



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. David Szilezy
President
Column & Post, Inc.
8013 Purfoy Road
Fuquay-Varina, North Carolina 27526

Dear Mr. Szilezy:

SUBJECT: Air Quality Permit No. **09594T02**
Facility ID: 9200782
Column & Post, Inc.
Fuquay-Varina, North Carolina
Wake County
Fee Class: Title V

In accordance with your completed Air Quality Permit Application for **renewal** of your Title V permit received **January 21, 2011**, we are forwarding herewith Air Quality Permit No. **09594T02** to Columna & Post, Inc., 8013 Purfoy Road, Fuquay-Varina, Wake 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
2728 Capital Blvd., Raleigh, NC 27604
Phone: 919-715-6237 \ FAX: 919-733-5317 \ Internet: www.daq.state.nc.us

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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) 733-1499 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)
Raleigh Regional Office
Central Files

ATTACHMENT to Cover Letter to Air Quality Permit Number 09594T02

Table of Changes

Pages	Section	Description of Changes
Cover	-	-amended all dates and permit revision numbers
TOC	-	-removed all references to Part II throughout permit
4	2.1 A.1.b	-corrected testing rule cross reference
5	2.1 A.2.b	-corrected testing rule cross reference
6-9	2.1 B	-moved former Section 2.2 B to Section 2.1 (corrected associated cross references throughout Section)
6	2.1 B (table)	-added references to facility-wide requirements to table -added MACT title
11	2.2 A.1.e 2.2 A.2.b	-updated shell reporting language -corrected testing rule cross reference
15-24	General Conditions	-updated shell conditions (v3.3)
25	List of Acronyms	-added acronyms for CAIR, NAA, and RACT

ATTACHMENT to Cover Letter to Air Quality Permit Number 09594T02

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

Emission Source ID No.	Emission Source Description
IES-PA	Putty application



AIR QUALITY PERMIT

Permit No.	Replaces Permit No.(s)	Effective Date	Expiration Date
09594T02	09594T01	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: **Column & Post, Inc.**

Facility ID: **9200782**

Facility Site Location: **8013 Purfoy Road**
City, County, State, Zip: **Fuquay-Varina, Wake County, North Carolina 27526**
Mailing Address: **8013 Purfoy Road**
City, State, Zip: **Fuquay-Varina, North Carolina 27526**

Application Number: **9200782.11A**
Complete Application Date: **January 21, 2011**

Primary SIC Code: **3089**
Division of Air Quality, **Raleigh Regional Office**
Regional Office Address: **3800 Barrett Drive**
Raleigh, North Carolina 27609

Permit issued this the xxx day of xxxx, 2011

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

SECTION 2: SPECIFIC LIMITATIONS AND CONDITIONS

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

SECTION 3: GENERAL PERMIT CONDITIONS

ATTACHMENT

List of Acronyms

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
P1 P2	Two dry filter-type spray booths	NA	NA
BT1 and BT2 (MACT, Subpart WWWW)	Open molding operations utilizing manual resin application, including: -two polyester resin storage tanks (6,000 gallons capacity, each)	NA	NA
MT1, MT3, MT5, MT9, MT11, MT13, and MT15 (MACT, Subpart WWWW)	-Seven mixing tanks (163 gallon capacity, each)		
MO1 (MACT, Subpart WWWW)	-Molding 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. Two dry filter-type spray booths (ID Nos. P1 and P2)

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 rate in tons per hour	15A NCAC 2D .0515
Visible emissions	20 percent opacity	15A NCAC 2D .0521

Regulated Pollutant	Limits/Standards	Applicable Regulation
Hazardous air pollutants	Utilize less than 100 gallons of HAP-containing coatings per consecutive 12-month period	15A NCAC 2Q .0317 (MACT Avoidance)
Volatile organic compounds	See Section 2.2 A.1	15A NCAC 2D .0958
Volatile organic compounds	See Section 2.2 A.2	15A NCAC 2Q .0317 (PSD/NSR Avoidance)
Odors	State-enforceable only See Section 2.2 A.3	15A NCAC 2D .1806
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 .0705

