



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

Beverly Eaves Perdue
Governor

B. Keith Overcash, P.E.
Director

Dee Freeman
Secretary

June 2, 2010

Mr. W. Terry Dickey
President
Marsh Furniture Company
P.O. Box 870
High Point, North Carolina 27260

SUBJECT: **Air Quality Permit No. 03238T20**
Facility ID: 4100854
Marsh Furniture Company
High Point, North Carolina
Guilford County
Fee Class: Title V

Dear Mr. Dickey:

In accordance with your completed Air Quality Permit Application for **significant modification** of your Title V permit received **September 14, 2009**, we are forwarding herewith Air Quality Permit No. 03238T20 to Marsh Furniture Company, 1001 South Centennial Street, High Point, 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 conditions 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

Permitting Section

1641 Mail Service Center, Raleigh, North Carolina 27699-1641
2728 Capital Blvd., Raleigh, North Carolina 27604
Phone: 919-715-6235 / FAX 919-733-5317 / Internet: www.ncair.org

One
North Carolina
Naturally

Mr. W. Terry Dickey

June 2, 2010

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Air Quality, Permitting Section, 1641 Mail Service Center, Raleigh, North Carolina 27699-1641. The form for requesting a formal adjudicatory hearing may be obtained upon request from the Office of Administrative Hearings. Please note that this permit will be stayed in its entirety upon receipt of the request for a hearing. Unless a request for a hearing is made pursuant to NCGS 150B-23, this Air Quality Permit shall be final and binding 30 days after issuance.

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

The construction of new air pollution emission source(s) and associated air pollution control device(s), or modifications to the emission source(s) and air pollution control device(s) described in this permit must be covered under an Air Quality Permit issued by the Division of Air Quality prior to construction unless the Permittee has fulfilled the requirements of GS 143-215-108A(b) and received written approval from the Director of the Division of Air Quality to commence construction. Failure to receive an Air Quality Permit or written approval prior to commencing construction is a violation of GS 143-215.108A and may subject the Permittee to civil or criminal penalties as described in GS 143-215.114A and 143-215.114B.

This Air Quality Permit shall be effective from June 2, 2010 until February 28, 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 Jenny Kelvington, P.E., at (919) 715-6254.

Sincerely yours,

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

Enclosure

cc: Gregg Worley, EPA Region 4 with review
Winston-Salem Regional Office
Central Files

ATTACHMENT

Insignificant Activities under 15A NCAC 2Q .0503(8) under Permit No. 03238T20

Emission Source ID	Emission Source Description
I-Distillation	Distillation system for recovery and reuse of non-HAPs thinners in finishing room
I-NVLO	One temporary veneer laminating operation utilizing hand held applicator and pinch roller
I-C-1	Cleanup operations (located at all assembly locations; wipe rags and naphtha)
I-MO	Maintenance operations (welding, fabricating and maintenance activities)
I-TUO	Touchup and repair operations (located at all assembly locations)

ATTACHMENT

The following table lists all modifications associated with this permit action:

Page(s)	Section	Description of Change(s)
Attachment	Insignificant Activities List	Amend permit revision number
Cover		Amend permit revision number and dates
2	Table of Contents	Remove Part I and Part II titles
All	Page Headers	Amend permit revision number
6	Section 1, List of Affected Sources	Add Case-by-Case MACT designation to the affected boiler
9, 11, 12, 16-19	Sections 2.1.A.2.b & c.ii; 2.1.B.2.b & c.ii; 2.1.C.1.c; 2.1.C.2.b & c.ii; 2.1.D.1.c; 2.1.D.2.b; and 2.1.D.3.b & c.ii	
17	Section 2.1.D	Add 15A NCAC 2D .1109; Case-by-Case MACT requirements to the table.
20-22	Section 2.1.D.4	Add 15A NCAC 2D .1109; Case-by-Case MACT requirements
31-42	Section 3	Update General Conditions to be consistent with the most recent version (v3.1)

State of North Carolina
Department of Environment
and Natural Resources



Division of Air Quality

AIR QUALITY PERMIT

Permit No.	Replaces Permit No.(s)	Effective Date	Expiration Date
03238T20	03238T19	June 2, 2010	February 28, 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: **Marsh Furniture Company**

Facility ID: 4100854

Facility Site Location: 1001 South Centennial Street
City, County, State, Zip: High Point, Guilford County, North Carolina 27260
Mailing Address: P.O. Box 870
City, State, Zip: High Point, North Carolina 27260

Application Number: 4100854.09A
Complete Application Date: September 14, 2009

Primary SIC Codes: 2434

Division of Air Quality,
Regional Office Address: Winston-Salem Regional Office
585 Woughtown Street
Winston-Salem, North Carolina 27107

Permit issued this the Xth day of June, 2010

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

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(Including specific requirements, testing, monitoring, record keeping, and reporting requirements)

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(Including specific requirements, testing, monitoring, record keeping, and reporting requirements)

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ATTACHMENT

List of Acronyms

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

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

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
New Hanging Line No. 1 including: (Building Three, Former Whitewood Warehouse)			
NHL1S (PSD, MACT Subpart JJ)	Stage 1 – Two stain booths (Nos. Stage1.1 and Stage1.2)	NA	NA
	Stage 2 – Two stain booths (Nos. Stage2.1 and Stage2.2)	NA	NA
	Stage 3 – Two stain booths (Nos. Stage3.1 and Stage3.2)	NA	NA
	Stage 4 – Two sealer booths (Nos. Stage4.1 and Stage4.2)	NA	NA
	Stage 5 – Two topcoat booths (Nos. Stage5.1 and Stage5.2)	NA	NA
	Stage 6 – Two stain/sealer/glaze/topcoat booths (Nos. Stage6.1 and Stage6.2)	NA	NA
	One paint spray booth fitted with high volume low pressure (HVLP) guns (No. NHL-4A)	NA	NA
	One paint spray booth fitted with high volume low pressure (HVLP) guns (No. SB-R1)	NA	NA
	Five natural gas-fired ovens (four at 0.5 and one at 0.8 million Btu per hour maximum heat input capacity; Nos. Oven.1 through Oven.5)	NA	NA
	Three natural gas-fired process air makeup units (3.4 million Btu per hour maximum heat input capacity each; Nos. Makeup-1, Makeup-2, and Makeup-3)	NA	NA
One washoff tank (No. ESWO1)	NA	NA	
New Hanging Line No. 2 including: (Building Five, Third Floor, Existing Finishing Room)			
NHL2S (PSD, MACT Subpart JJ)	Stage 2 – Two stain booths (Nos. Stage2.1 and Stage2.2)	NA	NA
	Stage 3 – Two stain booths (Nos. Stage3.1 and Stage3.2)	NA	NA
	Stage 4 – Two sealer booths (Nos. Stage4.1 and Stage4.2)	NA	NA
	Stage 5 – Two topcoat booths (Nos. Stage5.1 and Stage5.2)	NA	NA
	Stage 6 – Two stain/sealer/glaze/topcoat booths (Nos. Stage6.1 and Stage6.2)	NA	NA
	Three natural gas-fired process air makeup units (3.4 million Btu per hour maximum heat input capacity, each; Nos. Makeup-1, Makeup-2, and Makeup-3)	NA	NA

