volume high-shear mixer equipped with a filter

ATTACHMENT

The following table lists all modifications associated with permit application **8300019.09A**:

Page(s)	Section	Description of Change(s)
Attachment	Insignificant activities	-updated permit revision number -added equipment per Permittee request
Cover	-	-updated permit revision number and all dates
All	Header	-updated permit revision number
3-5	Equipment table	-removed ES-19a per Permittee request -removed asterisk and associated table footnote for ES-60 TV minor modification language
10	2.1 A.3.c (table)	-clarified VE excursions level for CAM per Permittee request and FRO concurrence
11-12	2.1 B	-removed all references to ES-19a per Permittee
28-37	General Conditions	-updated conditions (v2.22.1)

State of North Carolina
Department of Environment,
and Natural Resources



Division of Air Quality

AIR QUALITY PERMIT

Permit No.	Replaces Permit No.(s)	Effective Date	Expiration Date
02941T25	02941T24	date, 2009	February 29, 2012

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 2D and 2Q, and other applicable Laws.

Pursuant to Title 15A NCAC, Subchapter 2Q, 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 Corp.**

Facility ID: **8300019**

Facility Site Location: **13601 Airport Road**
City, County, State, Zip: **Maxton, Scotland County, North Carolina 28364**
Mailing Address: **Post Office Box 1349**
City, State, Zip: **Laurinburg, North Carolina 28353**

Application Number: **8300019.09A**
Complete Application Date: **December 31, 2008**

Primary SIC Code: **3069**

Division of Air Quality, **Fayetteville Regional Office**
Regional Office Address: **225 Green Street, Suite 714**
Fayetteville, NC 28301-5043

Permit issued this the xxth day of xxxx, 2009

Donald R, van der Vaart, Ph.D., P.E., Chief, Air Permits Section
By Authority of the Environmental Management Commission

Table Of Contents

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

SECTION 2: SPECIFIC LIMITATIONS AND CONDITIONS

2.1- Emission Source(s) Specific Limitations and Conditions
(Including specific requirements, testing, monitoring, recordkeeping, and
reporting requirements)

2.2- Multiple Emission Source(s) Specific Limitations and Conditions
(Including specific requirements, testing, monitoring, recordkeeping, and
reporting requirements)

SECTION 3: GENERAL PERMIT CONDITIONS

ATTACHMENT

List of Acronyms

The Division of Air Quality (DAQ), the United States Environmental Protection Agency (EPA), and citizens as defined under the Federal Clean Air Act have the authority to enforce the terms, conditions, and limitations contained in this permit unless otherwise specified.

Under Title 15A NCAC 2Q, the operation of emission source(s) and associated air pollution control device(s) and appurtenances listed in this permit is based on plans, specifications, operating parameters, and other information as submitted in the Air Quality Permit Application.

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	One bagfilter (12,800 square feet of filter area)
ES-05F	One trim/scrap saw		
ES-07B	One dry mixer (70.6 cubic feet capacity)	CD-01	One bagfilter (12,800 square feet of filter area)
ES-52	Miscellaneous weigh stations and grinders	CD-03	One bagfilter (11,700 square feet of filter area)
ES-54.1 through ES-54.3	Rubber grinding operations including storage hopper, storage bin, and process cyclone		
ES-06	Reclaim scrap grinder (625 pounds per hour maximum capacity)	CD-01	One bagfilter (12,800 square feet of filter area)
		CD-02	One bagfilter (2,040 square feet of filter area)
		CD-03	One bagfilter (11,700 square feet of filter area)

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
ES-03 ES-07A ES-Shred ES-Silo ES-05A through ES-05E ES-53 ES-55 ES-60	Wet mix room general exhaust vent Weigh out area One paper/cardboard shredder 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-09	Sigma mixer batch hopper	CD-04	One bagfilter (150 square feet of filter area)
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	Banbury Weigh Station	CD-07	One bagfilter (1,520 square feet of filter area)
ES-59	Blanchard Grinder		
Mixing Operations			
ES-10 (MACT, Subpart QQQQ)	One Sigma mixer (78.6 cubic feet maximum capacity)	CD-05A CD-05B	One glycol condenser One glycol condenser
F-01 F-02	Two granulators	CD-03	One bagfilter (11,700 square feet of filter area)
ES-50 ⁺	One hexane storage tank (15,000 gallon capacity)	NA	NA

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
Spray Application Processes			
ES-17 (MACT, Subpart 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, Subpart MMMM)	One wedge casting hand spray application process with panel-filter	NA	NA
ES-19new	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 natural gas-fired Post Bake Ovens (1.0 million Btu per hour maximum heat input each)	NA	NA
ES-23 and ES-24	Two 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 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 ES-35.1 through ES-35.4	Eleven press lines, each line with four presses (with the exception of ES-31, ES-32, and ES-33 which have five presses, each)	NA	NA
ES-51	One natural gas-fired NABCO oven (100,000 Btu per hour maximum heat input capacity)	NA	NA

[†]Source with no applicable requirements.

