



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

Michael F. Easley, Governor

William G. Ross, Jr., Secretary
B. Keith Overcash, P.E., Director

June 27, 2008

Mr. Dave Wood
Plant Manager
PGI Nonwovens d.b.a Chicopee, Inc.
Post Office Box 308
Benson, North Carolina 27504

Dear Mr. Wood:

**SUBJECT: Air Quality Permit No. 03422T23
Facility ID: 05/051/00014
PGI Nonwovens d.b.a Chicopee, Inc.
1203 South Chicopee Road
Benson, North Carolina 27504
Johnston County
Fee Class: Title V**

In accordance with your completed Air Quality Permit Application No. 5100014.07B for the renewal of a Title V permit received August 3, 2007, we are forwarding herewith Air Quality Permit No. 03422T23 to PGI Nonwovens d.b.a Chicopee, Inc., 1203 South Chicopee Road, Benson, 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.

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.

Permitting Section

1641 Mail Service Center, Raleigh, North Carolina 27699-1641

2728 Capital Blvd., Raleigh, North Carolina 27604

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Mr. David Wood
June 27, 2008
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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 No. 03422T23 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 June 27, 2008 until May 31, 2013, 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. David F. Putney, P.E., by email at david.putney@ncmail.net or by telephone at (919) 733-2051.

Sincerely yours,

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

Enclosure

c: Gregg Worley, EPA Region 4
Raleigh Regional Office
Central Files

ATTACHMENT 1 to Permit No. 03422T23

The following table describes the modifications to the current permit as part of the modification process.

Old Page(s)	New Page(s)	Condition/Item	Description of Change(s)
Global	Global	N/A	<ul style="list-style-type: none"> • Change permit revision number to T23 • Change the issuance/effective dates of the permit • Amend the application number and complete date • Remove references to Part I and Part II • Remove 40 CFR Part 63, Subpart DDDDD (i.e. the boiler MACT) • Remove equipment: <ul style="list-style-type: none"> ○ Boiler B-4; ○ Dry Form Lines 1, 2 and 6 (ID Nos. ES-6, -7 and -11); and ○ The MAF line (ID No. ES-21) • Update the monitoring/recordkeeping requirements associated with 2D .0521 to the current shell • Modify descriptions to refer to steam-heated dry cans generally (i.e. include the phrase “and associated steam-heated dry cans”) • Changes in names of sub-facilities: <ul style="list-style-type: none"> ○ Plant 40 (Line B) in Permit No. 03422T22 is Plant 40 (Line C) in Permit No. 03422T23; and ○ Plant C (Line C) in Permit No. 03422T22 is Plant M1 (Line A1) in Permit No. 03422T23
3-4	3-4	Equipment List	<ul style="list-style-type: none"> • Add rows for some existing steam-heated dry cans (i.e. list dry cans in Plant 30 as ES-27 and dry cans in Plant 42 as ES-28) • Remove asterisk language for ES-26, CD-22 and CD-23 • Split “grouped” sources into individual rows • Change sources ES-13A,B; -14A,B; and -22A,B to ES-13, 14 and 22 respectively (these are each 1 source with 2 stacks) • Remove process weight rates from descriptions • Add capacities of the nine bulk storage tanks in the mixing room
4	5	2.1 A	Remove reference to 2D .1806 and 2D .1100 from limits/standards summary table for boilers
5	5	2.1 A.1.c	Specify that no monitoring, recordkeeping or reporting requirements (MRR) apply to boilers for 2D .0503
5	5	2.1 A.2.c-e	Specify that the MRR requirements of 2D .0516 only apply to fuel oils Nos. 4, 5 and 6
6 – 7	N/A	2.1 A.4 (03422T22)	Relocate the PSD avoidance condition to section 2.2 C of Permit No. 03422T23
7	7	2.1 B	Change sub-facility name from Plant 40 (Line B) to Plant 40 (Line C)
7	7	2.1 B.1.a	Modify text to indicate that rule 2D .0515 applies to rotary drum dryer ES-4 as well as to web forming machine ES-26
N/A	8	2.1 B.2.b	Add language allowing for testing to verify compliance with 2D .0516 and re-designate the MRR requirements for this rule as paragraph “c”
8	8	2.1 B.3.a	Modify text to indicate that rule 2D .0521 applies to both rotary drum dryer ES-4 and to web forming machine ES-26
8	8	2.1 B.3.c	Remove the requirement to define “normal” VE emissions for web forming machine ES-26
10	9	2.1 C.1.d-e	Update the recordkeeping and reporting associated with 2D .0515 for

Old Page(s)	New Page(s)	Condition/Item	Description of Change(s)
			the textile opening machines in Plant 42 to current shell language

ATTACHMENT 1 to Permit No. 03422T23 (continued)

Old Page(s)	New Page(s)	Condition/Item	Description of Change(s)
10	9	2.1 C.2.a	Specify that rule 2D .0521 applies to the two Plant 42 textile opening machines ES-16A and ES-16B
11	11	2.1 D.1.d	Update the recordkeeping associated with rule 2D .0515 for textile processing machine ES-17 in Plant 44 to the current shell language
12	12	2.1 E	Change sub-facility name from Plant C (Line C) to Plant M1 (Line A1) and source ES-22A,B to ES-22
12 – 13	12	2.1 E.1.a+c	Alter text to indicate that rule 2D .0515 applies to the tenter frame (as opposed to textile processing machine ES-23 which exhausts inside the building) and update the recordkeeping to the current shell language
N/A	12	2.1 E.2.b	Add language allowing for testing to verify compliance with 2D .0516 and re-designate the MRR requirements for this rule as paragraph “c”
14	13	2.1 F.1.c	Alter condition to update the monitoring requirements associated with 2D .0515 for storage silo ES-20 to the current shell language
15	14	2.1 F.1.d	Alter condition to include the current shell language for recordkeeping requirements associated with 2D .0515 for storage silo ES-20
N/A	14	2.1 F.1.e-f	Add new permit conditions to include the current shell language for the reporting requirements for ES-20 associated with rule 2D .0515
15 – 16, 18	15 – 16	2.2 A	Modify permit section to: <ul style="list-style-type: none"> • Apply to facility-wide affected sources; and • Include requirements associated with rule 2D .1806
16 – 18	16 – 18	2.2 B	Modify permit section to: <ul style="list-style-type: none"> • Remove the last MACT trigger for toxics; • Remove conditions involving the boilers; and • Insert shell language for facilities that have already performed their last MACT toxics demonstration
N/A	18 – 19	2.2 C	Alter this permit section to include MRR requirements associated with rule 2Q .0317 to avoid 2D .0530 [i.e. PSD avoidance formerly in section 2.1 A.4 of Permit No. 03422T22] and alter the MRR to: <ul style="list-style-type: none"> • Limit facility-wide emissions of SO₂ from all fuels (i.e. including natural gas and propane); • Add item allowing for testing to verify compliance with the associated emission limit; and • Relax the associated reporting frequency from quarterly to semiannually
19	19 – 22	2.2 D	Replace “placeholder” language for 40 CFR Part 63, Subpart OOOO (i.e. the MACT for Printing, Coating, and Dyeing of Fabrics and Other Textiles) with detailed permit language
19	N/A	2.2 E	Remove this permit section for 40 CFR Part 63, Subpart DDDDD (i.e. the MACT for boilers) since that MACT has been vacated by the courts
19 - 27	23 - 30	3	Update Section 3 “General Conditions” to the current shell language
29 - 30	N/A	Sections 1, 2 and 3	Remove Part II

Note: The Condition/Item listed in the table above are as listed in Permit No. 03422T23 unless otherwise

stated.

