



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 DRAFT

Mr. Mark Godwin
Director of Operations
Purolator Filters NA, LLC
3200 Natal Road
Fayetteville, North Carolina 28306

Dear Mr. Malone:

SUBJECT: Air Quality Permit No. 01757T18
Facility ID: 06/26/00058
Purolator Filters NA, LLC
Fayetteville
Cumberland County
Fee Class: Title V

In accordance with your completed Air Quality Permit Application for a renewal received March 31, 2006, we are forwarding herewith Air Quality Permit No. **01757T18** to Purolator Filters NA, LLC, 3200 Natal Road, Fayetteville, North Carolina authorizing the construction and operation of the emission source(s) and associated air pollution control device(s) specified herein. Additionally, any emissions activities determined from your Air Quality Permit Application as being insignificant per 15A North Carolina Administrative Code 2Q .0503 (8) have been listed for informational purposes as an "ATTACHMENT." Please note the requirements for the annual compliance certification are contained in General Condition P in Section 3 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 the

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

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Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, NC 27699-6714. 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 30 days after issuance.

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

The construction of new air pollution emission source(s) and associated air pollution control device(s), or modifications to the emission source(s) and air pollution control device(s) described in this permit must be covered under an Air Quality Permit issued by the Division of Air Quality prior to construction. Failure to do so 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 MM/DD/YYYY until November 30, 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 Joseph Voelker, P.E. at (919)715-7218.

Sincerely yours,

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

Enclosure

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

ATTACHMENT to cover letter to Air Quality Permit Number 01757T18

Table of Changes

Current Section	Description of Change(s)
Insignificant Activities	<ul style="list-style-type: none"> • Removed three powder paint spray booths ESHD, ESOL4, and ESOL5 and include in oil filter line descriptions. • Removed one natural gas-fired steam generator (1.0 million Btu per hour maximum heat capacity). • Removed three natural gas brazen ovens. • Added ID No. IS-B1 for the natural gas-fired steam generator. • Added ID No. IS-FP1 for the diesel-fueled fire pump. • Added ID No. IS-EG1 for the diesel-fired emergency generator. • Add the mold release operation (ID No. IS-MR1) associated with air filter line (ID No. ESAL4).
Cover	<ul style="list-style-type: none"> • Amended all dates and permit revision numbers. • Updated language per latest shell document.
Table of Contents	<ul style="list-style-type: none"> • Removed Part II.
All Headers	<ul style="list-style-type: none"> • Updated permit number throughout permit.
Equipment Table	<ul style="list-style-type: none"> • Removed footnote stating the permit shield in General Condition R does not apply and compliance certification described in General Condition P is not required. • Revised formatting for oil, fuel, and air filter manufacturing operations. • Updated the descriptions for oil filter lines ESOL2 and ESOL3 to show conversion to powder paint spray booths. • Added powder paint spray booths and Subpart MMMM into the description of the oil filter lines. • Changed oil filter line identification number from ESOL4 to ESOL5. • Changed oil filter line identification number from ESOL5 to ESOL4. • Changed oil filter line identification number from ESOL6 to ESOL7. • Changed heavy duty oil filter line identification number from ESHD to ESOL6. • Changed air filter line identification number from ESAL1 to ESAL4 and changed descriptor from <i>one Polyurethane Panel Air Filter Line (ID No. ESAL1, 960 units per hour design capacity) with one natural gas-fired burner (1.25 million Btu per hour heat input capacity) to One polyurethane conical air filter line (960 units per hour design capacity) with one electric heat set oven and one 1.25 million BTU per hour natural gas-fired cure oven.</i> Upon review by permittee the final descriptor was changed to <i>One polyurethane conical air filter line (960 units per hour design capacity) with one 0.137 million BTU per hour natural gas humidification oven and one 1.25 million BTU per hour natural gas-fired cure oven and one gas heat set oven.</i> Note that this change may not be documented in the review correctly as it was made after a draft review by the Permittee. • Changed air filter line identification number from ESAL3 to ESRADIAL2. • Changed air filter line identification number from ESAL4 to ESAL6. • Changed air filter line identification number from ESAL7 to ESPOLY2 and changed descriptor from <i>one Polyurethane Panel Air Filter Line (ID No. ESAL7, 960 units per hour design capacity)</i> to <i>One polyurethane panel air filter line with one 0.137 million BTU per hour natural gas humidification oven, one electric heat set oven, and one 1.25 million BTU per hour natural gas-fired cure oven.</i> Note that this change may not be documented in the review correctly as it was made after a draft review by the Permittee. Upon review by Permittee it was changed to <i>One polyurethane panel air filter line with one oven, one electric heat set oven, and one 1.25 million BTU per hour natural gas-fired cure oven</i> • Changed air filter line identification number from ESAL8 to ESAL5 and changed descriptor from <i>one Plastisol Panel Air Filter Line (ID No. ESAL8, 3000 units per hour design capacity)</i> to <i>One Plastisol panel air filter line (3,000 units per hour design capacity) with one electric heat set oven and one 1.25 million BTU per hour natural gas-fired cure oven</i>

Current Section	Description of Change(s)
	<p>Upon review by Permittee the descriptor was changed to <i>One Plastisol panel air filter line (3,000 units per hour design capacity) with one electric heat set oven and one 1.25 million BTU per electric IR oven</i></p> <p>Note that this change may not be documented in the review correctly as it was made after a draft review by the Permittee.</p> <ul style="list-style-type: none"> • Updated the source descriptions to show electric ovens have replaced most of the natural gas-fired ovens for ESOL3, ESOL5, and ESOL7. • Removed the plastisol radial air filter line (ID No. ESAL2) and the polyurethane panel air filter line (ID No. ESAL6) . • Added a natural gas-fired humidification oven rated at 0.136 mmBtu/hr to the polyurethane panel air filter line (ID No. ESPOLY2).
2.1.A 2.1.A. Table 2.1.A. Table 2.1.A.4.g 2.1.A.5	<ul style="list-style-type: none"> • Updated source descriptions and identification numbers. • Corrected section reference for VOC work practices. • Removed the reference for toxic air pollutant emissions subject to 2Q .0711. • Changed the reporting frequency for PSD avoidance from quarterly to twice a year. • Added MACT Subpart Mmmm requirements for the oil filter lines.
2.1.B.2.c	<ul style="list-style-type: none"> • Reduced VE observations for the paper dust collector from weekly to once a month and removed the requirement to establish normal in first 30 days following permit issuance.
2.2.A 2.2.A.2 (formerly 2.2.A.3)	<ul style="list-style-type: none"> • Removed the 2Q .0711 requirement for toxic air pollutant emissions. • Revised the emission limits under 2D .1100 • Added recordkeeping requirements to correspond to the existing reporting requirements. The requirements were also made more specific to facilitate compliance determination. The DEHP requirements were strengthened to a daily because of a low margin of compliance (97% of AAL) • Changed the reporting requirements from quarterly to annually by request of the regional compliance inspector during draft permit review.
General Conditions	<ul style="list-style-type: none"> • Updated the general conditions with the latest shell 2.20
N/A	<ul style="list-style-type: none"> • Eliminated Part II

ATTACHMENT
List of Insignificant Activities Pursuant to 15A NCAC 2Q .0503(8)

Emission Source I.D.	Emission Source Description
IS-MR1	Mold release operation associated with air filter line (ID No. ESAL4
IS-CAL	One cabin air filter line
IS-B1	One natural gas-fired boiler (2.0 million BTU per hour heat input capacity)
IS-FP1	One diesel-fueled fire pump (approximately 200 hp capacity)
IS-EG1	One diesel-fired emergency generator (750 KW capacity) not to exceed 500 hours per year

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

State of North Carolina,
Department of Environment,
and Natural Resources

Division of Air Quality



AIR QUALITY PERMIT

Permit No.	Replaces Permit No.(s)	Effective Date	Expiration Date
01757T18	01757T17	PROPOSED	November 30, 2011

Until such time as this permit expires or is modified or revoked, the below named Permittee is permitted to construct and operate the emission source(s) and associated air pollution control device(s) specified herein, in accordance with the terms, conditions, and limitations within this permit. This permit is issued under the provisions of Article 21B of Chapter 143, General Statutes of North Carolina as amended, and Title 15A North Carolina Administrative Codes (15A NCAC), Subchapters 2D and 2Q, and other applicable Laws.