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
Glaze Line No. 2 (Building Five, Third Floor, Existing Finishing Room)			
GL-NHL2S-1	One baffle type paint spray hanging line fitted with a reciprocator and high volume low pressure (HVLP) guns	NA	NA
New Flat Line No. 1 (Building Two, Third Floor, Former Roller Room)			
NFLS1 (PSD, MACT Subpart JJ)	Stage 1 – Five roll coaters (Nos. Stage1.1 through Stage1.5)	NA	NA
	Stage 6 – Two back to back topcoat spray booths (Nos. Stage6.1 and Stage6.2)	NA	NA
	Stage 7 – Six UV sealer/topcoat roll coaters (Nos. Stage7.1 through Stage7.6)	NA	NA
	Five steam-heated drying ovens (Nos. Oven.1 through Oven.5)	NA	NA
	Three natural gas-fired process air makeup units (3.4 million Btu per hour maximum heat input capacity each; Nos. Makeup-1, Makeup-2, and Makeup-3)	NA	NA
New Flat Line No. 4 (Building Five, Third Floor, Existing Finishing Room)			
NFLS4 (PSD, MACT Subpart JJ)	Stage 1 – One baffle type spray booth (No. Stage1)	NA	NA
	Stage 2 - One baffle type spray booth (No. Stage2)	NA	NA
	Stage 3 - One baffle type stain booth (No. Stage3)		
	Four roll coaters utilizing products that do not contain volatile organic compounds (Nos. UVRC1 through UVRC4)	NA	NA
	Four ultraviolet light drying ovens (Nos. UVDO1 through UVDO4)	NA	NA
	Stage 6 – One baffle type spray booth fitted with a reciprocator (No. Stage6)	NA	NA
	One natural gas-fired three zone drying oven (0.5, 0.5, and 0.8 million Btu per hour maximum heat input capacities; No. Oven.6)	NA	NA
Existing (Old) Flat Line No. 1 (Building Five, Third Floor)			
EFL1 (PSD, MACT Subpart JJ)	Two baffle type stain spray booths (Nos. SB1 and SB2)	NA	NA
	One baffle type sealer spray booth (No. SB3)	NA	NA
	One baffle type varnish spray booth (No. SB4)	NA	NA
	Four steam-heated drying ovens (Nos. DO1 through DO4)	NA	NA
Existing (Old) Flat Line No. 3 (Building Five, Third Floor)			
EFL3	One baffle type stain spray booth (No. SB8)	NA	NA

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
(PSD, MACT Subpart JJ)	One baffle type sealer spray booth (No. SB9)	NA	NA
	One baffle type varnish spray booth (No. SB10)	NA	NA
	One steam-heated stain drying oven (No. DO8)	NA	NA
	One steam-heated sealer drying oven (No. DO9)	NA	NA
	One steam-heated varnish drying oven (No. DO10)	NA	NA
Off-Line Spray Booths and Roll Coaters			
ECD-SB11a (PSD, MACT, Subpart JJ)	One off-line paint spray booth (Clamp Department 121)	NA	NA
GL-SB11b	One hand spray booth fitted high volume low pressure (HVLV) guns (Flat Line Finishing Area – Building Five, Third Floor)	NA	NA
SB12 (PSD, MACT Subpart JJ)	One off-line paint spray booth (Machine Room – Department 116)	NA	NA
ECD-SB13 (PSD, MACT Subpart JJ)	One off-line paint spray booth (Clamp Department 121)	NA	NA
ECD-RC1 through ECD-RC3, ECD-RC12, and ECD-RC19 (PSD, MACT Subpart JJ)	Five roll coaters (Clamp Department 121)	NA	NA
Existing Main UV Line (Building Two, Third Floor, Roller Room)			
EMUV (PSD, MACT Subpart JJ)	Seven roll coaters (Nos. RC7 through RC11, RC13, and RC14)	NA	NA
	Three steam-heated drying ovens (Nos. DO12 through DO14)	NA	NA
Existing Short Line (Building Two, Third Floor, Roller Room)			
ESL (PSD, MACT Subpart JJ)	Four roll coaters (Nos. RC4, RC5A, RC5B, and RC6)	NA	NA
	Two steam-heated drying ovens (Nos. DO11 and DO17)	NA	NA

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
Existing Facility Support Equipment			
ES-Gluing-1	One gluing operation	NA	NA
B1 .1109 Case-by-Case MACT	One firetube-design adulterated/unadulterated wood waste-fired boiler with flyash reinjection (19.2 million Btu per hour maximum heat input capacity)	FA1	One multicyclone (20 nine inch diameter tubes)
WWCS1	One wood waste/wood dust collection and storage system	CD1, CD2, CD4, and CD5 BF1 through BF5 CD3 and CD6	Four cyclones (80, 144, 120, and 48 inches in diameter, respectively) Five bagfilters (1936, 3873, 5765, 6924, and 7045 square feet of filter area, respectively) Two simple closed loop cyclones (60 and 84 inches in diameter, respectively)
TL1	One enclosed auger type wood chip truck load-out operation	NA	NA
ESWH1	One wood hog with pneumatic transport and wood collection	CD7 BF6	One simple cyclone (106 inches in diameter) One bagfilter (948 square feet of filter area)
WW-8, WW-9, and WW-10	Miscellaneous woodworking operations	BF8, BF9, and BF10	Three bagfilters (5,750 square feet of filter area, one each)

SECTION 2 - SPECIFIC LIMITATIONS AND CONDITIONS

2.1 - Emission Source(s) and Control Devices(s) Specific Limitations and Conditions

The emission source(s) and associated air pollution control device(s) and appurtenances listed below are subject to the following specific terms, conditions, and limitations, including the testing, monitoring, record keeping, and reporting requirements as specified herein:

A. New hanging line No. 1 (NHL1S) consisting of:

- Stage 1 stain booths (Nos. Stage1.1 and Stage1.2)**
- Stage 2 stain booths (Nos. Stage2.1 and Stage2.2)**
- Stage 3 stain booths (Nos. Stage3.1 and Stage3.2)**
- Stage 4 sealer booths (Nos. Stage4.1 and Stage4.2)**
- Stage 5 topcoat booths (Nos. Stage5.1 and Stage 5.2)**
- Stage 6 stain/sealer/glaze/topcoat booths (Nos. Stage 6.1 and Stage 6.2)**
- Paint spray booth (No. NHL-4A)**
- Paint spray booth (No. SB-R1)**
- Washoff tank (No. ESWO1)**

New hanging line No. 2 (NHL2S) consisting of:

- Stage 2 stain booths (Nos. Stage2.1 and Stage2.2)**
- Stage 3 stain booths (Nos. Stage3.1 and Stage3.2)**
- Stage 4 sealer booths (Nos. Stage4.1 and Stage4.2)**
- Stage 5 topcoat booths (Nos. Stage5.1 and Stage5.2)**
- Stage 6 stain/sealer/glaze/topcoat booths (Nos. Stage6.1 and Stage6.2)**

Glaze Line No. 2 (GL) consisting of:

- Paint spray hanging line (No. NHL2S-1)**

New flat line (NFLS1) consisting of:

- Stage 1 roll coaters (Nos. Stage1.1 through Stage1.5)**
- Stage 6 topcoat booths (Nos. Stage6.1 and Stage6.2)**
- Stage 7 UV sealer/topcoat roll coaters (Nos. Stage7.1 through Stage7.6)**

New flat line (NFLS4) consisting of:

- Four baffle type spray booths (Nos. Stage1, Stage2, Stage3, and Stage6)**
- Roll coaters (Nos. UVRC1 through UVRC4)**

Existing (Old) flat line No. 1 (EFL1) consisting of:

- Baffle type stain booths (Nos. SB1 and SB2)**
- Baffle type sealer booth (No. SB3)**
- Baffle type varnish booth (No. SB4)**

Existing (Old) flat line No. 3 (EFL3) consisting of:

- Baffle type stain booth (No. SB8)**
- Baffle type sealer booth (No. SB9)**
- Baffle type varnish booth (No. SB10)**

Off-Line Spray Booths and Roll Coaters consisting of:
Paint spray booths (ID Nos. ECD-SB11a, GL-SB11b, SB12, and ECD-SB13)
Roll coaters (ID Nos. ECD-RC1 through ECD-RC3, ECD-RC12, and ECD-RC19)

Existing main UV line (EMUV) consisting of:
Roll coaters (Nos. RC7 through RC11, RC13, and RC14)

Existing short line (ESL) consisting of:
Roll coaters (Nos. RC4, RC5A, RC5B, and RC6)

Gluing operation (ID No. ES-Gluing-1)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	Adequate ductwork and properly designed collectors	15A NCAC 2D .0512
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Volatile organic compounds	BACT Limits See Section 2.2 A	15A NCAC 2D .0530 (PSD)
Odororous emissions	State-enforceable only See Section 2.2 B	15A NCAC 2D .1806
Toxic air pollutants	State-enforceable only See Section 2.2 C	15A NCAC 2D .1100
Hazardous air pollutants	MACT Standards See Section 2.2 D	15A NCAC 2D .1111 (40 CFR 63, Subpart JJ)

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

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

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

- b. Particulate matter emissions from the spray booths in finishing lines shall be controlled by adequate ductwork and properly designed collectors. To assure compliance, the Permittee shall perform inspections and maintenance. As a minimum, the inspection and maintenance program shall include:
 - i. weekly inspection of the spray booths’ filters noting the condition; and
 - ii. annual (for each 12 month period following the initial inspection) inspection of the associated ductwork noting structural integrity.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0512 if the filters are not inspected and maintained.