ATTACHMENT 2 to Permit No. 03422T23
Insignificant Activities under 15A NCAC 2Q .0503(8)

Emission Source ID No.	Emission Source Description
IES-FAD1	FAD Line 1
IES-FAD2	FAD Line 2
IES-Tank 1	Fuel oil storage tank (125,000 gallon capacity)
IES-Tank 2	Fuel oil storage tank (125,000 gallon capacity)
IES-5	One laser engraving station and associated natural gas-fired thermal oxidizer (0.2 million Btu per hour maximum heat input, ID No. CD-5)

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 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
03422T23	03422T22	June 27, 2008	May 31, 2013

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: **PGI Nonwovens d.b.a Chicopee, Inc.**

Facility ID: **05/051/00014**

Facility Site Location: **1203 South Chicopee Road**
City, County, State, Zip: **Benson, North Carolina 27504**

Mailing Address: **P.O. Box 308**
City, State, Zip: **Benson, North Carolina 27504**

Application Number: **5100014.07B**
Complete Application Date: **August 3, 2007**
Primary SIC Code: **2297**

Division of Air Quality, **Raleigh Regional Office**
Regional Office Address: **1628 Mail Service Center**
Raleigh, North Carolina 27699-1628

Permit issued this the 27th day of June, 2008

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

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(Including specific requirements, testing, monitoring, recordkeeping, and reporting requirements)

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(Including specific requirements, testing, monitoring, recordkeeping, and reporting requirements)

SECTION 3: GENERAL PERMIT CONDITIONS

ATTACHMENT

List of Acronyms

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

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

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

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

Emission Source I.D. No.	Emission Source Description	Control Device I.D. No.	Control Device Description
B-1	Natural gas/Nos. 2 through 6 fuel oils-fired boiler (25 million Btu per hour maximum heat input)	NA	NA
B-2	Natural gas/Nos. 2 through 6 fuel oils-fired boiler (25 million Btu per hour maximum heat input)	NA	NA
B-3	Natural gas/Nos. 2 through 6 fuel oils-fired boiler (48.1 million Btu per hour maximum heat input)	NA	NA
ES-20	Diatomaceous Earth Storage Silo	CD-20	Bagfilter (352 square feet of filter surface area)
Plant 30 (Dry Form Lines) consisting of:			
ES-8 [MACT 0000]	Dry Form Line 3	NA	NA
ES-9 [MACT 0000]	Dry Form Line 4	NA	NA
ES-10 [MACT 0000]	Dry Form Line 5	NA	NA
ES-27 [MACT 0000]	Steam-heated Dry Cans	NA	NA
Plant 40 (Line C) consisting of:			
ES-26 [MACT 0000]	Web Forming Machine	CD-22 CD-23	One cartridge filter (13832 square feet of filter area) and one bagfilter (4010 square feet of filter area)
ES-4 [MACT 0000]	Natural gas/propane-fired rotary drum dryer (14.4 million Btu per hour maximum heat input)	NA	NA
ES-14 [MACT 0000]	Steam-heated Dry Cans	NA	NA
Plant 42 (Line 8) consisting of:			
ES-28 [MACT 0000]	Steam-heated Dry Cans	NA	NA
ES-16A [MACT 0000]	Textile Opening Machine	CD-21A	Screen filter consisting of a primary and a secondary screen for a total filter area of 383 square feet
ES-16B [MACT 0000]	Textile Opening Machine	CD-21B	Screen filter consisting of a primary and a secondary screen for a total filter area of 383 square feet
ES-12 [MACT 0000]	Modified Entangled Fiber Line	NA	NA
Plant 44 (Line A) consisting of:			

Emission Source I.D. No.	Emission Source Description	Control Device I.D. No.	Control Device Description
ES-17 [MACT 0000]	Textile Opening Machine	CD-19A	Automatic dry-type air filter (68.6 square feet of filter media)
ES-13 [MACT 0000]	Steam-heated Dry Cans	NA	NA
Plant M1 (Line A1) consisting of:			
ES-22 [MACT 0000]	Natural gas/propane-fired tenter frame (12 million Btu per hour maximum heat input)	NA	NA
ES-23 [MACT 0000]	Textile Processing Machine	NA	NA
Pilot Line 3 consisting of:			
ES-25A [MACT 0000]	Textile Opening Machine	NA	NA
ES-25B [MACT 0000]	Finishing Operation	NA	NA
ES-25C [MACT 0000]	Electric Dryer	NA	NA
Mixing Room consisting of:			
ES-15.1 [MACT 0000]	Latex/binder bulk storage tank (14,219 gallon capacity, Tank 1)	NA	NA
ES-15.2 [MACT 0000]	Latex/binder bulk storage tank (14,219 gallon capacity, Tank 2)	NA	NA
ES-15.3 [MACT 0000]	Latex/binder bulk storage tank (14,219 gallon capacity, Tank 3)	NA	NA
ES-15.4 [MACT 0000]	Latex/binder bulk storage tank (14,219 gallon capacity, Tank 4)	NA	NA
ES-15.5 [MACT 0000]	Latex/binder bulk storage tank (14,219 gallon capacity, Tank 5)	NA	NA
ES-15.6 [MACT 0000]	Latex/binder bulk storage tank (5,265 gallon capacity, Tank 6)	NA	NA
ES-15.7 [MACT 0000]	Latex/binder bulk storage tank (5,265 gallon capacity, Tank 7)	NA	NA
ES-15.8 [MACT 0000]	Latex/binder bulk storage tank (5,265 gallon capacity, Tank 8)	NA	NA
ES-15.9 [MACT 0000]	Latex/binder bulk storage tank (5,265 gallon capacity, Tank 9)	NA	NA

SECTION 2 - SPECIFIC LIMITATIONS AND CONDITIONS

2.1 - Emission Source(s) Specific Limitations and Conditions

The emission source(s) and associated air pollution control device(s) listed below are subject to the following specific terms, conditions, and limitations, including the monitoring, recordkeeping, and reporting requirements to which those requirements apply:

A. Three Natural gas/Nos. 2 through 6 fuel oils-fired boilers (25, 25 and 48.1 million Btu per hour maximum heat input, ID Nos. B-1, B-2 and B-3, respectively)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	0.33 pounds per million Btu heat input	15A NCAC 2D .0503
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 2D .0516
	See Subsection 2.2 C.1 - < 250 tons per consecutive 12-month period	15A NCAC 2Q .0317 to avoid 15A NCAC 2D .0530
Visible emissions	40% opacity - (Boilers B-1 and B-2) 20% opacity - (Boiler B-3)	15A NCAC 2D .0521
Odorous emissions	See Subsection 2.2 A.2 - State-enforceable Only	15A NCAC 2D .1806

1. 15A NCAC 2D .0503: PARTICULATES FROM FUEL BURNING INDIRECT HEAT EXCHANGERS

- a. Emissions of particulate matter from the combustion of natural gas or fuel oils that are discharged from these sources into the atmosphere shall not exceed 0.33 pounds per million Btu heat input. [15A NCAC 2D .0503(a)]

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3 of this permit. 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 .0503.

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

- c. No monitoring, recordkeeping or reporting is required for particulate emissions from the firing of natural gas or fuel oils in these sources.

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

- a. Emissions of sulfur dioxide from these sources shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard. [15A NCAC 2D .0516]

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the Permittee shall perform such testing in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3 of this permit. 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 .0516.

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

- c. The maximum sulfur content of any No. 4, No. 5 and No. 6 fuel oil received and burned in the boilers shall not exceed 2.1 percent by weight. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516 if the sulfur content of the fuel oil exceeds this limit.
- d. To assure compliance, the Permittee shall conduct the monitoring, recordkeeping and reporting requirements of Sections 2.2 C.1.c through 2.2 C.1.f, below of this permit. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516 if monitoring, recordkeeping and reporting requirements of Sections 2.2 C.1.d through C.1.f of this permit are not performed or if that monitoring, recordkeeping and reporting indicates emissions in excess of the limit in Section 2.1 A.2.a of this permit, above.

3. 15A NCAC 2D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from Boilers B-1 and B-2 shall not be more than 40 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 40 percent opacity not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 90 percent opacity. [15A NCAC 2D .0521(c)]

- b. Visible emissions from Boiler ID No. B-3 shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent opacity not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.
[15A NCAC 2D .0521(d)]

Testing [15A NCAC 2D .2601]

- c. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3 of this permit. If the results of this test are above the limits given in Section 2.1 A.3.a. for Boilers B-1 and B-2 or above the limits given in Section 2.1 A.3.b. for Boiler B-3 above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- d. To assure compliance, once a day the Permittee shall observe the emission points of Boilers B-1, B-2 and B-3 for any visible emissions above normal. The daily observation must be made for each day of the calendar year period to ensure compliance with this requirement. The Permittee shall be allowed three (3) days of absent observations per semi-annual period. If visible emissions from these sources are observed to be above normal, the Permittee shall either:
 - i. Take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - ii. Demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .2601 (Method 9) for 12 minutes is below the limit given in Section 2.1 A.3.a or A.3.b, above, as applicable.

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.

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

- e. 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)]

- f. 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.

