North Carolina Department of Environment and Natural Resources
Division of Air Quality

Beverly Eaves Perdue
Governor

Sheila C. Holman
Director

Dee Freeman
Secretary

date, 2011

Mr. Terry McNew
Executive Vice President
US Marine Navassa
350 Sea Ray Drive
Merritt Island, Florida 32953

Dear Mr. McNew:

SUBJECT: Air Quality Permit No. 08882T04
Facility ID: 1000102
US Marine Navassa
Navassa, North Carolina
Brunswick County
Fee Class: Title V

In accordance with your completed Air Quality Permit Application for renewal of your Title V permit received August 25, 2011, we are forwarding herewith Air Quality Permit No. 08882T04 to US Marine Navassa, 100 Quality Drive, Navassa, Brunswick County, North Carolina, 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 as an "ATTACHMENT." 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
217 West Jones St., Raleigh, North Carolina 27603
Phone: 919-707-8405 / FAX 919-715-0717 / Internet: www.ncair.org

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 the 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, 2011 to date, 2016, 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., at (919) 707-8738 or Mark.Cuilla@ncdenr.gov.

Sincerely yours,

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

Enclosure

c: Gregg Worley, EPA Region 4 (with review)
Wilmington Regional Office
Central Files

ATTACHMENT to Cover Letter to Air Quality Permit Number 08882T04

Table of Changes

Pages	Section	Description of Changes
Attachment	Insignificant activities	-added shell asterisk language
Cover	-	-amended all dates and permit revision numbers -corrected facility mailing address
TOC	-	-removed all references to Part II (here and throughout permit)
All	Header	-amended permit revision number
4	2.1 A.1.b 2.1 A.1.c	-corrected testing rule cross reference -clarified when monitoring/recordkeeping is required (based on facility operation)
5	2.1 A.2.b 2.1 A.2.c 2.1 A.2.e	-corrected testing rule cross reference -clarified when monitoring/recordkeeping is required (based on facility operation) -updated shell language
6	2.1 B.1.b	-corrected testing rule cross reference
7	2.1 B.2.b 2.1 B.2.c	-corrected testing rule cross reference -clarified when monitoring/recordkeeping is required (based on facility operation)
18	2.1 C.2.b	-corrected testing rule cross reference
19	2.1 C.2.c	-clarified when monitoring/recordkeeping is required (based on facility operation)
20	2.2 A.2.d	-updated VOC PSD avoidance condition reporting language
21	2.2 A.4	-added “State-enforceable only” clarification
22	2.2 A.5	-added “State-enforceable only” clarification
23	2.2 A.6	-added “State-enforceable only” clarification
23-34	General Conditions	-updated shell conditions (v3.5)
35	List of Acronyms	-added acronyms for CAIR, NAA, and RACT

ATTACHMENT to Cover Letter to Air Quality Permit Number 08882T04

Insignificant Activities under 15A NCAC 2Q .0503(8)

Emission Source ID No.	Emission Source Description
I-ES-CB-1	One cut-off booth for laminated parts
I-ES-A1	Assembly building

1. Because an activity is insignificant does not mean that the activity is exempted from an applicable requirement or that the owner or operator of the source is exempted from demonstrating compliance with any applicable requirement.
2. When applicable, emissions from stationary source activities identified above shall be included in determining compliance with the permit requirements for toxic air pollutants under 15A NCAC 2D .1100 “Control of Toxic Air Pollutants”, or 15A NCAC 2Q .0711, “Emission Rates Requiring a Permit.”

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
08882T04	08882T03	date, 2011	date, 2016

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: **US Marine Navassa**

Facility ID: **1000102**

Facility Site Location: **100 Quality Drive**
City, County, State, Zip: **Navassa, Brunswick County, North Carolina 28451**
Mailing Address: **350 Sea Ray Drive**
City, State, Zip: **Merritt Island, Florida 32953**

Application Number: **1000102.11A**
Complete Application Date: **August 25, 2011**

Primary SIC Code: **3732**

Division of Air Quality, Regional Office Address: **Wilmington Regional Office**
127 Cardinal Drive Extension
Wilmington, North Carolina 28405

Permit issued this the xxxxxx day of xxxxxxx, 2011

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

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

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
ES-PB-1	One paint spray booth with dry-filters	NA	NA
ES-V-1	One varnish booth with dry-filters	NA	NA
ES-L-1 **(MACT, Subpart VVVV)**	Laminating and gel coating operations (Building 3)	NA	NA
ES-WW-1	One woodworking operation	CD-1	One bagfilter (1,725 square feet of filter area)

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. One paint spray booth with dry-filters (ID No. ES-PB-1)
One varnish booth with dry-filters (ID No. ES-V-1)

The following provides a summary of limits and/or standards for the emission source(s) described above.

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	$E = 4.10 \times P^{0.67}$ Where: E = allowable emission rate in pounds per hour P = process weight in tons per hour	15A NCAC 2D .0515
Visible emissions	20 percent	15A NCAC 2D .0521
Odors	**State-enforceable only** **See Section 2.2 A.1**	15A NCAC 2D .1806
Volatile organic compounds	**See Section 2.2 A.2**	15A NCAC 2Q .0317 (PSD Avoidance)
Volatile organic compounds	**See Section 2.2 A.3**	15A NCAC 2D .0958

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

a. Emissions of particulate matter from these sources **(ID Nos. ES-PB-1 and ES-V-1)** shall not exceed an allowable emission rate as calculated by the following equation:

$E = 4.10 \times P^{0.67}$ 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 2Q .0508(f)]

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

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

c. Particulate matter emissions from these sources **(ID Nos. ES-PB-1 and ES-V-1)** shall be controlled by dry-filters 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 weekly inspections of the filters noting their condition while in operation. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if the filters are not inspected and maintained.

d. The results of inspection and maintenance of the dry-filters 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 dry-filters; 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 any control device within 30 days of a written request by the DAQ.

f. 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.