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

- c. The results of inspection and maintenance for the spray booths shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each inspection; and
 - iii. the results of maintenance performed on any filters.The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0512 if these records are not maintained.

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

- d. The Permittee shall submit the results of any maintenance performed on the filters or ductwork within 30 days of a written request by the DAQ.
- e. 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 spray booths in finishing lines shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- c. To assure compliance, once a month the Permittee shall observe the emission points of the spray booths in finishing lines for any visible emissions above normal. The monthly observation must be made for each month of the calendar year period to ensure compliance with this requirement. 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 these emission sources in accordance with 15A NCAC 2D .2601 (Method 9) for 12 minutes is below the limit given in Section 2.1 A.2.a above.

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

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.

B. Three miscellaneous woodworking operations (ID Nos. WW-8, WW-9, WW-10) with associated bagfilters (ID Nos. BF8, BF9, and BF10, respectively)

One wood waste/wood dust collection and storage system (ID No. WWCS1) consisting of group processes controlled with four associated cyclones (ID Nos. CD1, CD2, CD4, and CD5 respectively) installed in series with one bagfilter (ID No. BF1), with four associated bagfilters (ID Nos. BF2, BF3, BF4, BF5, respectively), and two cyclones (ID Nos. CD3 and CD6, respectively) which normally operate closed loop, with ambient vents on each cyclone that could vent to ambient air in an emergency

One enclosed auger type wood chip truck load-out operation (ID No. TL1)

One wood hog (ID No. ESWH1) with associated collection cyclone (ID No. CD7) in series with one bagfilter (ID No. BF6)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate emissions	Adequate ductwork and properly designed collectors	15A NCAC 2D .0512
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Particulate matter	(ID Nos. BF2 and BF3 only) Compliance Assurance Monitoring	15A NCAC 2D .0614

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

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

line.

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

- b. Particulate matter emissions from these sources (**ID Nos. WW-8, WW-9, WW-10, WWCS1, TL1, and ESWH1**) shall be controlled by cyclones (**ID Nos. CD1 through CD7**) and bagfilters (**ID Nos. BF1 through BF6 and BF8 through BF10**) as described above. To assure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer, if any. As a minimum, the inspection and maintenance program shall include:
- i. monthly external inspection of the ductwork, cyclones, and/or bagfilters noting the structural integrity; and
 - ii. annual (for each 12 month period following the initial inspection) internal inspection of the bagfilters noting the structural integrity and the condition of the filters.
- The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0512 if the ductwork, cyclones, and/or bagfilters are not inspected and maintained.

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

- c. The results of inspection and maintenance for the cyclones and bagfilters shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
- i. the date and time of each recorded action;
 - ii. the results of each inspection; and
 - iii. the results of maintenance performed on any control device.
- The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0512 if these records are not maintained.

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

- d. The Permittee shall submit the results of any maintenance performed on the control devices within 30 days of a written request by the DAQ.
- e. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

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

- a. Visible emissions from these sources (**ID Nos. WW-8, WW-9, WW-10, WWCS1, TL1, and ESWH1**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in a 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ. If the results of this test are above the limit given in Section 2.1 B.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- c. To assure compliance, once a week the Permittee shall observe the emission points of these sources (**ID Nos. WW-8, WW-9, WW-10, WWCS1, TL1, and ESWH1**) 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 emission source in accordance with 15A NCAC 2D .2601 (Method 9) for 12 minutes is below the limit given in Section 2.1 B.2.a above.

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

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.

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

- a. Per 40 CFR 64 and 15A NCAC 2D .0614, the Permittee shall comply with the following.

b. Background.

- i. Emission Unit(s).
 - A. Description. One wood waste/wood dust collection and storage system
 - B. Identification. **ID No. WWCS1**
- ii. Applicable Regulations, Emission Limits, and Monitoring Requirements.
 - A. Regulations. 15A NCAC 2D .0512 and .0521
 - B. Emission Limits.
 1. Adequate ductwork and properly designed collectors
 2. 20 percent opacity
 - C. Control Technology. Two fabric filters (**ID Nos. BF2 and BF3**)

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

	1	2
I. Indicator	Visible emissions	Pressure drop
Measurement Approach	Visible emissions from the fabric filters will be monitored daily using EPA Reference Method 22-like procedures	Pressure drop across the fabric filters is measured with a differential pressure gauge
II. Indicator Range	An excursion is defined as the presence of visible emissions. Excursions trigger an inspection, corrective action, and a reporting requirement.	An excursion is defined as a pressure drop greater than 5 inches of water. Excursions trigger an inspection, corrective action, and a reporting requirement.
QIP Threshold (Quality Improvement Plan)	The QIP threshold is five excursions in a 6-month period.	None selected
III. Performance Criteria		
A. Data Representativeness	Measurements are being made at the emission point (fabric filter outlet).	Pressure taps are located at the fabric filter inlet and outlet. The gauge has a minimum accuracy of 0.5 inches of water.
B. Verification of Operational Status	NA	NA
C. QA/QC Practices	The observer will be familiar with Reference Method 22 and follow Method 22-like procedures.	The pressure gauge is checked daily for operation.
D. Monitoring Frequency	Observations are done daily.	Pressure drop is monitored daily.
Data Collection Procedures	VE observations are documented by the observer.	Pressure gauge readings are manually recorded daily.
Averaging Periods	NA	NA

d. **Justification.**

- i. **Background.** The pollutant-specific emission unit is the wood dust system (**ID No. WWCS1**), which is used to collect and transfer the wood dust from the equipment in the plant to the dust silo. The equipment consists of saws, planers, sanders, etc. in the typical furniture manufacturing operation. The particular control devices subject to this condition are two fabric filters (**ID Nos. BF2 and BF3**).
- ii. **Rationale for Selection of Performance Indicators.** Visible emissions was selected as the performance indicator because it is a good indicator of the proper operation and maintenance of the filter units. When the filter units are operating properly, there will not be any visible emissions in the exhaust outlet. Any increase in visible emissions indicates reduced performance of the filter units, therefore, the presence of visible emissions is used as a performance indicator.

In general, filters are designed to operate at a relatively constant pressure drop. Monitoring pressure drop provides a means of detecting a change in operation that could lead to an increase in emissions. An increase in pressure drop can indicate that the cleaning cycle is not frequent enough, cleaning equipment is damaged/broken, the bags are becoming blinded, or the airflow has increased. A decrease in pressure drop may indicate broken or loose bags, but this is also indicated by the presence of visible emissions, indicator No. 1. A pressure drop across the filter units also serves to indicate that there is airflow through the control device.

- iii. **Rationale for Selection of Indicator Ranges.** The selected indicator range is no visible emissions. When an excursion occurs, corrective action will be initiated, beginning with an evaluation of the occurrence to determine the action required to correct the situation. All excursions will be documented and reported. An indicator range of no visible emissions was selected because: (1) an increase in visible emissions is indicative of an increase in particulate emissions; and (2) a monitoring technique which does not require a Method 9 certified observer is desired. Although Reference Method 22 applies to fugitive sources, the visible/no visible emissions observation technique of RM-22 can be applied to ducted emissions; i.e., Method 22-like observations.

The selected QIP threshold for fabric filter visible emissions is five excursions in a 6-month reporting period. This level is 3 percent of the total visible emissions observations. If the QIP threshold is exceeded in a semiannual reporting period, a QIP will be developed and implemented.