B. Plant 40 (Line C), consisting of:

- **One web-forming machine (ID No. ES-26) and the associated cartridge filter (ID No. CD-22) and bagfilter (ID No. CD-23);**
- **One natural-gas/propane fired rotary drum dryer (14.4 million Btu per hour maximum heat input rate; ID No. ES-4); and**
- **Associated steam-heated dry cans (ID Nos. ES-14)**

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	$E = 4.10P^{0.67}$ Where E = allowable emission rate P = process weight rate	15A NCAC 2D .0515
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 2D .0516
	See Subsection 2.2 C.1 - < 250 tons per consecutive 12-month period	15A NCAC 2Q .0317 to avoid 15A NCAC 2D .0530
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Volatile organic compounds	See Subsection 2.2 A.1 - Work Practice Standards	15A NCAC 2D .0958
Odorous emissions	See Subsection 2.2 A.2 - State-enforceable Only	15A NCAC 2D .1806
Toxics Air Pollutants	See Subsection 2.2 B.1 - State-enforceable Only	15A NCAC 2D .1100
	See Subsection 2.2 B.2 - State-enforceable Only	15A NCAC 2Q .0705
Hazardous Air Pollutants	See Subsection 2.2 D.1 - Maximum Achievable Control Technology	15A NCAC 2D .1111 (40 CFR 63, Subpart OOOO)

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

- a. Emissions of particulate matter from the web-forming machine (ID No. ES-26) and the natural gas/propane-fired rotary drum dryer (ID No. ES-4) shall not exceed an allowable emission rate as calculated by the following equation:
[15A NCAC 2D .0515(a)]

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

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

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

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3 of this permit. 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 [15A NCAC 2Q .0508(f)]

- c. Particulate matter emissions from the web forming machine (ID No. ES-26) shall be controlled by cartridge filter (ID No. CD-22) and bagfilter (ID No. CD-23). 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 is no manufacturer’s inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include the following:

- i. A monthly visual inspection of the system ductwork and material collection units for leaks; and
- ii. An annual (for each 12 month period following the initial inspection) internal inspection of the cartridge filter’s and the bagfilter’s structural integrity.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if the ductwork, cartridge filter and bagfilter are not inspected and maintained.

- d. The results of inspection and maintenance shall be maintained in a log (written or electronic format) on-site and made available to an authorized representative upon request. The log shall record the following:

- i. The date and time of each recorded action;
- ii. The results of each inspection;
- iii. The results of any maintenance performed on the cartridge filter and bagfilter; and
- iv. Any variance from manufacturer’s recommendations, if any, and corrections made.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if these records are not maintained.

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

- e. The Permittee shall submit the results of any maintenance performed on the cartridge filter (**ID No. CD-22**) and bagfilter (**ID No. CD-23**) within 30 days of a written request by the DAQ.
- f. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

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

- a. Emissions of sulfur dioxide from the rotary drum dryer (**ID No. ES-4**) shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard. [15A NCAC 2D .0516]

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the Permittee shall perform such testing in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3 of this permit. If the results of this test are above the limit given in Section 2.1 B.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516.

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

- c. No monitoring, recordkeeping or reporting is required so show compliance with 15A NCAC 2D .0516 for sulfur dioxide emissions from the firing of natural gas or propane in the rotary drum dryer (ID No. ES-4).

3. 15A NCAC 2D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from web-forming machine (**ID No. ES-26**) and the natural gas/propane-fired rotary drum dryer (**ID No. ES-4**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent opacity not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521(d)]

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3 of this permit. If the results of this test are above the limit given in Section 2.1 B.3.a, above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- c. To assure compliance, once a week, the Permittee shall observe the emission points of the web-forming machine and the rotary drum dryer for any visible emissions above normal. The weekly observation must be made for each week of the calendar year period to ensure compliance with this requirement. If visible emissions from these sources are observed to be above normal, the Permittee shall either:
 - i. Take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - ii. Demonstrate that the percent opacity from the emission points of the web-forming machine and the rotary drum dryer in accordance with 15A NCAC 2D .2601 (Method 9) for 12 minutes is below the limit given in Section 2.1 B.3.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.

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

- 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.

C. Plant 42 (Line 8), consisting of:

- **Two textile opening machines (ID Nos. ES-16A and ES-16B) and their associated screen filters (ID No. CD-21A and CD-21B, respectively);**
- **One steam heated modified entangled fiber (MEF) line (ID No. ES-12); and**
- **Associated steam-heated dry cans (ID No. ES-28)**

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	$E = 4.10P^{0.67}$ Where E = allowable emission rate P = process weight rate	15A NCAC 2D .0515
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Volatile organic compounds	See Subsection 2.2 A.1 - Work Practice Standards	15A NCAC 2D .0958
Odorous emissions	See Subsection 2.2 A.2 - State-enforceable Only	15A NCAC 2D .1806
Toxics Air Pollutants	See Subsection 2.2 B.1 - State-enforceable Only	15A NCAC 2D .1100
	See Subsection 2.2 B.2 - State-enforceable Only	15A NCAC 2Q .0705
Hazardous Air Pollutants	See Subsection 2.2 D.1 - Maximum Achievable Control Technology	15A NCAC 2D .1111 (40 CFR 63, Subpart OOOO)

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

- a. Emissions of particulate matter from the textile opening machines (ID Nos. ES-16A and ES-16B) shall not exceed an allowable emission rate as calculated by the following equation: [15A NCAC 2D .0515(a)]

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

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

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

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3 of this permit. If the results of this test are above the limit given in Section 2.1 C.1.a, above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515.

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

- c. To ensure that optimum control efficiency of the screen filters (ID Nos. CD-21A and CD-21B) is maintained, the Permittee shall perform inspections and maintenance as recommended by the manufacturer or as determined from operating experience.
- d. The results of inspection and maintenance shall be maintained in a logbook (written or electronic form) kept on site and made available to an authorized representative upon request. The logbook shall record the following:
- i. The date and time of each recorded action;
 - ii. The results of each inspection;
 - iii. The results of any maintenance performed on the screen filters; and
 - iv. Any variance from manufacturer’s recommendations, if any, and corrections made.

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

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

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

- a. Visible emissions from the textile opening machines (ID Nos. ES-16A and ES-16B) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent opacity not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521(d)]

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3 of this permit. If the results of this test are above the limit given in Section 2.1 C.2.a, above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- c. To assure compliance, once a week, the Permittee shall observe the emission points of the textile opening machines for any visible emissions above normal. The weekly observation must be made for each week of the calendar year period to ensure compliance with this requirement. If visible emissions from the textile opening machines 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 textile opening machines (ID Nos. ES-16A and ES-16B) in accordance with 15A NCAC 2D .2601 (Method 9) for 12 minutes is below the limit given in Section 2.1 C.2.a above.

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

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

- 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.

D. Plant 44 (Line A), consisting of:

- **One textile opening machine (ID Nos. ES-17) and associated roll fabric filter system (ID No. CD-19A); and**
- **Associated steam-heated dry cans (ID No. ES-13)**

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	$E = 4.10P^{0.67}$ Where E = allowable emission rate P = process weight rate	15A NCAC 2D .0515
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Volatile organic compounds	See Subsection 2.2 A.1 - Work Practice Standards	15A NCAC 2D .0958
Odororous emissions	See Subsection 2.2 A.2 - State-enforceable Only	15A NCAC 2D .1806
Toxics Air Pollutants	See Subsection 2.2 B.1 - State-enforceable Only	15A NCAC 2D .1100
	See Subsection 2.2 B.2 - State-enforceable Only	15A NCAC 2Q .0705
Hazardous Air Pollutants	See Subsection 2.2 D.1 - Maximum Achievable Control Technology	15A NCAC 2D .1111 (40 CFR 63, Subpart OOOO)

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

- a. Emissions of particulate matter from the textile opening machine (**ID No. ES-17**) shall not exceed an allowable emission rate as calculated by the following equation: [15A NCAC 2D .0515(a)]

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

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

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

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3 of this permit. If the results of this test are above the limit given in Section 2.1 D.1.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515.

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

- c. To ensure that optimum control efficiency of the roll fabric filter system (**ID No. CD-19A**) is maintained, the Permittee shall perform inspections and maintenance as recommended by the equipment manufacturer or as determined from operating experience.
 - d. The results of inspection and maintenance shall be maintained in a logbook (written or electronic form) kept on site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. The date and time of each recorded action;
 - ii. The results of each inspection;
 - iii. The results of any maintenance performed on the roll fabric filter system; and
 - iv. Any variance from manufacturer's recommendations, if any, and corrections made.
- Reporting** [15A NCAC 2Q .0508(f)]
- e. The Permittee shall submit a summary report of inspection and maintenance activities within 30 days of a written request by the DAQ.

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

- a. Visible emissions from the textile opening machine (ID No. ES-17) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent opacity not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521(d)]

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3 of this permit. If the results of this test are above the limit given in Section 2.1 D.2.a, above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- c. To assure compliance, once a week, the Permittee shall observe the emission points of the textile opening machine (ID No. ES-17) for any visible emissions above normal. The weekly observation must be made for each week of the calendar year period 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 requirements below, or
 - ii. Demonstrate that the percent opacity from the emission points of the textile opening machine in accordance with 15A NCAC 2D .2601 (Method 9) for 12 minutes is below the limit given in Section 2.1 D.2.a above.