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. Solids Handling Equipment including:

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

**One dry mixer (ID No. ES-07B),
Miscellaneous weigh stations and grinders (ID No. ES-52), and
Rubber grinding operations (ID Nos. ES-54.1 through ES-54.3)
with associated bagfilters (ID Nos. CD-01 and CD-03)**

**One reclaim scrap grinder (ID No. ES-06) with associated bagfilters (ID Nos. CD-01, CD-02,
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),
One paper/cardboard shredder (ID No. ES-Shred),
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-09) with associated bagfilter (ID No. CD-04)

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

**Banbury Mixer Weigh Station (ID No. ES-58),
Blanchard Grinder (ID No. ES-59),
with associated bagfilter (ID No. CD-07)**

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

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	<p>(For process rates up to 30 tons per hour) $E = 4.10 \times P^{0.67}$</p> <p>(For process rates greater than 30 tons per hour) $E = 55.0 \times P^{0.11} - 40$</p> <p>Where: E = allowable emission rate in pounds per hour P = process weight in tons per hour</p>	15A NCAC 2D .0515
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Particulate matter	(ID Nos. CD-01 and CD-03 only) Compliance Assurance Monitoring	15A NCAC 2D .0614

1. 15A NCAC 2D .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-09, ES-52 through ES-60, ES-Shred, and ES-Silo**) 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 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and 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 2D .0515.

Monitoring/Recordkeeping [15A NCAC 2Q .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-09, ES-52 through ES-60, ES-Shred, and ES-Silo**) shall be controlled by the bagfilters (**ID Nos. CD-01 through CD-04, CD-06, and CD-07**) and bin vent filter (**ID No. CD-08**) as described above. To assure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there are no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include the following:
- i. a monthly visual inspection of the system ductwork and material collection unit for leaks; and
 - ii. an annual (for each 12 month period following initial inspection) internal inspection of the bagfilters' structural integrities.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .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 the bagfilters; and
 - iv. any variance from manufacturer's recommendations, if any, and corrections made.The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if these records are not maintained.

Reporting [15A NCAC 2Q .0508(f)]

- e. The Permittee shall submit the results of any maintenance performed on the bagfilters (**ID Nos. CD-01 through CD-04, CD-06, and CD-07**) and bin vent filter (**ID No. CD-08**) within 30 days of a written request by the DAQ.
- f. 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.

2. 15A NCAC 2D .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-09, ES-52 through ES-60, ES-Shred, and ES-Silo**) 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 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and 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 2D .0521.

Monitoring/Recordkeeping [15A NCAC 2Q .0508(f)]

- c. To assure 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-09, ES-52 through ES-60, ES-Shred, and ES-Silo**) 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. 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 2D .2601 (Method 9) for 12 minutes is below the limit given in Section 2.1 A.2.a above.

If the above-normal emissions are not corrected per i above or if the demonstration in ii above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0521.

- d. The results of the monitoring shall be maintained in a log (written or electronic format) on-site and made available to an authorized representative upon request. The log 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 2D .0521 if these records are not maintained.

Reporting [15A NCAC 2Q .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.

3. 15A NCAC 2D .0614: COMPLIANCE ASSURANCE MONITORING

- a. Per 40 CFR 64 and 15A NCAC 2D .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 grinders (**ID No. ES-52**)

Recycle unloading station (**ID No. ES-53**)

Rubber grinding operations (**ID Nos. ES-54.1 through ES-54.3**)

Calcium carbonate unloading operation (**ID No. ES-55**)

R-12 unloading station (**ID No. ES-60**)

Paper/Cardboard Shredder (**ID No. ES-Shred**)

Storage silo (**ID No. ES-Silo**)

- ii. Applicable Regulation, Emission Limit, and Monitoring Requirements.

(A) Regulations. 15A NCAC 2D .0515 and 15A NCAC 2D .0521.

(B) Emission limits

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

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

2. 20 percent opacity

(C) Control Technology. Two 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.

	1	2
I. Indicator	Visible emissions (each bagfilter)	Pressure drop (each bagfilter)
Measurement Approach	Visible emissions from the fabric filter will be monitored daily using EPA Reference Method 22-like procedures	Pressure drop across the fabric filter is measured with a differential pressure gauge
II. Indicator Range	An excursion is defined as the presence of visible emissions above normal . Excursions trigger an inspection, corrective action, and a reporting requirement.	An excursion is defined as a pressure drop other than 1 to 7 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	The QIP threshold is five excursions in a 6-month reporting period.	None selected
III. Performance Criteria		
A. Data Representativeness	Measurements are being made at the emission point (fabric filter outlet)	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	NA
C. QA/QC Practices	The observer will be familiar with Reference Method 22 and follow Method 22-like procedures.	The pressure gauge is checked daily for operation.
D. Monitoring Frequency	Observations are done daily.	Pressure drop is monitored daily.
Data Collection Procedures	VE observations are documented by the observer.	Pressure gauge readings are manually recorded daily.
Averaging Periods	NA	NA

Reporting [15A NCAC 2Q .0508(f)]

- 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.