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

a. Visible emissions from these sources **(ID Nos. ES-PB-1 and ES-V-1)** 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 2Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above any 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 week while in operation the Permittee shall observe the emission points of these sources **(ID Nos. ES-PB-1 and ES-V-1)** for any visible emissions above normal. The weekly observation must be made for each week of the calendar year period while in operation 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 .2610 (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 in noncompliance with 15A NCAC 2D .0521.

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

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

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

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

f. 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 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. Laminating and gel coating operations (Building 3; ID No. ES-L-1)

The following provides a summary of limits and/or standards for the emission source(s) described above.

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	$E = 4.10 \times P^{0.67}$ Where: E = allowable emission rate in pounds per hour P = process weight in tons per hour	15A NCAC 2D .0515
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Hazardous air pollutants	National Emission Standards for Hazardous Air Pollutants for Boat Manufacturing	15A NCAC 2D .1111 (40 CFR 63, Subpart VVVV)
Odors	**State-enforceable only** **See Section 2.2 A.1**	15A NCAC 2D .1806
Volatile organic compounds	**See Section 2.2 A.2**	15A NCAC 2Q .0317 (PSD Avoidance)
Volatile organic compounds	**See Section 2.2 A.3**	15A NCAC 2D .0958
Toxic air pollutants	**State-enforceable only** **See Section 2.2 A.4**	15A NCAC 2D .1100
Toxic air pollutants	**State-enforceable only** **See Section 2.2 A.5**	15A NCAC 2Q .0711
Toxic air pollutants	**State-enforceable only** **See Section 2.2 A.6**	15A NCAC 2Q .0705

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

a. Emissions of particulate matter from this source **(ID No. ES-L-1)** shall not exceed an allowable emission rate as calculated by the following equation:

$E = 4.10 \times P^{0.67}$ 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 2Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 B.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 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 formula 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 this source **(ID No. ES-L-1)**.

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

a. Visible emissions from this source **(ID No. ES-L-1)** 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 2Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above any 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 every six-months while on operation, the Permittee shall observe the emission points of this source **(ID No. ES-L-1)** for any visible emissions above normal. The six-month observation must be made once for each six-month period of the calendar year period while in operation to ensure compliance with this requirement. If visible emissions from this source 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 requirement below; or
   ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .2610 (Method 9) for 12 minutes is below the applicable 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 logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
   i. the date and time of each recorded action;
   ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
   iii. the results of any corrective actions performed.

   The Permittee shall be deemed in noncompliance with 15A NCAC 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 .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY

For all sources located at this facility, the Permittee shall comply with all applicable provisions contained in Environmental Management Commission Standard 15A NCAC 2D .1111, "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR Part 63, Subpart VVVV, "National Emission Standards for Hazardous Air Pollutants for Boat Manufacturing".

Emission Limits

a. 40 CFR 63.5698 Open Molding Resin and Gel Coat Operations
   i. Excluding those processes listed in Section 2.1.B.3.a.iv below, the Permittee shall limit organic HAP emissions from any of the following open molding operations to the limit specified in Section 2.1 B.3.a.ii below:
      A. Production resin.
      B. Pigmented gel coat.
      C. Clear gel coat.
      D. Tooling resin.
      E. Tooling gel coat.
   ii. The Permittee shall limit organic HAP emissions from affected open molding operations to the limit specified by the following equation, based on a 12-month rolling average.

$$HAP\ Limit = [46(M_R) + 159(M_{PG}) + 291(M_{CG}) + 54(M_{TR}) + 214(M_{TG})]$$

Where:
HAP Limit = total allowable organic HAP that can be emitted from the open molding operations, kilograms.
M_R = mass of production resin used in the past 12 months, excluding any materials exempt under Section 2.1 B.3.a.iv below, megagrams.
M_{PG} = mass of pigmented gel coat used in the past 12 months, excluding any materials exempt under Section 2.1 B.3.a.iv below, megagrams.
M_{CG} = mass of clear gel coat used in the past 12 months, excluding any materials exempt under Section 2.1 B.3.a.iv below, megagrams.
M_{TR} = mass of tooling resin used in the past 12 months, excluding any materials exempt under Section 2.1 B.3.a.iv below, megagrams.
M_{TG} = mass of tooling gel coat used in the past 12 months, excluding any materials exempt under Section 2.1 B.3.a.iv below, megagrams.

   iii. The open molding emission limit is the same for both new and existing sources.
   iv. The following materials are exempt from the open molding emission limit specified in Section 2.1 B.3.a.ii above.
      A. Production resins (including skin coat resins) that shall meet specifications for use in military vessels or shall be approved by the U.S. Coast Guard for use in the construction of lifeboats, rescue boats, and other life-saving appliances approved under 46 CFR Subchapter Q or the construction of small passenger vessels regulated by 46 CFR Subchapter T. Production resins for which this exemption is used shall be applied with nonatomizing (non-spray) resin application equipment. A record shall be kept of the resins, which are being used for this exemption.
      B. Pigmented, clear, and tooling gel coat used for part or mold repair and touch up. The total gel coat materials included in this exemption shall not exceed 1 percent by weight of all gel coat used at the facility on a 12-month rolling-average basis. A record shall be kept of the amount of gel coats, which are being used for this exemption and copies of calculations showing that the exempt amount does not exceed 1 percent of all gel coat used.