The indicator range chosen for the fabric filter pressure drop is greater than 5 inches of water. An excursion triggers an inspection, corrective action, and a reporting requirement. The pressure drop is recorded daily. As the pressure drop approaches 5 inches of water the bags are scheduled for replacement.

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

- e. Per 64.6(e), the Permittee shall submit compliance assurance monitoring in the form of an administrative amendment that satisfies Parts 64.3 and 64.4, including the establishment of normal operating ranges of the control devices within 180 days of startup of each or all control device (**ID Nos. BF8, BF9, and BF10**). If the Permittee does not submit the monitoring or if DAQ disapproves the submittal, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0614.

- f. The Permittee shall submit a summary report of all monitoring 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 period 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. New hanging line No. 1 (NHL1S) consisting of:

Natural gas-fired ovens (Nos. Oven.1 through Oven.5)

Natural gas-fired process air makeup units (Nos. Makeup-1 through Makeup-3)

New hanging line No. 2 (NHL2S) consisting of:

Natural gas-fired process air makeup units (Nos. Makeup-1 through Makeup-3)

New flat line (NFLS1) consisting of:

Steam heated drying ovens (Nos. Oven.1 through Oven.5)

Natural gas-fired process air makeup units (Nos. Makeup-1 through Makeup-3)

New flat line (NFLS4) consisting of:

Natural gas-fired oven (No. Oven.6)

Ultraviolet light drying ovens (Nos. UVDO1 through UVDO4)

Existing (Old) flat line No. 1 (EFL1) consisting of:

Steam heated drying ovens (Nos. DO1 through DO4)

Existing (Old) flat line No. 3 (EFL3) consisting of:

Steam heated drying ovens (Nos. DO8 through DO10)

Existing main UV line (EMUV) consisting of:

Steam heated drying ovens (Nos. DO12 and DO14)

Existing short line (ESL) consisting of:

Steam heated drying ovens (Nos. DO11 and DO17)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 2D .0516
Visible emissions	20 percent opacity	15A NCAC 2D .0521

1. 15A NCAC 2D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

- a. Emissions of sulfur dioxide from these sources (**ID Nos. NHL1S.Oven.1 through NHL1S.Oven.5, NFLS4.Oven.6, NHL1S.Makeup-1 through NHL1S.Makeup-3, NHL2S.Makeup-1 through NHL2S.Makeup-3, and NFLS1.Makeup-1 through NFLS1.Makeup-3**) 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.

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ. If the results of this test are above the limit given in Section 2.1 C.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516.

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

- c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the firing of natural gas in these sources (**ID Nos. NHL1S.Oven.1 through NHL1S.Oven.5, NFLS4.Oven.6, NHL1S.Makeup-1 through NHL1S.Makeup-3, NHL2S.Makeup-1 through NHL2S.Makeup-3, and NFLS1.Makeup-1 through NFLS1.Makeup-3**).

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

- a. Visible emissions from these sources (**ID Nos. NHL1S.Oven.1 through NHL1S.Oven.5, NFLS4.Oven.6, NHL1S.Makeup-1 through NHL1S.Makeup-3, NHL2S.Makeup-1 through NHL2S.Makeup-3, and NFLS1.Makeup-1 through NFLS1.Makeup-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 not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ. 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 month the Permittee shall observe the emission points of these sources (**ID Nos. NHL1S.Oven.1 through NHL1S.Oven.5, NFLS4.Oven.6, NHL1S.Makeup-1 through NHL1S.Makeup-3, NHL2S.Makeup-1 through NHL2S.Makeup-3, and NFLS1.Makeup-1 through NFLS1.Makeup-3**) for any visible emissions above normal. The monthly observation must be made for each month of the calendar year period to ensure compliance with this requirement. 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 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 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. One firetube-design adulterated/unadulterated wood-fired boiler with flyash reinjection (ID No. ES-B1) with associated multicyclone (ID No. FA1)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	0.61 pounds per million Btu heat input	15A NCAC 2D .0504
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 2D .0516
Visible emissions	40 percent opacity	15A NCAC 2D .0521
Total Selected Metals	.0002 lbs/MMBtu	15A NCAC 2D .1109
Mercury	5.0e-06 lbs/MMBtu	
HCl - Equivalent	188.5 pounds/hour	
Carbon Monoxide	269 ppmvd, corrected to 7% O ₂	

1. 15A NCAC 2D .0504: PARTICULATES FROM WOODBURNING INDIRECT HEAT EXCHANGERS

- a. Emissions of particulate matter from the combustion of adulterated/unadulterated wood that are discharged from this source (**ID No. ES-B1**) into the atmosphere shall not exceed 0.61 pounds per million Btu heat input.
- b. In no case shall this source (**ID No. ES-B1**) burn any chlorinated or non-chlorinated plastics and/or resins, or any wood waste which has been adulterated by finishes and/or coatings whose solid content contains compounds containing chlorine.

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. 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 .0504.
- d. Under the provisions of NCGS 143-215.108, the Permittee shall demonstrate compliance with the emission limit above by testing this source (**ID No. ES-B1**) for particulate matter with a testing protocol approved by the DAQ. Details of the emissions testing and reporting requirements can be found in Section 3 – General Condition JJ in this permit. Testing shall be completed and the results submitted within **[date one year of the issuance of this permit]** unless an alternative date is approved by the DAQ. 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 .0504.

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

- e. Particulate matter emissions from this source (**ID No. ES-B1**) shall be controlled by one multicyclone (**ID No. FA1**). To assure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there are no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement must include the following:
 - i. a monthly external visual inspection of the system ductwork and material collection unit for leaks; and
 - ii. an annual (for each 12 month period from initial inspection) internal inspection of the multicyclone's structural integrity.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0504 if the multicyclone and ductwork are not inspected and maintained.

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

- f. The results of inspection and maintenance shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each inspection;
 - iii. a report of any maintenance performed on the multicyclone (**ID No. FA1**); and
 - iv. any variance from manufacturer's recommendations, if any, and corrections made.The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0504 if these records are not maintained.

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

- g. Within 30 days of a written request from the DAQ, the Permittee shall submit a report of any maintenance performed on the multicyclone (**ID No. FA1**).
- h. 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 this source (**ID No. ES-B1**) 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 the standard.

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ. If the results of this test are above the limit given in Section 2.1 D.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/reporting is required for sulfur dioxide emissions from the firing of wood in this source (**ID No. ES-B1**).

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

- a. Visible emissions from this source (**ID No. ES-B1**) shall not be more than 40 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 40 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 90 percent opacity.

Testing [15A NCAC 2D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ. If the results of this test are above the limit given in Section 2.1 D.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 this source (**ID No. ES-B1**) 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 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 emission source in accordance with 15A NCAC 2D .2601 (Method 9) for 12 minutes is below the limit given in Section 2.1 D.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.

4. 15A NCAC 2D .1109: CAA § 112(j); Case-by-Case MACT for Boilers & Process Heaters

a. Emissions of the following regulated pollutants shall not exceed the emissions limits listed below for the affected boiler (ID No. B1):

i. Total Selected Metals (TSM): 0.0002 lbs/mmBtu. TSM is defined as the following: arsenic, beryllium, cadmium, chromium, lead, nickel, and selenium. [Manganese shall not be included in the determination of TSM.]

ii. Mercury (Hg): 5.0e-06 lbs/mmBtu

iii. Hydrogen Chloride-equivalent (HCl): 188.5 pounds per hour. HCl-equivalent is defined by the following equation:

$$E = E_{\text{HCl}} + E_{\text{Cl}_2} * (Rf_{\text{HCl}} / Rf_{\text{Cl}_2})$$

Where:

E	=	HCl-equivalent
E_{HCl}	=	HCl emission rate
E_{Cl_2}	=	Cl ₂ emission rate
Rf_{HCl}	=	Reference concentration for HCl (20 micrograms/m ³)
Rf_{Cl_2}	=	Reference concentration for Cl ₂ (0.20 micrograms/m ³)

iv. Carbon Monoxide (CO): 269 ppmvd, corrected to 7% oxygen

The initial compliance date for these emission limitations and associated monitoring, recordkeeping, and reporting requirements is <3 yrs from permit issuance X, 2013>. These conditions need not be included on the annual compliance certification until after the initial compliance date. These limits apply except for periods of startup, shutdown, and malfunction. The Permittee shall follow the procedures in 15A NCAC 2D .0535 for any excess emissions that occur during periods of startup, shutdown, or malfunction.