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

- a. Emissions of particulate matter from these sources (**ID Nos. P1 and P2**) shall not exceed an allowable emission rate as calculated by the following equation:

$$E = 4.10 \times P^{0.67} \quad \text{Where: } E = \text{allowable emission rate in pounds per hour}$$

$$P = \text{process weight rate in tons per hour}$$

Liquid and gaseous fuels and combustion air are not considered 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 result 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. P1 and P2**) shall be controlled by dry filters. To ensure compliance, the Permittee shall perform inspections and maintenance. As a minimum, the inspection and maintenance program shall include a monthly visual inspection of the spray booths' dry filters noting their condition. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if the dry filters are not inspected and maintained.
- d. The results of inspection and maintenance shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
- i. the date and time of each recorded action;
 - ii. the results of each inspection; and
 - iii. the results of any maintenance performed on the dry filters.
- 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 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. 15A NCAC 2D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from these sources (**ID Nos. P1 and P2**) 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 the limit given in Section 2.1 A.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- c. To ensure compliance with 15A NCAC 2D .0521, the Permittee shall comply with the monitoring/recordkeeping/reporting requirements in Section 2.1 A.1.c. through e. above. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521 if the requirements of Sections 2.1 A.1.c. through e above are not fulfilled.

3. 15A NCAC 2Q .0317: AVOIDANCE CONDITIONS

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

- a. In order to avoid the applicability of 15A NCAC 2D .1111 pursuant to 40 CFR Part 63, Subpart PPPP "Surface Coating of Plastic Parts and Products," usage of coating materials that contain hazardous air pollutants (HAPs) shall be less than 100 gallons per consecutive 12-month period.

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

- b. The amounts of coating materials that contain HAPs applied each month shall be recorded monthly in a logbook (written or electronic format) maintained on-site and made available to an authorized representative upon request. Those coating materials that meet the definition of "non-HAP coating" in 40 CFR 63.4581 need not be monitored. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1111 if the amounts of HAP containing coating materials applied are not monitored and recorded or if the records indicate that 100 gallons or more of HAP containing coating materials were applied in any consecutive 12-month period.

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

- c. The Permittee shall submit a summary 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. The report shall contain the following information:
 - i. the monthly usage of HAP-containing coating materials for each of the previous 17 months; and
 - ii. the usage of HAP-containing coating materials for each of the consecutive 12-month periods ending during the reporting period.

B. Open molding operations utilizing manual resin application, including:

- two bulk polystyrene resin storage tanks (ID Nos. BT1 and BT2)
- seven mixing tanks (ID Nos. MT1, MT3, MT5, MT9, MT11, MT13, and MT15)
- molding area (ID No. MO1)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Hazardous air pollutants	National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production -average ≤ 87 pounds of organic HAP per ton of resin per consecutive 12-month period -work practice standards for molding, cleaning and storage operations	15A NCAC 2D .1111 (40 CFR 63, Subpart WWWW)
Volatile organic compounds	See Section 2.2 A.1	15A NCAC 2D .0958
Volatile organic compounds	See Section 2.2 A.2	15A NCAC 2Q .0317 (PSD/NSR Avoidance)
Odors	State-enforceable only See Section 2.2 A.3	15A NCAC 2D .1806
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 .0705

1. 15A NCAC 2D .1111 MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY

Applicability [40 CFR 63.5785(a), 63.5790(c), 63.5925 and Table 15]

- a. The Permittee shall comply with all requirements of 15A NCAC 2D .1111 “Maximum Achievable Control Technology” and 40 CFR 63, Subpart WWWW “National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production” including Subpart A “General Provisions.”
- b. Operations listed in 40 CFR 63.5790(c) are specifically excluded from the emission limits and work practice standards of this permit, including the following:
 - i. Application of mold sealing and release agents;
 - ii. Mold stripping and cleaning;
 - iii. Repair of parts not manufactured at the source, including non-routine manufacturing of parts;
 - iv. Personal activities that are not part of the manufacturing operations (such as hobby shops on military bases);
 - v. Prepreg materials as defined in 40 CFR 63.5935;
 - vi. Non-gel coat surface coatings;
 - vii. Application of putties, polyputties and adhesives;
 - viii. Repair or production materials that do not contain resin or gel coat;
 - ix. Research and development operations as defined in Section 112(c)(7) of the Clean Air Act;
 - x. Polymer casting; and
 - xi. Closed molding operations (except for compression/injection molding).

Emission Limits [40 CFR 63.5799, 63.5805(c), 63.5810(a) or (c), Table 1 and Table 3]

- c. The Permittee must limit emissions from the molding operations as follows:
 - i. The weighted average organic HAP emission factor for the molding operations, as calculated in **Section 2.1 B.d.i** below, shall not exceed 87 pounds of organic HAP per ton of resin, on a 12-month rolling average; or
 - ii. Restrict resin use in the molding operations to resins that individually comply with the applicable organic HAP emission factor limit of 87 pounds organic HAP per ton of resin (i.e. resins with organic HAP emission factors, EF_j , as calculated in **Sections 2.1 B.1.d.i or ii** of this permit, less than or equal to 87 pounds per ton).

