



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

Michael F. Easley, Governor

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

PROPOSED 2006

Mr. Steve Renfrow
Plant Manager
Wix Filtration Corporation
P.O. Box 1967
Gastonia, North Carolina 28053

SUBJECT: Air Quality Permit No. 3860T21
Facility ID: 3600137
Wix Filtration Corporation-Allen Plant
Gastonia, Gaston County
Fee Class: Title V

Dear Mr. Renfrow;

In accordance with your completed Air Quality Permit Application for renewal of your Title V permit received April 4, 2006, we are forwarding herewith Air Quality Permit No. 3860T21 to Wix Filtration Corporation-Allen Plant, 2900 Northwest Blvd., Gastonia, North Carolina authorizing the operation, as outlined in Part I, and the construction, as outlined in Part II, of the emission source(s) and associated air pollution control device(s) specified herein 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 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 of Part I. **The current owner is responsible for submitting a compliance certification for the entire year regardless of who owned the facility during the year.**

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

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

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. Steve Renfrow

PROPOSED 2006

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You may request modification of your Air Quality Permit through informal means pursuant to NCGS 150B-22. This request must be submitted in writing to the Director and must identify the specific provisions or issues for which the modification is sought. Please note that this Air Quality Permit 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 143-215-108(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 143-215.108 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 PROPOSED, 2006 until PROPOSED, 2011, 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 Michael Brandon, P.E. at (919) 715-6243.

Sincerely yours,

Donald D. Redmond, Jr.
Acting Chief

Enclosure

c: Gregg Worley, EPA Region 4 (permit only)
MRO
Central Files

Changes to your permit include:

PAGE	SECTION	CHANGE
NA	All Sections	<p>The following sources will be covered under the permit shield as part of this renewal.</p> <p><u>502(b)(10) changes:</u> control devices (ID Nos. CD-6 and CD-16 under application no. 3600137.01A), emission sources (ID Nos. ES-18, ES-32, and ES-TUPB under application no. 3600137.02A), emission sources (ID No. ES-10-4 and ES-10-5 under application no. 3600137.04A);</p> <p><u>501(c)(2) significant modification:</u> Emission sources and control devices (ID Nos. ES-32 and CD-8 under application no. 3600137.04B);</p> <p><u>2Q .0515 Minor Modifications:</u> Preheat oven and paper cure oven at line 32 air filter manufacturing (ID No. ES-32 under application no. 3600137.05A) and afterburner (ID No. CD-10-1) and replacement oven (ID No. ES-16-1) under application no. 3600137.05B.</p> <p>All monitoring, recordkeeping and reporting were incorporated into the Part I operating conditions when they received permission to construct under Part II conditions..</p>
NA	insignificant activities	<p>Changed boiler heat input to 2.5 million Btu/hr, as reported by applicant. Added natural gas-fired water heater; 2.5 million Btu/hr heat input. Added the following insignificant activities: Line No. 6 paint line natural gas-fired washer oven; 1.0 million Btu heat input (ID No. I665), Line No. 6 paint line natural gas-fired dryer oven; 1.0 million Btu heat input (ID No. I667), and four natural gas-fired drying ovens; 0.5, 0.2, 0.5, and 0.5 million Btu heat input (ID No. 158 previously ES-58).</p>
3	Section 1 Emission Source Table	Corrected all heat input rates.
3	Section 1 Emission Source Table	<p>Oil Filter Line 6 pre-paint (ID No. ES-6-1) was revised to reflect a paper cure oven with a cool down section and a plastisol cure oven as separate emission sources (ID Nos. ES-6A and ES-6B). Line 6 painting (ID No. ES-6-2) was revised to reflect the painting and curing operations as two separate sources (ID Nos. ES-6C and ES-6D).</p>
3	Section 1 Emission Source Table	Air Filter Line 8 (ID No. ES-8) was revised to reflect a paper cure oven with a cool down section and a plastisol cure oven with two cool down sections as separate emission sources (ID Nos. ES-8A and ES-8B).
3	Section 1 Emission Source Table	<p>Air/Fuel Filter Line 10 emission sources were renamed as follows to conform to the convention adopted for the emission source and control device listings. ES-10-1→ES-10A; ES-10-2→ES-10B; ES-10-3→ES-10C; ES-10-4→ES-10D; ES-10-5→ES-10EA; and CD-10-1→CD-10.</p>
3	Section 1 Emission Source Table	<p>Oil/Fuel Filter Line 16 emission sources were renamed as follows to conform to the convention adopted for the emission source and control device listings. ES-16-1→ES-16A; ES-16-2→ES-16B; and CD-16-13→CD-16. Line 16 painting (ID No. ES-16-3) was revised to reflect the painting and curing operations as two separate sources (ID Nos. ES-16C and ES-16D).</p>

PAGE	SECTION	CHANGE
4	Section 1 Emission Source Table	Air Filter Line 18 (ID No. ES-18) was revised to reflect a paper cure oven and two plastisol ovens as separate emission sources (ID Nos. ES-18A, ES-18B, and ES-18C).
4	Section 1 Emission Source Table	Air Filter Line 32 (ID No. ES-32) was revised to reflect a paper preheat oven, a paper cure oven, a poly-iso cure oven, and a plastisol/poly-iso gasket cure oven as separate emission sources (ID Nos. ES-32A, ES-32B, ES-32C, and ES-32D).
4	Section 1 Emission Source Table	Oil Filter Line 40 pre-paint (ID No. ES-40-1) was revised to reflect a paper cure oven and a plastisol cure oven with a cool down section as separate emission sources (ID Nos. ES-40A and ES-40B). Line 6 painting (ID No. ES-40-2) was revised to reflect the painting and curing operations as two separate sources (ID Nos. ES-40C and ES-40D).
4	Section 1 Emission Source Table	Oil Filter Line 53 pre-paint (ID No. ES-53-1) was revised to reflect a paper cure oven with a cool down section and a plastisol cure oven with a cool down section as separate emission sources (ID Nos. ES-53A and ES-53B). Line 53 painting (ID No. ES-53-2) was revised to reflect the painting and curing operations as two separate sources (ID Nos. ES-53C and ES-53D).
4	Section 1 Emission Source Table	Hydraulic Filter Element Line 57 (ID No. ES-57) was revised to reflect end cap cure and the final cure oven as separate emission sources (ID Nos. ES-57A and ES-57B).
8-11	Section 2.1 C.	Section 2.1 C., Section 2.1 D., and Section 2.1 E. were combined as they have identical requirements. Old Section 2.1 E.3.c. SOC requirements for the Line No. 10 plastisol final cure oven (ID No. ES-10E) were fulfilled and removed from the permit.
11-13	new Section 2.1 D.	Recodified old Section 2.1 F.
NA	old Section 2.1 G.	This section was removed because the four natural gas-fired drying (burnish) ovens are insignificant activities.
13-14	new Section 2.1 E.	Recodified old Section 2.1 H.
14-17	new Section 2.1 F.	Recodified old Section 2.1 I.
16	Section 2.1 F.4.c.	Calculation of VOC emissions from natural gas combustion in Air Filter Line No. 32 was removed from the PSD avoidance condition because the heat input to this line (five Million Btu/hr) is not sufficient to add more than 0.5 ton per year on a maximum use basis. The estimation is, therefore, not significant (i.e., rounding of emissions of less than 0.5 tons is 0 tons) and will no longer be required. The heat input required to result in a significant amount would be 20 million Btu per hour.
19-20	Section 2.2 A.3.	The toxic air pollutant table was revised to reflect the new emission rates and to remove the condition the requiring modeling that was to be performed to determine the new emissions rates.
23	Section 2.2 B.2.c.	Calculation of VOC emissions from natural gas combustion in Air Filter Line No. 18 and Air Filter Line No. 32 was removed from the PSD avoidance condition because the heat input to these lines is not sufficient to add more than 0.5 ton per year on a maximum use basis. The estimation is, therefore, not significant (i.e., rounding of emissions of less than 0.5 tons is 0 tons) and will no longer be required. The heat input required to result in a significant amount would be 20 million Btu per hour.
NA	Section 2.2 C.	The requirement for the Permittee to submit to DAQ by January 25, 2006 information of actual and potential emission rates for emissions of HAP from sources (ID Nos. ES-18, ES-32, and ES-TUPB) was removed as this condition has been fulfilled and the submittal determined to be acceptable.