Pursuant to Title 15A NCAC, Subchapter 2Q, the Permittee shall not construct, operate, or modify any emission source(s) or air pollution control device(s) without having first submitted a complete Air Quality Permit Application to the permitting authority and received an Air Quality Permit, except as provided in this permit.

Permittee:

Purolator Filters NA, LLC

Facility ID:

06/26/00058

Facility Site Location:

3200 Natal Road

**City, County, State, Zip:
28306**

Fayetteville, Cumberland County, North Carolina

Mailing Address:

3200 Natal Road

City, State, Zip:

Fayetteville, North Carolina 28306

Application Number:

2600058.06B and 2600058.06C

Complete Application Date:

March 31, 2006

Primary SIC Code:

3714

Division of Air Quality,

Fayetteville Regional Office

Regional Office Address:

225 Green Street

Fayetteville, North Carolina 28301

Permit issued this the **XX** th day of **MM**, 2008

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

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PART I

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

SECTION 3: GENERAL PERMIT CONDITIONS

ATTACHMENT

List of Acronyms

PART II

This permit contains no Part II

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 SOURCES AND ASSOCIATED AIR POLLUTION CONTROL DEVICES AND APPURTENANCES

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

Emission Source ID	Emission Source Description	Control Device ID	Control Device Description
OIL FILTER MANUFACTURING OPERATIONS			
ESOL1 MACT SUBPART MMMM	One oil filter line (7,200 units per hour design capacity) with an electric heat set oven, an electric pre-gel oven, a 2.0 million BTU per hour per hour natural gas-fired final cure oven, and an electric paint spray booth and a 2.5million Btu per hour natural gas fired paint cure oven	N/A	N/A
ESOL2 MACT SUBPART MMMM	One oil filter line (7,200 units per hour design capacity) with an electric heat set oven, an electric pre-gel oven, a 2.0 million BTU per hour per hour natural gas-fired final cure oven, and one powder coating paint spray booth*	N/A	N/A
ESOL3 MACT SUBPART MMMM	One oil filter line (7,200 units per hour design capacity) with one 0.5 million BTU per hour natural gas-fired heat set oven, one electric induction top cap oven, one electric induction bottom cap oven, and one powder coating paint spray booth*	N/A	N/A
ESOL4 MACT SUBPART MMMM	One oil filter line (9,600 units per hour design capacity) with two 1.5 million BTU per hour natural gas-fired heat set ovens, one electric pre-gel oven, one 1.2 million BTU per hour natural gas fired final cure oven, and one powder coating paint spray booth*	N/A	N/A

Emission Source ID	Emission Source Description	Control Device ID	Control Device Description
ESOL5 MACT SUBPART MMMM	One oil filter line (5,700 units per hour design capacity) with one 1.5 million BTU per hour natural gas-fired heat set oven, one top cap electric induction oven, one bottom cap electric induction oven, and one powder paint spray booth*	N/A	N/A
ESOL6 MACT SUBPART MMMM	One heavy duty oil filter line (3,600 units per hour design capacity) with one electric heat set oven, one electric pre-gel oven, one 1.5 million BTU per hour natural gas fired final cure oven, and one powder coating paint spray booth*	N/A	N/A
ESOL7 MACT SUBPART MMMM	One oil filter line (5,700 units per hour design capacity) with one 1.5 million BTU per hour natural gas-fired heat set oven, one top cap electric induction oven, one bottom cap electric induction oven, and one powder paint spray booth*	N/A	N/A
ESCBA	One case bottom assembly	N/A	N/A
ESOLDC	One paper dust collection system with collection points on ESOL1, ESOL2, and ESOL3	CDOLDC	One bagfilter (1,310 square feet of filter area)
FUEL FILTER MANUFACTURING OPERATIONS			
ESGL1	One fuel filter line (3,600 units per hour design capacity) with one electric heat set oven, one 1.5 million BTU per hour natural gas-fired pre-gel oven, and one 0.5 million BTU per hour natural gas-fired final cure oven	N/A	N/A
ESGL2	One fuel filter line (420 units per hour design capacity) with one 0.5 million BTU per hour natural gas-fired heat set oven, one 0.5 million BTU per hour natural gas-fired pre-gel oven, and one 2.5 million BTU per hour natural gas-fired final cure oven	N/A	N/A
AIR FILTER MANUFACTURING OPERATIONS			
ESAL4	One polyurethane conical air filter line (960 units per hour design capacity) with one electric heat set oven and one 1.25 million BTU per hour natural gas-fired cure oven	N/A	N/A
ESAL5	One Plastisol panel air filter line (3,000 units per hour design capacity) with one electric heat set oven and one 1.25 million BTU per	N/A	N/A

Emission Source ID	Emission Source Description	Control Device ID	Control Device Description
	hour natural gas-fired cure oven		
ESAL6	One Plastisol panel air filter line (120 units per hour design capacity) with one electric cure oven	N/A	N/A
ESRADIAL2	One Plastisol radial air filter line (1,500 units per hour design capacity) with one electric heat set oven, one 2.0 million BTU per hour natural gas-fired pre-gel oven, and one 0.5 million BTU per hour natural gas-fired cure oven	N/A	N/A
ESPOLY2	One polyurethane panel air filter line with one 0.137 million BTU per hour natural gas humidification oven, one electric heat set oven, and one 1.25 million BTU per hour natural gas-fired cure oven	N/A	N/A

*The powder paint spray booths meet the definition of insignificant activities under 15A NCAC 2Q .0503(8). These sources are listed because they are included in the calculations for compliant coatings under 40 CFR 63, Subpart M in Section 2.1.A.5 of the permit.

SECTION 2 - SPECIFIC LIMITATIONS AND CONDITIONS

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

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

- A. Seven Oil Filter Lines (ID Nos. ESOL1 through ESOL7);**
- Two Fuel Filter Lines (ID Nos. ESGL1 and ESGL2);**
- Five Air Filter Lines (ID Nos. ESAL4, ESAL5, ESAL6, ESRADIAL2, and ESPOLY2); and**
- One Case Bottom Assembly (ID No. ESCBA)**

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	$E=4.10P^{0.67}$ where E = allowable emission rate in pounds per hour P = process weight in tons per hour	15A NCAC 2D .0515
sulfur dioxide	2.3 pounds per million Btu heat input (natural gas-fired ovens only)	15A NCAC 2D .0516
visible emissions	40 percent opacity (ESOL1 and ESOL3)	15A NCAC 2D .0521(c)
	20 percent opacity (ESOL2, ESOL4, ESOL5, ESOL6, ESOL7, ESGL1, ESGL2, ESAL4, ESAL5, ESAL6, ESRADIAL2, ESPOLY2, and ESCBA)	15A NCAC 2D .0521(d)