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-19new)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	<p>(For process rates up to 30 tons per hour) $E = 4.10 \times P^{0.67}$</p> <p>(For process rates greater than 30 tons per hour) $E = 55.0 \times P^{0.11} - 40$</p> <p>Where: E = allowable emission rate in pounds per hour P = process weight in tons per hour</p>	15A NCAC 2D .0515
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Hazardous air pollutants	<p>(ID Nos. ES-17 and ES-18 only) See Section 2.2 A.6 National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products</p>	15A NCAC 2D .1111 (40 CFR 63, Subpart MMMM)

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

- a. Emissions of particulate matter from these sources (**ID Nos. ES-17, ES-18, and ES-19new**) 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 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and 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 2D .0515.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .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 2D .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-19new**).

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

- a. Visible emissions from these sources (**ID Nos. ES-17, ES-18, and ES-19new**) 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 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and 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 2D .0521.

Monitoring/Recordkeeping [15A NCAC 2Q .0508(f)]

- c. To assure compliance, once a month the Permittee shall observe the emission points of these sources (**ID Nos. ES-17, ES-18, and ES-19new**) 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. If visible emissions from these sources (**ID Nos. ES-17, ES-18, and ES-19new**) 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 2D .2601 (Method 9) for 12 minutes is below the limit given in Section 2.1 B.2.a above.

If the above-normal emissions are not corrected per i above or if the demonstration in ii above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0521.

- d. The results of the monitoring shall be maintained in a log (written or electronic format) on-site and made available to an authorized representative upon request. The log 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 2D .0521 if these records are not maintained.

Reporting [15A NCAC 2Q .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.

C. Brake Molding and Curing Operations including:**Post bake ovens (ID Nos. ES-20 through ES-24)****Press lines (ID Nos. ES-25 through ES-35)**

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Visible emissions	40 percent opacity	15A NCAC 2D .0521

1. 15A NCAC 2D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from these sources (**ID Nos. ES-20 through ES-24 and ES-25 through ES-35**) 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.

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and 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 2D .0521.

Monitoring/Recordkeeping [15A NCAC 2Q .0508(f)]

- c. To assure compliance, once a month the Permittee shall observe the emission points of these sources (**ID Nos. ES-20 through ES-24 and ES-25 through ES-35**) 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. If visible emissions from these sources (**ID Nos. ES-20 through ES-24 and ES-25 through ES-35**) are observed to be above normal, the Permittee shall either:
- 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
 - demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .2601 (Method 9) for 12 minutes is below the limit given in Section 2.1 C.2.a above.
- If the above-normal emissions are not corrected per i above or if the demonstration in ii above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0521.
- d. The results of the monitoring shall be maintained in a log (written or electronic format) on-site and made available to an authorized representative upon request. The log shall record the following:
- the date and time of each recorded action;
 - 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
 - the results of any corrective actions performed.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521 if these records are not maintained.

Reporting [15A NCAC 2Q .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)**
- Post bake ovens (ID Nos. ES-20 through ES-24)**
- NABCO oven (ID No. ES-51)**
- Press ES-25.1 through ES-25.4**
- Press ES-26.1 through ES-26.4**
- Press ES-27.1 through ES-27.4**
- 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)**
- Granulators (ID Nos. F-01 and F-02)**

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Volatile organic compounds	Work practice standards	15A NCAC 2D .0958
Toxic air pollutants	State-enforceable only See Section 2.2.A.2	15A NCAC 2D .1100
Toxic air pollutants	State-enforceable only See Section 2.2.A.3	15A NCAC 2Q .0711
Toxic air pollutants	State-enforceable only See Section 2.2 A.4	15A NCAC 2Q .0705
Odors	State-enforceable only Odorous emissions must be controlled	15A NCAC 2D .1806
Hazardous air pollutants	(ID No. ES-10 only) See Section 2.2 A.6 National Emission Standards for Hazardous Air Pollutants for Friction Materials Manufacturing Facilities	15A NCAC 2D .1111 (40 CFR 63, Subpart QQQQ)

Regulated Pollutant	Limits/Standards	Applicable Regulation
Hazardous air pollutants	(ID Nos. ES-17 and ES-18 only) See Section 2.2 A.7 National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products	15A NCAC 2D .1111 (40 CFR 63, Subpart MMMM)