PAGE	SECTION	CHANGE
24	Part II General Conditions	General Conditions were updated.

Insignificant Activities

1. natural gas-fired boiler; 2.5 million Btu heat input (ID No. IES-CC-30-1)
2. natural gas-fired water heater; 2.5 million Btu/hr heat input (ID No. IWH)
3. Wash line (ID No. IES-CC-30-2)
4. Railroad line (ID No. IES-CC-56)
5. Spare Hand line (ID No. IES-CC-37)
6. Compounding ovens (ID No. IES-CO)
7. Line No. 6 paint line natural gas-fired washer oven; 1.0 million Btu heat input (ID No. I665)
8. Line No. 6 paint line natural gas-fired dryer oven; 1.0 million Btu heat input (ID No. I667)
9. four natural gas-fired drying (burnish) ovens; 0.5, 0.2, 0.5, and 0.5 million Btu heat input (ID No. I58)



AIR QUALITY PERMIT

Permit No.	Replaces Permit No.	Effective Date	Expiration Date
3860T21	3860T20	PROPOSED, 2006	PROPOSED 2011

Until such time as this permit expires or is modified or revoked, the below named Permittee is authorized to operate, as outlined in Part I, and to construct, as outlined in Part II, 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: **Wix Filtration Corporation - Allen Plant**

Facility ID: **3600137**

Facility Site Location: **2900 Northwest Boulevard**
City, County, State, Zip: **Gastonia, Gaston County, North Carolina, 28052-1162**

Mailing Address: **P.O. Box 1967**
City, State, Zip: **Gastonia, North Carolina 28053**

Application Number: **3600137.06B**
Complete Application Date: **April 4, 2006**
Renewal Application Due Date: **exp date -9 mo ,**
Primary SIC Code: **3714**
Division of Air Quality, **Mooreville Regional Office**
Regional Office Address: **610 East Center Avenue, Suite 301, Mooreville, NC 28115**

Permit issued this the PROPOSED day of PROPOSED, 2006.

Donald D. Redmond, Jr., Acting Chief, Air Permits Section
By Authority of the Environmental Management Commission

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PART I

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

SECTION 3: GENERAL PERMIT CONDITIONS

PART II

This permit has no Part II

ATTACHMENT

List of Acronyms

PART I

The Division of Air Quality (DAQ), the United States Environmental Protection Agency (EPA), and citizens as defined under the Federal Clean Air Act have the authority to enforce the terms, conditions, and limitations contained in Part I of this permit unless otherwise specified. Under Title 15A NCAC 2Q, the operation of emission source(s) and associated air pollution control device(s) and appurtenances listed in Part I of this permit is based on plans, specifications, operating parameters, and other information as submitted in the Air Quality Permit Application.

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

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

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
Oil Filter Line No. 6			
ES-6A	natural gas-fired paper cure oven (with cool down section not vented to CD-6); 2.5 million Btu/hr heat input	CD-6	natural gas, propane-fired afterburner; 5.0 million Btu/hr heat input
ES-6B	natural gas-fired plastisol cure oven; 2.5 million Btu/hr heat input		
ES-6C	electrostatic dry filter paint spray booth	N/A	N/A
ES-6D	natural gas-fired paint cure oven; 1.0 million Btu/hr heat input	N/A	N/A
Air Filter Line No. 8			
ES-8A	natural gas-fired paper cure oven (with cool down section not vented to CD-8); 2.0 million Btu/hr heat input	CD-8	natural gas-fired afterburner; 4.5 million Btu/hr heat input
ES-8B	natural gas-fired plastisol cure oven (with two cool down sections, the last of which is not vented to CD-8); 2.5 million Btu/hr heat input		
Air and Fuel Filter Line No. 10			
ES-10A	natural gas-fired preheat oven; 0.15 million Btu/hr heat input	N/A	N/A
ES-10B	natural gas-fired post cure oven; 0.25 million Btu/hr heat input	N/A	N/A
ES-10C	natural gas-fired No. 1 gel oven; 1.0 million Btu/hr heat input	N/A	N/A
ES-10D	natural gas-fired No. 2 gel oven; 1.5 million Btu/hr heat input	N/A	N/A
ES-10E	natural gas-fired plastisol final cure oven; 2.0 million Btu/hr heat input	CD-10	natural gas-fired afterburner; 6.5 million Btu/hr heat input
Oil and Fuel Filter Line No. 16			
ES-16A	natural gas-fired BGK paper cure oven; 2.0 million Btu/hr heat input	CD-16	natural gas/propane-fired afterburner; 5.0 million Btu/hr heat input
ES-16B	natural gas-fired final cure oven; 2.5 million Btu/hr heat input		
ES-16C	filter case electrostatic dry filter paint spray booth	N/A	N/A
ES-16D	BGK filter case electrically heated paint cure oven	N/A	N/A
Air Filter Line No. 18			
ES-18A	natural gas-fired paper cure oven: 1.6 million Btu/hr heat input	N/A	N/A
ES-18B	natural gas-fired natural gas-fired plastisol cure oven No. 1; 1.6 million Btu/hr heat input	N/A	N/A

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
ES-18C	natural gas-fired plastisol cure oven No. 2 with cool down zone; 2.0 million Btu/hr heat input	N/A	N/A
Air Filter Line No. 32			
ES-32A	natural gas/propane-fired paper preheat oven; 0.25 million Btu/hr heat input	N/A	N/A
ES-32B	infrared paper cure oven	N/A	N/A
ES-32C	natural gas/propane-fired end-cap poly-iso cure oven; 2.0 million Btu/hr heat input	N/A	N/A
ES-32D	natural gas/propane fired plastisol/poly-iso gasket cure oven with cool down zone; 1.6 million Btu/hr heat input	N/A	N/A
Oil Filter Line No. 40			
ES-40A	natural gas-fired paper cure oven; 1.5 million Btu/hr heat input	N/A	N/A
ES-40B	natural gas-fired plastisol cure oven (with cool down section not vented to CD-40) 1.5 million Btu/hr heat input	CD-40	natural gas/propane-fired afterburner; 5.0 million Btu/hr heat input
ES-40C	dry filter electrostatic paint spray booth	N/A	N/A
ES-40D	infrared paint cure oven	N/A	N/A
Oil Filter Line No. 53			
ES-53A	natural gas-fired paper cure oven (with cool down section not vented to CD-53) 2.0 million Btu/hr heat input	CD-53	natural gas/propane-fired afterburner; 3.0 million Btu/hr heat input
ES-53B	natural gas-fired plastisol cure oven (with cool down section not vented to CD-53); 1.5 million Btu/hr heat input		
ES-53C	dry filter electrostatic paint spray booth	N/A	N/A
ES-53D	electrically heated paint cure oven	N/A	N/A
Hydraulic Filter Element Line No. 57			
ES-57A	electrically heated end cap curing	N/A	N/A
ES-57B	final electrically heated cure oven	N/A	N/A
Miscellaneous			
ES-TUPB	touch-up paint spray booth	N/A	N/A
ES-2-1	CC-2 silicone line painting	N/A	N/A
ES-2-2	natural gas-fired silicone line oven; 2.0 million Btu/hr heat input	N/A	N/A