Regulated Pollutant	Limits/Standards	Applicable Regulation
volatile organic compounds	PSD Avoidance Condition: less than 40 tons per year (ESOL5)	15A NCAC 2Q .0317 Avoidance of 2D .0530
volatile organic compounds	PSD Avoidance Condition: less than 40 tons per year (ES06)	15A NCAC 2Q .0317 Avoidance of 2D .0530
volatile organic compounds	PSD Avoidance Condition: less than 40 tons per year (ESGL2)	15A NCAC 2Q .0317 Avoidance of 2D .0530
volatile organic compounds	PSD Avoidance Condition: less than 40 tons per year (ESOL4, ESCBA and ESPOLY2)	15A NCAC 2Q .0317 Avoidance of 2D .0530
volatile organic compounds	Work Practices - see Section 2.2 A.1. - Multiple Source Emission Limitations	15A NCAC 2D .0958
toxic air pollutants	State-enforceable only: see Section 2.2 A.2 - Multiple Source Emission Limitations	15A NCAC 2D .1100
odorous emissions	State-enforceable only: see Section 2.2 A.3. - Multiple Source Emission Limitations	15A NCAC 2D .1806
hazardous air pollutants	Maximum achievable control technology using compliant coating materials option (ID Nos. ESOL1 through ESOL7)	15A NCAC 2D .1111 (Subpart MMMM, "NESHAP for Surface Coating of Miscellaneous Metal Parts and Products")

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

- a. Emissions of particulate matter from the oil, fuel, and air filter lines (**ID No. ESOL1 through ESOL7, ESGL1, ESGL2, ESAL4, ESAL5, ESAL6, ESRADIAL2, and ESPOLY2**) and case bottom assembly (**ID No. ESCBA**) shall not exceed an allowable emission rate as calculated by the following equation: [15A NCAC 2D .0515(a)]

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

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

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

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

- c. The Permittee shall maintain production records such that the process rates "P" in tons per hour, as specified by the formulas contained above (or the formulas contained in 15A NCAC 2D .0515) can be derived, and shall make these records available to a DAQ authorized representative upon request. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if the production records are not maintained or the types of materials and finishes are not monitored.

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

- a. Emissions of sulfur dioxide from the natural gas-fired ovens associated with the oil, fuel, and air filter lines (**ID No. ESOL1 through ESOL7, ESGL1, ESGL2, ESAL4, ESAL5, ESRADIAL2, and ESPOLY2**) 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 A. 2. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516.

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

- c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the combustion of natural gas.

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

- a. Visible emissions from oil filter lines (**ID Nos. ESOL1 and ESOL3**) 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 (d)]

- b. Visible emissions from the oil, fuel, and air filter lines (**ID Nos. ESOL2, ESOL4, ESOL5, ESOL6, ESOL7, ESGL1, ESGL2, ESAL4, ESAL5, ESAL6, ESRADIAL2, and ESPOLY2**) and case bottom assembly (**ID No. ESCBA**) 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 found in Section 3. If the results of this test are above any limit given in Section 2.1 A. 3. a or b. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- d. No monitoring/recordkeeping/reporting is required for visible emissions.

**4. 15A NCAC 2Q .0317: AVOIDANCE CONDITION for
15A NCAC 2D. 0530: PREVENTION OF SIGNIFICANT DETERIORATION**

- a. In order to avoid applicability of this regulation, VOC emissions from the oil filter line (**ID No. ESOL5**) shall be less than 40 tons of VOCs per consecutive 12-month period. [15A NCAC 2D .0530]
- b. In order to avoid applicability of this regulation, VOC emissions from the heavy duty oil filter line (**ID No. ES07**) shall be less than 40 tons of VOCs per consecutive 12-month period. [15A NCAC 2D .0530]
- c. In order to avoid applicability of this regulation, VOC emissions from the fuel filter line (**ID No. ESGL2**) shall be less than 40 tons of VOCs per consecutive 12-month period. [15A NCAC 2D .0530]
- d. In order to avoid applicability of this regulation, VOC emissions from oil filter line (**ID No. ESOL4**), air filter line (**ID Nos. ESPOLY2**), and the case bottom assembly (**ID No. ESCBA**) shall be less than 40 tons of VOCs total per consecutive 12-month period. [15A NCAC 2D .0530]

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

- e. Calculations of VOC emissions per month shall be made at the end of each month. VOC emissions shall be determined by multiplying the total amount of each type of VOC-containing material consumed during the month by the VOC content of the material or DAQ approved site-specific emission factors. The Permittee shall

be deemed in noncompliance with 15A NCAC 2D .0530 if the amounts of VOC containing materials are not monitored and recorded.

- f. Calculations and the total amount of VOC emissions shall be recorded monthly in a logbook (written or electronic format). The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the VOC emissions exceed any limit given in Section 2.1 A. 4. a, b, c, or d above.

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

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

5. 15A NCAC 2D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY

- a. The Permittee shall comply with all applicable provisions contained in Environmental Management Commission Standard 15A NCAC 2D .1111, "Maximum Achievable Control Technology" as promulgated in 40 CFR 63, Subpart M, "National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products", by January 2, 2007 for the coating operations associated with oil filter lines (**ID Nos. ESOL1 through ESOL7**) using the emission rate without add-on controls option.

Emission Limit [40 CFR 63.3890]

- b. For the coating operations associated with oil filter lines (**ID Nos. ESOL1 through ESOL7**), the Permittee shall limit organic HAP emissions to the atmosphere to no more than 0.31 kg (2.6 lb) organic HAP per liter (gal) coating solids used during each 12-month compliance period;

Compliance Demonstration [40 CFR 63.3891]

- c. The Permittee shall demonstrate that, based on the coatings, printing inks, thinners and/or other additives, and cleaning materials used in the coating operations, the organic HAP emission rate for the coating operations is less than or equal to the emission limit in Section 2.1 A.5.b above, calculated as a rolling 12-month emission rate and determined on a monthly basis. The Permittee shall meet all of the following requirements to demonstrate compliance with the emission limit.
 - i. The Permittee shall complete the initial compliance demonstration for the initial compliance period ending on **January 1, 2008**, according to the requirements of Section 2.1 A.5.c.i.A through G below. The Permittee shall determine the mass of organic HAP emissions and volume of coating solids used each month, and then calculate an organic HAP emission rate at the end of the initial compliance period. The demonstration shall include the calculations according to Section 2.1 A.5.c.i.E. below and supporting documentation showing that during the initial compliance period the organic HAP emission rate is equal to or less than the emission limit in Section 2.1 A.5.b. above. If the Permittee uses coatings, printing inks, thinners and/or other additives, or cleaning materials that have been reclaimed on-site, the amount of each used in a month may be reduced by the amount of each that is reclaimed. That is, the amount used may be calculated as the amount consumed to account for materials that are reclaimed.
 - A. **Determine the mass fraction of organic HAP for each material used.** The Permittee shall determine the mass fraction of organic HAP for each coating, printing ink, thinner and/or other additive, and cleaning material used during the compliance period by using one of the following options:
 - (1). **Method 311 (Appendix A to 40 CFR Part 63).** The Permittee may use Method 311 for determining the mass fraction of organic HAP by using the following procedures:
 - (a). Count each organic HAP that is measured to be present at 0.1 percent by mass or more for Occupational Safety and Health Administration (OSHA)-defined carcinogens as specified in 29 CFR 1910.1200(d)(4) and at 1.0 percent by mass or more for other compounds. For example, if toluene (not an OSHA carcinogen) is measured to be 0.5 percent of the material by mass, the Permittee does not have to count it. Express the mass fraction of