Monitoring [40 CFR 63.5797, 63.5799(c), 63.5810(a) and (c), Table 1 and Table 3]

- d. To assure compliance, the Permittee shall and perform the following monitoring:
 - i. If the Permittee chooses to comply with **Section 2.1 B.1.c.i** then within 30 days of the end of each calendar month the Permittee shall calculate the weighted average organic HAP emission factor for the molding operations during the previous 12 consecutive calendar months utilizing the following equation:

$$EF_{Ave} = \frac{\sum_{j=1}^n (EF_j \times R_j)}{\sum_{j=1}^n R_j}$$

- Where:
- EF_{Ave} = Average organic HAP emission factor for molding operations during the previous 12 consecutive calendar months, in units of pounds per ton of resin
 - R_j = Total usage of resin “j” in molding operations during the previous 12 consecutive calendar months, in units of tons
 - n = Total number of resins utilized in molding operations during the previous 12 consecutive calendar months
 - EF_j = The organic HAP emission factor for resin “j” in pounds per ton of resin, calculated as follows:
 - = $EF_j = ([0.286 \times \%HAP] - 0.0529) \times 2000 \times 0.5$ If resin “j” contains greater than or equal to 33% organic HAP, by weight; and
 - = $EF_j = 0.126 \times \%HAP \times 2000 \times 0.5$ If resin “j” contains less than 33% organic HAP, by weight
- Where: %HAP = Organic HAP weight percent (e.g. if the resin contains 38.5% organic HAP by weight, then %HAP = 0.385)

- ii. Within 30 days of the end of each calendar month, the Permittee shall calculate the organic HAP emissions from the molding operations during the previous 12 consecutive calendar months utilizing the following equation:

$$E_M = \sum_{j=1}^n (EF_j \times R_j) \leq 2,000$$

- Where:
- E_M = Total organic HAP emissions from molding operations during the previous 12 consecutive calendar months, in units of tons
 - R_j = Total usage of resin “j” in molding operations during the previous 12 consecutive calendar months, in units of tons

n = Total number of resins utilized in molding operations during the previous 12 consecutive calendar months

EF_j = organic HAP emission factor for resin “j” in pounds per ton of resin, calculated as follows:

= $([0.286 \times \%HAP] - 0.0529) \times 2000 \times 0.5$ If resin “j” contains greater than or equal to 33% organic HAP, by weight; and

= $0.126 \times \%HAP \times 2000 \times 0.5$ If resin “j” contains less than 33% organic HAP, by weight

Where: %HAP = Organic HAP weight percent (e.g. if the resin contains 38.5% organic HAP by weight, then %HAP = 0.385)

- iii. Resin use records may be based on purchase records if the Permittee can reasonable estimate how the resin is applied. The organic HAP content records may be based on material safety data sheets or on resin specifications supplied by the resin supplier if the procedures of 40 CFR 63.5797 are followed.
- iv. The Permittee shall be deemed in non-compliance with 15A NCAC 2D .1111 and 40 CFR Part 63, Subpart WWW if the monitoring listed in **Sections 2.1 B.1.d.i, ii and iii** above is not performed, or if the monitoring is performed and indicates an exceedance of the organic HAP emission factor limit listed in **Section 2.1 B.1.c.i** of this permit.

Work Practice Standards [40 CFR 63.5805(c), 63.5835(a), and Table 4]

- e. The Permittee is required to comply with the following work practice standards applicable to the molding operations:
 - i. *Cleaning Operations*. The Permittee shall not use cleaning solvents that contain HAP at the affected sources, except that organic HAP-containing cleaners may be used to clean cured resin from application equipment. Application equipment includes any equipment that directly contacts resin.
 - ii. *Storage Operations*. The Permittee shall keep containers that store HAP-containing materials closed or covered with the following exceptions:
 - A. Containers that store HAP-containing materials may be open during the addition or removal of materials; and
 - B. Bulk HAP-containing material storage tanks may be vented as necessary for safety.
 - iii. *Mixing Operations*. The Permittee shall equip the mixers with covers with no visible gaps and keep the mixer covers and vents closed when actual mixing is occurring, except that:
 - A. Gaps in mixer covers of up to 1 inch are permissible around mixer shafts and any required instrumentation;
 - B. Mixer covers may be open when adding materials or changing covers to the mixing vessels;
 - C. Mixer venting is allowed during addition of materials, or as necessary prior to adding materials or opening the cover for safety; and
 - D. Containers of 5 gallons or less may be open when active mixing is taking place, or during periods when they are in process (i.e., they are actively being used to apply resin).