Initial Testing Requirement [15A NCAC 2Q .0508(f)]

b. The Permittee shall conduct an initial compliance test for all pollutants listed in Section 2.1.D.4.a above while firing wood within 180 days of the initial compliance date, unless the NC DAQ –SSCB approves a previously conducted performance test as an equivalent compliance demonstration. Testing shall be performed in accordance with 15A NCAC 2D .2601 and General Condition JJ found in Section 3. Performance tests may not be conducted during periods of startup, shutdown, or malfunction. The Permittee shall be deemed in non-compliance with 15A NCAC 2D .1109 if the required tests are not conducted, or if the results of the emissions tests exceed the limits in Section 2.1.D.4.a above.

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

c. The Permittee must conduct all applicable performance tests on an annual basis, unless the Permittee meets the requirements listed in i. through iii. below. Annual performance tests, if required, must be completed between 10 and 12 months after the previous performance test.

i. The Permittee may conduct performance tests less often for a given pollutant if the performance tests for at least 3 consecutive years show compliance with the emission

limit. In this case, the Permittee need not conduct a performance test for that pollutant for the next 2 years, but must conduct a performance test during the third year and no more than 36 months from the previous performance test.

- ii. If the affected boiler continues to meet the emission limit, the Permittee may conduct performance tests every third year, but each such performance test must be conducted no more than 36 months after the previous performance test.
- iii. If a performance test shows noncompliance with an emission limit, the Permittee must conduct annual performance tests for that pollutant until all performance tests over consecutive 3-year period show compliance.

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

- d. The Permittee shall maintain opacity of exhaust from the multicyclone (**ID No. FA1**) at less than or equal to 20 percent (6-minute average) except for one 6-minute period per hour of not more than 27 percent. The monitoring and recordkeeping in Section 2.1.D.3.c and d are sufficient to demonstrate compliance with this opacity requirement. The Permittee shall be deemed in non-compliance with 15A NCAC 2D .1109 if it fails to meet these monitoring and recordkeeping requirements or if the monitoring shows opacity from the control device does not meet the opacity requirement.
- e. The monitoring and recordkeeping in Section 2.1.D.1.c and d are sufficient to demonstrate compliance with the TSM limitation provided in Section 2.1.D.4.a above. The Permittee shall be deemed in non-compliance with 15A NCAC 2D .1109 if it fails to meet these monitoring and recordkeeping requirements.

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

- f. **Notification of Compliance Status.** The Permittee must submit a Notification of Compliance Status that meets the requirements of 40 CFR 63.9(h)(2)(ii) before the close of business on the 60th day following the completion of the final required performance test and/or other initial compliance demonstration. The Notification of Compliance Status report must contain the following information, as applicable:
 - i. A description of the boiler including identification of which subcategory the boiler is in, the capacity of the boiler, a description of the add-on controls used on the boiler, a description of the fuel(s) burned, and justification for the fuel(s) burned during the performance test.
 - ii. Summary of the results of all performance tests and calculations conducted to demonstrate initial compliance.
 - iii. A certification signed by the Responsible Official that the facility has met all applicable emission limits and work practice standards.
- g. **Semiannual Summary Report.** The Permittee shall submit a summary report 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. The first summary report shall be required on **July 30, 2013**. The first summary shall be required on **(3 ½ years after permit issuance)**. The report shall include the following:
 - i. Company name and address;

- ii. Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report;
- iii. Date of report and beginning and ending dates of the reporting period;
- iv. A summary of the results of the annual performance tests; and
- v. Signed statement indicating that no new types of fuel were fired in the boiler.

2.2 - Multiple Emission Source(s) Specific Limitations and Conditions

A. New hanging line No. 1 (NHL1S) consisting of:

- Stage 1 stain booths (Nos. Stage1.1 and Stage1.2)
- Stage 2 stain booths (Nos. Stage2.1 and Stage2.2)
- Stage 3 stain booths (Nos. Stage3.1 and Stage3.2)
- Stage 4 sealer booths (Nos. Stage4.1 and Stage4.2)
- Stage 5 topcoat booths (Nos. Stage5.1 and Stage 5.2)
- Stage 6 stain/sealer/glaze/topcoat booths (Nos. Stage 6.1 and Stage 6.2)
- Paint spray booth (No. NHL-4A)
- Paint spray booth (No. SB-R1)
- Washoff tank (No. ESWO1)
- Natural gas-fired ovens (Nos. Oven.1 through Oven.5)
- Natural gas-fired process air makeup units (Nos. Makeup-1 through Makeup-3)

New hanging line No. 2 (NHL2S) consisting of:

- Stage 2 stain booths (Nos. Stage2.1 and Stage2.2)
- Stage 3 stain booths (Nos. Stage3.1 and Stage3.2)
- Stage 4 sealer booths (Nos. Stage4.1 and Stage4.2)
- Stage 5 topcoat booths (Nos. Stage5.1 and Stage5.2)
- Stage 6 stain/sealer/glaze/topcoat booths (Nos. Stage6.1 and Stage6.2)
- Natural gas-fired process air makeup units (Nos. Makeup-1 through Makeup-3)

Glaze Line No. 2 (GL) consisting of:

- Paint spray hanging line (No. NHL2S-1)

New flat line (NFLS1) consisting of:

- Stage 1 roll coaters (Nos. Stage1.1 through Stage1.5)
- Stage 6 topcoat booths (Nos. Stage6.1 and Stage6.2)
- Stage 7 UV sealer/topcoat roll coaters (Nos. Stage7.1 through Stage7.6)
- Steam heated drying ovens (Nos. Oven.1 through Oven.5)
- Natural gas-fired process air makeup units (Nos. Makeup-1 through Makeup-3)

New flat line (NFLS4) consisting of:

- Four baffle type spray booths (Nos. Stage1, Stage2, Stage3, and Stage6)
- Roll coaters (Nos. UVRC1 through UVRC4)
- Natural gas-fired oven (No. Oven.6)
- Ultraviolet light drying ovens (Nos. UVDO1 through UVDO4)

Existing (Old) flat line No. 1 (EFL1) consisting of:

Baffle type stain booths (Nos. SB1 and SB2)
Baffle type sealer booth (No. SB3)
Baffle type varnish booth (No. SB4)
Steam heated drying ovens (Nos. DO1 through DO4)

Existing (Old) flat line No. 3 (EFL3) consisting of:

Baffle type stain booth (No. SB8)
Baffle type sealer booth (No. SB9)
Baffle type varnish booth (No. SB10)
Steam heated drying ovens (Nos. DO8 through DO10)

Off-Line Spray Booths and Roll Coaters consisting of:

Paint spray booths (ID Nos. ECD-SB11a, GL-SB11b, SB12, and ECD-SB13)
Roll coaters (ID Nos. ECD-RC1 through ECD-RC3, ECD-RC12, and ECD-RC19)

Existing main UV line (EMUV) consisting of:

Roll coaters (Nos. RC7 through RC11, RC13, and RC14)
Steam heated drying ovens (Nos. DO12 and DO14)

Existing short line (ESL) consisting of:

Roll coaters (Nos. RC4, RC5A, RC5B, and RC6)
Steam heated drying ovens (Nos. DO11 and DO17)

Gluing operation (ID No. ES-Gluing-1)

1. 15A NCAC 2D .0530: PREVENTION OF SIGNIFICANT DETERIORATION

Pursuant to 15A NCAC 2D .0530 “Prevention of Significant Deterioration”, the Permittee shall limit annual volatile organic compound emissions to less than 800 tons per consecutive twelve month period from all VOC emitting sources subject to PSD located at the facility.