C. Pure, 100 percent vinylester resin used for skin coats. This exemption does not apply to blends of vinylester and polyester resins used for skin coats. The total resin materials included in the exemption cannot exceed 5 percent by weight of all resin used at the facility on a 12-month rolling-average basis. A record shall be kept of the amount of 100 percent vinylester skin coat resin used per month that is eligible for this exemption and copies of calculations showing that the exempt amount does not exceed 5 percent of all resin used.

Monitoring and Work Practice Standards

b. 40 CFR 63.5731 Standards For Resin And Gel Coat Mixing Operations
   i. Except during periods when material is being manually added to or removed from a container, or when mixing or pumping equipment is being placed in or removed from a container, the Permittee shall cover all resin and gel coat mixing containers with a capacity equal to or greater than 208 liters, including those used for on-site mixing of putties and polyputties.
   ii. To demonstrate compliance with the work practice standard in Section 2.1 B.3.b.i above, the Permittee shall visually inspect all mixing containers subject to this standard at least once per month. The inspection should ensure that all containers have covers with no visible gaps between the cover and the container, or between the cover and equipment passing through the cover.
   iii. The Permittee shall keep records of which mixing containers are subject to this standard and the results of the inspections, including a description of any repairs or corrective actions taken.

   The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1111 if the above requirements are not met.

c. 40 CFR 63.5734 Standards For Resin And Gel Coat Application Equipment Cleaning Operations
   i. For routine flushing of resin and gel coat application equipment (e.g., spray guns, flowcoaters, brushes, rollers, and squeegees), the Permittee shall use a cleaning solvent that contains no more than 5 percent organic HAP by weight. For removing cured resin or gel coat from application equipment, no organic HAP content limit applies.
   ii. The Permittee shall store organic HAP-containing solvents used for removing cured resin or gel coat in containers with covers. The covers shall have no visible gaps and shall be in place at all times, except when equipment to be cleaned is placed in or removed from the container. For containers with a capacity greater than 7.6 liters, the distance from the top of the container to the solvent surface shall be no less than 0.75 times the diameter of the container. Containers that store organic HAP-containing solvents used for removing cured resin or gel coat are exempt from the requirements of 40 CFR Part 63, Subpart T (National Emission Standards for Halogenated Solvent Cleaning). Cured resin or gel coat means resin or gel coat that has changed from a liquid to a solid.

   The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1111 if the above requirements are not met.

d. 40 CFR 63.5701 Complying With The Open Molding Emission Limit

   The Permittee shall use one or more of the options listed below to meet the emission limit in 40 CFR 63.5698 for the resins and gel coats used in open molding operations at the facility.
   i. MACT model point value averaging (emissions averaging) option.
      A. Demonstrate that emissions from the open molding resin and gel coat operations that are averaged meet the emission limit in 40 CFR 63.5698 using the procedures described in 40 CFR 63.5710. Compliance with this option is based on a 12-month rolling average.
      B. Those operations and materials not included in the emissions average shall comply with Section 2.1 B.3.d.ii below.

ii. Compliant materials option. Demonstrate compliance by using resins and gel coats that meet the organic HAP content requirements in the following table. Compliance with this option is based on a 12-month rolling average.

For this operation	And this application method	You shall not exceed this weighted-average organic HAP content (weight percent) requirement
1. Production resin operations	Atomized (spray)	28 percent
2. Production resin operations	Nonatomized (nonspray)	35 percent
3. Pigmented gel coat operations	Any method	33 percent
4. Clear gel coat operations	Any method	48 percent
5. Tooling resin operations	Atomized (spray)	30 percent
6. Tooling resin operations	Nonatomized (nonspray)	39 percent
7. Tooling gel coat operations	Any method	40 percent

The Permittee will be deemed in noncompliance with 15A NCAC 2D .1111 of it fails to demonstrate compliance with the MACT standard using one or more of theses methods.

e. 40 CFR 63.5704 General Requirements For Complying With The Open Molding Emission Limit.
   i. Emissions averaging option. For those open molding operations and materials complying using the emissions averaging option, compliance shall be demonstrated by performing the following steps:
      A. Use the methods specified in 40 CFR 63.5758 to determine the organic HAP content of resins and gel coats.
      B. Complete the calculations described in Section 2.1 B.3.g below to show that the organic HAP emissions do not exceed the limit specified in Section 2.1 B.3.a.iii above.
      C. Keep the following records for each resin and gel coat.
         1. Hazardous air pollutant content.
         2. Amount of material used per month.
         3. Application method used for production resin and tooling resin. This record is not required if all production resins and tooling resins are applied with nonatomized technology.
         4. Calculations performed to demonstrate compliance based on MACT model point values, as described in Section 2.1 B.3.g below.
      D. Prepare and submit the implementation plan described in Section 2.1 B.3.f below to the Division and keep it up to date.
      E. Submit semiannual compliance reports to the Division as specified in Section 2.1 B.3.o below.
   ii. Compliant materials option. For each open molding operation complying using the compliant materials option, compliance shall be demonstrated by performing the following steps:
      A. Use the methods specified in 40 CFR 63.5758 to determine the organic HAP content of resins and gel coats.