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

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

- 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.

E. Plant M1 (Line A1), consisting of:

- **One textile processing machine (ID No. ES-23); and**
- **One natural-gas/propane-fired tenter frame (12.0 million Btu per hour maximum heat input; ID No. ES-22)**

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	$E = 4.10P^{0.67}$ Where E = allowable emission rate P = process weight rate	15A NCAC 2D .0515
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 2D .0516
	See Subsection 2.2 C.1 - < 250 tons per consecutive 12-month period	15A NCAC 2Q .0317 to avoid 15A NCAC 2D .0530
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Volatile organic compounds	See Subsection 2.2 A.1 - Work Practice Standards	15A NCAC 2D .0958
Odorous emissions	See Subsection 2.2 A.2 - State-enforceable Only	15A NCAC 2D .1806
Toxics Air Pollutants	See Subsection 2.2 B.1 - State-enforceable Only	15A NCAC 2D .1100
	See Subsection 2.2 B.2 - State-enforceable Only	15A NCAC 2Q .0705
Hazardous Air Pollutants	See Subsection 2.2 D.1 - Maximum Achievable Control Technology	15A NCAC 2D .1111 (40 CFR 63, Subpart OOOO)

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

- a. Emissions of particulate matter from the natural gas/propane-fired tenter frame (**ID Nos. ES-22**) shall not exceed an allowable emission rate as calculated by the following equation: [15A NCAC 2D .0515(a)]

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

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

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

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3 of this permit. If the results of this test are above the limit given in Section 2.1 E.1.a, above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515.

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

- c. The Permittee shall maintain production records such that the process rates “P” in tons per hour, as specified by the formulas contained in 15A NCAC 2D .0515 can be derived, and shall make these records available to a DAQ authorized representative upon request.

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

- a. Emissions of sulfur dioxide from the tenter frame (**ID No. ES-22**) shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard. [15A NCAC 2D .0516]

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3. If the results of this test are above the limit given in Section 2.1 E.2.a, above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516.

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

- c. No monitoring, recordkeeping or reporting is required to show compliance with 15A NCAC 2D .0516 for sulfur dioxide emissions from the firing of natural gas or propane in the tenter frame (ID No. ES-22).

3. 15A NCAC 2D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from the tenter frame (**ID No. ES-22**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent opacity not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521(d)]

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3 of this permit. If the results of this test are above the limit given in Section 2.1 E.3.a, above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- c. To assure compliance, once a day the Permittee shall observe the emission points of the tenter frame (**ID No. ES-22**) for any visible emissions above normal. The daily observation must be made for each day of the calendar year period to ensure compliance with this requirement. The Permittee shall be allowed three (3) days of absent observations per semiannual period. 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 requirements below, or
 - ii. Demonstrate that the percent opacity from the emission points of the tenter frame in accordance with 15A NCAC 2D .2601 (Method 9) for 12 minutes is below the limit given in Section 2.1 E.3.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.

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

- 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.

F. Diatomaceous earth storage silo (ID No. ES-20) and associated bagfilter (ID No. CD-20)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	$E = 4.10P^{0.67}$ Where E = allowable emission rate P = process weight rate	15A NCAC 2D .0515
Visible emissions	20 percent opacity	15A NCAC 2D .0521

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

- a. Emissions of particulate matter from the diatomaceous earth storage silo (**ID No. ES-20**) shall not exceed an allowable emission rate as calculated by the following equation: [15A NCAC 2D .0515(a)]

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

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

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

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3. If the results of this test are above the limit given in Section 2.1 F.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 the diatomaceous earth storage silo (**ID No. ES-20**) shall be controlled by bagfilter (**ID No. CD-20**). To ensure that optimum control efficiency is maintained, the Permittee shall perform periodic inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer’s inspection and maintenance recommendations, or if there is no manufacturer’s inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include the following:
 - i. A monthly visual inspection of the system ductwork and bagfilter for leaks; and

ii. An annual internal inspection of the bagfilter's structural integrity.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if the ductwork and bagfilter are not inspected and maintained.

- d. The results of inspection and maintenance shall be maintained in a log (written or electronic format) on-site and made available to an authorized representative upon request. The log shall record the following:
- i. The date and time of each recorded action;
 - ii. The results of each inspection;
 - iii. The results of any maintenance performed on the cartridge filter and bagfilter; and
 - iv. Any variance from manufacturer's recommendations, if any, and corrections made.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if these records are not maintained.

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

- e. The Permittee shall submit the results of any maintenance performed on the bagfilter (**ID No. CD-20**) within 30 days of a written request by the DAQ.
- f. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

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

- a. Visible emissions from the diatomaceous earth storage silo (ID No. ES-20) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent opacity not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521(d)]

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3 of this permit. If the results of this test are above the limit given in Section 2.1 F.2.a, above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- c. To assure compliance, each time the diatomaceous earth storage silo (ID No. ES-20) is filled, the Permittee shall observe the emission points of this source for any visible emissions above normal. If visible emissions from the diatomaceous earth storage silo 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 diatomaceous earth storage silo in accordance with 15A NCAC 2D .2601 (Method 9) for 12 minutes is below the limit given in Section 2.1 F.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.

Recordkeeping [15A NCAC .0508(f)]

- 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 Source(s) Specific Limitations and Conditions

A. Facility-wide affected sources:

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Volatile organic compounds	Work practice standards	15A NCAC 2D .0958
Odorous emissions	Odorous emissions must be controlled; State enforceable only	15A NCAC 2D .1806

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

- a. Pursuant to 15A NCAC 2D .0958 and 2D .0902, 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 volatile organic compounds, or emit volatile organic compounds as a product of chemical reactions, and whose emissions of VOC are greater than 15 pounds per day; the Permittee shall:
 - i. Store all material, including waste material, containing volatile organic compounds 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 volatile organic compounds as soon as possible following proper safety procedures,
 - iii. Store wipe rags containing volatile organic compounds in closed containers,
 - iv. Not clean sponges, fabric, wood, paper products, and other absorbent materials with volatile organic compounds,
 - v. Transfer solvents containing volatile organic compounds 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 volatile organic compounds by adding cleaning solvent and close the vat or container before agitating the cleaning solvent. The spent cleaning solvent shall then be transferred into a closed container, a closed tank or a treatment facility regulated under section 402 of the Clean Water Act. [15A NCAC 2D .0958(c)]
- b. When cleaning parts with a solvent containing a volatile organic compound, the Permittee shall:
 - i. Flush parts in the freeboard area,
 - ii. Take precautions to reduce the pooling of solvent on and in the parts,
 - iii. Tilt or rotate parts to drain solvent and allow a minimum of 15 seconds for drying or until all dripping has stopped, whichever is longer,
 - iv. Not fill cleaning machines above the fill line,
 - v. Not agitate solvent to the point of causing splashing. [15A NCAC 2D .0958(d)]

Monitoring [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 volatile organic compounds. 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.

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

- 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 15A NCAC 2D .0958.

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

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

STATE-ENFORCEABLE ONLY

2. 15A NCAC 2D .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.

B: Process sources: **Plant 30 (Dry Form Lines - ID Nos. ES-8, ES-9, ES-10 and ES-27);**
Plant 40 (Line C - ID Nos. ES-4, ES-14 and ES-26);
Plant 42 (Line 8 - ID Nos. ES-12, ES-28, ES-16A and ES-16B);
Plant 44 (Line A - ID Nos. ES-13 and ES-17);
Plant M1 (Line A1 - ID Nos. ES-22 and ES-23);
Pilot Line 3 (ID Nos. ES-25A, ES-25B and ES-25C); and
Mixing Room (ID Nos. ES-15.1 through ES-15.9)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Toxic Air Pollutants	State enforceable only - Modeled emission rates	15A NCAC 2D .1100
	State enforceable only - Emission rates below TPERs	15A NCAC2Q .0705

STATE ENFORCEABLE ONLY

1. 15A NCAC 2D .1100: CONTROL OF TOXIC AIR POLLUTANTS

- a. Pursuant to 15A NCAC 2D .1100 and in accordance with the approved application for an air toxic compliance demonstration, the following emission rates shall not be exceeded:

Toxic Air Pollutant	CAS Number	Emission Sources	Emission Limits
Acetaldehyde	75-07-0	Plant 30 (ES-8, -9, -10 and -14A) Plant 40 (ES-4, -14B and -26) Plant 42 (ES-12, -13A, -16A and -16B) Plant 44 (ES-13B and -17) Plant M1 (ES-22 and -23) Pilot Line (ES-25A, -25B and -25C) Latex/binder tanks (ES-15.1 through ES-15.9)	4.75 pounds per hour 1.95 pounds per hour 1.95 pounds per hour 1.95 pounds per hour 1.95 pounds per hour 0.354 pounds per hour 0.001 pounds per hour
Acetic acid	64-19-7	Plant 30 (ES-8, -9, -10 and -14A) Plant 40 (ES-4, -14B and -26) Plant 42 (ES-12, -13A, -16A and -16B) Plant 44 (ES-13B and -17) Plant M1 (ES-22 and -23) Pilot Line (ES-25A, -25B and -25C)	25.7 pounds per hour 10.52 pounds per hour 10.52 pounds per hour 10.52 pounds per hour 1.91 pounds per hour 0.354 pounds per hour
Acrylonitrile	107-13-1	Plant 30 (ES-8, -9, -10 and -14A) Plant 40 (ES-4, -14B and -26) Plant 42 (ES-12, -13A, -16A and -16B) Plant 44 (ES-13B and -17) Plant M1 (ES-22 and -23) Pilot Line (ES-25A, -25B and -25C) Latex/binder tanks (ES-15.1 through ES-15.9)	827.8 pounds per year 338.1 pounds per year 338.1 pounds per year 338.1 pounds per year 338.1 pounds per year 61.5 pounds per year 0.0065 pounds per year
Ammonia	7664-41-7	Plant 30 (ES-8, -9, -10 and -14A) Plant 40 (ES-4, -14B and -26) Plant 42 (ES-12, -13A, -16A and -16B) Plant 44 (ES-13B and -17) Plant M1 (ES-22 and -23) Pilot Line (ES-25A, -25B and -25C) Latex/binder tanks (ES-15.1 through ES-15.9)	19.3 pounds per hour 7.9 pounds per hour 7.9 pounds per hour 7.9 pounds per hour 7.9 pounds per hour 1.43 pounds per hour 0.002 pounds per hour

Toxic Air Pollutant	CAS Number	Emission Sources	Emission Limits
Ethylene oxide	75-21-8	Plant 30 (ES-8, -9, -10 and -14A) Plant 40 (ES-4, -14B and -26) Plant 42 (ES-12, -13A, -16A and -16B) Plant 44 (ES-13B and -17) Plant M1 (ES-22 and -23) Pilot Line (ES-25A, -25B and -25C)	2.32 pounds per year 0.95 pounds per year 0.95 pounds per year 0.95 pounds per year 0.95 pounds per year 0.17 pounds per year
Formaldehyde	50-00-0	Plant 30 (ES-8, -9, -10 and -14A) Plant 40 (ES-4, -14B and -26) Plant 42 (ES-12, -13A, -16A and -16B) Plant 44 (ES-13B and -17) Plant M1 (ES-22 and -23) Pilot Line (ES-25A, -25B and -25C) Latex/binder tanks (ES-15.1 through ES-15.9)	4.75 pounds per hour 1.95 pounds per hour 1.95 pounds per hour 1.95 pounds per hour 1.95 pounds per hour 0.354 pounds per hour 0.001 pounds per hour
Styrene	100-42-5	Plant 30 (ES-8, -9, -10 and -14A) Plant 40 (ES-4, -14B and -26) Plant 42 (ES-12, -13A, -16A and -16B) Plant 44 (ES-13B and -17) Plant M1 (ES-22 and -23) Pilot Line (ES-25A, -25B and -25C)	9.5 pounds per hour 3.9 pounds per hour 3.9 pounds per hour 3.9 pounds per hour 3.9 pounds per hour 0.71 pounds per hour
Vinyl chloride	75-01-4	Plant 30 (ES-8, -9, -10 and -14A)	132.3 pounds per year

- b. To ensure compliance with the above process source limits, the following restrictions shall apply:
- The Permittee shall maintain records of the binders and finishing emulsions used and other process operational information as is necessary to demonstrate through material balance compliance with the air toxic emission limits specified above. Before introducing or testing new formulations which may contain varying amounts of the above listed toxic pollutants, the Permittee shall calculate the potential emissions. Records describing the new formulations and the calculated emissions shall be maintained to demonstrate compliance with the above limits.
 - Records (written or electronic form) shall be maintained for a minimum of two years from the date of recording. These records and calculations shall be made available to an authorized DAQ representative upon request. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1100 if these records are not maintained.
- c. The Permittee shall submit a summary of monitoring and recordkeeping activities described above within 30 days of a written request by the DAQ.

STATE ENFORCEABLE ONLY

2. 15A NCAC 2Q .0705 EXISTING SOURCES AND SIC CALLS for TOXIC AIR POLLUTANT EMISSIONS LIMITATION REQUIREMENT

- As of June 27, 2008 emissions of toxic air pollutants have been demonstrated on a facility-wide basis (excluding those sources exempt under 15A NCAC 2Q .0702 "Exemptions") that each of the toxic air pollutants (TAPs) emitted from all sources at the facility are either below its respective toxic permit emission rates (TPER) listed in 15A NCAC 2Q .0711 - "Emission Rates Requiring a Permit" or the TAPs are in compliance with 15A NCAC 2D .1100 "Control of Toxic Air Pollutants" as described in Section 2.2 B.1 of this permit, above.
- 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.
- 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".
- 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.

Toxic Air Pollutant (TAP)	CAS Number	TAP Permitting Emissions Rate(s)		
		Pounds per year	Pounds per day	Pounds per hour
Toluene	108-88-3	Not Applicable	98	14.4
Xylene	1330-20-7	Not Applicable	57	16.4

C. Three natural gas/Nos. 2 through 6 fuel oils-fired boilers (25, 25 and 48.1 million Btu per hour maximum heat input, ID Nos. B-1, B-2 and B-3, respectively);

One natural-gas/propane fired rotary drum dryer (ID No. ES-4); and

One natural-gas/propane-fired tenter frame (ID No. ES-22)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Sulfur dioxide	Less than 250 tons per consecutive 12-month period	15A NCAC 2Q .0317 to avoid 15A NCAC 2D .0530

**1. 15A NCAC 2Q .0317: AVOIDANCE CONDITIONS for
15A NCAC 2D .0530: PREVENTION OF SIGNIFICANT DETERIORATION**

- a. In order to avoid the applicability of 15A NCAC 2D .0530(g) for major sources and major modifications, facility-wide emissions of sulfur dioxide into the atmosphere shall be less than 250 tons per consecutive 12-month period. [15A NCAC 2D .0530]

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3 of this permit. If the results of this test are above the limits given in Section 2.2 C.1.a, above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.

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

- c. The Permittee shall maintain monthly records of the amount of fuel oil, natural gas and propane burned in a logbook (written or electronic format). The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the amount of fuel oil, natural gas and propane burned is not monitored and recorded.
- d. To assure compliance, the Permittee shall monitor the sulfur content of the No. 4, No. 5 and No. 6 fuel oil by using fuel oil supplier certification per shipment received. The results of the fuel oil supplier certifications shall be recorded in a logbook (written or electronic format) on a monthly basis and include the following information:
 - i. The name of the fuel oil supplier;
 - ii. The maximum sulfur content of the fuel oil received during the quarter;
 - iii. The method used to determine the maximum sulfur content of the fuel oil; and
 - iv. A certified statement signed by the responsible official that the records of fuel oil supplier certification submitted represent all of the No. 4, No. 5 and No. 6 fuel oil fired during the period.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the sulfur content of the No. 4, No. 5 and No. 6 fuel oil is not monitored and recorded.

- e. The use of fuel oil, natural gas and propane in the combustion sources at this facility shall be limited such that sulfur dioxide emissions shall not exceed 250 tons for any consecutive 12-month period. Calculations shall be made monthly and recorded in a logbook (written or electronic format), according to the following formula:

$$SO_2 = \{[A \times 0.6] + [B \times 0.00001] + [C \times S_1 \times 0.142] + [D \times S_2 \times 0.150] + [E \times S_3 \times 0.157]\} \div 2,000$$

Where: SO₂ = Emissions of sulfur dioxide in units of tons

- A = Amount of natural gas combusted in units of million cubic feet
- B = Amount of propane combusted in units of gallons
- C = Amount of distillate (i.e. No. 2) fuel oil combusted in units of gallons
- S₁ = Percent by weight of sulfur in the distillate (i.e. No. 2) fuel oil combusted
- D = Amount of No. 4 fuel oil combusted in units of gallons
- S₂ = Percent by weight of sulfur in the No. 4 fuel oil combusted
- E = Amount of Nos. 5 and 6 fuel oil combusted in units of gallons
- S₃ = Percent by weight of sulfur in the Nos. 5 and 6 fuel oil combusted

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the above records and calculations are not maintained or if the sulfur dioxide emissions exceed the limit in Section 2.2 C.1.a, above.