Product	BACT Limit (minus H₂O and exempt solvents)
Transparent stains	7.2 lbs VOC/gallon
Sealers	6.2 lbs VOC/gallon
Topcoats	5.5 lbs VOC/gallon
Basecoats/Primers	6.4 lbs VOC/gallon
Enamels	5.6 lbs VOC/gallon
Edge coats	5.0 lbs VOC/gallon
Fillers	5.0 lbs VOC/gallon
Booth coater	4.0 lbs VOC/gallon
Booth prep, stripper	6.8 lbs VOC/gallon

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

- a. Calculations of VOC emissions per month shall be made at the end of each month. VOC emissions shall be determined by multiplying the total amount of each type of VOC-containing material

consumed during the month by the VOC content of the material. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the amounts of VOC containing materials or the VOC emissions are not maintained and recorded.

- b. The highest VOC content of coatings per gallon applied over the calendar year quarter for each stain booth, toner booth, sealer booth, or topcoat booth, the calculations and the total amount of VOC emissions shall be recorded monthly in a logbook (written or electronic format). The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the VOC emissions exceed the PSD limit.

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

- c. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December, and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the monthly VOC emissions for the previous 17 months. The emissions shall be calculated for each of the 12-month periods over the previous 17 months.

B. Facility-wide affected sources

State-enforceable only

1. 15A NCAC 2D .1806: CONTROL AND PROHIBITION OF ODOROUS EMISSIONS

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.

C. Existing (Old) flat line No. 1 (EFL1) consisting of:

- Baffle type stain booths (Nos. SB1 and SB2)**
- Baffle type sealer booth (No. SB3)**
- Baffle type varnish booth (No. SB4)**

Existing (Old) flat line No. 3 (EFL3) consisting of:

- Baffle type stain booth (No. SB8)**
- Baffle type sealer booth (No. SB9)**
- Baffle type varnish booth (No. SB10)**

Off-Line Spray Booths and Roll Coaters consisting of:

- Paint spray booths (ID Nos. ECD-SB11a, GL-SB11b, SB12, and ECD-SB13)**
- Roll coaters (ID Nos. ECD-RC1 through ECD-RC3, ECD-RC12, and ECD-RC19)**

Existing main UV line (EMUV) consisting of:

- Roll coaters (Nos. RC8 through RC11, RC13, and RC14)**

State-enforceable only

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

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

Emission sources	Emission Limits								
	Methyl ethyl ketone (lbs/day)	Methyl ethyl ketone (lbs/hr)	Toluene (lbs/day)	Toluene (lbs/hr)	Xylene (lbs/day)	Xylene (lbs/hr)	Ethyl acetate (lbs/hr)	Methyl isobutyl ketone (lbs/day)	Methyl isobutyl ketone (lbs/hr)
SB1	137.19	16.12	179.67	21.12	0.14	0.006	20.83	0	0
SB2	25.19	2.96	113.8	13.4	25.68	3.04	0	0	0
SB3	0.88	0.12	76.09	9.36	54.07	6.36	0	0	0
SB4	64.83	7.64	110.47	13	48.4	5.68	0	0	0
SB8	137.19	16.12	179.67	21.12	0.14	0.006	134.26	0	0
SB9	0.88	0.12	76.09	8.96	54.07	6.36	0	0	0
SB10	64.83	7.64	110.47	13	54.95	6.48	0	0	0
SB11A and SB11B	5.26	0.52	11.93	0.8	1.51	0.16	0.93	0	0
RC1, RC2, and RC3	24.33	2.88	6.38	0.76	3.7	0.44	0	0.04	0.016
SB12	4.99	0.6	0.44	0.04	2.62	0.32	0.05	0.1	0.004
SB13	2.21	0.24	0.5	0.04	1.03	0.08	0.01	0.02	0.008
RC19	0.48	0.04	0.94	0.12	0.42	0.04	0.01	0.02	0.008
RC8 and RC9	6.77	0.8	100.92	11.88	9.33	1.08	0	0.01	0.004
RC10, RC11, and RC12	1.62	0.2	0.52	0.08	0	0	0	0.01	0.004
RC13 and RC14	0	0	41.61	4.88	23.13	2.72	0	0	0
Totals	476.64	56.0*	1009.5	118.6*	279.18	32.76*	156.08	0.21	0.044*

* Emission rates were converted from pounds per 15-minutes to pounds per hour

- a. To ensure compliance with the above limits, the facility operational hours shall be limited to 14.63 hours per day of actual production time for the existing equipment only as listed in Section 2.2 C above.
- b. The Permittee shall submit a summary report of the recordkeeping activities within 30 days after each calendar year quarter, postmarked on or before January 30 of each calendar year for the preceding three-month period between October and December, April 30 of each calendar year for the preceding three-month period between January and March, July 30 of each calendar year for the preceding three-month period between April and June, and October 30 of each calendar year for the preceding three-month period between July and September. The report shall contain records of the daily actual production hours for each operating day for each source during the previous calendar quarter.

D. Affected Source - All facilities subject to 40 CFR Part 63 Subpart JJ: NATIONAL EMISSIONS STANDARD FOR WOOD FURNITURE MANUFACTURING OPERATIONS

New hanging line No. 1 (NHL1S) consisting of:

- Stage 1 stain booths (Nos. Stage1.1 and Stage1.2)**
- Stage 2 stain booths (Nos. Stage2.1 and Stage2.2)**
- Stage 3 stain booths (Nos. Stage3.1 and Stage3.2)**
- Stage 4 sealer booths (Nos. Stage4.1 and Stage4.2)**
- Stage 5 topcoat booths (Nos. Stage5.1 and Stage 5.2)**
- Stage 6 stain/sealer/glaze/topcoat booths (Nos. Stage 6.1 and Stage 6.2)**
- Paint spray booth (No. NHL-4A)**
- Paint spray booth (No. SB-R1)**
- Washoff tank (No. ESWO1)**

New hanging line No. 2 (NHL2S) consisting of:

- Stage 2 stain booths (Nos. Stage2.1 and Stage2.2)**
- Stage 3 stain booths (Nos. Stage3.1 and Stage3.2)**
- Stage 4 sealer booths (Nos. Stage4.1 and Stage4.2)**
- Stage 5 topcoat booths (Nos. Stage5.1 and Stage5.2)**
- Stage 6 stain/sealer/glaze/topcoat booths (Nos. Stage6.1 and Stage6.2)**

Glaze Line No. 2 (GL) consisting of:

- Paint spray hanging line (No. NHL2S-1)**

New flat line (NFLS1) consisting of:

- Stage 1 roll coaters (Nos. Stage1.1 through Stage1.5)**
- Stage 6 topcoat booths (Nos. Stage6.1 and Stage6.2)**
- Stage 7 UV sealer/topcoat roll coaters (Nos. Stage7.1 through Stage7.6)**

New flat line (NFLS4) consisting of:

- Four baffle type spray booths (Nos. Stage1, Stage2, Stage3, and Stage6)**
- Roll coaters (Nos. UVRC1 through UVRC4)**

Existing (Old) flat line No. 1 (EFL1) consisting of:

- Baffle type stain booths (Nos. SB1 and SB2)**
- Baffle type sealer booth (No. SB3)**
- Baffle type varnish booth (No. SB4)**

Existing (Old) flat line No. 3 (EFL3) consisting of:

- Baffle type stain booth (No. SB8)**
- Baffle type sealer booth (No. SB9)**
- Baffle type varnish booth (No. SB10)**

Off-Line Spray Booths and Roll Coaters consisting of:

- Paint spray booths (ID Nos. ECD-SB11a, GL-SB11b, SB12, and ECD-SB13)**
- Roll coaters (ID Nos. ECD-RC1 through ECD-RC3, ECD-RC12, and ECD-RC19)**

Existing main UV line (EMUV) consisting of:

- Roll coaters (Nos. RC7 through RC11, RC13, and RC14)**

**Existing short line (ESL) consisting of:
Roll coaters (Nos. RC4, RC5A, RC5B, and RC6)**

Gluing operation (ID No. ES-Gluing-1)

APPLICABILITY

1. The wood furniture manufacturing operations listed above shall comply with all requirements of 15A NCAC 2D .1111 “Maximum Achievable Control Technology” and 40 CFR Part 63 Subpart JJ “National Emission Standards for Wood Furniture Manufacturing Operations.” [40 CFR 63.800]

DEFINITIONS AND NOMENCLATURE

2. For the purpose of this permit condition, the definitions and nomenclature contained in 40 CFR 63.801 shall apply.

REGULATED POLLUTANTS

3. Volatile Hazardous Air Pollutants (VHAPs), Volatile Organic Compounds (VOCs), and Organic HAP solvents as defined in 40 CFR 63.801.