B. Complete the calculations described in Section 2.1 A.3.h below to show that the weighted-average organic HAP content does not exceed the limit specified in Section 2.1 B.3.d.ii above.
C. Keep the following records for each resin and gel coat:
1. Hazardous air pollutant content;
2. Application method for production resin and tooling resin. This record is not required if all production resins and tooling resins are applied with nonatomized technology;
3. Amount of material used per month. This record is not required for an operation if all materials used for that operation comply with the organic HAP content requirements; and
4. Calculations performed, if required, to demonstrate compliance based on weighted-average organic HAP content as described in Section 2.1 B.3.h below.
D. Submit semiannual compliance reports to the Division as specified in Section 2.1 B.3.o below.

f. 40 CFR 63.5707 Implementation Plan For Open Molding Operations
i. An implementation plan shall be prepared for all open molding operations that show compliance by using the emissions averaging option described in Section 2.1 B.3.e.i above.
ii. The implementation plan shall describe the steps that will be taken to bring the open molding operations covered by this Subpart into compliance. For each operation included in the emissions average, the Permittee's implementation plan shall include the following elements:
A. A description of each operation included in the average.
B. The maximum organic HAP content of the materials used, the application method used (if any atomized resin application methods are used in the average), and any other methods used to control emissions.
C. Calculations showing that the operations covered by the plan will comply with the open molding emission limit specified in Section 2.1 B.3.a.ii above.
iii. The Permittee shall submit the implementation plan to the Division with the notification of compliance status specified in 40 CFR 63.5761.
iv. The Permittee shall keep the implementation plan on site and provide it to the Division when asked.
v. If the Permittee revises the implementation plan, the revised plan shall be submitted with the next semiannual compliance report specified in Section 2.1 B.3.o below.

g. 40 CFR 63.5710 Demonstrating Compliance Using Emissions Averaging
i. Compliance using the emissions averaging option is demonstrated on a 12-month rolling-average basis and is determined at the end of every month (12 times per year). The first 12-month rolling-average period begins on **August 23, 2004**.
ii. At the end of the twelfth month after the Permittee's compliance date and at the end of every subsequent month, use the following equation to demonstrate that the organic HAP emissions from those operations included in the average do not exceed the emission limit in Section 2.1 B.3.a.ii above calculated for the same 12-month period. (Include terms in the equation in Section 2.1 B.3.a.ii above and the following equation for only those operations and materials included in the average.)

$$HAP\ emissions = [(PV_R)(M_R) + (PV_{PG})(M_{PG}) + (PV_{CG})(M_{CG}) + (PV_{TR})(M_{TR}) + (PV_{TG})(M_{TG})]$$

Where:
HAP emissions = Organic HAP emissions calculated using MACT model point values for each operation included in the average, kilograms.
PV_R = Weighted-average MACT model point value for production resin used in the past 12 months, kilograms per megagram.

M_R = Mass of production resin used in the past 12 months, megagrams.
PV_{PG} = Weighted-average MACT model point value for pigmented gel coat used in the past 12 months, kilograms per megagram.
M_{PG} = Mass of pigmented gel coat used in the past 12 months, megagrams.
PV_{CG} = Weighted-average MACT model point value for clear gel coat used in the past 12 months, kilograms per megagram.
M_{CG} = Mass of clear gel coat used in the past 12 months, megagrams.
PV_{TR} = Weighted-average MACT model point value for tooling resin used in the past 12 months, kilograms per megagram.
M_{TR} = Mass of tooling resin used in the past 12 months, megagrams.
PV_{TG} = Weighted-average MACT model point value for tooling gel coat used in the past 12 months, kilograms per megagram.
M_{TG} = Mass of tooling gel coat used in the past 12 months, megagrams.

iii. At the end of every month, use the following equation to compute the weighted-average MACT model point value for each open molding resin and gel coat operation included in the average.

$$PV_{OP} = \frac{\sum_{i=1}^{n} M_i PV_i}{\sum_{i=1}^{n} M_i}$$

Where:
PV_{OP} = weighted-average MACT model point value for each open molding operation (PV_R, PV_{PG}, PV_{CG}, PV_{TR}, and PV_{TG}) included in the average, kilograms of HAP per megagram of material applied.
M_i = mass of resin or gel coat i used within an operation in the past 12 months, megagrams.
n = number of different open molding resins and gel coats used within an operation in the past 12 months.
PV_i = the MACT model point value for resin or gel coat i used within an operation in the past 12 months, kilograms of HAP per megagram of material applied.

iv. The equations in the following table shall be used to calculate the MACT model point value (PV_i) for each resin and gel coat used in each operation in the past 12 months.

1. Production resin, tooling resin.	a. Atomized b. Atomized, plus vacuum bagging with roll-out. c. Atomized, plus vacuum bagging without roll-out. d. Nonatomized e. Nonatomized, plus vacuum bagging with roll-out. f. Nonatomized, plus vacuum bagging without roll-out.	$0.014 \times (\text{Resin HAP\%})^{2.425}$ $0.01185 \times (\text{Resin HAP\%})^{2.425}$ $0.00945 \times (\text{Resin HAP\%})^{2.425}$ $0.014 \times (\text{Resin HAP\%})^{2.275}$ $0.0110 \times (\text{Resin HAP\%})^{2.275}$ $0.0076 \times (\text{Resin HAP\%})^{2.275}$
2. Pigmented gel coat, clear gel coat, tooling gel coat.	All methods….	$0.445 \times (\text{Gel coat HAP\%})^{1.675}$