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

- f. The Permittee shall submit a semi-annual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December, and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following:
 - i. The monthly sulfur dioxide emissions for the previous 17 months. The emissions must be calculated for each of the consecutive 12-month periods over the previous 17 months;
 - ii. The monthly quantities of fuel oil consumed for the previous 17 months; and
 - iii. The average sulfur content of the No. 4, No. 5 and No. 6 fuel oil consumed during the reporting period.

- D. Process sources:** **Plant 30 (Dry Form Lines - ID Nos. ES-8, ES-9, ES-10 and ES-27);**
Plant 40 (Line C - ID Nos. ES-4, ES-14 and ES-26);
Plant 42 (Line 8 - ID Nos. ES-12, ES-28, ES-16A and ES-16B);
Plant 44 (Line A - ID Nos. ES-13 and ES-17);
Plant M1 (Line A1 - ID Nos. ES-22 and ES-23);
Pilot Line 3 (ID Nos. ES-25A, ES-25B and ES-25C); and
Nine latex/binder bulk storage tanks (ID Nos. ES-15.1 through ES-15.9) in the mixing room

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Hazardous air pollutants	Maximum achievable control technology	15A NCAC 2D .1111 40 CFR Part 63, Subpart OOOO

1. 15A NCAC 2D .1111: MAXIMUM ACHEIVABLE CONTROL TECHNOLOGY
40 CFR Part 63, Subpart OOOO: National Emission Standards for Hazardous Air Pollutants: Printing, Coating, and Dyeing of Fabrics and Other Textiles

Applicability [40 CFR §63.4281 and §63.4371]

- a. Permittee shall comply with all requirements of 15A NCAC 2D .1111 “Maximum Achievable Control Technology” and 40 CFR Part 63, Subpart OOOO “National Emission Standards for Hazardous Air Pollutants: Printing, Coating, and Dyeing of Fabrics and Other Textiles” [40 CFR, §63.4280 et. seq., “Subpart OOOO”]. The Permittee performs only dyeing and finishing operations.

Emission Standard [40 CFR §63.4290]

- b. The Permittee is required to limit organic HAP emissions to the atmosphere from dyeing and finishing operations at this facility to less than or equal to 0.016 kg of organic HAP per kg of dyeing and finishing materials applied.

Affected Sources [40 CFR §63.4282(d)]

- c. The affected source is the collection of all items described below that are used in dyeing and finishing operations:
 - i. All dyeing and finishing equipment used to apply dyeing or finishing materials, to fix dyeing materials to the substrate, to rinse the textile substrate, or to dry or cure the dyeing or finishing materials;
 - ii. All containers used for storage and vessels used for mixing dyeing or finishing materials;
 - iii. All equipment and containers used for conveying dyeing or finishing materials;
 - iv. All containers used for storage, and all equipment and containers used for conveying, waste materials generated by a dyeing or finishing operation; and
 - v. All equipment, structures, and/or devices(s) used to convey, treat, or dispose of wastewater streams or residuals generated by a dyeing or finishing operation.

Compliance Options [40 CFR §63.4291(c), §63.4311, §63.4312 and §63.4332]

- d. The Permittee’s current compliance option choice is emission rate without add-on controls. The Permittee may switch compliance options for their operations at any time as long as the Permittee fulfills the permitting requirements of 15A NCAC 2Q and the recordkeeping and reporting requirements of conditions 2.2 D.1.f.iii.(A), 2.2 D.1.g and 2.2 D.1.h.i.(A), below.

Compliance Demonstration [40 CFR §63.4301, §63.4311, §63.4312, §63.4313, §63.4331 and §63.4332]

e. The Permittee is considered in compliance with Subpart OOOO and condition 2.2 D.1 if all of the following requirements are met:

- i. The Permittee is in compliance with the applicable parts of the General Provisions of 40 CFR Part 63 (i.e. §63.1 through §63.15) [refer to Table 3 of Subpart OOOO in §63.4301];
- ii. The Permittee demonstrates that the organic HAP emissions from dyeing and finishing operations at this facility are less than or equal to the applicable emission standard of §63.4290 and condition 2.2 D.1.b., above. The Permittee must make this demonstration monthly for each compliance period. A compliance period consists of that month and the preceding 11 months. The Permittee shall make the demonstration as follows:

(A) Determine the mass fraction of organic HAP for each regulated material utilized in the dyeing and finishing operations via the methods allowed in §63.4321(e)(1)(iv) [i.e. via test methods or appropriate information from the material manufacturer or supplier];

(B) Determine the mass of each dyeing and finishing material applied by measurement or usage records;

(C) Calculate the mass of organic HAP emissions utilizing equation 4 of §63.4331(b)(3) [repeated below]:

$$H_e = A - R_w - WW \quad (\text{Equation 4})$$

Where: H_e = Mass of organic HAP emissions during the compliance period, kg.

A = Total mass of organic HAP in the dyeing and finishing materials applied, kg, as calculated in Equation 4A of §63.4331(b)(3)(i) [repeated below]:

$$A = \sum_{i=1}^m (M_{c,i})(W_{c,i}) \quad (\text{Equation 4A})$$

Where: $M_{c,i}$ = Mass of dyeing or finishing material, i , applied during the compliance period, kg.

$W_{c,i}$ = Mass fraction of organic HAP in dyeing or finishing material, i , kg organic HAP per kg of material.

m = Number of dyeing and finishing materials applied during the compliance period.

R_w = Total mass of organic HAP in waste materials sent or designated for shipment to a hazardous waste treatment, storage, and disposal facility (TSDF) for treatment or disposal, kg, determined according to §63.4331(b)(3)(ii); or

= 0, if the Permittee does not wish to use this allowance.

WW = Total mass of organic HAP in wastewater discharged to a publicly owned treatment works (POTW) or receiving onsite secondary treatment, kg, determined according to §63.4331(b)(3)(iii) and §63.4331(c); or

= 0, if the Permittee does not wish to use this allowance.

(D) Calculate the total mass of dyeing and finishing material applied utilizing equation 5 of §63.4331(b)(4) [repeated below]:

$$M_t = \sum_{i=1}^m (M_{c,i}) \quad (\text{Equation 5})$$

Where: M_t = Total mass of dyeing and finishing materials applied, kg.

$M_{c,i}$ = Mass of dyeing or finishing material, i , applied, kg.

m = Number of dyeing and finishing materials applied.

The calculations of Equation 5 must be made on each regulated dyeing and finishing material in the condition it is in when it is received from its manufacturer or supplier and prior to any alteration. Water added in mixing at the affected source is not a regulated material and should not be included in the determination of the total mass of dyeing and finishing materials applied; and

(E) Calculate the organic HAP emission rate, kg organic HAP emitted per kg dyeing and finishing material

applied, utilizing equation 6 of §63.4331(b)(5) [repeated below]:

$$H_{yr} = \frac{H_e}{M_t} \quad (\text{Equation 6})$$

Where: H_{yr} = The organic HAP emission rate, kg of organic HAP emitted per kg of dyeing and finishing materials applied.

H_e = Total mass of organic HAP emissions, kg, as calculated by Equation 4 of §63.4331(b)(3) and condition 2.2 D.1.e.ii.(C), above.

M_t = Total mass of dyeing and finishing materials applied during the compliance period, kg, as calculated by Equation 5 of §63.4331(b)(4) and condition 2.2 D.1.e.ii.(D), above.

iii. The Permittee complies with the recordkeeping requirements of §63.4312, §63.4313, §63.4332 and conditions 2.2 D.1.f and 2.2 D.1.g, below; and;

iv. The Permittee complies with the reporting requirements of §63.4311, §63.4332 and condition 2.2 D.1.h, below.

Recordkeeping [40 CFR §63.4312, §63.4313, §63.4332 and 15A NCAC 2Q .0508(f)]

f. The Permittee must maintain the following records:

i. A copy of each notification and report required by Subpart OOOO and their supporting documentation;

ii. A current copy of information provided by materials suppliers or manufacturers (e.g. formulation or test data) used to determine the mass fraction of organic HAP for materials regulated under Subpart OOOO;

iii. For each compliance period:

(A) A record of each compliance option applied to the dyeing and finishing operations and the beginning and end dates of application of each compliance option;

(B) The name and mass of each regulated material applied in the dyeing and finishing operations;

(C) The mass fraction of organic HAP for each regulated material applied;

(D) The information required by §63.4312(g) if credit is taken for organic HAP in waste materials sent to a TSD (as allowed under §63.4331(b)(3)(ii) and condition 2.2 D.1.e.ii.(C), above);

(E) The information required by §63.4312(h) if credit is taken for organic HAP in wastewater sent to a POTW (as allowed under §63.4331(b)(3)(iii) and condition 2.2 D.1.e.ii.(C), above);

(F) A record of the calculations required in §63.4331(b) and condition 2.2 D.1.e.ii, above; and

iv. The date, time and duration of any deviation(s).