- each organic HAP counted as a value truncated to four places after the decimal point (e.g., 0.3791).
- (b). Calculate the total mass fraction of organic HAP in the test material by adding up the individual organic HAP mass fractions and truncating the result to three places after the decimal point (e.g., 0.763).
- (2). Method 24 (Appendix A to 40 CFR Part 60). For coatings, the Permittee may use Method 24 to determine the mass fraction of nonaqueous volatile matter and use that value as a substitute for mass fraction of organic HAP. For reactive adhesives in which some of the HAP react to form solids and are not emitted to the atmosphere, the Permittee may use the alternative method contained in Appendix A to Subpart PPPP of this Part, rather than Method 24. The Permittee may use the volatile fraction that is emitted, as measured by the alternative method in Appendix A to Subpart PPPP of this Part, as a substitute for the mass fraction of organic HAP.
- (3). Alternative method. The Permittee may use an alternative test method for determining the mass fraction of organic HAP once the Administrator has approved it. The Permittee shall follow the procedure in 63.7(f) to submit an alternative test method for approval.
- (4). Information from the supplier or manufacturer of the material. The Permittee may rely on information other than that generated by the test methods specified in Section 2.1 A.5.c.i.A (1) through (3) above, such as manufacturer's formulation data, if it represents each organic HAP that is present at 0.1 percent by mass or more for OSHA-defined carcinogens as specified in 29 CFR 1910.1200(d)(4) and at 1.0 percent by mass or more for other compounds. For example, if toluene (not an OSHA carcinogen) is 0.5 percent of the material by mass, the Permittee does not have to count it. For reactive adhesives in which some of the HAP react to form solids and are not emitted to the atmosphere, the Permittee may rely on manufacturer's data that expressly states the organic HAP or volatile matter mass fraction emitted. If there is a disagreement between such information and results of a test conducted according to Section 2.1 A.5.c.i.A (1) through (3) above, then the test method results will take precedence unless, after consultation, the Permittee demonstrates to the satisfaction of DAQ that the formulation data are correct.
- (5). Solvent blends. Solvent blends may be listed as single components for some materials in data provided by manufacturers or suppliers. Solvent blends may contain organic HAP, which must be counted toward the total organic HAP mass fraction of the materials. When test data and manufacturer's data for solvent blends are not available, the Permittee may use the default values for the mass fraction of organic HAP in these solvent blends listed in Table 3 or 4 of Subpart MMMM. If using the tables, the Permittee shall use the values in Table 3 for all solvent blends that match Table 3 entries according to the instructions for Table 3, and may use Table 4 only if the solvent blends in the materials do not match any of the solvent blends in Table 3 and if the Permittee knows only whether the blend is aliphatic or aromatic. However, if the results of a Method 311 (Appendix A to 40 CFR Part 63) test indicate higher values than those listed on Table 3 or 4 to this Subpart, the Method 311 results will take precedence unless, after consultation, the Permittee demonstrates to the satisfaction of DAQ that the formulation data are correct.
- B. Determine the volume fraction of coating solids. The Permittee shall determine the volume fraction of coating solids (liters (gal) of coating solids per liter (gal) of coating) for each coating used during the compliance period by a test, by information provided by the supplier or the manufacturer of the material, or by calculation, as specified in Section 2.1 A.5.c.i.B.(1) through (4) below. If test results obtained according to Section 2.1 A.5.c.i.B.(1) below do not agree with the information obtained under Section 2.1 A.5.c.i.B.(3) or (4) below, the test results will take precedence unless, after consultation, the Permittee demonstrates to the satisfaction of DAQ that the formulation data are correct.
- (1). ASTM Method D2697-86 (Reapproved 1998) or ASTM Method D6093-97 (Reapproved 2003). The Permittee may use ASTM Method D2697-86 (Reapproved 1998), "Standard Test Method for Volume Nonvolatile Matter in Clear or Pigmented Coatings" (incorporated by reference, see Sec. 63.14), or ASTM Method D6093-97 (Reapproved 2003), "Standard Test Method for Percent Volume Nonvolatile Matter in Clear or Pigmented Coatings Using a Helium Gas Pycnometer" (incorporated by reference, see 63.14), to determine the volume fraction of coating solids for each coating. Divide the nonvolatile volume percent obtained with the methods by 100 to calculate volume fraction of coating solids.

- (2). Alternative method. The Permittee may use an alternative test method for determining the solids content of each coating once the Administrator has approved it. The Permittee shall follow the procedure in 63.7(f) to submit an alternative test method for approval.
- (3). Information from the supplier or manufacturer of the material. The Permittee may obtain the volume fraction of coating solids for each coating from the supplier or manufacturer.
- (4). Calculation of volume fraction of coating solids. The Permittee may determine the volume fraction of coating solids using the following equation:

$$V_s = 1 - \frac{m_{\text{volatiles}}}{D_{\text{avg}}} \quad (\text{Eq. 1})$$

Where: V_s = Volume fraction of coating solids, liters (gal) coating solids per liter (gal) coating.

$m_{\text{volatiles}}$ = Total volatile matter content of the coating, including HAP, volatile organic compounds (VOC), water, and exempt compounds, determined according to Method 24 in Appendix A of 40 CFR Part 60, grams volatile matter per liter coating.

D_{avg} = Average density of volatile matter in the coating, grams volatile matter per liter volatile matter, determined from test results using ASTM Method D1475-98, "Standard Test Method for Density of Liquid Coatings, Inks, and Related Products" (incorporated by reference, see 63.14), information from the supplier or manufacturer of the material, or reference sources providing density or specific gravity data for pure materials. If there is disagreement between ASTM Method D1475-98 test results and other information sources, the test results will take precedence unless, after consultation the Permittee demonstrates to the satisfaction of DAQ that the formulation data are correct.

- C. Determine the density of each material. Determine the density of each liquid coating, printing ink, thinner and/or other additive, and cleaning material used during each month from test results using ASTM Method D1475-98, "Standard Test Method for Density of Liquid Coatings, Inks, and Related Products" (incorporated by reference, see 63.14), information from the supplier or manufacturer of the material, or reference sources providing density or specific gravity data for pure materials. If the Permittee is including powder coatings in the compliance determination, determine the density of powder coatings, using ASTM Method D5965-02, "Standard Test Methods for Specific Gravity of Coating Powders" (incorporated by reference, see 63.14), or information from the supplier. If there is disagreement between ASTM Method D1475-98 or ASTM Method D5965-02 test results and other such information sources, the test results will take precedence unless, after consultation the Permittee demonstrates to the satisfaction of DAQ that the formulation data are correct. If the facility purchases materials or monitors consumption by weight instead of volume, then the Permittee does not need to determine material density. Instead, the Permittee may use the material weight in place of the combined terms for density and volume in Equations 1A, 1B, 1C, and 2 below.
- D. Determine the volume of each material used. Determine the volume (liters or gallons) of each coating, thinner and/or other additive, and cleaning material used during each month by measurement or usage records. If the facility purchases materials or monitors consumption by weight instead of volume, the Permittee does not need to determine the volume of each material used. Instead, the Permittee may use the material weight in place of the combined terms for density and volume in Equations 1A, 1B, and 1C below.
- E. Calculate the mass of organic HAP emissions. The mass of organic HAP emissions is the combined mass of organic HAP contained in all coatings, thinners and/or other additives, and cleaning materials used during each month minus the organic HAP in certain waste materials. Calculate the mass of organic HAP emissions using Equation 1 of this section.

$$H_e = A + B + C - R_w \quad (\text{Eq. 1})$$

Where: H_e = Total mass of organic HAP emissions during the month, kg (lb).

A = Total mass of organic HAP in the coatings used during the month, kg (lb), as calculated in Equation 1A of this section.

B = Total mass of organic HAP in the thinners and/or other additives used during the month, kg (lb), as calculated in Equation 1B of this section.

C = Total mass of organic HAP in the cleaning materials used during the month, kg (lb), as calculated in Equation 1C of this section.

R_w = Total mass of organic HAP in waste materials sent or designated for shipment to a hazardous waste TSDF for treatment or disposal during the month, kg (lb), determined according to Section 2.1 C.i.E.(4) below. (The Permittee may assign a value of zero to R_w if the facility does not wish to use this allowance.)