Equations calculate MACT model point value in kilograms of organic HAP per megagrams of resin or gel coat applied. The equations for vacuum bagging with roll-out are applicable when a facility rolls out the applied resin and fabric prior to applying the vacuum bagging materials. The equations for vacuum bagging without roll-out are applicable when a facility applies the vacuum bagging materials immediately after resin application without rolling out the resin and fabric. HAP% = organic HAP content as supplied, expressed as a weight-percent value between 0 and 100 percent.

v. If the organic HAP emissions, as calculated in Section 2.1 B.3.g.ii above, are less than the organic HAP limit calculated in Section 2.1 B.3.a.ii above for the same 12-month period, then the Permittee is in compliance with the emission limit for those operations and materials included in the average.

h. 40 CFR 63.5713 Demonstrating Compliance Using Compliant Materials.

i. Compliance using the organic HAP content requirements listed in Section 2.1 A.3.d.ii above based on a 12-month rolling average that is calculated at the end of every month. The first 12-month rolling-average period begins on **August 23, 2004**. If the facility is using filled material (production resin or tooling resin), the Permittee shall comply according to the procedure described in Section 2.1 B.3.i below.

ii. At the end of the twelfth month after the Permittee's compliance date and at the end of every subsequent month, review the organic HAP contents of the resins and gel coats used in the past 12 months in each operation. If all resins and gel coats used in an operation have organic HAP contents no greater than the applicable organic HAP content limits in the table above then the Permittee is in compliance with the emission limit specified in Section 2.1 B.3.a.ii above for that 12-month period for that operation. In addition, the Permittee does not need to complete the weighted- average organic HAP content calculation contained in Section 2.1 B.3.h.iii below for that operation.

iii. At the end of every month, the Permittee shall use the following equation to calculate the weighted-average organic HAP content for all resins and gel coats used in each operation in the past 12 months.

$$\textit{Weighted-Average HAP Content}\ (\%) = \frac{\sum_{i=1}^{n} M_i HAP_i}{\sum_{i=1}^{n} M_i}$$

Where:
M_i = mass of open molding resin or gel coat i used in the past 12 months in an operation, megagrams.
HAP_i = Organic HAP content, by weight percent, of open molding resin or gel coat i used in the past 12 months in an operation. Use the methods in 40 CFR 63.5758 to determine organic HAP content.
n = number of different open molding resins or gel coats used in the past 12 months in an operation.

iv. If the weighted-average organic HAP content does not exceed the applicable organic HAP content limit specified in the table above, then the Permittee is in compliance with the emission limit specified in Section 2.1 B.3.a.ii above.

i. 40 CFR 63.5714 Demonstrating Compliance if Using Filled Resins

i. If the facility is using a filled production resin or filled tooling resin, the Permittee shall demonstrate compliance for the filled material on an as-applied basis using the following equation:

$$PV_F = PV_U \frac{100 - \%Filler}{100}$$

Where:
PV_F = The as-applied MACT model point value for a filled production resin or tooling resin, kilograms organic HAP per megagram of filled material.
PV_u = The MACT model point value for the neat (unfilled) resin, before filler is added, as calculated using the formulas in Section 2.1 B.3.g.iv above.
% Filler = The weight-percent of filler in the as applied filled resin system.

ii. If the filled resin is used as a production resin and the value of PV_F calculated by the equation in Section 2.1 B.3.i.i above does not exceed 46 kilograms of organic HAP per megagram of filled resin applied, then the filled resin is in compliance.
iii. If the filled resin is used as a tooling resin and the value of PV_F calculated by the equation in Section 2.1 B.3.i.i above does not exceed 54 kilograms of organic HAP per megagram of filled resin applied, then the filled resin is in compliance.
iv. If the Permittee is including a filled resin in the emissions averaging procedure described in Section 2.1 B.3.g above, then use the value of PV_F calculated using the equation in Section 2.1 B.3.i.i above for the value of the equation in Section 2.1 B.3.g.iii above.

j. 40 CFR 63.5737 Demonstrating Compliance With The Resin And Gel Coat Application Equipment Cleaning Standards.
i. The Permittee shall determine and record the organic HAP content of the cleaning solvents subject to the standards specified in Section 2.1 B.3.c above using the methods specified in 40 CFR 63.5758.
ii. If the facility recycles cleaning solvents on site, the Permittee may use documentation from the solvent manufacturer or supplier or a measurement of the organic HAP content of the cleaning solvent as originally obtained from the solvent supplier for demonstrating compliance, subject to the conditions in 40 CFR 63.5758 for demonstrating compliance with organic HAP content limits.
iii. At least once per month, the Permittee shall visually inspect any containers holding organic HAP-containing solvents used for removing cured resin and gel coat to ensure that the containers have covers with no visible gaps. The Permittee shall keep records of the monthly inspections and any repairs made to the covers.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1111 if it does not demonstrate compliance as provided above.

k. 40 CFR 63.5740 Demonstrating Compliance with Carpet and Fabric Adhesive Operations.
i. The Permittee shall use carpet and fabric adhesives that contain no more than 5 percent organic HAP by weight.
ii. To demonstrate compliance with the emission limit in Section 2.1 B.3.k.i above, the Permittee shall determine and record the organic HAP content of the carpet and fabric adhesives using the methods in 40 CFR 63.5758.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1111 if it does not demonstrate compliance as provided above

l. 40 CFR 63.5758 Determine The Organic HAP Content Of Materials
i. The Permittee shall determine the organic HAP content for each material used. To determine the organic HAP content for each material used in the open molding resin and gel coat operations, or carpet and fabric adhesive operations, the Permittee shall use one of the following options.