Records Retention [40 CFR §63.4313, §63.4332 and 15A NCAC 2Q .0508(f)]

g. The Permittee must meet the following records retention requirements:

i. The Permittee must maintain the records required by Subpart OOOO for at least 5 years in written or electronic (where appropriate) form; and

ii. The Permittee must maintain the records required by Subpart OOOO onsite for at least the first 2 years after creating those records.

Reporting Requirements [40 CFR §63.4311, §63.4332 and 15A NCAC 2Q .0508(f)]

h. The Permittee must comply with the following reporting requirements:

i. The Permittee must submit semiannual compliance reports for the affected source that include the following:

(A) The compliance option(s) utilized during the reporting period (and the beginning/ending dates of application of each compliance option);

(B) The results of calculations required by 40 CFR Part 63, Subpart OOOO and condition 2.2 D.1.e, above, for each compliance period ending during the reporting period; and

(C) A statement that there were no deviations from the emission limits during the reporting period, because the organic HAP emission rate for each compliance period ending during the reporting period was less than or equal to the applicable emission limit in §63.4290 and condition 2.2 D.1.b, above, if applicable; or

(D) A statement that there were deviations from the applicable emission limit in §63.4290 and condition 2.2 D.1.b., above, during the reporting period, if applicable, with the following:

- (1) The beginning and ending dates of each compliance period ending during the reporting period during which the organic HAP emission rate exceeded the applicable limit;
 - (2) The calculations used to determine the organic HAP emission rate for the compliance period in which the deviation occurred; and
 - (3) A statement of the cause of each deviation.
- ii. The Permittee shall submit a semi-annual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December, and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

SECTION 3 - GENERAL CONDITIONS

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

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

1. Terms not otherwise defined in this permit shall have the meaning assigned to such terms as defined in 15A NCAC 2D and 2Q.
2. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are binding and enforceable pursuant to NCGS 143-215.114A and 143-215.114B, including assessment of civil and/or criminal penalties. Any unauthorized deviation from the conditions of this permit may constitute grounds for revocation and/or enforcement action by the DAQ.
3. This permit is not a waiver of or approval of any other Department permits that may be required for other aspects of the facility which are not addressed in this permit.
4. This permit does not relieve the Permittee from liability for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted facility, or from penalties therefore, nor does it allow the Permittee to cause pollution in contravention of state laws or rules, unless specifically authorized by an order from the North Carolina Environmental Management Commission.
5. Except as identified as state-only requirements in this permit, all terms and conditions contained herein shall be enforceable by the DAQ, the EPA, and citizens of the United States as defined in the Federal Clean Air Act.
6. Any stationary source of air pollution shall not be operated, maintained, or modified without the appropriate and valid permits issued by the DAQ, unless the source is exempted by rule. The DAQ may issue a permit only after it receives reasonable assurance that the installation will not cause air pollution in violation of any of the applicable requirements. A permitted installation may only be operated, maintained, constructed, expanded, or modified in a manner that is consistent with the terms of this permit.

B. **Permit Availability** [15A NCAC 2Q .0507(k) and .0508(i)(9)(B)]

The Permittee shall have available at the facility a copy of this permit and shall retain for the duration of the permit term one complete copy of the application and any information submitted in support of the application package. The permit and application shall be made available to an authorized representative of Department of Environment and Natural Resources upon request.

C. **Severability Clause** [15A NCAC 2Q .0508(i)(2)]

In the event of an administrative challenge to a final and binding permit in which a condition is held to be invalid, the provisions in this permit are severable so that all requirements contained in the permit, except those held to be invalid, shall remain valid and must be complied with.

D. **Submissions** [15A NCAC 2Q .0507(e) and 2Q .0508(i)(16)]

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

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

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

The Permittee shall comply with all terms, conditions, requirements, limitations and restrictions set forth in this permit. Noncompliance with any permit condition except conditions identified as state-only requirements constitutes a violation of the Federal Clean Air Act. Noncompliance with any permit condition is grounds for enforcement action, for permit termination, revocation and reissuance, or modification, or for denial of a permit renewal application.

F. **Circumvention** - STATE ENFORCEABLE ONLY

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

G. Permit Modifications

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

H. Changes Not Requiring Permit Modifications

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

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

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

“Excess Emissions” - means an emission rate that exceeds any applicable emission limitation or standard allowed by any rule in Sections .0500, .0900, .1200, or .1400 of Subchapter 2D; or by a permit condition; or that exceeds an emission limit established in a permit issued under 15A NCAC 2Q .0700. (*Note: Definitions of excess emissions under 2D .1110 and 2D .1111 shall apply where defined by rule.*)

“Deviations” - for the purposes of this condition, any action or condition not in accordance with the terms and conditions of this permit including those attributable to upset conditions as well as excess emissions as defined above lasting less than four hours.

Excess Emissions

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

Permit Deviations

3. Pursuant to 15A NCAC 2Q .0508(f)(2), the Permittee shall report deviations from permit requirements (terms and conditions) as follows:
 - a. Notify the Regional Supervisor or Director of all other deviations from permit requirements not covered under 15A NCAC 2D .0535 quarterly. A written report to the Regional Supervisor shall include the probable cause of such deviation and any corrective actions or preventative actions taken. The responsible official shall certify all deviations from permit requirements.

I.B. Other Requirements under 15A NCAC 2D .0535

The Permittee shall comply with all other applicable requirements contained in 15A NCAC 2D .0535, including 15A NCAC 2D .0535(c) as follows:

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

J. Emergency Provisions [40 CFR 70.6(g)]

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

1. An emergency means any situation arising from sudden and reasonably unforeseeable events beyond the control of the facility, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by

improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.

2. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions specified in 3. below are met.
3. The affirmative defense of emergency shall be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that include information as follows:
 - a. an emergency occurred and the Permittee can identify the cause(s) of the emergency;
 - b. the permitted facility was at the time being properly operated;
 - c. during the period of the emergency the Permittee took all reasonable steps to minimize levels of emissions that exceeded the standards or other requirements in the permit; and
 - d. the Permittee submitted notice of the emergency to the DAQ within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
4. In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
5. This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein.

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

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

L. **Need to Halt or Reduce Activity Not a Defense** [15A NCAC 2Q .0508(i)(4)]

It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

M. **Duty to Provide Information (submittal of information)** [15A NCAC 2Q .0508(i)(9)]

1. The Permittee shall furnish to the DAQ, in a timely manner, any reasonable information that the Director may request in **writing** to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit.
2. The Permittee shall furnish the DAQ copies of records required to be kept by the permit when such copies are requested by the Director. For information claimed to be confidential, the Permittee may furnish such records directly to the EPA upon request along with a claim of confidentiality.

N. **Duty to Supplement** [15A NCAC 2Q .0507(f)]

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

O. **Retention of Records** [15A NCAC 2Q .0508(f) and 2Q .0508 (l)]

The Permittee shall retain records of all required monitoring data and supporting information for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Supporting information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring information, and copies of all reports required by the permit. These records shall be maintained in a form suitable and readily available for expeditious inspection and review. Any records required by the conditions of this permit shall be kept on site and made available to DAQ personnel for inspection upon request.

P. **Compliance Certification** [15A NCAC 2Q .0508(n)]

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

regardless of who owned the facility during the year. The compliance certification shall comply with additional requirements as may be specified under Sections 114(a)(3) or 504(b) of the Federal Clean Air Act. The compliance certification shall specify:

1. the identification of each term or condition of the permit that is the basis of the certification;
2. the compliance status (with the terms and conditions of the permit for the period covered by the certification);
3. whether compliance was continuous or intermittent; and
4. the method(s) used for determining the compliance status of the source during the certification period.

Q. **Certification by Responsible Official** [15A NCAC 2Q .0520]

A responsible official shall certify the truth, accuracy, and completeness of any application form, report, or compliance certification required by this permit. All certifications shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

R. **Permit Shield for Applicable Requirements** [15A NCAC 2Q .0512]

1. Compliance with the terms and conditions of this permit shall be deemed compliance with applicable requirements, where such applicable requirements are included and specifically identified in the permit as of the date of permit issuance.
2. A permit shield shall not alter or affect:
 - a. the power of the Commission, Secretary of the Department, or Governor under NCGS 143-215.3(a)(12), or EPA under Section 303 of the Federal Clean Air Act;
 - b. the liability of an owner or operator of a facility for any violation of applicable requirements prior to the effective date of the permit or at the time of permit issuance;
 - c. the applicable requirements under Title IV; or
 - d. the ability of the Director or the EPA under Section 114 of the Federal Clean Air Act to obtain information to determine compliance of the facility with its permit.
3. A permit shield does not apply to any change made at a facility that does not require a permit or permit revision made under 15A NCAC 2Q .0523.
4. A permit shield does not extend to minor permit modifications made under 15A NCAC 2Q .0515.