1. 15A NCAC 2D .0958: WORK PRACTICES FOR SOURCES OF VOLATILE ORGANIC COMPOUNDS

- a. Pursuant to 15A NCAC 2D .0958, for all sources that use volatile organic compounds (VOC) as solvents, carriers, material processing media, or industrial chemical reactants, or in similar uses that mix, blend, or manufacture VOCs, or emit VOCs as a product of chemical reactions, and whose emissions of VOCs are greater than 15 pounds per day; the Permittee shall:
 - i. store all material, including waste material, containing VOCs in tanks or in containers covered with a tightly fitting lid that is free of cracks, holes, or other defects, when not in use,
 - ii. clean up spills of VOCs as soon as possible following proper safety procedures,
 - iii. store wipe rags containing VOCs in closed containers,
 - iv. not clean sponges, fabric, wood, paper products, and other absorbent materials with VOCs,
 - v. transfer solvents containing VOCs used to clean supply lines and other coating equipment into closable containers and close such containers immediately after each use, or transfer such solvents to closed tanks, or to a treatment facility regulated under section 402 of the Clean Water Act,
 - vi. clean mixing, blending, and manufacturing vats and containers containing VOCs by adding cleaning solvent and close the vat or container before agitating the cleaning solvent. The spent cleaning solvent shall then be transferred into a closed container, a closed tank or a treatment facility regulated under section 402 of the Clean Water Act. [15A NCAC 2D .0958(c)]
- b. When cleaning parts with a solvent containing a VOC, the Permittee shall:
 - i. flush parts in the freeboard area,
 - ii. take precautions to reduce the pooling of solvent on and in the parts,
 - iii. tilt or rotate parts to drain solvent and allow a minimum of 15 seconds for drying or until all dripping has stopped, whichever is longer,
 - iv. not fill cleaning machines above the fill line,
 - v. not agitate solvent to the point of causing splashing. [15A NCAC 2D .0958(d)]

Monitoring/Recordkeeping [15A NCAC 2Q .0508(f)]

- c. To assure compliance with paragraphs a and b above, the Permittee shall, at a minimum, perform a visual inspection once per month of all operations and processes utilizing VOCs and shall immediately initiate any corrective actions required to meet the requirements of paragraphs a and b above. The inspections shall be conducted during normal operations. If the required inspections are not conducted the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0958.
- d. The results of the inspections 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 inspection; and
 - ii. the results of each inspection noting whether or not noncompliant conditions were observed and whether or not corrective actions taken to restore compliance.

If the required records are not maintained the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0958.

Reporting [15A NCAC 2Q .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.

State-enforceable only

2. 15A NCAC 2D .1100: CONTROL OF TOXIC AIR POLLUTANTS

- a. Pursuant to 15A NCAC 2D .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)
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	370.9 lbs/day
	Methyl Ethyl Ketone	147.6 lbs/hr
	Ammonia	15.82 lbs/hr
	Formaldehyde	0.88 lbs/hr
	Phenol	5.56 lbs/hr
	Toluene	328 lbs/hr
	Toluene	660.8 lbs/day
ES-10	Hexane isomers n-hexane	2162.89 lbs/hr 685.68 lbs/day
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	662.07 lbs/hr 209.52 lbs/day
ES-34.1 through ES-34.4 and ES-35.1 through ES-35.4	Hexane isomers n-hexane	441.44 lbs/hr 140.88 lbs/day
ES-20 through ES-24 and ES-51	Hexane isomers n-hexane	220.72 lbs/hr 70.56 lbs/day
ES-3	Hexane isomers n-hexane	882.79 lbs/hr 280.08 lbs/day
ES-50	Hexane isomers n-hexane	44.13 lbs/hr 13.44 lbs/day

- 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

- 3. **15A NCAC 2Q .0711: EMISSION RATES REQUIRING A PERMIT** - Pursuant to 15A NCAC 2Q .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 2Q .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 2Q .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 2D .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 (lbs/yr)	Chronic Toxicants (lbs/day)	Acute Systemic Toxicants (lbs/hr)	Acute Irritants (lbs/hr)
Epichlorohydrin (106-89-8)	5600			

State-enforceable only

4. 15A NCAC 2Q .0705: EXISTING FACILITIES AND SIC CALLS

- a. As of **October 27, 2006**, emissions of toxic air pollutants have been demonstrated on a facility-wide basis (excluding those sources exempt under 15A NCAC 2Q .0702 “Exemptions”) that each of the toxic air pollutants (TAPs) emitted from all sources at the facility are either below its respective toxic permit emission rates (TPER) listed in 15A NCAC 2Q .0711 “Emission Rates Requiring a Permit” or the TAPs are in compliance with 15A NCAC 2D .1100 “Control of Toxic Air Pollutants” as described in Section 2.2 A.2 above.