A. Method 311 (Appendix A to 40 CFR Part 63). The Permittee may use Method 311 for determining the mass fraction of organic HAP. The Permittee shall use the following procedures when determining organic HAP content by Method 311.
   1. Include in the organic HAP total 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 need to include it in the organic HAP total. Express the mass fraction of each organic HAP the Permittee measures as a value truncated to four places after the decimal point (for example, 0.1234).
   2. Calculate the total organic HAP content in the test material by adding up the individual organic HAP contents and truncating the result to three places after the decimal point (for example, 0.123).

B. Method 24 (Appendix A to 40 CFR Part 63). The Permittee may use Method 24 to determine the mass fraction of non-aqueous volatile matter of aluminum coatings and use that value as a substitute for mass fraction of organic HAP.

C. ASTM D1259-85 (Standard Test Method for Nonvolatile Content of Resins). The Permittee may use ASTM D1259-85 (available for purchase from ASTM) to measure the mass fraction of volatile matter of resins and gel coats for open molding operations and use that value as a substitute for mass fraction of organic HAP.

D. Alternative method. The Permittee may use an alternative test method for determining mass fraction of organic HAP if the Permittee obtains prior approval by EPA Region IV. The Permittee shall follow the procedure in 40 CFR 63.7(f) to submit an alternative test method for approval.

E. 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 2.1 B.3.l.i.A through D above, such as manufacturer's formulation data, according to the following:
   1. Include in the organic HAP total 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 include it in the organic HAP total.
   2. If the organic HAP content is provided by the material supplier or manufacturer as a range, then the Permittee shall use the upper limit of the range for determining compliance. If a separate measurement of the total organic HAP content using the methods specified in Section 2.1 B.3.l.i.A through D above exceeds the upper limit of the range of the total organic HAP content provided by the material supplier or manufacturer, then the Permittee shall use the measured organic HAP content to determine compliance.
      (a) If the organic HAP content is provided as a single value, the Permittee may assume the value is a manufacturing target value and actual organic HAP content may vary from the target value. If a separate measurement of the total organic HAP content using the methods specified in Section 2.1 B.3.l.i.A through D above is less than 2 percentage points higher than the value for total organic HAP content provided by the material supplier or manufacturer, then the Permittee may use the provided value to demonstrate compliance. If the measured total organic HAP content exceeds the provided value by 2 percentage points or more, then the Permittee shall use the measured organic HAP content to determine compliance.

F. Solvent blends. Solvent blends may be listed as single components for some regulated materials in certifications provided by manufacturers or suppliers. Solvent blends may contain organic HAP, which shall be counted toward the total organic HAP content of the materials. When detailed organic HAP content data for solvent blends are not available, the Permittee may use the values for organic HAP content that are listed in Table 5 or 6 as contained in 40 CFR 63 subpart VVVV. The Permittee may use Table 6 as contained in 40 CFR 63 Subpart VVVV, only if the solvent blends in the materials the Permittee use do not match any of the solvent blends in Table 5 as contained in 40 CFR 63 Subpart VVVV, and the Permittee know only whether the blend is either aliphatic or aromatic. However, if test results indicate higher values than those listed in Table 5 or 6 as contained in 40 CFR 63 Subpart VVVV, then the test results shall be used for determining compliance.

Recordkeeping and Notifications

m. 40 CFR 63.5767 Records
The Permittee shall keep the following records in addition to records specified in individual conditions of this Subpart:
i. a copy of each notification and report submitted to comply with this Subpart;
ii. all documentation supporting any notification or report submitted;
iii. if the facility is not controlled by an add-on control device (i.e., the Permittee is complying with organic HAP content limits, application equipment requirements, or MACT model point value averaging provisions), the following records:
A. The total amounts of open molding production resin, pigmented gel coat, clear gel coat, tooling resin, and tooling gel coat used per month and the weighted-average organic HAP contents for each operation, expressed as weight-percent. For open molding production resin and tooling resin, the Permittee shall also record the amounts of each applied by atomized and nonatomized methods.
B. The total amount of each aluminum coating used per month (including primers, top coats, clear coats, thinners, and activators) and the weighted-average organic HAP content as determined in 40 CFR 63.5752.
C. The total amount of each aluminum wipedown solvent used per month and the weighted-average organic HAP content as determined in 40 CFR 63.5749.
The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1111 if the above records are not maintained.

n. 40 CFR 63.5761 Notifications. The Permittee shall submit all of the notifications in Table 7 as contained in 40 CFR 63 Subpart VVVV, that apply to the Permittee by the dates in the table. The notifications are described more fully in 40 CFR Part 63, Subpart A, General Provisions, referenced in Table 8 as contained in 40 CFR 63 Subpart VVVV. If the Permittee changes any information submitted in any notification, the Permittee shall submit the changes in writing to the Division within 15 calendar days after the change. The Permittee may switch between the compliance options (Emissions Averaging and Compliant Materials) in 40 CFR 63, Subpart VVVV per the following requirements. In all cases, the Permittee shall submit notification to change options, in writing, to the Division of Air Quality, 15 days prior to changing compliance options.

o. Changing from Compliant Materials (40 CFR 63.5713) to 12-month Emissions Averaging (40 CFR 63.5710): The Permittee shall begin collecting resin and gel coat usage data on the date the compliance option is switched. The source shall demonstrate compliance using the Emissions Averaging option for at least 12 consecutive months.

p. Changing from 12-month Emissions Averaging (40 CFR 63.5710) to Compliant Materials (40 CFR 63.5713): The Permittee shall begin complying with the Compliant Materials option on the date the compliance option is switched. Until the full 12-month compliance period has ended the Permittee shall continue to collect resin and gel coat usage data and calculate the 12-month emissions average. This permit contains compliance certification, monitoring, reporting, and record keeping requirements sufficient to assure compliance with the terms and conditions of this permit.