SECTION 2 - SPECIFIC LIMITATIONS AND CONDITIONS

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

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

A. Silicone Line Painting Operation (ID No. ES-2-1) with dry filter-type paint spray booth and electrically heated paint oven

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
particulate matter	$E = 4.10 P^{0.67}$ where E= allowable emission rate in pounds/hr P= process weight rate in tons per hour	15A NCAC 2D .0515
visible emissions	20 percent opacity	15A NCAC 2D .0521
volatile organic compounds	See Section 2.2 B.1.	15A NCAC 2Q .0317 (PSD Avoidance)
volatile organic compounds	See Section 2.2 A.1.	15A NCAC 2D .0958
HAP	See Section 2.2 A.4.	15A NCAC 2D .1111 (40 CFR 63 Subpart MMMM)
TAP	See Section 2.2 A.5. State Enforceable Only	15A NCAC 2Q .0705

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

- a. Emissions of particulate matter from this source shall not exceed an allowable emission rate as calculated by the following equation: [15A NCAC 2D .0515(a)]

$$E = 4.10 \times P^{0.67} \quad \text{Where}$$

E = allowable emission rate in pounds per hour

P = process weight in tons per hour

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

Testing [15A NCAC 2D .0501 (c)(3)]

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

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

- c. The Permittee shall maintain production records that specify the types of materials and finishes processed and shall make these records available to a DAQ authorized representative upon request. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if the production records are not maintained or the types of materials and finishes are not monitored.

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

- a. Visible emissions from the silicone line painting (**ID No. ES-2-1**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521 (d)]

Testing [15A NCAC 2D .0501(c)(8)]

- 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.

- c. **Monitoring** [15A NCAC 2Q .0508(f)]
To assure compliance, once a month the Permittee shall observe the emission points of this source for any visible emissions above normal. If visible emissions from this source are observed to be above normal, the Permittee shall either: (a) be deemed to be in noncompliance with 15A NCAC 2D .0521 or (b) demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .0501(c)(8) is below the limit given in Section 2.1 A.2.a. above. If the demonstration in (b) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0521.
- d. **Recordkeeping** [15A NCAC 2Q .0508(f)]
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.
- e. **Reporting** [15A NCAC 2Q .0508(f)]
The Permittee shall submit a summary report of the observations by January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

B. Natural Gas-fired Silicone Line Oven (ID No. ES-2-2)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
particulate matter	$E = 4.10 P^{0.67}$ where E= allowable emission rate in pounds/hr P= process weight rate in tons per hour	15A NCAC 2D .0515
sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 2D .0516
volatile organic compounds	See Section 2.2 B.1.	15A NCAC 2Q .0317 (PSD Avoidance)
visible emissions	20 percent opacity	15A NCAC 2D .0521
HAP	See Section 2.2 A.4.	15A NCAC 2D .1111 (40 CFR 63 Subpart MMMM)
TAP	See Section 2.2 A.5. State Enforceable Only	15A NCAC 2Q .0705

1. **15A NCAC 2D .0515: PARTICULATES FROM MISCELLANEOUS INDUSTRIAL PROCESSES**
 - a. Emissions of particulate matter from this source shall not exceed an allowable emission rate as calculated by the following equation: [15A NCAC 2D .0515(a)]
 $E = 4.10 \times P^{0.67}$ Where
 E = allowable emission rate in pounds per hour
 P = process weight in tons per hour
 Liquid and gaseous fuels and combustion air are not considered as part of the process weight.
 - b. **Testing** [15A NCAC 2D .0501 (c)(3)]
If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 B.1.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515.
 - c. **Monitoring/Recordkeeping** [15A NCAC 2Q .0508(f)]
The Permittee shall maintain production records that specify the types of materials and finishes processed and shall make these records available to a DAQ authorized representative upon request. The Permittee shall be

deemed in noncompliance with 15A NCAC 2D .0515 if the production records are not maintained or the types of materials and finishes are not monitored.

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

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

Testing [15A NCAC 2D .0501(c)(4)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(4) and General Condition JJ found in Section 3. If the results of this test are above the limit given in Section 2.1 B.2.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516.
- c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the firing of natural gas in this source.

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

- a. Visible emissions from the CC-2 silicone line oven (**ID No. ES-2-2**) 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. [15A NCAC 2D .0521 (d)]

Testing [15A NCAC 2D .0501(c)(8)]

- 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.3.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- c. There is no monitoring, recordkeeping or reporting required for the burning of natural gas.

C. Oil Filter Line No. 6

paper cure oven (ID No. ES-6A) and plastisol cure oven (ID No. ES-6B) with after burner (ID No. CD-6), dry filter electrostatic paint spray booth (ID No. ES-6C), and paint cure oven (ID No. ES-6D).

Air Filter Line No. 8

paper cure oven (ID No. ES-8A) and plastisol cure oven (ID No. ES-8B) with after burner (ID No. CD-8).

Air/Fuel Filter Line No. 10

natural gas-fired preheat oven; 2.0 million Btu/hr heat input (ID No. ES-10A), natural post cure oven; 0.5 million Btu/hr heat input (ID No. ES-10B), natural gas-fired No. 1 gel oven; 1.5 million Btu/hr heat input (ID No. ES-10C), natural gas-fired No. 2 gel oven; 3.5 million Btu/hr heat input (ID No. ES-10D), and after Burner (ID No. CD-10) on Line 10 natural gas-fired plastisol final cure oven (ID No. ES-10E)

Oil/Fuel Filter Line No. 16 Manufacturing

paper cure oven (ID No. ES-16A) and plastisol cure oven (ID No. ES-16B) with after burner (ID No. CD-16).

Oil Filter Line No. 40 Manufacturing

paper cure oven (ID No. ES-40A); and
plastisol cure oven (ID No. ES-40B) with after burner (ID No. CD-40).

Oil Filter Line No. 53 Manufacturing

paper cure oven (ID No. ES-53A) and plastisol cure oven (ID No. ES-53B) with after burner (ID No. CD-53).

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
particulate matter	E= $4.10 P^{0.67}$ where E= allowable emission rate in pounds/hr P= process weight rate in tons per hour	15A NCAC 2D .0515
sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 2D .0516
visible emissions	40 percent opacity for: Air Filter Line No. 8 (all emission sources), Air/Fuel Filter Line (emission sources ES-10C, ES-10D, and ES-10E), and Oil Filter Line No. 53 (all emission sources). 20 percent opacity for: Oil Filter Line No. 6 (all emission sources), Air/Fuel Filter Line ovens (emission sources ES-10A and ES-10B), Oil/Fuel Filter Line No. 16 (all emission sources), and Oil Filter Line No. 40 (all emission sources).	15A NCAC 2D .0521
volatile organic compounds	See Section 2.2 B.1.	15A NCAC 2Q .0317 (PSD Avoidance)
volatile organic compounds	See Section 2.2 A.1.	15A NCAC 2D .0958
toxic air pollutant	See Section 2.2 A.2. State Enforceable Only	15A NCAC 2Q .0711
toxic air pollutant	See Section 2.2 A.3. State Enforceable Only	15A NCAC 2D .1100
HAP	See Section 2.2 A.4.	15A NCAC 2D .1111 (40 CFR 63 Subpart M)
TAP	See Section 2.2 A.5. State Enforceable Only	15A NCAC 2Q .0705

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

- a. Emissions of particulate matter from these sources shall not exceed an allowable emission rate as calculated by the following equation: [15A NCAC 2D .0515(a)]

$$E = 4.10 \times P^{0.67} \quad \text{Where}$$

E = allowable emission rate in pounds per hour

P = process weight in tons per hour

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

Testing [15A NCAC 2D .0501 (c)(3)]

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

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

- c. To comply with the provisions of this permit and ensure that optimum control efficiency is maintained for each after burner, the Permittee shall establish an inspection and maintenance schedule/checklist based on manufacturer's recommendations. In addition to the manufacturer's inspection and maintenance recommendations, or if there is no manufacturer's inspection and maintenance recommendations, as a minimum, the Permittee shall perform an annual inspection of the primary heat exchanger and associated inlet/outlet valves to ensure structural integrity. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if each afterburner is not inspected and maintained.