- b. The facility shall be operated and maintained in such a manner that any new, existing or increased actual emissions of any TAP listed in 15A NCAC 2Q .0711 or in this permit from all sources at the facility (excluding those sources exempt under 15A NCAC 2Q .0702), including fugitive emissions and emission sources not otherwise required to have a permit, will not exceed its respective TPER listed in 15A NCAC 2Q .0711 without first obtaining an air permit to construct and operate.
- c. PRIOR to exceeding any of the TPERs listed in 15A NCAC 2Q .0711, the Permittee shall be responsible for obtaining an air permit to emit TAPs and for demonstrating compliance with the requirements of 15A NCAC 2D .1100 "Control of Air Pollutants".
- d. The Permittee shall maintain at the facility records of operational information sufficient for demonstrating to the Division of Air Quality staff that actual TAPs are less than the rate listed in 15A NCAC 2Q .0711.
- e. The TPER table listed in Section 2.2 A.2 above, is provided to assist the Permittee in determining when an air permit is required pursuant to 15A NCAC 2Q .0711 and may not represent all TAPs being emitted from the facility. This table will be updated at such time as the permit is either modified or renewed.

State-enforceable only

5. 15A NCAC 2D .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 2Q .0508(f)]

- b. To assure 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 2D .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 2D .1806 if these records are not maintained.

Reporting [15A NCAC 2Q .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.

6. 15A NCAC 2D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY

- a. The Permittee shall comply with all applicable provisions contained in Environmental Management Commission Standard 15A NCAC 2D .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**).

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. The Permittee shall be in compliance with the emission limitation in this subpart at all times, except during periods of startup, shutdown, or malfunction.
- d. The Permittee shall always operate and maintain the affected source, including air pollution control and monitoring equipment, according to the provisions in 40 CFR 63.6(e)(1)(i).
- e. The Permittee shall develop and implement a written startup, shutdown, and malfunction plan according to the provisions in 40 CFR 63.6(e)(3).
- f. 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).

Monitoring [40 CFR 63.9530]

- g. The Permittee shall demonstrate continuous compliance with the emission limitations for solvent mixers in 40 CFR 63.9500(a) and (b) according to the following provisions:
 - i. Except for during malfunctions of the weight measurement device and associated repairs, 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 these requirements:
 - 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 (P_b).
- 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.
- h. The Permittee shall report each instance in which the facility did not meet the emission limitations for solvent mixers in 40 CFR 63.9500(a) and (b). This includes periods of startup, shutdown, or malfunction. These instances are deviations from the emission limitations in this subpart. These deviations must be reported according to the requirements in 40 CFR 63.9540.
- i. During periods of startup, shutdown, or malfunction, the Permittee shall operate in accordance with the startup, shutdown, and malfunction plan.
- j. Consistent with 40 CFR 63.6(e) and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction are not violations if the Permittee demonstrates to the Administrator's satisfaction that the facility was operating in accordance with the startup, shutdown, and malfunction plan. The Administrator will determine whether deviations that occur during a period of startup, shutdown, or malfunction are violations, according to the provisions in 40 CFR 63.6(e).

Monitoring [40 CFR 63.9535]

- k. 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.
- l. 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.

Recordkeeping [40 CFR 63.9545]

- m. 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 records in 40 CFR 63.6(e)(3)(iii) through (v) related to startup, shutdown, or malfunction.

- n. The Permittee shall keep the records required in 40 CFR 63.9525 to show proper operation and maintenance of the weight measurement device.
- o. 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) and (b).

Reporting [40 CFR 63.9540]

- p. 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. If the facility had a startup, shutdown, or malfunction during the reporting period and took actions consistent with the startup, shutdown, and malfunction plan, the compliance report must include the information in 40 CFR 63.10(d)(5)(i).
 - v. If there were no deviations from the emission limitations for solvent mixers in 40 CFR 63.9500(a), a statement that there were no deviations 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.
- q. For each deviation 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 deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.
- r. If the facility had a startup, shutdown, or malfunction during the semiannual reporting period that was not consistent with the startup, shutdown, and malfunction plan, the Permittee shall submit an immediate startup, shutdown, and malfunction report according to the requirements in 40 CFR 63.10(d)(5)(ii).

7. 15A NCAC 2D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY

- a. The Permittee shall comply with all applicable provisions contained in Environmental Management Commission Standard 15A NCAC 2D .1111, "Maximum Achievable Control Technology" as promulgated in 40 CFR 63, Subpart M, "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.

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.7.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.7.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 shall complete the initial compliance demonstration for the initial compliance period ending **January 31, 2008**, according to the requirements in Section 2.2 A.7.c.ii below. The demonstration shall include the calculations and supporting documentation showing that during the initial compliance period, the Permittee used no coating with an organic HAP content that exceeded the applicable emission limit in Section 2.2 A.7.b above, and that he used no thinners and/or other additives, or cleaning materials that contained organic HAP.
 - ii. 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.7.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.
- 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.7.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 A.7.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.7.c.ii.B.1 through 4 below. If test results obtained according to Section 2.2 A.7.c.ii.B.1 below do not agree with the information obtained under Section 2.2 A.7.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:

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

Where: V_s = Volume fraction of coating solids, liters (gal) coating solids per liter (gal) coating.