- (1) Calculate the total mass of organic HAP in the coatings used during the month using Equation 1A of this section:

$$A = \sum_{i=1}^m (\text{Vol}_{c,i}) (D_{c,i}) (W_{c,i}) \quad (\text{Eq. 1A})$$

Where: A = Total mass of organic HAP in the coatings used during the month, kg (lb).
Vol_{c,i} = Total volume of coating, i, used during the month, liters (gal).
D_{c,i} = Density of coating, i, kg (lb) coating per liter coating.
W_{c,i} = Mass fraction of organic HAP in coating, i, kg (lb) organic HAP per kg (lb) coating. For reactive adhesives, use the mass fraction of organic HAP that is emitted as determined using the method in Appendix A to Subpart PPPP of this Part.
m = Number of different coatings used during the month.

- (2). Calculate the total mass of organic HAP in the thinners and/or other additives used during the month using Equation 1B of this section:

$$B = \sum_{j=1}^n (\text{Vol}_{t,j}) (D_{t,j}) (W_{t,j}) \quad (\text{Eq. 1B})$$

Where: B = Total mass of organic HAP in the thinners and/or other additives used during the month, kg (lb).
Vol_{t,j} = Total volume of thinner and/or other additive, j, used during the month, liters (gal).
D_{t,j} = Density of thinner and/or other additive, j, kg per liter (lb/gal).
W_{t,j} = Mass fraction of organic HAP in thinner and/or other additive, j, kg (lb) organic HAP per kg (lb) thinner and/or other additive. For reactive adhesives, use the mass fraction of organic HAP that is emitted as determined using the method in Appendix A to Subpart PPPP of this Part.
n = Number of different thinners and/or other additives used during the month.

- (3). Calculate the total mass of organic HAP in the cleaning materials used during the month using Equation 1C of this section:

$$C = \sum_{k=1}^p (\text{Vol}_{s,k}) (D_{s,k}) (W_{s,k}) \quad (\text{Eq. 1C})$$

Where: C = Total mass of organic HAP in the cleaning materials used during the month, kg (lb).
Vol_{s,k} = Total volume of cleaning material, k, used during the month, liters (gal).
D_{s,k} = Density of cleaning material, k, kg per liter (lb/gal).
W_{s,k} = Mass fraction of organic HAP in cleaning material, k, kg (lb) organic HAP per kg (lb) material.
p = Number of different cleaning materials used during the month.

- (4). If the facility chooses to account for the mass of organic HAP contained in waste materials sent or designated for shipment to a hazardous waste TSDF in Equation 1 of this section, then the Permittee shall determine the mass as follows:
- The Permittee may only include waste materials in the determination that are generated by coating operations in the affected source for which the facility uses Equation 1 of this section and that will be treated or disposed of by a facility that is regulated as a TSDF under 40 CFR Part 262, 264, 265, or 266. The TSDF may be either off-site or on-site. The Permittee shall not include organic HAP contained in wastewater.
 - The Permittee shall determine either the amount of the waste materials sent to a TSDF during the month or the amount collected and stored during the month and designated for future transport to a TSDF. This determination shall not include any waste materials sent to a TSDF during a month if the Permittee has already included them in the amount collected and stored during that month or a previous month.
 - Determine the total mass of organic HAP contained in the waste materials specified in Section (ii) above.
 - The Permittee shall document the methodology used to determine the amount of waste materials and the total mass of organic HAP they contain, as required in Section 2.1 A.5.g.vi.below. If waste manifests include this information, they may be used as part of the documentation of the amount of waste materials and mass of organic HAP contained in them.
- F. Calculate the total volume of coating solids used. Determine the total volume of coating solids used, liters (gal), which is the combined volume of coating solids for all the coatings used during each month, using Equation 2 of this section:

$$V_{st} = \sum_{i=1}^m (Vol_{c,i})(V_{s,i}) \quad (\text{Eq. 2})$$

V_{st} = Total volume of coating solids including powdered paint used during the month, liters (gal).

Where:

$Vol_{c,i}$ = Total volume of coating, i, used during the month, liters (gal).

$V_{s,i}$ = Volume fraction of coating solids for coating, i, liter solids per liter coating, determined according to Section 2.1 A.3.c.i.B.2 above.

m = Number of coatings used during the month.

- G. Calculate the organic HAP emission rate. Calculate the organic HAP emission rate for the compliance period, kg (lb) organic HAP emitted per liter (gal) coating solids used, using Equation 3 of this section:

$$H_{yr} = \frac{\sum_{y=1}^n H_e}{\sum_{y=1}^n V_{st}} \quad (\text{Eq. 3})$$

Where: H_{yr} = Average organic HAP emission rate for the compliance period, kg (lb) organic HAP emitted per liter coating solids used.

H_e = Total mass of organic HAP emissions from all materials used during month, y, kg (lb), as calculated by Equation 1 of this section.

V_{st} = Total volume of coating solids used during month, y, liters (gal), as calculated by Equation 2 of this section.

y = Identifier for months.

n = Number of full or partial months in the compliance period (for the initial compliance period, n equals 12 if the compliance date falls on the first day of a month; otherwise n equals 13; for all following compliance periods, n equals 12).

- H. Compliance demonstration. The organic HAP emission rate for the initial compliance period calculated using Equation 3 of this section shall be less than or equal to the emission limit in Section 2.1 A.5.b above. The Permittee shall keep all records as required by Section 2.1 A.5.g below. As part of the notification of compliance status required by Section 2.1 A.5.f below, the

Permittee shall identify the facility uses the emission rate without add-on controls option and submit a statement that the coating operations are in compliance with the emission limitation during the initial compliance period because the organic HAP emission rate is less than or equal to the emission limit in Section 2.1 A.5.b. above, determined according to the procedures in this section.

- ii. A. To demonstrate continuous compliance, the organic HAP emission rate for each compliance period, determined according to Section above, shall be less than or equal to the emission limit in Section 2.1 A.5 b. above. A compliance period consists of 12 months. Each month after the end of the initial compliance period, described in Section 2.1 A.5.c.i. above, is the end of a compliance period consisting of that month and the preceding 11 months. The Permittee shall perform the calculations in Section 2.1 A.5.c.i.A through G above on a monthly basis using data from the previous 12 months of operation.
- B. If the organic HAP emission rate for any 12-month compliance period exceeds the emission limit in Section 2.1 A.5.b above, the Permittee shall report the excess emissions as a deviation from the emission limitation for that compliance period as specified in Sections 2.1 A.5.f.v and 2.1 A.5.h.ix below.
- C. As part of each semiannual compliance report required by Section 2.1 A.5.h. below, the Permittee shall identify the facility uses the emission rate without add-on controls option. If there are no deviations from the emission limitations, the Permittee shall submit a statement that the coating operations are in compliance with the emission limitations during the reporting period because the organic HAP emission rate for each compliance period is less than or equal to the emission limit in Section 2.1 A.5.b. above, determined according to Section 2.1.A.5.c.i.A through G above.
- D. The Permittee shall maintain records as specified in Section 2.1 A.5.g below.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1111 if the monthly compliance demonstration is not conducted as required above or if the compliance demonstration shows an exceedance of the emission limitation in Section 2.1 A.5.b above

Operating Limits/Work Practice Standards [40 CFR 63.3892 and 63.3893]

- d. For the coating operations associated with oil filter lines (**ID Nos. ESOL1 through ESOL7**), the Permittee is not required to meet any operating limits or work practice standards for the emission rate without add-on controls option.