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

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

- i. the date and time of each recorded action;
- ii. the results of each inspection;
- iii. the results of any maintenance performed on the afterburner; and
- iv. any variance from manufacturer's recommendations, if any, and corrections made.

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

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

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

Testing [15A NCAC 2D .0501(c)(4)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(4) and General Condition JJ found in Section 3. 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 .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.

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

- a. Visible emissions from Air Filter Line No. 8 (all emission sources), Air/Fuel Filter Line (emission sources ES-10C, ES-10D, and ES-10E), and Oil Filter Line No. 53 (all emission sources) listed above 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. [15A NCAC 2D .0521(c)]
- b. Visible emissions from Oil Filter Line No. 6 (all emission sources), Air/Fuel Filter Line ovens (emission sources ES-10A and ES-10B), Oil/Fuel Filter Line No. 16 (all emission sources), and Oil Filter Line No. 40 (all emission sources) listed above 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. [15A NCAC 2D .0521(d)]

- Testing** [15A NCAC 2D .0501(c)(8)]
- c. If an emission 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.3. a. and b. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

- Monitoring** [15A NCAC 2Q .0508(f)]
- d. To assure compliance, once a month the Permittee shall observe the emission points of these sources for any visible emissions above normal. 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 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 .0501(c)(8) is below the limit given in 2.1 C.3.a. and b. 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)]
- e. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
- i. the date and time of each recorded action;
 - ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
 - iii. the results of any corrective actions performed.
- The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521 if these records are not maintained.

- Reporting** [15A NCAC 2Q .0508(f)]
- f. The Permittee shall submit a summary report of the observations postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

D. Oil/Fuel Filter Line No. 16 Painting Operations

dry filter electrostatic paint spray booth (ID No. ES-16C) and electrically heated paint cure oven (ID No. ES-16D).

Oil Filter Line No. 40 Painting Operations

dry filter electrostatic paint spray booth (ID No. ES-40C) and electrically heated paint cure oven (ID No. ES-40D).

Oil Filter Line No. 53 Painting Operations

dry filter electrostatic paint spray booth (ID No. ES-53C) and electrically heated paint cure oven (ID No. ES-53D).

Hydraulic Filter Element Line No. 57

Line 57 hydraulic filter manufacturing line (ID No. ES-57) and electrically-heated curing oven

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
particulate matter	$E = 4.10 P^{0.67}$ where E= allowable emission rate in pounds/hr P= process weight rate in tons per hour	15A NCAC 2D .0515
visible emissions	40 percent opacity for Oil/Fuel Filter Line No. 16 Painting Operations emission sources 20 percent opacity for: Oil Filter Line No. 40 Painting Operations emission sources, Oil Filter Line No. 53 Painting Operations emission sources, and Hydraulic Filter Element Line No. 57 emission source ES-57B.	15A NCAC 2D .0521
volatile organic compounds	See Section 2.2 B.1.	15A NCAC 2Q .0317 (PSD Avoidance)
volatile organic compounds	See Section 2.2 A.1.	15A NCAC 2D .0958
toxic air pollutant	See Section 2.2 A.2. State Enforceable Only	15A NCAC 2Q .0711
toxic air pollutant	See Section 2.2 A.3. State Enforceable Only	15A NCAC 2D .1100
HAP	See Section 2.2 A.4. (excluding ES-57, no HAPs)	15A NCAC 2D .1111 (40 CFR 63 Subpart Mmmm)
TAP	See Section 2.2 A.5. State Enforceable Only	15A NCAC 2Q .0705

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

- a. Emissions of particulate matter from these sources shall not exceed an allowable emission rate as calculated by the following equation: [15A NCAC 2D .0515(a)]

$$E = 4.10 \times P^{0.67} \quad \text{Where}$$

E = allowable emission rate in pounds per hour

P = process weight in tons per hour

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

Testing [15A NCAC 2D .0501 (c)(3)]

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

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

- c. The Permittee shall maintain production records that specify the types of materials and finishes processed and shall make these records available to a DAQ authorized representative upon request. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if the production records are not maintained or the types of materials and finishes are not monitored.

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

- a. Visible emissions from Oil/Fuel Filter Line No. 16 Painting Operations emission sources 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. [15A NCAC 2D .0521(c)]
- b. Visible emissions from Oil Filter Line No. 40 Painting Operations emission sources, Oil Filter Line No. 53 Painting Operations emission sources, and Hydraulic Filter Element Line No. 57 emission source ES-57B. 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. [15A NCAC 2D .0521(d)]

Testing [15A NCAC 2D .0501(c)(8)]

- c. 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 D.2.a. and b. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- d. To assure compliance, once a month the Permittee shall observe the emission points of each source for any visible emissions above normal. If visible emissions from this source are observed to be above normal, the Permittee shall either: (a) be deemed to be in noncompliance with 15A NCAC 2D .0521 or (b) demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .0501(c)(8) is below the limit given in Section 2.1 D.2.a. and b. above. If the demonstration in (b) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0521.

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

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

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

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

E. Air Filter Line No. 18
paper cure oven (ID No. ES-18A),
plastisol cure oven No. 1 (ID No. ES-18B) and
plastisol cure oven No. 2 (ID No. ES-18C).

Touch-Up Paint Spray Booth (ID No. ES-TUPB)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
particulate matter	E= $4.10 P^{0.67}$ where E= allowable emission rate in pounds/hr P= process weight rate in tons per hour	15A NCAC 2D .0515
visible emissions	20 percent opacity	15A NCAC 2D .0521
toxic air pollutant	See Section 2.2 A.2. State Enforceable Only	15A NCAC 2Q .0711
toxic air pollutant	See Section 2.2 A.3. State Enforceable Only	15A NCAC 2D .1100
volatile organic compounds	See Section 2.2 B.2.	15A NCAC 2Q .0317 (PSD Avoidance)
volatile organic compounds	See Section 2.2 A.1.	15A NCAC 2D .0958
TAP	See Section 2.2 A.5. State Enforceable Only	15A NCAC 2Q .0705

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

- a. Emissions of particulate matter from these sources shall not exceed an allowable emission rate as calculated by the following equation: [15A NCAC 2D .0515(a)]
 $E = 4.10 \times P^{0.67}$ Where
E = allowable emission rate in pounds per hour
P = process weight in tons per hour
Liquid and gaseous fuels and combustion air are not considered as part of the process weight.

Testing [15A NCAC 2D .0501 (c)(3)]

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

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

- c. The Permittee shall maintain production records that specify the types of materials and finishes processed and shall make these records available to a DAQ authorized representative upon request. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if the production records are not maintained or the types of materials and finishes are not monitored.

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

- a. Visible emissions from the Air Filter Line No. 18 emissions sources and the paint touch up booth (ID No. ES-TUPB) 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 90 percent opacity. [15A NCAC 2D .0521(c)]

Testing [15A NCAC 2D .0501(c)(8)]

- 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 E.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 for any visible emissions above normal. If visible emissions from this source are observed to be above normal, the Permittee shall either: (a) be deemed to be in noncompliance with 15A NCAC 2D .0521 or (b) demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .0501(c)(8) is below the limit given in Section 2.1 E.2.a. above. If the demonstration in (b) 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.