$m_{\text{volatiles}}$ = 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:

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

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.7.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.7.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.7.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.7.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.7.c.ii.A above. The Permittee shall keep all records required by Section 2.2 A.7.g below. As part of the notification of compliance status required in Section 2.2 A.7.f 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.7.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.7.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.7.c.ii.D above) exceeds the applicable emission limit in Section 2.2 A.7.b above, and use no thinner and/or other additive, or cleaning material that contains organic HAP, determined according to Section 2.2 A.7.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.7.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.7.c.iii.A above is a deviation from the emission limitations that must be reported as specified in Section 2.2 A.7.f below.
- C. As part of each semiannual compliance report required by Section 2.2 A.7.h below, the Permittee shall identify the coating operation(s) for which you used the compliant material option. If there were no deviations from the applicable emission limit in Section 2.2 A.7.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.7.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.7.c.ii.A above.
- D. The Permittee shall maintain records as specified in Section 2.2 A.7.g below.

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

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

Notifications [40 CFR 63.3910]

- e. 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.f below.
- f. 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.7.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 a deviation, include the following information:
 - A. A description and statement of the cause of the deviation; and
 - B. If the Permittee failed to meet the applicable emission limit in Section 2.2 A.7.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.7.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.7.c.ii.D above.

Recordkeeping [40 CFR 63.3930]

- g. The Permittee shall collect and keep records of the data and information specified below. Failure to collect and keep these records is a deviation from the applicable standard.
 - 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.7.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 15A NCAC 2D .1111 if the above records are not maintained.

Reporting [40 CFR 63.3920]

- h. 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 deviations from the emission limitations in Section 2.2 A.7.b above that apply, a statement that there were no deviations from the emission limitations during the reporting period;
 - vi. If there was a deviation from the applicable organic HAP content requirements in Section 2.2 A.7.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.7.c.ii.D above) for each coating identified in Section 2.2 A.7.h.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.7.h.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 deviation.

SECTION 3 - GENERAL CONDITIONS (v2.22.1)

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

A. General Provisions [NCGS 143-215 and 15A NCAC 2Q .0508(i)(16)]

1. Terms not otherwise defined in this permit shall have the meaning assigned to such terms as defined in 15A NCAC 2D and 2Q.
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 2Q .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 and any information submitted in support of the application package. The permit and application shall be made available to an authorized representative of Department of Environment and Natural Resources upon request.

C. Severability Clause [15A NCAC 2Q .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 2Q .0507(e) and 2Q .0508(i)(16)]

Except as otherwise specified herein, two copies of all documents, reports, test data, monitoring data, notifications, request for renewal, and any other information required by this permit shall be submitted to the appropriate Regional Office. Refer to the Regional Office address on the cover page of this permit. For continuous emissions monitoring systems (CEMS) reports, continuous opacity monitoring systems (COMS) reports, quality assurance (QA)/quality control (QC) reports, acid rain CEM certification reports, and NOx budget CEM certification reports, one copy shall be sent to the appropriate Regional Office and one copy shall be sent to:

Supervisor, Stationary Source Compliance
North Carolina Division of Air Quality
1641 Mail Service Center
Raleigh, NC 27699-1641

E. **Duty to Comply** [15A NCAC 2Q .0508(i)(2)]

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. **Permit Modifications**

1. Administrative Permit Amendments [15A NCAC 2Q .0514]

The Permittee shall submit an application for an administrative permit amendment in accordance with 15A NCAC 2Q .0514.

2. Transfer in Ownership or Operation and Application Submittal Content [15A NCAC 2Q .0524 and 2Q .0505]

The Permittee shall submit an application for an ownership change in accordance with 15A NCAC 2Q.0524 and 2Q .0505.

3. Minor Permit Modifications [15A NCAC 2Q .0515]

The Permittee shall submit an application for a minor permit modification in accordance with 15A NCAC 2Q .0515.

4. Significant Permit Modifications [15A NCAC 2Q .0516]

The Permittee shall submit an application for a significant permit modification in accordance with 15A NCAC 2Q .0516.

5. Reopening for Cause [15A NCAC 2Q .0517]

The Permittee shall submit an application for reopening for cause in accordance with 15A NCAC 2Q .0517.

H. **Changes Not Requiring Permit Modifications**

1. Reporting Requirements.

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 2Q .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 2Q .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 2Q .0523(c)]
To the extent that emissions trading is allowed under 15A NCAC 2D, including subsequently adopted maximum achievable control technology standards, emissions trading shall be allowed without permit revision pursuant to 15A NCAC 2Q .0523(c).

I.A. Reporting Requirements for Excess Emissions and Permit Deviations

[15A NCAC 2D .0535(f) and 2Q .0508(f)(2)]

“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 2D; or by a permit condition; or that exceeds an emission limit established in a permit issued under 15A NCAC 2Q .0700.

(Note: Definitions of excess emissions under 2D .1110 and 2D .1111 shall apply where defined by rule.)

“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.