Notifications [40 CFR 63.3910]

- e. The Permittee shall submit the notifications in 63.7(b) and (c), 63.8(f)(4), and 63.9(b) through (e) and (h) that apply to the facility by the dates specified in those sections, except as provided in Section 2.1 A.5.f below.
- f. The Permittee shall submit the notification of compliance status required by 63.9(h) by **March 3, 2008**. The notification of compliance status shall contain the following information and the information in 63.9(h).
 - i. Company name and address;
 - ii. Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report;
 - iii. Date of the report and beginning and ending dates of the reporting period;
 - iv. Statement of whether or not the affected source achieved the emission limitations for the initial compliance period;
 - v. If the Permittee had a deviation, include the following information:
 - A. A description and statement of the cause of the deviation; and
 - B. If the Permittee failed to meet the emission limit in Section 2.1 A.5.b above, include all the calculations used to determine the kg (lb) of organic HAP emitted per liter (gal) coating solids used. The Permittee does not need to submit information provided by the materials' suppliers or manufacturers, or test reports;
 - vi. For each of the following data items that are required by the emission rate without add-on controls option, an example of how the Permittee determined the value, including calculations and supporting data. Supporting data may include a copy of the information provided by the supplier or manufacturer of the example coating or material, or a summary of the results of testing conducted according to Sections 2.1 A.5.c.i.B.or C above. The Permittee does not need to submit copies of any test reports.
 - A. Mass fraction of organic HAP for one coating, for one thinner and/or other additive, and for one cleaning material;

- B. Volume fraction of coating solids for one coating;
 - C. Density for one coating, one thinner and/or other additive, and one leaning material, except that if the Permittee uses the compliant material option, only the example coating density is required; and
 - D. The amount of waste materials and the mass of organic HAP contained in the waste materials for which the Permittee is claiming an allowance in Equation 1 of Section 2.1 A.5.c.i.E above; and
- vii. The calculation of kg (lb) of organic HAP emitted per liter (gal) coating solids used for the emission rate without add-on controls option including the calculation of the total mass of organic HAP emissions for each month; the calculation of the total volume of coating solids used each month; and the calculation of the 12-month organic HAP emission rate using Equations 1 and 1A through 1C, 2, and 3, respectively, of Sections 2.1.A.5.c.i.E through G above.

Recordkeeping [40 CFR 63.3930]

- g. The Permittee shall collect and keep records of the data and information specified below. Failure to collect and keep these records is a deviation from the applicable standard.
- i. A copy of each notification and report submitted to comply with this Subpart, and the documentation supporting each notification and report.
 - ii. A current copy of information provided by materials suppliers or manufacturers, such as manufacturer's formulation data, or test data used to determine the mass fraction of organic HAP and density for each coating, thinner and/or other additive, and cleaning material, and the volume fraction of coating solids for each coating. If the facility conducted testing to determine mass fraction of organic HAP, density, or volume fraction of coating solids, the Permittee shall keep a copy of the complete test report. If the facility uses information provided by the manufacturer or supplier of the material that is based on testing, the Permittee shall keep the summary sheet of results provided by the manufacturer or supplier. The Permittee is not required to obtain the test report or other supporting documentation from the manufacturer or supplier;
 - iii. For each compliance period, the records specified below:
 - A. A record of the coating operations on which the Permittee used each compliance option and the time periods (beginning and ending dates and times) for each option;
 - B. For the compliant material option, a record of the calculation of the organic HAP content for each coating, using Equation 2 of Section 2.1 A.5.c.i.B.4 above; and
 - C. For the emission rate without add-on controls option, a record of the calculation of the total mass of organic HAP emissions for the coatings, thinners and/or other additives, and cleaning materials used each month using Equations 1, 1A through 1C, and 2 of Sections 2.1 A.5.c.ii.B.5 through 7 above; and, if applicable, the calculation used to determine mass of organic HAP in waste materials according to Section 2.1 A.5.c.ii.B.5.(d) above; the calculation of the total volume of coating solids used each month using Equation 2 of Section 2.1 A.5.c.ii.B.6 above; and the calculation of each 12-month organic HAP emission rate using Equation 3 of Section 2.1 A.5.d.ii.B.7 above.
 - iv. A record of the name and volume of each coating, thinner and/or other additive, and cleaning material used during each compliance period. If the facility is using the compliant material option for all coatings at the source, the Permittee may maintain purchase records for each material used rather than a record of the volume used;
 - v. A record of the mass fraction of organic HAP for each coating, thinner and/or other additive, and cleaning material used during each compliance period unless the material is tracked by weight;
 - vi. A record of the volume fraction of coating solids for each coating used during each compliance period;
 - vii. If the Permittee uses the emission rate without add-on controls compliance option, the density for each coating, thinner and/or other additive, and cleaning material used during each compliance period;
 - viii. If the facility uses an allowance in Equation 1 of Section 2.1 A.5.c.ii.B.5 above for organic HAP contained in waste materials sent to or designated for shipment to a treatment, storage, and disposal facility (TSDF) according to Section 2.1 A.5.d.ii.B.5.(d) above, the Permittee shall keep records of the following information:
 - A. The name and address of each TSDF to which the Permittee sent waste materials for which the facility uses an allowance in Equation 1 of Section 2.1 A.5.c.ii.B.5 above; a statement of which subparts under 40 CFR parts 262, 264, 265, and 266 apply to the facility; and the date of each shipment;
 - B. Identification of the coating operations producing waste materials included in each shipment and the month or months in which the Permittee used the allowance for these materials in Equation 1 of Section 2.1 A.5.c.ii.B.5 above; and

- C. The methodology used in accordance with Section 2.1 A.5.c.ii.B.5 (d) above to determine the total amount of waste materials sent to or the amount collected, stored, and designated for transport to a TSDF each month; and the methodology to determine the mass of organic HAP contained in these waste materials. This shall include the sources for all data used in the determination, methods used to generate the data, frequency of testing or monitoring, and supporting calculations and documentation, including the waste manifest for each shipment; and
- ix. The Permittee shall keep records of the date, time, and duration of each deviation. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1111 if the above records are not maintained.

Reporting [40 CFR 63.3920]

- h. The Permittee shall submit a summary report of the monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified. The report shall contain the following information:
 - i. Company name and address;
 - ii. Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report
 - iii. Date of report and beginning and ending dates of the reporting period;
 - iv. The calculation results for each rolling 12-month organic HAP emission rate during the 6-month reporting period for the emission rate without add-on controls compliance option.
 - vi. If there are no deviations from the emission limitation in Section 2.1 A.5.b above that apply, a statement that there are no deviations from the emission limitations during the reporting period and
 - vii. If there is a deviation from the emission limit in Section 2.1 A.5.b. above, the following information:
 - A. The beginning and ending dates of each compliance period during which the 12-month organic HAP emission rate exceeded the emission limit in Section 2.1 A.5.b. above;
 - B. The calculations used to determine the 12-month organic HAP emission rate for the compliance period in which the deviation occurred. The Permittee shall submit the calculations for Equations 1, 1A through 1C, 2, and 3 of Sections 2.1.A.5.c.i.E through G above; and if applicable, the calculation used to determine mass of organic HAP in waste materials according to Section 2.1 A.5.c.i.E above. The Permittee does not need to submit background data supporting these calculations (e.g., information provided by materials suppliers or manufacturers, or test reports); and
 - C. A statement of the cause of each deviation.

B. One Paper Dust Collector (ID No. ESOLDC) with associated bagfilter (ID No. CDOLDC)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
particulate matter	$E=4.10P^{0.67}$ where E = allowable emission rate in pounds per hour P = process weight in tons per hour	15A NCAC 2D .0515
visible emissions	20 percent opacity	15A NCAC 2D .0521(c)

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

- a. Emissions of particulate matter from the paper dust collector (**ID No. ESOLDC**) shall not exceed an allowable emission rate as calculated by the following equation: [15A NCAC 2D .0515(a)]

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

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

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

Testing [15A NCAC 2D .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 B. 1. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515.