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

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

F. Air Filter Line No. 32

paper pre-heat oven (ID No. ES-32A),
 infrared paper cure oven (ID No. ES-32B),
 natural gas-fired end cap poly-iso cure oven (ID No. Es-32C), and
 natural gas-fired plastisol/poly-iso gasket cure oven with cool down zone.

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
particulate matter	$E = 4.10 P^{0.67}$ where E= allowable emission rate in pounds/hr P= process weight rate in tons per hour	15A NCAC 2D .0515
sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 2D .0516
visible emissions	20 percent opacity	15A NCAC 2D .0521
volatile organic compounds	Rolling total VOC emissions shall not exceed 40 tons per 12-consecutive month period.	15A NCAC 2Q .0317 (Non attainment Area New Source Review Avoidance)
toxic air pollutant	See Section 2.2 A.2. State Enforceable Only	15A NCAC 2Q .0711
toxic air pollutant	See Section 2.2 A.3. State Enforceable Only	15A NCAC 2D .1100
volatile organic compounds	See Section 2.2 A.1.	15A NCAC 2D .0958
volatile organic compounds	See Section 2.2 B.2.	15A NCAC 2Q .0317 (PSD Avoidance)
TAP	See Section 2.2 A.5. State Enforceable Only	15A NCAC 2Q .0705

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

- a. Emissions of particulate matter from these sources shall not exceed an allowable emission rate as calculated by the following equation: [15A NCAC 2D .0515(a)]
 $E = 4.10 \times P^{0.67}$ Where

E = allowable emission rate in pounds per hour

P = process weight in tons per hour

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

Testing [15A NCAC 2D .0501 (c)(3)]

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

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

- c. The Permittee shall maintain production records that specify the types of materials and finishes processed and shall make these records available to a DAQ authorized representative upon request. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if the production records are not maintained or the types of materials and finishes are not monitored.

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

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

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

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

Testing [15A NCAC 2D .0501(c)(4)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(4) and General Condition JJ found in Section 3. If the results of this test are above the limit given in Section 2.1 F.2.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516.

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

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

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

- a. Visible emissions from Air Filter Line No. 4 emission sources 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 90 percent opacity. [15A NCAC 2D .0521(c)]

Testing [15A NCAC 2D .0501(c)(8)]

- 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 F.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 month the Permittee shall observe the emission points of this source for any visible emissions above normal. 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 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 .0501(c)(8) is below the limit given in Section 2.1 F.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 2Q .0317: AVOIDANCE CONDITIONS
for 15A NCAC 2D .0531: SOURCES IN NONATTAINMENT AREAS**

- a. In order to avoid applicability of 15A NCAC 2D.0531, VOC emissions from Air Filter Line No. 32 shall be less than 40 tons per consecutive 12-month period.

Testing [15A NCAC 2D .0501(c)(17)]

- b. If emissions testing is required, the Permittee shall perform such testing in accordance with General Condition JJ found in Section 3. If the results of this test are above the limit given in Section 2.1 F.4.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0531.

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

- c. Calculations of VOC emissions shall be made monthly and recorded in a logbook (written or electronic format) according to the following formula:

$$T_{VOC} = [Q_{VOC}(\text{paper}) + Q_{VOC}(\text{plastisol}) + Q_{VOC}(\text{other liquids}) + Q_{VOC}(\text{poly-iso})] / 2000$$

where: T_{VOC} = total VOC emissions per month, tons/month

$$Q_{VOC}(\text{paper}) = \sum_{i=1}^n W_i(\text{paper}) * X_i(\text{paper})$$

where:

$Q_{VOC}(\text{paper})$ = VOC emissions per month from paper curing, lb/month

W_i = weight (pounds) of each paper group processed per month in line 32

[Paper groups are organized according to weight percentages of VOC constituents present in each group, as stated in MSDS sheets.]

X_i = weight percent of total VOC constituents evolved per month from each paper group during curing. [The value of X_i for each paper group is (a) the total weight % of VOC constituents in paper as stated in the MSDS, or (b) total weight % of such constituents evolved during curing as determined from DAQ-approved laboratory simulation of paper curing operations, or (c) such total weight % evolved by any other DAQ-approved method.]

i = numeric designation of each paper group processed, and

n = total number of paper groups processed

$$Q_{VOC}(\text{plastisol}) = \sum_{i=1}^n V_i(\text{plastisol}) * \rho_i(\text{plastisol}) * X_i(\text{plastisol})$$

where:

$Q_{VOC}(\text{plastisol})$ = VOC emissions per month from plastisol curing, lb/month

V_i = volume of each plastisol formulation cured in line 32 per month, gal/month

ρ_i = density of each plastisol formulation, lb/gal

X_i = weight percent of total VOC constituents evolved from curing of each plastisol formulation, %w

i = numeric designation of each plastisol formulation processed, and

n = total number of plastisol formulations processed

$$Q_{VOC}(\text{other liquids}) = \sum_{i=1}^n V_i(\text{other liquids}) * \rho_i(\text{other liquids}) * X_i(\text{other liquids})$$

where: Q_{VOC} (other liquids) = VOC emissions pounds per month from use of VOC-containing liquids [VOC-containing liquids include paints, inks, solvents and mold release compounds.]
 V_i = volume of each VOC-containing liquid used in line 32 per month, gal/month
 ρ_i = density of each liquid, lbs/gal, and
 X_i = weight percent of total VOC in each liquid processed, %w

Q_{VOC} (poly-iso) = 320 lbs/yr or 26.67 lbs/month. [This is a DAQ approved potential emission rate, as per the air permit 03860T18 for VOC emissions from polyol-isocyanate resin blending and foam curing operations for line 32 only. Line 18 and touch-up spray booth do not have these process type emissions.]

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0531 if the above records are not kept or the VOC emissions exceed the above limit.

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

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

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

A. Facility Wide

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
volatile organic compounds	facilities with sources with greater than 15 lb/day VOC emissions must implement work practices facility wide	15A NCAC 2D .0958
toxic air pollutant	Toxic Pollutant Emission Rate (TPERs) State Enforceable Only	15A NCAC 2Q .0711
toxic air pollutant	Control of Toxic Air Pollutants State Enforceable Only	15A NCAC 2D .1100
HAP	NESHAP for Surface Coating of Miscellaneous Metal Parts and Products MACT	15A NCAC 2D .1111 (40 CFR 63 Subpart Mmmm)
TAP	Future TAP assessment of facility wide sources due with permit application to comply with last applicable MACT (i.e., Mmmm) State Only Requirement	15A NCAC 2Q .0705(a)(1) 15A NCAC 2Q .0711 15A NCAC 2D .1100

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

- a. Pursuant to 15A NCAC 2D .0958 and 2D .0902, for all sources that use volatile organic compounds (VOC) as solvents, carriers, material processing media, or industrial chemical reactants, or in similar uses that mix, blend, or manufacture volatile organic compounds, or emit volatile organic compounds as a product of chemical reactions, and whose emissions of VOC are greater than 15 pounds per day; the Permittee shall:
 - i. store all material, including waste material, containing volatile organic compounds in tanks or in containers covered with a tightly fitting lid that is free of cracks, holes, or other defects, when not in use,
 - ii. clean up spills of volatile organic compounds as soon as possible following proper safety procedures,
 - iii. store wipe rags containing volatile organic compounds in closed containers,
 - iv. not clean sponges, fabric, wood, paper products, and other absorbent materials with volatile organic compounds,