Excess Emissions

1. If a source is required to report excess emissions under NSPS (15A NCAC 2D .0524), NESHAPS (15A NCAC 2D .1110 or .1111), or the operating permit provides for periodic (e.g., quarterly) reporting of excess emissions, reporting shall be performed as prescribed therein.
2. If the source is not subject to NSPS (15A NCAC 2D .0524), NESHAPS (15A NCAC 2D .1110 or .1111), or these rules do NOT define "excess emissions," the Permittee shall report excess emissions in accordance with 15A NCAC 2D .0535 as follows:
 - a. Pursuant to 15A NCAC 2D .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 2D .0535(f)(3).

Permit Deviations

3. Pursuant to 15A NCAC 2Q .0508(f)(2), the Permittee shall report deviations from permit requirements (terms and conditions) as follows:
 - a. Notify the Regional Supervisor or Director of all other deviations from permit requirements not covered under 15A NCAC 2D .0535 quarterly. 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.B. Other Requirements under 15A NCAC 2D .0535

The Permittee shall comply with all other applicable requirements contained in 15A NCAC 2D .0535, including 15A NCAC 2D .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 2D .0535(c)(1) through (7).
2. 15A NCAC 2D .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. Emergency Provisions [40 CFR 70.6(g)]

The Permittee shall be subject to the following provisions with respect to emergencies:

1. An emergency means any situation arising from sudden and reasonably unforeseeable events beyond the control of the facility, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.
2. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions specified in 3. below are met.
3. The affirmative defense of emergency shall be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that include information as follows:
 - a. an emergency occurred and the Permittee can identify the cause(s) of the emergency;
 - b. the permitted facility was at the time being properly operated;
 - c. during the period of the emergency the Permittee took all reasonable steps to minimize levels of emissions that exceeded the standards or other requirements in the permit; and
 - d. the Permittee submitted notice of the emergency to the DAQ within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
4. In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
5. This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein.

K. **Permit Renewal** [15A NCAC 2Q .0508(e) and 2Q .0513(b)]

This permit is issued for a fixed term of five years for facilities subject to Title IV requirements and for a term not to exceed five years in the case of all other facilities. This permit shall expire at the end of its term. Permit expiration terminates the facility's right to operate unless a complete renewal application is submitted at least nine months before the date of permit expiration. If the Permittee or applicant has complied with 15A NCAC 2Q .0512(b)(1), this permit shall not expire until the renewal permit has been issued or denied. All terms and conditions of this permit shall remain in effect until the renewal permit has been issued or denied.

L. **Need to Halt or Reduce Activity Not a Defense** [15A NCAC 2Q .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 2Q .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 2Q .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 2Q .0508(f) and 2Q .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 2Q .0508(n)]

The Permittee shall submit to the DAQ and the EPA (Air and EPCRA Enforcement Branch, EPA, Region 4, 61 Forsyth Street, Atlanta, GA 30303) postmarked on or before March 1 a compliance certification (for the preceding calendar year) by a responsible official with all federally-enforceable terms and conditions in the permit, including emissions limitations, standards, or work practices. 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; and

4. the method(s) used for determining the compliance status of the source during the certification period.

Q. Certification by Responsible Official [15A NCAC 2Q .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 2Q .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 2Q .0523.
4. A permit shield does not extend to minor permit modifications made under 15A NCAC 2Q .0515.

S. Termination, Modification, and Revocation of the Permit [15A NCAC 2Q .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 2Q .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 2Q .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 2Q .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 2Q .0508(i)(10)]

1. The Permittee shall pay all fees in accordance with 15A NCAC 2Q .0200.
2. Payment of fees may be by check or money order made payable to the N.C. Department of Environment and Natural Resources. 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 2Q .0519.

X. Annual Emission Inventory Requirements [15A NCAC 2Q .0207]

The Permittee shall report by **June 30 of each year** the actual emissions of each air pollutant listed in 15A NCAC 2Q .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 2Q .0107 and 2Q. 0508(i)(9)]

Whenever the Permittee submits information under a claim of confidentiality pursuant to 15A NCAC 2Q .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 2Q .0107.

Z. Construction and Operation Permits [15A NCAC 2Q .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 2Q .0100 and .0300.

AA. Standard Application Form and Required Information [15A NCAC 2Q .0505 and .0507]

The Permittee shall submit applications and required information in accordance with the provisions of 15A NCAC 2Q .0505 and .0507.

BB. Financial Responsibility and Compliance History [15A NCAC 2Q .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 2Q .0501(e)]

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 2Q .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. Prevention of Accidental Releases General Duty Clause - Section 112(r)(1) - FEDERALLY-ENFORCEABLE ONLY

Although a risk management plan may not be required, if the Permittee produces, processes, handles, or stores any amount of a listed hazardous substance, the Permittee has a general duty to take such steps as are necessary to prevent the accidental release of such substance and to minimize the consequences of any release.

FF. Title IV Allowances [15A NCAC 2Q .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 2D .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 2D .0300.

HH. Registration of Air Pollution Sources [15A NCAC 2D .0200]

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 2D .0202(b).