Reporting

q. 40 CFR 63.5764 What Reports Shall Be Submitted And When
   i. In addition to any reporting requirements stated above, the Permittee shall submit a compliance report 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. The compliance report shall include the following information:
      A. Company name and address.
      B. A statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the report.
      C. The date of the report and the beginning and ending dates of the reporting period.
      D. A description of any changes in the manufacturing process since the last compliance report.
      E. A statement or table showing, for each regulated operation, the applicable organic HAP content limit, application equipment requirement, or MACT model point value averaging provision with which the Permittee is complying. The statement or table shall also show the actual weighted-average organic HAP content or weighted-average MACT model point value (if applicable) for each operation during each of the rolling 12-month averaging periods that end during the reporting period.
      F. If the Permittee was in compliance with the emission limits and work practice standards during the reporting period, the Permittee shall include a statement to that effect.
      G. If the Permittee deviated from an emission limit or work practice standard during the reporting period, the Permittee shall also include the following information in the semiannual compliance report.
         1. A description of the operation involved in the deviation.
         2. The quantity, organic HAP content, and application method (if relevant) of the materials involved in the deviation.
         3. A description of any corrective action the Permittee took to minimize the deviation and actions the Permittee has taken to prevent it from happening again.
         4. A statement of whether or not the Permittee was in compliance for the 12-month averaging period that ended at the end of the reporting period.

C. One woodworking operation (ID No. ES-WW-1) with associated bagfilter (ID No. CD-1)

The following provides a summary of limits and/or standards for the emission source(s) described above.

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	Adequate ductwork and properly designed collectors	15A NCAC 2D .0512
Visible emissions	20 percent opacity	15A NCAC 2D .0521

1. 15A NCAC 2D .0512: PARTICULATES FROM MISCELLANEOUS WOOD PRODUCTS FINISHSING PLANTS

a. The Permittee shall not cause, allow, or permit particulate matter caused by the working, sanding, or finishing of wood to be discharged from any stack, vent, or building into the atmosphere without providing, as a minimum for its collection, adequate ductwork and properly designed collectors. In no case shall the ambient air quality standards be exceeded beyond the property line.

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

b. Particulate matter emissions from this source **(ID No. ES-WW-1)** shall be controlled by one bagfilter **(ID No. CD-1)**. To assure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer, if any. As a minimum, the inspection and maintenance program shall include:
   i. monthly external inspection of the ductwork and bagfilter noting the structural integrity; and
   ii. annual (for each 12 month period following the initial inspection) internal inspection of the bagfilter noting the structural integrity of the condition of the filters.

   The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0512 if the ductwork and bagfilter are not inspected and 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. the date and time of each recorded action;
   ii. the results of each inspection; and
   iii. the results of maintenance performed on any control device.

   The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0512 if these records are not maintained.

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

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

e. 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.

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

a. Visible emissions from this source **(ID No. ES-WW-1)** 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 2Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above any limit given in Section 2.1 C.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 while on operation, the Permittee shall observe the emission points of this source **(ID No. ES-WW-1)** for any visible emissions above normal. The monthly observation must be made for each month of the calendar year period while in operation to ensure compliance with this requirement. If visible emissions from this source 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 requirement below; or
   ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .2610 (Method 9) for 12 minutes is below the applicable 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 logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
   i. the date and time of each recorded action;
   ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
   iii. the results of any corrective actions performed.

   The Permittee shall be deemed in noncompliance with 15A NCAC 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 Sources and Specific Limitations and Conditions

A. Facility-wide affected sources

The following provides a summary of limits and/or standards for the emission source(s) described above.

Regulated Pollutant	Limits/Standards	Applicable Regulation
Odors	**State-enforceable only** Odorous emissions must be controlled	15A NCAC 2D .1806
Volatile organic compounds	Less than 250 tons per year	15A NCAC 2Q .0317 (PSD Avoidance)
Volatile organic compounds	Work practice standards	15A NCAC 2D .0958
Toxic air pollutants	**State-enforceable only** Less than toxic permit emission rates	15A NCAC 2Q .0711
Toxic air pollutants	**State-enforceable only** Modeled emission rates	15A NCAC 2D .1100

Regulated Pollutant	Limits/Standards	Applicable Regulation
Toxic air pollutants	**State-enforceable only** Last MACT/Air Toxics Modeling Demonstration	15A NCAC 2Q .0705

State-enforceable only

1. 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 facility's boundary.

2. 15A NCAC 2Q .0317: AVOIDANCE CONDITIONS for 15A NCAC 2D .0530: PREVENTION OF SIGNIFICANT DETERIORATION

a. In order to avoid applicability of this regulation, facility-wide affected sources shall discharge into the atmosphere less than 250 tons of volatile organic compounds (VOCs) per consecutive 12-month period.

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

b. Calculations of VOC emissions per month shall be made at the end of each month. VOC emissions shall be determined by multiplying the total amount of each type of VOC-containing material consumed during the month by the VOC content of the material. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the amounts of VOC containing materials are not monitored and recorded.

c. Calculations and the total amount of VOC emissions shall be recorded monthly in a logbook (written or electronic format). The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the VOC emissions exceed the limit in Section 2.2 A.2.a above.