- v. transfer solvents containing volatile organic compounds used to clean supply lines and other coating equipment into closable containers and close such containers immediately after each use, or transfer such solvents to closed tanks, or to a treatment facility regulated under section 402 of the Clean Water Act,
- vi. clean mixing, blending, and manufacturing vats and containers containing volatile organic compounds by adding cleaning solvent and close the vat or container before agitating the cleaning solvent. The spent cleaning solvent shall then be transferred into a closed container, a closed tank or a treatment facility regulated under section 402 of the Clean Water Act. [15A NCAC 2D .0958(c)]
- b. When cleaning parts with a solvent containing a volatile organic compound, the Permittee shall:
 - i. flush parts in the freeboard area,
 - ii. take precautions to reduce the pooling of solvent on and in the parts,
 - iii. tilt or rotate parts to drain solvent and allow a minimum of 15 seconds for drying or until all dripping has stopped, whichever is longer,
 - iv. not fill cleaning machines above the fill line,
 - v. not agitate solvent to the point of causing splashing. [15A NCAC 2D .0958(d)]

Monitoring

- c. To assure compliance with paragraphs (a) and (b) above, the Permittee shall, at a minimum, perform a visual inspection once per month of all operations and processes utilizing volatile organic compounds. The inspections shall be conducted during normal operations. If the required inspections are not conducted the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0958.

Recordkeeping

- d. The results of the inspections shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. the date and time of each inspection; and
 - ii. the results of each inspection noting whether or not noncompliant conditions were observed.
 If the required records are not maintained the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0958.

Reporting

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

STATE ENFORCEABLE ONLY

2. 15A NCAC 2Q .0711: TOXIC AIR POLLUTANT EMISSIONS LIMITATION

Pursuant to 15A NCAC 2Q .0711 “Emission Rates Requiring a Permit”, for each of the below listed toxic air pollutants (TAPs), the Permittee has made a demonstration that facility-wide actual emissions do not exceed the Toxic Permit Emission Rates (TPERs) listed in 15A NCAC 2Q .0711. The facility shall be operated and maintained in such a manner that emissions of any listed TAPs from the facility, including fugitive emissions, will not exceed TPERs listed in 15A NCAC 2Q .0711.

- a. A permit to emit any of the below listed TAPs shall be required for this facility if actual emissions from all sources will become greater than the corresponding TPERs.
- b. PRIOR to exceeding any of these listed TPERs, the Permittee shall be responsible for obtaining a permit to emit TAPs and for demonstrating compliance with the requirements of 15A NCAC 2D .1100 "Control of Toxic Air Pollutants".
- c. In accordance with the approved application, the Permittee shall maintain records of operational information demonstrating that the TAP emissions do not exceed the TPERs as listed below:

Pollutant (CAS Number)	TPER Limitations			
	Carcinogens (lb/yr)	Chronic Toxicants (lb/day)	Acute Systemic Toxicants (lb/hr)	Acute Irritants (lb/hr)
Benzene (71-43-2)	8.1	----	----	----
Benzo(a)pyrene (50-32-8)	2.2	----	----	----
n-Hexane (110-54-3)	----	23	----	----

Pollutant (CAS Number)	TPER Limitations			
	Carcinogens (lb/yr)	Chronic Toxicants (lb/day)	Acute Systemic Toxicants (lb/hr)	Acute Irritants (lb/hr)
Hexane isomers except n-hexane	----	----	----	92
Methyl Ethyl Ketone (78-93-3)	----	78	----	22.4
Toluene (108-88-3)	----	98	----	14.4
Xylene (1330-20-7)	----	57	----	16.4

3. 15A NCAC 2D .1100: TOXIC AIR POLLUTANT EMISSIONS LIMITATION AND REPORTING REQUIREMENT - State enforceable only

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

Emission Source Source ID Number	Emission Point ID No.	Toxic Air Pollutant	Allowable TAP Emission Rate
Oil Filter Line No. 6			
paper cure oven (ID No. ES-6A) plastisol cure oven (ID No. ES-6B) via afterburner (ID No. CD-6)	EP6_14	phenol formaldehyde	4.45 lb/hr 0.0309 lb/hr
paint booth (ID No. ES-6C)	EP6-16	formaldehyde	0.00924 lb/hr
Air Filter Line No. 8			
paper cure oven (ID No. ES-8A) plastisol cure (ID No. ES-8B) via afterburner (ID No. CD-8)	EP-8	phenol formaldehyde	0.605 lb/hr 0.00539 lb/hr
Air/Fuel Filter Line No. 10			
paper preheat oven (ID No. ES-10A)	EP10A_1 and EP10A_2	phenol formaldehyde	0.0406 lb/hr 0.00460 lb/hr
paper post cure oven (ID No. ES-10B)	EP10A_3	phenol formaldehyde	0.0203 lb/hr 0.00230 lb/hr
No. 1 gel oven (ID No. ES-10C)	EP10_6	DEHP	0.288 lb/day
No. 2 gel oven (ID No. ES-10D)	EP10_8 and EP10_9	DEHP	0.576 lb/day
final cure oven (ID No. ES-10E) via afterburner (ID No CD-10)	EP10_10	DEHP	0.864 lb/day
Oil/Fuel Filter Line No. 16			
paper oven (ID No. ES-16A) plastisol cure oven (ID No. ES-16B) via afterburner (ID No. CD-16)	EP16_3	phenol formaldehyde DEHP	0.866 lb/hr 0.00410 lb/hr 0.2928 lb/day
paint cure oven (ID No. ES-16D)	EP16_9	formaldehyde	0.0104 lb/hr
Air Filter Line No. 18			
paper cure oven (ID No. ES-18A)	EP18_1 and EP18_2	phenol formaldehyde	0.0316 lb/hr 0.0260 lb/hr

Emission Source Source ID Number	Emission Point ID No.	Toxic Air Pollutant	Allowable TAP Emission Rate
Air Filter Line No. 32			
paper preheat oven (ID No. ES-32A)	EP32_A	phenol formaldehyde	0.955 lb/hr 0.0197 lb/hr
paper cure oven (ID No. ES-32B)	EP32_B	phenol formaldehyde	0.955 lb/hr 0.0197 lb/hr
Oil Filter Line No. 40			
paper cure oven (ID No. ES40A)	EP40_2, EP40_3, and EP40_4	phenol formaldehyde	2.706 lb/hr 0.00608 lb/hr
paint booth (ID No. ES-40C)	EP40_17	formaldehyde	0.0154 lb/hr
Oil Filter Line No. 53			
paper oven cool down section (ID No. ES-53A) not vented to afterburner	EP53_4	phenol formaldehyde	0.458 lb/hr 0.00035 lb/hr
paper cure oven (ID No. ES-53A) plastisol cure oven (ID No. ES-53B) via afterburner (ID No. CD-53)	EP53_17	phenol formaldehyde DEHP	1.375 lb/hr 0.00105 lb/hr 0.7512 lb/day
plastisol oven cool down section (ID No. ES-53B) not vented to afterburner	EP_9	DEHP	0.25 lb/day
paint booth (ID No. ES-53C)	EP53_13	formaldehyde	0.0203 lb/hr
Hydraulic Filter Element Line No. 57			
final cure oven (ID No ES-57B)	ES57_1 and EP57_2	phenol formaldehyde	0.0054 lb/hr 0.000671 lb/hr