S. **Termination, Modification, and Revocation of the Permit** [15A NCAC 2Q .0519]

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

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

T. **Insignificant Activities** [15A NCAC 2Q .0503]

Because an emission source or activity is insignificant does not mean that the emission source or activity is exempted from any applicable requirement or that the owner or operator of the source is exempted from demonstrating compliance with any applicable requirement. The Permittee shall have available at the facility at all times and made available to an authorized representative upon request, documentation, including calculations, if necessary, to demonstrate that an emission source or activity is insignificant.

U. **Property Rights** [15A NCAC 2Q .0508(i)(8)]

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

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

1. Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow the DAQ, or an authorized representative, to perform the following:
 - a. enter the Permittee's premises where the permitted facility is located or emissions-related activity is conducted, or where records are kept under the conditions of the permit;
 - b. have access to and copy, at reasonable times, any records that are required to be kept under the conditions of the

permit;

- c. inspect at reasonable times and using reasonable safety practices any source, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
- d. sample or monitor substances or parameters, using reasonable safety practices, for the purpose of assuring compliance with the permit or applicable requirements at reasonable times.

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

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

W. **Annual Fee Payment** [15A NCAC 2Q .0508(i)(10)]

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

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

The Permittee shall report by June 30 of each year the actual emissions of each air pollutant listed in 15A NCAC 2Q .0207(a) from each emission source within the facility during the previous calendar year. The report shall be in or on such form as may be established by the Director. The accuracy of the report shall be certified by a responsible official of the facility.

Y. **Confidential Information** [15A NCAC 2Q .0107 and 2Q. 0508(i)(9)]

Whenever the Permittee submits information under a claim of confidentiality pursuant to 15A NCAC 2Q .0107, the Permittee may also submit a copy of all such information and claim directly to the EPA upon request. All requests for confidentiality must be in accordance with 15A NCAC 2Q .0107.

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

A construction and operating permit shall be obtained by the Permittee for any proposed new or modified facility or emission source which is not exempted from having a permit prior to the beginning of construction or modification, in accordance with all applicable provisions of 15A NCAC 2Q .0100 and .0300.

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

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

BB. **Financial Responsibility and Compliance History** [15A NCAC 2Q .0507(d)(3)]

The DAQ may require an applicant to submit a statement of financial qualifications and/or a statement of substantial compliance history.

CC. **Refrigerant Requirements (Stratospheric Ozone and Climate Protection)** [15A NCAC 2Q .0501(e)]

1. If the Permittee has appliances or refrigeration equipment, including air conditioning equipment, which use Class I or II ozone-depleting substances such as chlorofluorocarbons and hydrochlorofluorocarbons listed as refrigerants in 40 CFR Part 82 Subpart A Appendices A and B, the Permittee shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82 Subpart F.
2. The Permittee shall not knowingly vent or otherwise release any Class I or II substance into the environment during the repair, servicing, maintenance, or disposal of any such device except as provided in 40 CFR Part 82 Subpart F.
3. The Permittee shall comply with all reporting and recordkeeping requirements of 40 CFR, 82.166. Reports shall be submitted to the EPA or its designee as required.

DD. **Prevention of Accidental Releases - Section 112(r)** [15A NCAC 2Q .0508(h)]

If the Permittee is required to develop and register a Risk Management Plan with EPA pursuant to Section 112(r) of the Clean Air Act, then the Permittee is required to register this plan in accordance with 40 CFR Part 68.

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

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

FF. **Title IV Allowances** [15A NCAC 2Q .0508(i)(1)]

This permit does not limit the number of Title IV allowances held by the Permittee, but the Permittee may not use allowances as a defense to noncompliance with any other applicable requirement. The Permittee's emissions may not exceed any allowances that the facility lawfully holds under Title IV of the Federal Clean Air Act.

GG. **Air Pollution Emergency Episode** [15A NCAC 2D .0300]

Should the Director of the DAQ declare an Air Pollution Emergency Episode, the Permittee will be required to operate in accordance with the Permittee's previously approved Emission Reduction Plan or, in the absence of an approved plan, with the appropriate requirements specified in 15A NCAC 2D .0300.

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

The Director of the DAQ may require the Permittee to register a source of air pollution. If the Permittee is required to register a source of air pollution, this registration and required information will be in accordance with 15A NCAC 2D .0202(b).

II. **Ambient Air Quality Standards** [15A NCAC 2D .0501(e)]

In addition to any control or manner of operation necessary to meet emission standards specified in this permit, any source of air pollution shall be operated with such control or in such manner that the source shall not cause the ambient air quality standards in 15A NCAC 2D .0400 to be exceeded at any point beyond the premises on which the source is located. When controls more stringent than named in the applicable emission standards in this permit are required to prevent violation of the ambient air quality standards or are required to create an offset, the permit shall contain a condition requiring these controls.

JJ. **General Emissions Testing and Reporting Requirements** [15A NCAC 2Q .0508(i)(16)]

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

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

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

1. A permit shall be reopened and revised under the following circumstances:
 - a. additional applicable requirements become applicable to a facility with remaining permit term of three or more years;
 - b. additional requirements (including excess emission requirements) become applicable to a source covered by Title IV;
 - c. the Director or EPA finds that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; or
 - d. the Director or EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
2. Any permit reopening shall be completed or a revised permit issued within 18 months after the applicable requirement is promulgated. No reopening is required if the effective date of the requirement is after the expiration of the permit term unless the term of the permit was extended pursuant to 15A NCAC 2Q .0513(c).
3. Except for the state-enforceable only portion of the permit, the procedures set out in 15A NCAC 2Q .0507, .0521, or .0522 shall be followed to reissue the permit. If the State-enforceable only portion of the permit is reopened, the procedures in 15A NCAC 2Q .0300 shall be followed. The proceedings shall affect only those parts of the permit for which cause to reopen exists.
4. The Director shall notify the Permittee at least 60 days in advance of the date that the permit is to be reopened, except in cases of imminent threat to public health or safety the notification period may be less than 60 days.
5. Within 90 days, or 180 days if the EPA extends the response period, after receiving notification from the EPA that a permit needs to be terminated, modified, or revoked and reissued, the Director shall send to the EPA a proposed determination of termination, modification, or revocation and reissuance, as appropriate.

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

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

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

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

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

1. For modifications made pursuant to 15A NCAC 2Q .0501(c)(2), the Permittee shall file a Title V Air Quality Permit Application for the air emission source(s) and associated air pollution control device(s) on or before 12 months after commencing operation.
2. For modifications made pursuant to 15A NCAC 2Q .0501(d)(2), the Permittee shall not begin operation of the air emission source(s) and associated air pollution control device(s) until a Title V Air Quality Permit Application is filed and a construction and operation permit following the procedures of Section .0500 (except for Rule .0504 of this Section) is obtained.
3. For modifications made pursuant to 502(b)(10), in accordance with 15A NCAC 2Q .0523(a)(1)(C), the Permittee shall notify the Director and EPA (EPA - Air Planning Branch, 61 Forsyth St., Atlanta, GA 30303) in writing at least seven days before the change is made. The written notification shall include:
 - a. a description of the change at the facility;
 - b. the date on which the change will occur;
 - c. any change in emissions; and
 - d. any permit term or condition that is no longer applicable as a result of the change.

In addition to this notification requirement, with the next significant modification or Air Quality Permit renewal, the Permittee shall submit a page "E5" of the application forms signed by the responsible official verifying that the application for the 502(b)(10) change/modification, is true, accurate, and complete. Further note that modifications made pursuant to 502(b)(10) do not relieve the Permittee from satisfying preconstruction requirements.

ATTACHMENT 3 to Permit No. 03422T23

List of Acronyms

AOS	Alternate Operating Scenario
BACT	Best Available Control Technology
Btu	British thermal unit
CEM	Continuous Emission Monitor
CFR	Code of Federal Regulations
CAA	Clean Air Act
DAQ	Division of Air Quality
DENR	Department of Environment and Natural Resources
EMC	Environmental Management Commission
EPA	Environmental Protection Agency
FR	Federal Register
GACT	Generally Available Control Technology
HAP	Hazardous Air Pollutant
MACT	Maximum Achievable Control Technology
NCAC	North Carolina Administrative Code
NCGS	North Carolina General Statutes
NESHAPS	National Emission Standards for Hazardous 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
SIC	Standard Industrial Classification
SIP	State Implementation Plan
SO₂	Sulfur Dioxide
tpy	Tons Per Year
VOC	Volatile Organic Compound