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

d. 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. The report shall contain the monthly VOC emissions for the previous 17 months while in operation. The emissions must be calculated for each of the 12-month periods over the previous 17 months while in operation.

3. 15A NCAC 2D .0958: WORK PRACTICE STANDARDS FOR SOURCES OF VOLATILE ORGANIC COMPOUNDS

a. Pursuant to 15A NCAC 2D .0958, for all sources of volatile organic compounds (VOCs) as solvents, carriers, material processing media, or industrial chemical reactants, or in similar uses that mix, blend, or manufacturer 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 closeable 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; and
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.

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; and
v. not agitate solvent to the point of causing splashing.

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

c. To assure compliance with Section 2.2 A.3.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 in Section 2.2 A.3.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 were 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 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.

State-enforceable only

4. 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 the operational information demonstrating that the TAP emissions do not exceed the TPERs as listed below:

Pollutant (CAS Number)	TPERs Limitation			
	Carcinogens (lbs/yr)	Chronic Toxicants (lbs/day)	Acute Systemic Toxicants (lbs/hr)	Acute Irritants (lbs/hr)
Methyl ethyl ketone (78-93-3)		78		22.4
Methyl isobutyl ketone (108-10-1)		52		7.6
Toluene (108-88-3)		98		14.4
Xylene (1330-20-7)		57		16.4

State-enforceable only

5. 15A NCAC 2D .1100: CONTROL OF TOXIC AIR POLLUTANTS

In accordance with the approved application for an air toxic compliance demonstration, the following permit limits shall not be exceeded:

Emission Source(s)	Pollutant(s)	Emission Limit(s)
Facility-wide	Styrene	118.0 lbs/hr

a. To ensure compliance with the above limit(s), the Permittee shall emit no more than 118 pounds per hour of styrene actual emissions, calculated on an hourly basis, and recorded in a logbook. Hourly emissions shall be calculated based on the following equation:

[(total daily styrene containing materials) x (maximum styrene content per MSDS) x (appropriate styrene emission factor)] / daily hours of operation

b. For compliance purposes, a logbook of the facility-wide hourly styrene actual emissions shall be maintained on site for review at any time by personnel of the Division of Air Quality.

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

c. The Permittee shall submit a summary report of recordkeeping activities within 30 days after each calendar year quarter, due and 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 period for the preceding three-month period between July and September. The report shall contain the following:

i. the monthly styrene emissions for the previous 14 month. The emissions shall be calculated for each of the 12-month periods over the previous 14-month; and
ii. the total number of actual hours of operation per month and 12-month period.

State-enforceable only

6. 15A NCAC 2Q .0705: EXISTING SOURCES AND SIC CALLS

a. As of **August 22, 2000**, 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 2 Q.0711 "Emission Rates Requiring a Permit" on the TAPs are in compliance with 15A NCAC 2D .1100 "Control of Toxic Air Pollutants" as described in Section 2.2 A.5 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 "Exemptions"), 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 or 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 Toxic 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.4 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.

SECTION 3 - GENERAL CONDITIONS (v3.5)

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

All submittals shall include the Facility name and Facility ID number (refer to the cover page of this permit).

E. **Duty to Comply** [15A NCAC 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)(4)]
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)]
Emission compliance testing shall be by the procedures of Section .2600, except as may be otherwise required in Rules .0524, .0912, .1110, .1111, or .1415 of Subchapter 2D. If emissions testing is required by this permit or the DAQ or if the Permittee submits emissions testing to the DAQ to demonstrate compliance, the Permittee shall perform such testing in accordance with 15A NCAC 2D .2600 and follow the procedures outlined below:

1. The owner or operator of the source shall arrange for air emission testing protocols to be provided to the Director prior to air pollution testing. Testing protocols are not required to be pre-approved by the Director prior to air pollution testing. The Director shall review air emission testing protocols for pre-approval prior to testing if requested by the owner or operator at least **45 days** before conducting the test.

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

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).

NN. **Specific Permit Modifications** [15A NCAC 2Q .0501 and .0523]
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.

OO. **Third Party Participation and EPA Review** [15A NCAC 2Q .0521, .0522 and .0525(7)]
For permits modifications subject to 45-day review by the federal Environment Protection Agency (EPA), EPA's decision to not object to the proposed permit is considered final and binding on the EPA and absent a third party petition, the failure to object is the end of EPA's decision-making process with respect to the revisions to the permit. The time period available to submit a public petition pursuant to 15A NCAC 2Q .0518 begins at the end of the 45-day EPA review period.

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
CAIR	Clean Air Interstate Rule
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
NAA	Non-Attainment Area
NCAC	North Carolina Administrative Code
NCGS	North Carolina General Statutes
NESHAPS	National Emission Standards for Hazardous Air Pollutants
NO_X	Nitrogen Oxides
NSPS	New Source Performance Standard
OAH	Office of Administrative Hearings
PM	Particulate Matter
PM_{10}	Particulate Matter with Nominal Aerodynamic Diameter of 10 Micrometers or Less
POS	Primary Operating Scenario
PSD	Prevention of Significant Deterioration
RACT	Reasonable Available Control Technology
SIC	Standard Industrial Classification
SIP	State Implementation Plan
SO_2	Sulfur Dioxide
tpy	Tons Per Year
VOC	Volatile Organic Compound