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

- b. The Permittee shall monitor the monthly amount of filter paper and plastisol used on a line by line basis and report to the DAQ should the amounts exceed those used in determining the emissions used for the ambient impact analyses. If the amount exceeds the quantity used to calculate emissions used for modeling, the Permittee shall notify the DAQ and submit a revised modeling analysis to demonstrate compliance with the acceptable ambient levels for toxic air pollutants.
- 4. 15A NCAC 2D .1111 [40 CFR Part 63 Subpart M]:**
NESHAP for Surface Coating of Miscellaneous Metal Parts and Products
The Permittee shall comply with all applicable provisions contained in Environmental Management Commission Standard 15A NCAC 2D .1111, "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR Part 63, Subpart M by January 1, 2007. [40 CFR 63.3883]
- a. Demonstration of compliance must be made no later than December 31, 2007 [40 CFR 63.3940, 63.3950, and 63.3960].
- b. Notification of compliance status is due by January 30, 2008 [40 CFR 63.3910] and shall consist of:
- i. compliance test results or other initial compliance demonstration, as appropriate, submitted to the DAQ regional office, and
 - ii. a permit application submitted to the DAQ central office for the incorporation of all work practice standards, emission limits, and monitoring, recordkeeping, and reporting requirements to this permit.
- 5. 15A NCAC 2D .0705 - Toxic Air Pollutant Assessment**
15A NCAC 2D .1100: Control of Toxic air Pollutants/15A NCAC 2Q .0711 TPERs
Pursuant to 15 A NCAC 2Q .0705(B)(1), the Permittee shall submit to the DAQ by January 30, 2008 (date for submittal of notification of compliance status and permit application for last applicable MACT - 40 CFR 63, Subpart M), a demonstration that facility wide emissions (does not include emissions from boilers burning virgin fuel) of

toxic air pollutants do not exceed acceptable ambient levels contained in 15A NCAC 2D .1100, or demonstrate that emissions from the affected sources are less than the toxic pollutant exemption rates (TPERs) contained in 15A NCAC 2Q .0711. The submittal shall include:

- a. calculations for the determination of each TAP,
- b. a list that pairs emission sources to emission points using the permit identification numbers (for modeled sources),
- c. the emissions rates for each emission source and emission point for each TAP above the TPER,
- d. the list of TAPs that are emitted below the TPERs,
- e. modeling protocol for all TAPs above the TPERs, and
- f. ambient impact analysis for each TAP above its respective TPER.

Application forms required include forms AA, D1 (TAPS only), and B (for each TAP emission unit, TAPs only).

B. Facility Wide Emissions

Specific Emission Sources in Air Filter Line No. 18, Air Filter Line No. 32, and Touch-up Spray Booth (ID No. ES-TUPB).

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
volatile organic compounds	VOC shall be less than 250 tons per consecutive 12-month period from the entire facility except Air Filter Line No. 18, Air Filter Line No. 32, and touch-up spray booth (ID No. ES-TUPB)	15A NCAC 2Q .0317 (PSD Avoidance)
volatile organic compounds	shall be less than 250 tons per consecutive 12-month period from Air Filter Line No. 18, Air Filter Line No. 32, and touch-up spray booth (ID No. ES-TUPB)	15A NCAC 2Q .0317 (PSD Avoidance)

1. 15A NCAC 2Q .0317: AVOIDANCE CONDITIONS

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

- a. In order to avoid applicability of 15A NCAC 2D.0530(g), VOC emissions from the entire facility, except Air Filter Line No. 18, Air Filter Line No. 32, and touch-up spray booth (ID No. ES-TUPB), shall be less than 250 tons per consecutive 12-month period.

Testing [15A NCAC 2D .0501(c)(17)]

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

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

- c. Calculations of VOC emissions shall be made monthly and recorded in a logbook (written or electronic format) according to the following formula:

$$T_{VOC} = [Q_{VOC} (\text{paper}) + Q_{VOC} (\text{plastisol}) + Q_{VOC} (\text{other liquids}) + Q_{VOC} (\text{combustion})] / 2000$$

where: T_{VOC} = total VOC emissions per month, tons/month

$$Q_{VOC} (\text{paper}) = \sum_{i=1}^n W_i (\text{paper}) * X_i (\text{paper})$$

where: $Q_{VOC} (\text{paper})$ = VOC emissions per month from paper curing, lb/month

W_i = weight in pounds of each paper group processed per month in the facility (except Air Filter Line No. 18, Air Filter Line No. , and touch-up spray booth) Paper groups are organized according to weight percentages of VOC constituents present in each group, as stated in MSDS sheets.

X_i = weight percent of total VOC constituents evolved per month from each paper group during curing [The value of X_i for each paper group is (a) the total weight % of VOC constituents in paper as stated in the MSDS, or (b) total weight % of such constituents evolved during curing as determined from DAQ-approved laboratory simulation of paper curing operations, or (c) such total weight % evolved by any other DAQ-approved method.]

i = numeric designation of each paper group processed, and

n = total number of paper groups processed

$$Q_{\text{VOC}}(\text{plastisol}) = \sum_{i=1}^n V_i(\text{plastisol}) * \rho_i(\text{plastisol}) * X_i(\text{plastisol})$$

where: $Q_{\text{VOC}}(\text{plastisol})$ = VOC emissions per month from plastisol curing, lb/month

V_i = volume of each plastisol formulation cured in the facility (except Air Filter Line No. 18, Air Filter Line No. 32, and touch-up spray booth) per month, gal/month

ρ_i = density of each plastisol formulation, lb/gal

X_i = weight percent of total VOC constituents evolved from curing of each plastisol formulation

i = numeric designation of each plastisol formulation processed, and

n = total number of plastisol formulations processed

$$Q_{\text{VOC}}(\text{other liquids}) = \sum_{i=1}^n V_i(\text{other liquids}) * \rho_i(\text{other liquids}) * X_i(\text{other liquids})$$

where: $Q_{\text{VOC}}(\text{other liquids})$ = VOC emissions in pounds per month from use of VOC-containing liquids [VOC-containing liquids include paints, inks, solvents and mold release compounds.]

V_i = volume of each VOC-containing liquid used in the facility (except Air Filter Line No. 18, Air Filter Line No. 32, and touch-up spray booth) gallons per month,

ρ_i = density of each liquid, lbs/gal, and

X_i = weight percent of total VOC in each liquid processed, %w

$$Q_{\text{VOC}}(\text{combustion}) = E * [V_{\text{gas}}(\text{facility-wide}) - V_{\text{gas}}(\text{line 18}) - V_{\text{gas}}(\text{line 32}) - V_{\text{gas}}(\text{touch-up spray booth})]$$

where: $Q_{\text{VOC}}(\text{combustion})$ = VOC emissions per month from natural gas combustion, lb/month

E = applicable AP-42 emission factor for natural gas combustion, lb/million scf

$V_{\text{gas}}(\text{facility-wide})$ = facility-wide total volume of natural gas burned per month as per vendor invoice, million scf/month

$V_{\text{gas}}(\text{line 18}) = V_{\text{gas}}(\text{facility-wide}) * C_b(\text{line 18}) / C_b(\text{facility-wide})$

$V_{\text{gas}}(\text{line 32}) = V_{\text{gas}}(\text{facility-wide}) * C_b(\text{line 32}) / C_b(\text{facility-wide})$

$V_{\text{gas}}(\text{touch-up spray booth}) = V_{\text{gas}}(\text{facility-wide}) * C_b(\text{touch-up spray booth}) / C_b(\text{facility-wide})$

$C_b(\text{line 18})$ = line 18 rated capacity of natural gas burners in million Btus/hr

$C_b(\text{line 32})$ = line 32 rated capacity of natural gas burners in million Btu/hr

$C_b(\text{touch-up spray booth})$ = touch-up spray booth rated capacity of natural gas in million Btu/hr

$C_b(\text{facility-wide})$ = facility-wide total rated capacity of all natural gas burners in million Btus/hr

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the above records are not kept or the VOC emissions exceed the above limit.