GENERAL PROVISIONS

4. The Permittee shall comply with the requirements of 40 CFR 63 Subpart A “General Provisions” according to the applicability of Subpart A to such sources, as identified in Table 1 of 40 CFR Part 63, Subpart JJ.

WORK PRACTICE STANDARDS

5. The Permittee shall adhere to the work practice standards as specified by 40 CFR 63.803.
 - a. **Recordkeeping Requirements** – The Permittee shall prepare, maintain, and follow a written work practice implementation plan in accordance with 40 CFR 63.806(e) that defines environmentally desirable work practices for each wood furniture manufacturing operation and addresses each of the work practice standards specified in items i. through xi. below:
 - i. **Operator training** – in accordance with 40 CFR 63.803(b),
 - ii. **Inspection and maintenance plan** – in accordance with 40 CFR 63.803(c),
 - iii. **Cleaning and wash-off solvent accounting system** – in accordance with 40 CFR 63.803(d),
 - iv. **Chemical composition of cleaning and wash-off solvents** – in accordance with 40 CFR 63.803(e),
 - v. **Spray booth cleaning** – in accordance with 40 CFR 63.803(f),
 - vi. **Storage requirements** – in accordance with 40 CFR 63.803(g),
 - vii. **Application equipment requirements** – in accordance with 40 CFR 63.803(h),
 - viii. **Line cleaning** – in accordance with 40 CFR 63.803(i),
 - ix. **Gun cleaning** – in accordance with 40 CFR 63.803(j),
 - x. **Wash-off operations** – in accordance with 40 CFR 63.803(k), and
 - xi. **Formulation assessment plan** - in accordance with 40 CFR 63.803(l).
 - b. **Reporting Requirements** – The Permittee shall submit the compliance status report to the Regional Supervisor in accordance with 40 CFR 63.804(f)(8) and 63.807(b). The Permittee shall submit semiannual reports to the Regional Supervisor in accordance with 40 CFR 63.804(g)(8) and 63.807(c). The Permittee shall follow the reporting requirements in 40 CFR 64.807(e) as required and 40 CFR 63.807(a) following the applicability criteria in 40 CFR 63.800(d).

FINISHING OPERATIONS

6. Per 40 CFR 63.804(a)(4), the Permittee has chosen to use both the **compliant coatings** and the **facility averaging** compliance options for the finishing operations listed above.

Recordkeeping Requirements – Compliance with each of these options is considered a separate **ALTERNATIVE COMPLIANCE SCENARIO** and the Permittee, prior to using a known non-compliance coating, i.e., knowingly switching from the use of compliant coatings to facility averaging as a compliance scenario, shall record in a logbook (written or electronic format) the scenario under which it is operating.

- a. **Emission Limits** – The Permittee shall either:
- i. comply with all provisions of 40 CFR 63.802(a)(1) and 63.804(a)(2) as applicable to the finishing operations listed above. All thinners, stains, washcoats, sealers, topcoats, basecoats, and enamels used at the facility shall meet the emission limitations as detailed in the following table:

Emission Source	Regulated Material	Emission Limitation
Finishing operations	Thinners	10% by weight HAP
Finishing operations	Stains, washcoats, sealers, topcoats, basecoats, and enamels	1.0 lb VHAP/lb solids (or kg VHAP per kg solids), as applied
Finishing operations	Washcoat, basecoat, or enamel formulated on-site	Coatings – 1.0 lb VHAP/lb solids (or kg VHAP per kg solids) Thinners – 3.0% by weight VHAP

OR

- ii. comply with all provisions of 40 CFR 63.802(a)(1) and 63.804(a)(1) as applicable to the finishing operations listed above. The weighted average VHAP content across all coatings, as applied, shall not exceed 1.0 lb VHAP per lb solids (1.0 kg VHAP per kg solids).
- b. **Compliance Procedures and Monitoring Requirements** – The Permittee shall either:
- i. demonstrate that only compliant thinners are being used and that all stains, washcoats, sealers, topcoats, basecoats, and enamels are compliant, as applied, in accordance with 40 CFR 63.804(g)(2) for Noncontinuous coaters and 40 CFR 63.804(g)(3) for continuous coaters, if applicable.
- OR**
- ii. demonstrate that the monthly average VHAP content for all finishing materials used at the facility is no greater than 1.0 lb VHAP per lb solids (1.0 kg VHAP per kg solids), as applied, in accordance with 40 CFR 63.804(g)(1).
- c. **Performance Test Method** – EPA Method 311 [40 CFR 63, Appendix A] shall be used to determine the VHAP content of liquid coatings in accordance with 40 CFR 63.805(a).
- d. **Recordkeeping Requirements** – The Permittee shall keep records in accordance with 40 CFR 63.806(a) following the applicability criteria in 40 CFR 63.800(d), 63.806(b)(1) and (b)(2), 63.806(h), 63.806(i), and 63.806(j) and either:
- i. 63.804(g)(2-3) and 63.806(d) when complying with Section 2.2 D.6.a.i above,
- OR**
- ii. 63.804(g)(1) and 63.806(c) when complying with Section 2.2 D.6.a.ii above.

- e. **Reporting Requirements** – The Permittee shall submit the compliance status report to the Regional Supervisor in accordance with 40 CFR 63.807(b) and either: 40 CFR 63.804(f)(2), when complying with Section 2.2 D.6.a.i above, **OR** 40 CFR 63.804(f)(1), when complying with Section 2.2 D.6.a.ii above. The Permittee shall submit semiannual reports to the Regional Supervisor in accordance with 40 CFR 63.807(c) and either: 40 CFR 63.804(g)(2), when complying with Section 2.2 D.6.a.i above, **OR** 40 CFR 63.804(g)(1), when complying with Section 2.2 D.6.a.ii above. The Permittee shall follow the reporting requirements in 40 CFR 63.807(a) following the applicability criteria in 40 CFR 63.800(d).

CLEANING OPERATIONS

- 7. a. **Emission Limits** - The Permittee shall comply with the limits of 40 CFR 63.802(a)(3) applicable to the strippable spray booth operations as detailed in the following table:

Emission Source	Regulated material	Emission Limitation
Finishing operations	strippable spray booth coatings	0.8 lb VOC per lb solids (or kg VOC/kg solids), as applied

- b. **Compliance Procedures and Monitoring Requirements** - The Permittee shall demonstrate that only compliant strippable spray booth coatings are used in accordance with 40 CFR 63.804(g)(7).
- c. **Performance Test Method** - EPA Method 311 [40 CFR Part 63 Appendix A] shall be used to determine the VHAP content of liquid coatings in accordance with 40 CFR 63.805(a).
- d. **Recordkeeping Requirements** - The Permittee shall keep records in accordance with 40 CFR 63.806(a) following the applicability criteria in 40 CFR 63.800(d), 63.806(b)(1) and (b)(3), 63.806(h), 63.806(i), and 63.806(j).
- e. **Reporting Requirements** - The Permittee shall submit the compliance status report to the Regional Supervisor in accordance with 40 CFR 63.804(f)(7) and 63.807(b). The Permittee shall submit semiannual reports to the Regional Supervisor in accordance with 40 CFR 63.804(g)(7) and 63.807(c). The Permittee shall follow the reporting requirements in 40 CFR 63.807(a) following the applicability criteria in 40 CFR 63.800(d).