Recordkeeping [40 CFR 63.5895(c) and (d), 63.5915(c) and (d), and 63.5920]

- f. The Permittee shall retain the following records:
 - i. For molding operations for which the Permittee chooses to demonstrate compliance in accordance with **Section 2.1 B.1.c.i** of this permit:
 - A. Organic HAP content of resins;
 - B. Operation where the resin is used; and
 - C. Resin usages. Resin use records may be based on purchase records if the Permittee can reasonable estimate how the resin is applied.

- ii. For molding operations for which the Permittee chooses to demonstrate compliance in accordance with **Section 2.1 B.1.c.ii** of this permit:
 - A. Organic HAP content of resins; and
 - B. Operation where the resin is used.
 - iii. The organic HAP content records may be based on material safety data sheets or on resin specifications supplied by the resin supplier provided the requirements of 40 CFR 63.5797 are followed.
 - iv. Retain all data, assumptions, and calculations used to determine organic HAP emission factors, average organic HAP contents and to comply with the monitoring requirements of **Section 2.1 B.1.d** above.
 - v. The Permittee shall retain a certified statement that the Permittee is in compliance with the work practice standards provided in **Section 2.1 B.1.e** of this permit.
- The Permittee shall be deemed in non-compliance with 15A NCAC 2D .1111 and 40 CFR Part 63, Subpart WWWW if the records listed above are not retained.

Reporting [40 CFR 63.5805(e), 63.5895(d), 63.5900(b), 63.5910, 63.5920 and Table 14]

- g. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following, as applicable:
 - i. Company name and address;
 - ii. Statement by the Responsible Official with the official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report;
 - iii. The date of the report and the beginning and ending dates of the reporting period;
 - iv. For molding operations for which the Permittee demonstrating compliance in accordance with **Section 2.1 B.1.c.ii** of this permit, include a list of resins and identify their application methods;
 - v. A statement that the Permittee has changed compliance options since the last semiannual compliance report;
 - vi. A statement that emissions of organic HAP from molding operations at this facility, as calculated in **Section 2.1 B.1.d.ii** of this permit, have exceeded 100 tons per consecutive 12-month period; and either
 - vii. The total operating time of each affected source during the reporting period and information on the number, duration and cause of deviations and the corrective actions taken; or
 - viii. A statement that there were no deviations during the reporting period if:
 - A. There were no deviations from the emission limits provided in **Section 2.1 B.1.c** of this permit; and
 - B. There were no deviations from the work practice standards provided in **Section 2.1 B.1.e** of this permit.

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
Volatile organic compounds	Work practice standards	15A NCAC 2D .0958
Volatile organic compounds	Emit less than 100 tons of volatile organic compounds per consecutive 12-month period	15A NCAC 2Q .0317 (PSD/NSR Avoidance)
Odors	State-enforceable only Odorous emissions must be controlled	15A NCAC 2D .1806
Toxic air pollutants	State-enforceable only Facility-wide styrene emissions shall be less than 102.0 pounds per hour	15A NCAC 2D .1100
Toxic air pollutants	State-enforceable only Last MACT/Air Toxics Demonstration	15A NCAC 2Q .0705

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

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

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

- c. To assure compliance with paragraphs (a) and (b) above, the Permittee shall, at a minimum, perform a visual inspection once per month of all operations and processes utilizing VOCs. 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. If the required records are not maintained the Permittee shall be deemed to be in noncompliance with rule 15A NCAC 2D .0958.

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

- e. The Permittee shall submit a summary report of the observations **postmarked on or before** January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

**2. 15A NCAC 2Q .0317: AVOIDANCE CONDITIONS
for 15A NCAC 2D .0531: SOURCES IN NONATTAINMENT AREAS**

- a. In order to avoid applicability of 15A NCAC 2D .0531 for major sources and major modifications, facility-wide emissions of volatile organic compounds (VOCs) into the atmosphere shall be less than 100 tons per consecutive 12-month period.

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 2.2 A.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0531.