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

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

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

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

- a. In order to avoid applicability of 15A NCAC 2D.0530(g), VOC emissions from Air Filter Line No. 18, Air filter Line No. 32, and touch-up spray booth (ID No. ES-TUPB) shall be less than 250 tons per consecutive 12-month period.

Testing [15A NCAC 2D .0501(c)(17)]

- b. If emissions testing is required, the Permittee shall perform such testing in accordance with General Condition JJ found in Section 3. If the results of this test are above the limit given in Section 2.2 B.2.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.

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

- c. Calculations of VOC emissions shall be made monthly and recorded in a logbook (written or electronic format) according to the following formula:

$$T_{\text{VOC}} = [Q_{\text{VOC}}(\text{paper}) + Q_{\text{VOC}}(\text{plastisol}) + Q_{\text{VOC}}(\text{other liquids}) + Q_{\text{VOC}}(\text{poly-iso})] / 2000$$

where: T_{VOC} = total VOC emissions per month, tons/month

$$Q_{\text{VOC}}(\text{paper}) = \sum_{i=1}^n W_i(\text{paper}) * X_i(\text{paper})$$

where: $Q_{\text{VOC}}(\text{paper})$ = VOC emissions per month from paper curing, lb/month

W_i = weight of each paper group processed in pounds per month in Air Filter Line No. 18, Air Filter Line No. 32, and touch-up spray booth [Paper groups are organized according to weight percentages of VOC constituents present in each group, as stated in MSDS sheets.]

X_i = weight percent of total VOC constituents evolved per month from each paper group during curing [The value of X_i for each paper group is (a) the total weight % of VOC constituents in paper as stated in the MSDS, or (b) total weight % of such constituents evolved during curing as determined from DAQ-approved laboratory simulation of paper curing operations, or (c) such total weight % evolved by any other DAQ-approved method.]

i = numeric designation of each paper group processed, and

n = total number of paper groups processed

$$Q_{\text{VOC}}(\text{plastisol}) = \sum_{i=1}^n V_i(\text{plastisol}) * \rho_i(\text{plastisol}) * X_i(\text{plastisol})$$

where: $Q_{\text{VOC}}(\text{plastisol})$ = VOC emissions per month from plastisol curing, lb/month

V_i = volume of each plastisol formulation cured in Air Filter Line No. 18, Air Filter Line No. 32, and touch-up spray booth per month, in gallons per month

ρ_i = density of each plastisol formulation, lb/gal

X_i = weight percent of total VOC constituents evolved from curing of each plastisol formulation,

i = numeric designation of each plastisol formulation processed, and

n = total number of plastisol formulations processed

$$Q_{\text{VOC}}(\text{other liquids}) = \sum_{i=1}^n V_i(\text{other liquids}) * \rho_i(\text{other liquids}) * X_i(\text{other liquids})$$

where: $Q_{\text{VOC}}(\text{other liquids})$ = VOC emissions per month from use of VOC-containing liquids in pounds per month [VOC-containing liquids include paints, inks, solvents and mold release compounds.]

V_i = volume of each VOC-containing liquid used in Air Filter Line No. 18, Air Filter Line No. 32, and touch-up spray booth) in gallons per month,

ρ_i = density of each liquid, lbs/gal, and

X_i = weight percent of total VOC in each liquid processed,

$Q_{\text{VOC}}(\text{poly-iso}) = 320 \text{ lbs/yr}$ or 26.67 lbs/month [This is a DAQ approved potential emission rate, as per the air permit 03860T18 for VOC emissions from polyol-isocyanate resin blending and foam curing operations for line 32 only. Line 18 and touch-up spray booth do not have these process type emissions.]

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the above records are not kept or the VOC emissions exceed the above limit.

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

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

SECTION 3 - GENERAL CONDITIONS

This section describes terms and conditions applicable to this Title V facility. All references to the “permit” in this section apply only to Part I of the permit.

- A. **General Provisions** [NCGS 143-215 and 15A NCAC 2Q .0508(aa)]
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 that 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(aa)] 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)] 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(c)] Except as otherwise specified herein, two copies of all documents, reports, test data, monitoring data, notifications, request for renewal, and any other information required by this permit shall be submitted to the appropriate Regional Office. Refer to the Regional Office address on the cover page of this permit. For continuous emissions monitoring systems (CEMS) reports, continuous opacity monitoring systems (COMS) reports, quality assurance (QA)/quality control (QC) reports, acid rain CEM certification reports, and NOx budget CEM certification reports, one copy shall be sent to the appropriate Regional Office and one copy shall be sent to:
- Supervisor, Stationary Source Compliance
North Carolina Division of Air Quality
1641 Mail Service Center
Raleigh, NC 27699-1641
- E. **Duty to Comply** [15A NCAC 2Q .0508(j)] 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. 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.
2. 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.
3. 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.

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, 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:
 - a. 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:
 - i. name and location of the facility;
 - ii. nature and cause of the malfunction or breakdown;
 - iii. time when the malfunction or breakdown is first observed;
 - iv. expected duration; and
 - v. estimated rate of emissions;
 - b. notify the Regional Supervisor or Director immediately when corrective measures have been accomplished; and
 - c. 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 notify the Regional Supervisor or Director of all other deviations from permit requirements not covered under 15A NCAC 2D .0535 on the next business day after becoming aware of the deviation. A written report shall be submitted within two business days to the Regional Supervisor and shall include the probable cause of such deviation and any corrective actions or preventative actions taken. All reports of deviations from permit requirements shall be certified by a responsible official.

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 .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(k)] 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(n)]
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)] 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(t)] 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(m)] 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(r) 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(o)]
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(n)] 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 that 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(g)] 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(h)] This permit does not limit the number of Title IV allowances held by the Permittee, but the Permittee may not use allowances as a defense to noncompliance with any other applicable requirement. The Permittee's emissions may not exceed any allowances that the facility lawfully holds under Title IV of the Federal Clean Air Act.
- GG. **Air Pollution Emergency Episode** [15A NCAC 2D .0300] Should the Director of the DAQ declare an Air Pollution Emergency Episode, the Permittee will be required to operate in accordance with the Permittee's previously approved Emission Reduction Plan or, in the absence of an approved plan, with the appropriate requirements specified in 15A NCAC 2D .0300.

- HH. **Registration of Air Pollution Sources** [15A NCAC 2D .0200] The Director of the DAQ may require the Permittee to register a source of air pollution. If the Permittee is required to register a source of air pollution, this registration and required information will be in accordance with 15A NCAC 2D .0202(b).
- II. **Ambient Air Quality Standards** [15A NCAC 2D .0501(e)] In addition to any control or manner of operation necessary to meet emission standards specified in this permit, any source of air pollution shall be operated with such control or in such manner that the source shall not cause the ambient air quality standards in 15A NCAC 2D .0400 to be exceeded at any point beyond the premises on which the source is located. When controls more stringent than named in the applicable emission standards in this permit are required to prevent violation of the ambient air quality standards or are required to create an offset, the permit shall contain a condition requiring these controls.
- JJ. **General Emissions Testing and Reporting Requirements** [15A NCAC 2Q .0508(aa)] 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, the Permittee shall perform such testing in accordance with the appropriate EPA reference method(s) as approved by the DAQ and follow the procedures outlined below. The Permittee must request **in writing** and receive approval from the DAQ for an alternate test method or procedure.
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 certification of the test results by sampling team leader and facility representative;
 - b. 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);
 - c. 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;
 - d. all field, analytical, and calibration data necessary to verify that the testing was performed as specified in the applicable test methods;
 - e. example calculations for at least one test run using equations in the applicable test methods and all test results including intermediate parameter calculations; and
 - f. 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. The use of the test results beyond the stated objectives remains subject to the approval of 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(f)] 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.

ATTACHMENT

List of Acronyms

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