II. Ambient Air Quality Standards [15A NCAC 2D .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 2D .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 2Q .0508(i)(16)]

If emissions testing is required by this permit or the DAQ or if the Permittee submits emissions testing to the DAQ in support of a permit application or to demonstrate compliance, the Permittee shall perform such testing in accordance with 15A NCAC 2D .2600 and follow the procedures outlined below:

1. The Permittee shall submit a completed Protocol Submittal Form to the DAQ Regional Supervisor at least 45 days prior to the scheduled test date. A copy of the Protocol Submittal Form may be obtained from the Regional Supervisor.
2. The Permittee shall notify the Regional Supervisor of the specific test dates at least 15 days prior to testing in order to afford the DAQ the opportunity to have an observer on-site during the sampling program.
3. During all sampling periods, the Permittee shall operate the emission source(s) under maximum normal operating conditions or alternative operating conditions as deemed appropriate by the Regional Supervisor or his delegate.
4. The Permittee shall submit **two** copies of the test report to the DAQ. The test report shall contain at a minimum the following information:
 - a. a description of the training and air testing experience of the person directing the test;
 - b. a certification of the test results by sampling team leader and facility representative;
 - c. a summary of emissions results and text detailing the objectives of the testing program, the applicable state and federal regulations, and conclusions about the testing and compliance status of the emission source(s);
 - d. a detailed description of the tested emission source(s) and sampling location(s) process flow diagrams, engineering drawings, and sampling location schematics should be included as necessary;
 - e. all field, analytical, and calibration data necessary to verify that the testing was performed as specified in the applicable test methods;
 - f. example calculations for at least one test run using equations in the applicable test methods and all test results including intermediate parameter calculations; and
 - g. documentation of facility operating conditions during all testing periods and an explanation relating these operating conditions to maximum normal operation. If necessary, provide historical process data to verify maximum normal operation.
5. The testing requirement(s) shall be considered satisfied only upon written approval of the test results by the DAQ.
6. The DAQ will review emission test results with respect exclusively to the specified testing objectives as proposed by the Permittee and approved by the DAQ.

KK. Reopening for Cause [15A NCAC 2Q .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 2Q .0513(c).

3. Except for the state-enforceable only portion of the permit, the procedures set out in 15A NCAC 2Q .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 2Q .0300 shall be followed. The proceedings shall affect only those parts of the permit for which cause to reopen exists.
4. The Director shall notify the Permittee at least 60 days in advance of the date that the permit is to be reopened, except in cases of imminent threat to public health or safety the notification period may be less than 60 days.
5. Within 90 days, or 180 days if the EPA extends the response period, after receiving notification from the EPA that a permit needs to be terminated, modified, or revoked and reissued, the Director shall send to the EPA a proposed determination of termination, modification, or revocation and reissuance, as appropriate.

LL. Reporting Requirements for Non-Operating Equipment [15A NCAC 2Q .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. During operation the monitoring recordkeeping and reporting requirements as prescribed by the permit shall be implemented within the monitoring period.

MM. Fugitive Dust Control Requirement [15A NCAC 2D .0540] - STATE ENFORCEABLE ONLY

As required by 15A NCAC 2D .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 2D .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).

1. For modifications made pursuant to 15A NCAC 2Q .0501(c)(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 2Q .0501(d)(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 2Q .0523(a)(1)(C), the Permittee shall notify the Director and EPA (EPA - Air Planning Branch, 61 Forsyth St., Atlanta, GA 30303) in writing at least seven days before the change is made. The written notification shall include:
 - a. a description of the change at the facility;
 - b. the date on which the change will occur;
 - c. any change in emissions; and
 - d. any permit term or condition that is no longer applicable as a result of the change.

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.

ATTACHMENT

List of Acronyms

AOS	Alternate Operating Scenario
BACT	Best Available Control Technology
Btu	British thermal unit
CEM	Continuous Emission Monitor
CFR	Code of Federal Regulations
CAA	Clean Air Act
DAQ	Division of Air Quality
DENR	Department of Environment and Natural Resources
EMC	Environmental Management Commission
EPA	Environmental Protection Agency
FR	Federal Register
GACT	Generally Available Control Technology
HAP	Hazardous Air Pollutant
MACT	Maximum Achievable Control Technology
NCAC	North Carolina Administrative Code
NCGS	North Carolina General Statutes
NESHAPS	National Emission Standards for Hazardous Pollutants
NO_x	Nitrogen Oxides
NSPS	New Source Performance Standard
OAH	Office of Administrative Hearings
PM	Particulate Matter
PM₁₀	Particulate Matter with Nominal Aerodynamic Diameter of 10 Micrometers or Less
RACT	Reasonably Available Control Technology
POS	Primary Operating Scenario
PSD	Prevention of Significant Deterioration
SIC	Standard Industrial Classification
SIP	State Implementation Plan
SO₂	Sulfur Dioxide
tpy	Tons Per Year
VOC	Volatile Organic Compound