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

- c. The Permittee shall determine the facility-wide VOC emissions using the following calculations:
 - i. Within 30 days of the end of each calendar month, the Permittee shall calculate the VOC emissions from the molding operations for the previous calendar month utilizing the following equation:

$$E_M = \sum_{j=1}^n (EF_j \times R_j) \div 2,000$$

Where: E_M = Total VOC emissions from molding operations during the calendar month, in units of tons

R_j = Total usage of resin “j” in molding operations during the calendar month, in units of tons

n = Total number of resins utilized in molding operations during the calendar month

EF_j = VOC emission factor for resin “j” in units of pounds per ton of resin. If resin “j” contains greater than or equal to 33% organic hazardous air pollutants (HAP), by weight, then:

$$EF_j = ([0.286 \times \%HAP] - 0.0529) \times 2000 \times 0.5$$

If resin “j” contains less than 33% organic HAP, by weight, then:

$$EF_j = 0.126 \times \%HAP \times 2000 \times 0.5$$

Where: %HAP = Organic HAP weight percent of resin (e.g. if the resin contains 31.5% organic HAP by weight, then %HAP = 0.315)

- ii. Within 30 days of the end of each calendar month, the Permittee shall calculate the facility-wide VOC emissions from all sources other than the molding operations (i.e. the non-molding operations) for the previous calendar month utilizing the following equation:

$$E_{NM} = \sum_{k=1}^m (VOC_k \times R_k) \leq 2,000$$

Where: E_{NM} = Total emissions of VOC from all non-molding operations during the calendar month, in units of tons

VOC_k = VOC content of material “k” in weight percent (e.g. if a coating material contains 7.5% VOC by weight, then $VOC_k = 0.075$)

R_k = Total usage of material “k” in non-molding operations during the calendar month, in units of pounds

m = Total number of VOC-containing materials utilized in non-molding operations during the calendar month

- iii. Within 30 days of the end of each calendar month, the Permittee shall calculate the facility-wide VOC emissions from all sources for the consecutive 12-month period that ended with the previous calendar month by summing the monthly VOC emissions from molding and non-molding operations, as calculated in Sections 2.2 A.2.c.i and ii above, over that consecutive 12-month period.
- iv. Calculations shall be made and recorded monthly in a logbook (written or electronic format) maintained on-site and made available to an authorized representative upon request. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0531 if the molding and non-molding VOC emissions are not monitored and recorded or if the calculated VOC emissions exceed the limit in Section 2.2 A.2.a.

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

- d. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following:
 - i. The monthly facility-wide VOC emissions for each of the previous 17 months; and
 - ii. The facility-wide VOC emissions for each of the consecutive 12-month periods ending during the reporting period.

State-enforceable only

3. 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.

State-enforceable only

4. 15A NCAC 2D .1100: CONTROL OF TOXIC AIR POLLUTANTS – Pursuant to 15A NCAC 2D .1100 and in accordance with the approved application for an air toxics compliance demonstration, the following permit limits shall not be exceeded:

Emission Source(s)	Toxic Air Pollutant(s)	Emission Limit(s)
Facility-wide	Styrene	102.0 pounds per hour

Monitoring/Recordkeeping

- b. To ensure compliance with the above limit, the Permittee shall determine the hourly, facility-wide styrene emissions using the following calculations:
 - i. By the end of each day, the Permittee shall calculate the highest hourly styrene emission rate achieved at this facility from molding operations during that day for each hour that molding operations are conducted by using the following equation:

$$E_M = \sum_{j=1}^n (EF_j \times R_j)$$

Where: E_M = Total emissions of styrene from molding operations during the hour in units of pounds

n = Total number of resins utilized in molding operations during the hour

R_j = Total usage of resin “j” in molding operations during the hour, in units of tons

EF_j = Styrene emission factor for resin “j” in units of pounds per ton of resin, calculated as follows:

= $EF_j = ([0.286 \times \%S] - 0.0529) \times 2000 \times 0.5$ If resin “j” contains greater than or equal to 33% organic HAP, by weight; or

= $EF_j = 0.126 \times \%S \times 2000 \times 0.5$ If resin “j” contains less than 33% organic HAP, by weight

Where: $\%S$ = Styrene content of resin “j” in weight percent (e.g. if the resin contains 38.5% styrene by weight, then $\%S = 0.385$)