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

- c. Particulate matter emissions from the paper dust collector (**ID No. ESOLDC**) shall be controlled by one bagfilter. To assure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer, if any. As a minimum, the inspection and maintenance program shall include:
 - i. monthly external inspection of the ductwork and bagfilter noting the structural integrity; and
 - ii. annual internal inspection of the bagfilter noting the structural integrity and the condition of the filter.The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if the ductwork or bagfilter are not inspected and maintained.

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

- d. The results of inspection and maintenance for the bagfilter shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each inspection; and
 - iii. the results of maintenance performed on any control device.The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if the records are not kept.

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

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

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

- a. Visible emissions from the paper dust collector (**ID No. ESOLDC**) 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 (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 B. 2. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- c. To assure compliance, once a month, the Permittee shall observe the emission points of this source for any visible emissions above normal. The monthly observation must be made for each month of the calendar year period to ensure compliance with this requirement. If visible emissions from this source are observed to be above normal, the Permittee shall either:
 - i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .0501(c)(8)(Method 9) for 12 minutes is below the limit given in Section 2.1 B. 2.a above.

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

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

- d. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
 - iii. the results of any corrective actions performed.
 The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521 if the records are not kept.

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

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

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

A. Facility-wide:

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
volatile organic compounds	work practice standards	15A NCAC 2D .0958
toxic air pollutants	State-enforceable only: see Section 2.2.A.3 below	15A NCAC 2D .1100
odorous emissions	State-enforceable only: odorous emissions must be controlled	15A NCAC 2D .1806

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

- a. **This regulation is only applicable to volatile organic compounds which are NOT subject to 40 CFR Part 63 Subpart JJ. Pursuant to 15A NCAC 2D .0958, for all sources that use volatile organic compounds (VOC) as solvents, carriers, material processing media, or industrial chemical reactants, or in similar uses that mix, blend, or manufacture 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:**
 - (1) 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,
 - (2) clean up spills of volatile organic compounds as soon as possible following proper safety procedures,
 - (3) store wipe rags containing volatile organic compounds in closed containers,
 - (4) not clean sponges, fabric, wood, paper products, and other absorbent materials with volatile organic compounds,
 - (5) 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,
 - (6) 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:
 - (1) flush parts in the freeboard area,
 - (2) take precautions to reduce the pooling of solvent on and in the parts,
 - (3) 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,
 - (4) not fill cleaning machines above the fill line,

(5) 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 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 State-enforceable only:

2D .1100: CONTROL OF TOXIC AIR POLLUTANTS

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

Emission Source	Stack ID	Permitted Emission Rates								
		Formaldehyde (lb/hr)	Phenol (lb/hr)	DEHP (lb/24-hr)	Toluene (lb/hr)	Toluene (lb/24-hr)	MEK (lb/hr)	MEK (lb/24-hr)	MIBK (lb/hr)	MIBK (lb/24-hr)
ESOL1 - Oil filter line (7,200 units per hour design capacity)	1OL1	0.068	0.163	NA	NA	NA	NA	NA	NA	NA
	1OL2	0.017	0.0408	4.29	NA	NA	NA	NA	NA	NA
	1OL3	0.017	0.0408	6.43	NA	NA	NA	NA	NA	NA
	1OL4	0.051	0.122	NA	10.2	244.8	10.2	244.8	16.5	396
	1OL5	0.017	0.0408	NA	4.92	118.08	4.92	118.08	4.13	99.12
ESOL2 - Oil filter line (7,200 units per hour design capacity)	2OL1	0.0637	0.163	NA	NA	NA	NA	NA	NA	NA
	2OL2	0.0159	0.0408	4.29	NA	NA	NA	NA	NA	NA
	2OL3	0.0159	0.0408	6.43	NA	NA	NA	NA	NA	NA
	2OL4	0.0478	0.122	NA	NA	NA	NA	NA	NA	NA
	2OL5A	7.96E-03	0.0204	NA	NA	NA	NA	NA	NA	NA
	2OL5B	7.96E-03	0.0204	NA	NA	NA	NA	NA	NA	NA
ESOL3 - Oil filter line (7,200 units per hour design capacity)	3OL1	2.91E-03	0.109	NA	NA	NA	NA	NA	NA	NA
	3OL2	2.18E-03	0.0818	3.13	NA	NA	NA	NA	NA	NA
	3OL3	2.18E-03	0.0818	3.13	1.19	28.56	1.19	28.56	NA	NA
ESOL4 - Oil filter line (9,600 units per hour design capacity)	4OL1	2.34E-03	0.0818	NA	NA	NA	NA	NA	NA	NA
	4OL2	2.34E-03	0.0818	NA	NA	NA	NA	NA	NA	NA
	4OL3	1.56E-03	0.0545	2.5	NA	NA	NA	NA	NA	NA
	4OL4	1.56E-03	0.0545	3.76	NA	NA	NA	NA	NA	NA
ESOL5 - Oil filter line (5,700 units per hour design capacity)	5OL1A	1.84E-03	0.0647	NA	NA	NA	NA	NA	NA	NA
	5OL1B	1.84E-03	0.0647	NA	NA	NA	NA	NA	NA	NA
	5OL2	1.23E-03	0.0432	2.48	NA	NA	NA	NA	NA	NA
	5OL3	1.23E-03	0.0432	2.48	1.19	28.56	1.19	28.56	NA	NA
ESOL6 - Heavy duty oil filter line (3,600 units per hour design capacity)	6OL1	0.019	0.115	NA	NA	NA	NA	NA	NA	NA
	6OL2	6.35E-03	0.0385	3.37	NA	NA	NA	NA	NA	NA
	6OL3	6.35E-03	0.0385	5.06	1.19	28.56	1.19	28.56	NA	NA
ESGL1 - Fuel filter line (3,600 units per hour design capacity)	1GL1	2.34E-03	0.081	NA	NA	NA	NA	NA	NA	NA
	1GL2	3.90E-04	0.0135	0.0847	NA	NA	NA	NA	NA	NA
	1GL3A	3.90E-04	0.0135	0.0847	NA	NA	NA	NA	NA	NA
	1GL3B	3.90E-04	0.0135	0.0847	NA	NA	NA	NA	NA	NA
	1GL3C	3.90E-04	0.0135	0.0847	1.19	28.56	1.19	28.56	NA	NA
ESAL4 - Polyurethane conical air filter line (960 units per hour design capacity)	4AL1	1.23E-03	NA	NA	NA	NA	NA	NA	NA	NA
	4AL2	4.92E-03	NA	NA	1.19	28.56	1.19	28.56	NA	NA
ESOL7 - Oil filter line (5,700 units per hour design capacity)	7OL1	2.95E-03	0.109	NA	NA	NA	NA	NA	NA	NA
	7OL2	2.22E-03	0.0815	NA	NA	NA	NA	NA	NA	NA
	7OL3	2.22E-03	0.0815	NA	1.19	28.56	1.19	28.56	NA	NA