CONTACT ADHESIVE OPERATIONS

- 8. a. **Emission Limits** - The Permittee shall comply with all provisions of 40 CFR 63.802(a)(2) and 63.804(b-c) as applicable to the contact adhesive operation as detailed in the following table:

Emission Source	Regulated material	Emission Limitation
Gluing operations	Foam contact adhesives used in products which meet flammability requirements per California Technical Bulletin 116, 117, or 133, the Business and Institutional Furniture Manufacturers Association's (BIFMA's) X5.7, UFAC flammability testing, or any similar requirements from local, State, or Federal fire regulatory agencies	1.8 lb VHAP per lb solids (or kg VOC/kg solids), as applied
Gluing operations	All other contact adhesives	1.0 lb VHAP/lb solids (or kg VOC/kg solids), as applied

- b. **Compliance Procedures and Monitoring Requirements** - When emission source is using foam

and other contact adhesives, the Permittee shall demonstrate that only compliant adhesives are used in accordance with 40 CFR 63.804(g)(5).

- c. **Performance Test Method** - EPA Method 311 [40 CFR Part 63 Appendix A] shall be used to determine the VHAP content of liquid coatings in foam and other contact adhesives in accordance with 40 CFR 63.805(a).
- d. **Recordkeeping Requirements** - When foam and other contact adhesives are used, the Permittee shall keep records in accordance with 40 CFR 63.806(a) following the applicability criteria in 40 CFR 63.800(d), 63.806(b)(1) and (b)(2), 63.806(h), 63.806(i), and 63.806(j).
- e. **Reporting Requirements** - When foam and other adhesives are used, the Permittee shall submit the compliance status report to the Regional Supervisor in accordance with 40 CFR 63.804(f)(5) and 63.807(b). When foam and other contact adhesives are used, the Permittee shall submit semiannual reports to the Regional Supervisor in accordance with 40 CFR 63.804(g)(5) and 63.807(c). When foam and other contact adhesives are used, the Permittee shall follow the reporting requirements in 40 CFR 63.807(a) following the applicability criteria in 40 CFR 63.800(d).

SECTION 3 - GENERAL CONDITIONS (version 3.1)

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

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

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

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

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

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

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

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

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

Supervisor, Stationary Source Compliance
North Carolina Division of Air Quality

1641 Mail Service Center
Raleigh, NC 27699-1641

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

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

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

F. **Circumvention** - STATE ENFORCEABLE ONLY

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

G. **Permit Modifications**

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

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

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

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

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

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

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

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

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

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

H. **Changes Not Requiring Permit Modifications**

1. Reporting Requirements

Any of the following that would result in new or increased emissions from the emission source(s) listed in Section 1 must be reported to the Regional Supervisor, DAQ:

- a. changes in the information submitted in the application;
- b. changes that modify equipment or processes; or
- c. changes in the quantity or quality of materials processed.

If appropriate, modifications to the permit may then be made by the DAQ to reflect any necessary changes in the permit conditions. In no case are any new or increased emissions allowed that will cause a violation of the emission limitations specified herein.

2. Section 502(b)(10) Changes [15A NCAC 2Q .0523(a)]

- a. "Section 502(b)(10) changes" means changes that contravene an express permit term or

- condition. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.
- b. The Permittee may make Section 502(b)(10) changes without having the permit revised if:
 - i. the changes are not a modification under Title I of the Federal Clean Air Act;
 - ii. the changes do not cause the allowable emissions under the permit to be exceeded;
 - iii. the Permittee notifies the Director and EPA with written notification at least seven days before the change is made; and
 - iv. the Permittee shall attach the notice to the relevant permit.
 - c. The written notification shall include:
 - i. a description of the change;
 - ii. the date on which the change will occur;
 - iii. any change in emissions; and
 - iv. any permit term or condition that is no longer applicable as a result of the change.
 - d. Section 502(b)(10) changes shall be made in the permit the next time that the permit is revised or renewed, whichever comes first.
3. Off Permit Changes [15A NCAC 2Q .0523(b)]
The Permittee may make changes in the operation or emissions without revising the permit if:
 - a. the change affects only insignificant activities and the activities remain insignificant after the change; or
 - b. the change is not covered under any applicable requirement.
 4. Emissions Trading [15A NCAC 2Q .0523(c)]
To the extent that emissions trading is allowed under 15A NCAC 2D, including subsequently adopted maximum achievable control technology standards, emissions trading shall be allowed without permit revision pursuant to 15A NCAC 2Q .0523(c).

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

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

“Excess Emissions” - means an emission rate that exceeds any applicable emission limitation or standard allowed by any rule in Sections .0500, .0900, .1200, or .1400 of Subchapter 2D; or by a permit condition; or that exceeds an emission limit established in a permit issued under 15A NCAC 2Q .0700.

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

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

Excess Emissions

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

- time when the malfunction or breakdown is first observed;
 - expected duration; and
 - estimated rate of emissions;
- ii. notify the Regional Supervisor or Director immediately when corrective measures have been accomplished; and
 - iii. submit to the Regional Supervisor or Director within 15 days a written report as described in 15A NCAC 2D .0535(f)(3).

Permit Deviations

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

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

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

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

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

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

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

5. This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein.

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

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

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

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

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

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

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

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

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

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

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

The Permittee shall submit to the DAQ and the EPA (Air and EPCRA Enforcement Branch, EPA, Region 4, 61 Forsyth Street, Atlanta, GA 30303) postmarked on or before March 1 a compliance certification (for the preceding calendar year) by a responsible official with all federally-enforceable terms and conditions in the permit, including emissions limitations, standards, or work practices. It shall be the responsibility of the current owner to submit a compliance certification for the entire year regardless of who owned the facility during the year. The compliance certification shall comply with additional requirements as may be specified under Sections 114(a)(3) or 504(b) of the Federal Clean Air Act. The compliance certification shall specify:

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

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

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

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

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

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

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

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

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

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

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

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

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

1. Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow the DAQ, or an authorized representative, to perform the following:
 - a. enter the Permittee's premises where the permitted facility is located or emissions-related activity is conducted, or where records are kept under the conditions of the permit;
 - b. have access to and copy, at reasonable times, any records that are required to be kept under the conditions of the permit;
 - c. inspect at reasonable times and using reasonable safety practices any source, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
 - d. sample or monitor substances or parameters, using reasonable safety practices, for the purpose of assuring compliance with the permit or applicable requirements at reasonable times.Nothing in this condition shall limit the ability of the EPA to inspect or enter the premises of the Permittee under Section 114 or other provisions of the Federal Clean Air Act.
2. No person shall refuse entry or access to any authorized representative of the DAQ who requests entry for purposes of inspection, and who presents appropriate credentials, nor shall any person obstruct, hamper, or interfere with any such authorized representative while in the process of carrying out his official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.

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

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

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

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

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

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

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

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

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

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

BB. **Financial Responsibility and Compliance History** [15A NCAC 2Q .0507(d)(4)]

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

of substantial compliance history.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

standards or are required to create an offset, the permit shall contain a condition requiring these controls.

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

If emissions testing is required by this permit or the DAQ or if the Permittee submits emissions testing to the DAQ 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).

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

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

In addition to this notification requirement, with the next significant modification or Air Quality

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

OO. Mandatory Greenhouse Gas Reporting Requirements [15A NCAC 2Q .0508]

FEDERAL-ENFORCEABLE ONLY

If the Permittee is subject to requirements of 40 CFR 98.2(a), the Permittee shall submit all required reports to the EPA Administrator in accordance with 40 CFR 98.

ATTACHMENT

List of Acronyms

AOS	Alternate Operating Scenario
BACT	Best Available Control Technology
Btu	British thermal unit
CAA	Clean Air Act
CAIR	Clean Air Interstate Rule
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
NAA	Non-Attainment Area
NCAC	North Carolina Administrative Code
NCGS	North Carolina General Statutes
NESHAPS	National Emission Standards for Hazardous Air Pollutants
NO_x	Nitrogen Oxides
NSPS	New Source Performance Standard
OAH	Office of Administrative Hearings
PM	Particulate Matter
PM₁₀	Particulate Matter with Nominal Aerodynamic Diameter of 10 Micrometers or Less
POS	Primary Operating Scenario
PSD	Prevention of Significant Deterioration
RACT	Reasonably Available Control Technology
SIC	Standard Industrial Classification
SIP	State Implementation Plan
SO₂	Sulfur Dioxide
tpy	Tons Per Year
VOC	Volatile Organic Compound