- ii. By the end of each day, the Permittee shall calculate the highest hourly styrene emission rate achieved at this facility from all sources other than the molding operations (i.e. the non-molding operations) during that day for each hour that styrene-emitting non-molding operations are conducted by using the following equation:

$$E_{NM} = \sum_{k=1}^m (\%S_k \times R_k) \leq 2,000$$

Where: E_{NM} = Total facility-wide emissions of styrene from the non-molding operations during the hour, in units of tons

$\%S_k$ = Styrene content of material “k” in weight percent (e.g. if a material contains 7.5% styrene by weight, then $\%S_k = 0.075$)

R_k = Total usage of material “k” in non-molding operations during the hour, in units of pounds

m = Total number of styrene-containing materials (e.g. coating materials or putties) utilized in all non-molding operations during the hour

- iii. By the end of each day, the Permittee shall calculate the highest facility-wide hourly styrene emission rate achieved at this facility from all sources during that day by summing the highest hourly styrene emission rates from molding and non-molding operations, as calculated in Sections 2.2 A.4.b.i and ii above, during that day.
- c. The highest facility-wide hourly styrene emission rate shall be recorded daily in a logbook (written or electronic form) on-site and made available to an authorized representative upon request.

Reporting

- d. For compliance purposes, within 30 days after each calendar year quarter the Permittee shall report to the Regional Supervisor, DAQ the highest facility-wide, hourly styrene emission rate, as calculated in Section 2.2 A.4.c above, during the reporting period.

State-enforceable only

5. 15A NCAC 2Q .0705: EXISTING FACILITIES AND SIC CALLS

- a. As of **October 13, 2006** emissions of toxic air pollutants have been demonstrated on a facility-wide basis (excluding those sources exempt under 15A NCAC 2Q .0702 "Exemptions") that each of the toxic air pollutants (TAPs) emitted from all sources at the facility are either below its respective toxic permit emission rates (TPER) listed in 15A NCAC 2Q .0711 - "Emission Rates Requiring a Permit" or the TAPs are in compliance with 15A NCAC 2D .1100 "Control of Toxic Air Pollutants" as described elsewhere in this permit.
- 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 below 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.

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

SECTION 3 - GENERAL CONDITIONS (v3.3)

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)]

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

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

1. A permit shall be reopened and revised under the following circumstances:
 - a. additional applicable requirements become applicable to a facility with remaining permit term of three or more years;
 - b. additional requirements (including excess emission requirements) become applicable to a source covered by Title IV;
 - c. the Director or EPA finds that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; or
 - d. the Director or EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
2. Any permit reopening shall be completed or a revised permit issued within 18 months after the applicable requirement is promulgated. No reopening is required if the effective date of the requirement is after the expiration of the permit term unless the term of the permit was extended pursuant to 15A NCAC 2Q .0513(c).

3. Except for the state-enforceable only portion of the permit, the procedures set out in 15A NCAC 2Q .0507, .0521, or .0522 shall be followed to reissue the permit. If the State-enforceable only portion of the permit is reopened, the procedures in 15A NCAC 2Q .0300 shall be followed. The proceedings shall affect only those parts of the permit for which cause to reopen exists.
4. The Director shall notify the Permittee at least 60 days in advance of the date that the permit is to be reopened, except in cases of imminent threat to public health or safety the notification period may be less than 60 days.
5. Within 90 days, or 180 days if the EPA extends the response period, after receiving notification from the EPA that a permit needs to be terminated, modified, or revoked and reissued, the Director shall send to the EPA a proposed determination of termination, modification, or revocation and reissuance, as appropriate.

LL. Reporting Requirements for Non-Operating Equipment [15A NCAC 2Q .0508(i)(16)]

The Permittee shall maintain a record of operation for permitted equipment noting whenever the equipment is taken from and placed into operation. During operation the monitoring recordkeeping and reporting requirements as prescribed by the permit shall be implemented within the monitoring period.

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

As required by 15A NCAC 2D .0540 "Particulates from Fugitive Dust Emission Sources," the Permittee shall not cause or allow fugitive dust emissions to cause or contribute to substantive complaints or excess visible emissions beyond the property boundary. If substantive complaints or excessive fugitive dust emissions from the facility are observed beyond the property boundaries for six minutes in any one hour (using Reference Method 22 in 40 CFR, Appendix A), the owner or operator may be required to submit a fugitive dust plan as described in 2D .0540(f).

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

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.

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
PM₁₀	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
SO₂	Sulfur Dioxide
tpy	Tons Per Year
VOC	Volatile Organic Compound