Emission Source	Stack ID	Permitted Emission Rates								
		Formaldehyde (lb/hr)	Phenol (lb/hr)	DEHP (lb/24-hr)	Toluene (lb/hr)	Toluene (lb/24-hr)	MEK (lb/hr)	MEK (lb/24-hr)	MIBK (lb/hr)	MIBK (lb/24-hr)
ESRADIAL2 - Plastisol radial air filter line (1,500 units per hour design capacity)	2RD1A	7.00E-03	NA	7.34	1.19	28.56	1.19	28.56	NA	NA
	2RD1B	2.80E-03	NA	2.93	NA	NA	NA	NA	NA	NA
	2RD1C	1.40E-03	NA	1.47	NA	NA	NA	NA	NA	NA
	2RD2A	7.00E-04	NA	0.734	NA	NA	NA	NA	NA	NA
	2RD2B	7.00E-04	NA	0.734	NA	NA	NA	NA	NA	NA
	2RD2C	7.00E-04	NA	0.734	NA	NA	NA	NA	NA	NA
	2RD2D	7.00E-04	NA	0.734	1.19	28.56	1.19	28.56	NA	NA
ESPOLY2 - Polyurethane panel air filter line	2POLY1	4.97E-06	NA	NA	NA	NA	NA	NA	NA	NA
	2POLY2	4.97E-06	NA	NA	1.19	28.56	1.19	28.56	NA	NA
	2POLY3	4.97E-06	NA	NA	NA	NA	NA	NA	NA	NA
	2POLY4	4.97E-06	NA	NA	NA	NA	NA	NA	NA	NA
	2POLY5	7.78E-03	NA	NA	1.19	28.56	1.19	28.56	NA	NA
	2POLY6	4.32E-03	NA	NA	NA	NA	NA	NA	NA	NA
ESAL5 - Plastisol panel air filter line (3,000 units per hour design capacity)	5AL1	1.53E-02	NA	25.1	1.19	28.56	1.19	28.56	NA	NA
ESGL2 - Fuel filter line (420 units per hour design capacity)	2GL1	5.62E-04	9.44E-03	NA	NA	NA	NA	NA	NA	NA
	2GL2	9.37E-05	1.57E-03	0.00395	NA	NA	NA	NA	NA	NA
	2GL3	9.37E-05	1.57E-03	0.00395	NA	NA	NA	NA	NA	NA
	2GL4	9.37E-05	1.57E-03	0.00395	NA	NA	NA	NA	NA	NA
	2GL5	9.37E-05	1.57E-03	0.00395	NA	NA	NA	NA	NA	NA
ESAL6 - Plastisol panel air filter line (120 units per hour design capacity)	6AL1	7.68E-04	NA	0.93	NA	NA	NA	NA	NA	NA
	6AL2	1.92E-04	NA	0.23	NA	NA	NA	NA	NA	NA
ESCBA - Case bottom assembly	ESCBA	NA	NA	NA	NA	NA	15.5	372	NA	NA

- a. To ensure compliance with the above limits, the following restrictions shall apply:
 - i. The Permittee shall test any paper media for phenol that is greater than 1.1% phenol per manufacturer's composition material safety data sheet,
 - ii. Test results of all paper media tested shall be kept on file for a minimum of three years,
 - iii. Copies of the test results shall be submitted to the Regional Supervisor within 15 days for any paper media that results in a value greater than 1.1% phenol.

- b. The Permittee shall maintain a logbook (written or electronic format) on-site to be made available to an authorized representative upon request. The logbook shall record and calculate the following:
 - i. hours of operation, on a monthly basis, of the:
 - A. oil filter lines (ID No. ESO1 through ES07),
 - B. fuel filter lines (ID No. ESGL1 and ESGL2),
 - C. air filter lines (ID Nos. ESAL4, ESAL5, ESAL6, ESRADIAL2, and ESPOLY2, and
 - D. case bottom assembly (ID No. ESCBA).
 - ii. VOC and TAP emissions, on a monthly basis, from the
 - A. oil filter lines (ID No. ESO1 through ES07),
 - B. fuel filter lines (ID No. ESGL1 and ESGL2),
 - C. air filter lines (ID Nos. ESAL4, ESAL5, ESAL6, ESRADIAL2, and ESPOLY2, and
 - D. case bottom assembly (ID No. ESCBA).
 - iii. The DEHP emissions, on a daily basis, converted to units of pounds per 24-hours, from the:
 - A. oil filter lines (ID No. ESO1 through ES07),
 - B. fuel filter lines (ID No. ESGL1 and ESGL2),

- C. air filter lines (ID Nos. ESAL4, ESAL5, ESAL6, ESRADIAL2, and ESPOLY2, and
 - D. case bottom assembly (ID No. ESCBA).
- c. The Permittee shall submit a summary report of monitoring and recordkeeping activities in Sections 2.2.A.2.a and b. above 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.

3 State-enforceable only:

2D .1806: CONTROL AND PROHIBITION OF ODOROUS EMISSIONS

- a. The Permittee shall not operate the facility without implementing management practices or installing and operating odor control equipment sufficient to prevent odorous emissions from the facility from causing or contributing to objectionable odors beyond the facility's boundary. The Permittee shall not operate the facility without implementing management practices or installing and operating odor control equipment sufficient to prevent odorous emissions from the facility from causing or contributing to objectionable odors beyond the facility's boundary.

SECTION 3 - GENERAL CONDITIONS (v2.20)

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(i)(16)]

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

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

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

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

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

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

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

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

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

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

F. **Circumvention** - STATE ENFORCEABLE ONLY

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

G. **Permit Modifications**

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

H. **Changes Not Requiring Permit Modifications**

1. 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.

Excess Emissions

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

Permit Deviations

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

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

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

1. Any excess emissions that do not occur during start-up and shut-down shall be considered a violation of the appropriate rule unless the owner or operator of the sources demonstrates to the Director, that the excess

emissions are a result of a malfunction. The Director shall consider, along with any other pertinent information, the criteria contained in 15A NCAC 2D .0535(c)(1) through (7).

2. 15A NCAC 2D .0535(g). Excess emissions during start-up and shut-down shall be considered a violation of the appropriate rule if the owner or operator cannot demonstrate that excess emissions are unavoidable.

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

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

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

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

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

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

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

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

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

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

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

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

The Permittee shall retain records of all required monitoring data and supporting information for a period of at least

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

1. Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow the DAQ, or an authorized representative, to perform the following:
 - a. enter the Permittee's premises where the permitted facility is located or emissions-related activity is conducted, or where records are kept under the conditions of the permit;
 - b. have access to and copy, at reasonable times, any records that are required to be kept under the conditions of the permit;
 - c. inspect at reasonable times and using reasonable safety practices any source, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
 - d. sample or monitor substances or parameters, using reasonable safety practices, for the purpose of assuring compliance with the permit or applicable requirements at reasonable times.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

1. If the Permittee has appliances or refrigeration equipment, including air conditioning equipment, which use Class I or II ozone-depleting substances such as chlorofluorocarbons and hydrochlorofluorocarbons listed as refrigerants in 40 CFR Part 82 Subpart A Appendices A and B, the Permittee shall service, repair, and maintain

such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82 Subpart F.

2. The Permittee shall not knowingly vent or otherwise release any Class I or II substance into the environment during the repair, servicing, maintenance, or disposal of any such device except as provided in 40 CFR Part 82 Subpart F.
3. The Permittee shall comply with all reporting and recordkeeping requirements of 40 CFR 82.166. Reports shall be submitted to the EPA or its designee as required.

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

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

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

FEDERALLY-ENFORCEABLE ONLY

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

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

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

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

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

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

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

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

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

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

If emissions testing is required by this permit or the DAQ or if the Permittee submits emissions testing to the DAQ in support of a permit application, 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(i)(16)]

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

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

As required by 15A NCAC 2D .0540 "Particulates from Fugitive Dust Emission Sources," the Permittee shall not cause or allow fugitive dust emissions to cause or contribute to substantive complaints or excess visible emissions beyond the property boundary. If substantive complaints or excessive fugitive dust emissions from the facility are observed beyond the property boundaries for six minutes in any one hour (using Reference Method 22 in 40 CFR, Appendix A), the owner or operator may be required to submit a fugitive dust plan as described in 2D .0540(f). "Fugitive dust emissions" means particulate matter from process operations that does not pass through a process stack or vent and that is generated within plant property boundaries from activities such as: unloading and loading areas, process areas stockpiles, stock pile working, plant parking lots, and plant roads (including access roads and haul roads).

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.