



NORTH CAROLINA
Environmental Quality

ROY COOPER
Governor

ELIZABETH S. BISER
Secretary

MICHAEL ABRACZINSKAS
Director

DRAFT

Mr. Gaz Thomas
General Manager
Valley Proteins, Inc. – Wadesboro Division
PO Box 718
Wadesboro, North Carolina, 28170

SUBJECT: Air Quality Permit No. 06467T21
Facility ID: 0400034
Valley Proteins, Inc. – Wadesboro Division
Wadesboro
Anson County
Fee Class: Title V
PSD Status: Minor

Dear Mr. Thomas:

In accordance with your completed Air Quality Permit Applications for Significant Modification of your Title V permit received on November 16, 2020, we are forwarding herewith Air Quality Permit No. 06467T21 to Valley Proteins, Inc., 656 Little Duncan Road, Wadesboro, 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 02Q .0503(8) have been listed for informational purposes as an "ATTACHMENT." Please note the requirements for the annual compliance certification are contained in General Condition P in Section 3. The current owner is responsible for submitting a compliance certification for the entire year regardless of who owned the facility during the year.

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

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



North Carolina Department of Environmental Quality | Division of Air Quality
217 West Jones Street | 1641 Mail Service Center | Raleigh, North Carolina 27699-1641
919.707.8400

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

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

Anson County has not triggered increment tracking under PSD for any pollutants, so no tracking is required.

This Air Quality Permit shall be effective from DRAFT until December 31, 2024 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 please contact Mr. Kevin Godwin at (919) 707-8480 or email kevin.godwin@ncdenr.gov.

Sincerely yours,

Mark J. Cuilla, EIT, CPM, Chief, Permitting Section
Division of Air Quality, NCDEQ

Enclosure

c: Michael Sparks, EPA Region 4 (Permit and review)
Fayetteville Regional Office
Central Files
Connie Horne (Cover letter only)

Air Quality Permit No. 06467T21
Valley Proteins, Inc. -
Wadesboro Facility
Insignificant Activities under 15A NCAC 02Q .0503(8)

Emission Source ID	Emission Source Description
IE-21.1, IE-21.2, and IE-21.3	One load-out operation consisting of two truck loadout bays in a in a building open on two ends with tractor trailer truck overhead doors, and one railcar loadout open to the atmosphere.
IE24.1, IE-24.2, and IE-24.3	One grinding operation consisting of three (3) hammermill/shaker screen systems in a building open on two ends with tractor trailer truck overhead doors
IE-26	HIVAC system

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 02D .1100 “Control of Toxic Air Pollutants” or 02Q .0711 “Emission Rates Requiring a Permit”.
3. For additional information regarding the applicability of GACT see the DAQ page titled “The Regulatory Guide for Insignificant Activities/Permits Exempt Activities”. The link to this site is as follows:
<http://daq.state.nc.us/permits/insig/>

ATTACHMENT
Air Quality Permit No. 06467T21
Valley Proteins, Inc. -
Wadesboro Facility

The following changes were made to the Air Quality Permit No. 06467T20:

Page(s)	Section	Description of Change(s)
All	All	Updated permit number and date
Insignificant Activities List	Insignificant Activities List	Removed Source ID No. IE-25.
9	2.1 A.4.g.	Revised NSPS Subpart Dc condition to include reporting of natural gas and saleable fat fired in Boiler B-3.
16	2.1 B.3.	Included a PSD avoidance condition for use of the alternate control scenario venting to crossflow scrubber (ID No. C-8).
23	3.0	Updated General Conditions to most recent shell version (version 5.5, 08/25/2020)



State of North Carolina
Department of Environmental Quality
Division of Air Quality

AIR QUALITY PERMIT

Permit No.	Replaces Permit No.(s)	Effective Date	Expiration Date
06467T21	06467T20	DRAFT	December 31, 2024

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 02D and 02Q, and other applicable Laws.

Pursuant to Title 15A NCAC, Subchapter 02Q, 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: **Valley Proteins, Inc. – Wadesboro
Division**

Facility ID: **0400034**

Facility Site Location: **656 Little Duncan Road**
City, County, State, Zip: **Wadesboro, Anson County, North Carolina 28170**

Mailing Address: **Post Office Box 718**
City, State, Zip: **Wadesboro, North Carolina 28170**

Application Number: **0400034.20C**
Complete Application Date: **November 16, 2020**

Primary SIC Code: **2048, 2077**
Division of Air Quality, **Fayetteville Regional Office**
Regional Office Address: **225 Green St, Suite 714**
Fayetteville, North Carolina 28301

Permit issued this the XX day of XXXX, XXXX

Mark J. Cuilla, EIT, CPM, Chief, Air Permitting Section
By Authority of the Environmental Management Commission

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

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

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ATTACHMENT

List of Acronyms

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

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

Page No.	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
5 - 13, 21	B-1 and B-2 GAJT JJJJJ	Two natural gas/No. 2 fuel oil/No. 6 fuel oil/ On Specification recycled No. 4 equivalent fuel oil/saleable fat - fired boilers (33.0 million Btu per hour heat input rate each)	N/A	N/A
5 - 13	B-3 NSPS Dc GAJT JJJJJ	One natural gas/No. 2 fuel oil/saleable fat -fired boiler (48.4 million Btu per hour heat input)	N/A	N/A
5 - 13, 21	B-4 GAJT JJJJJ	One natural gas/No. 2 fuel oil/No. 6 fuel oil/On Specification recycled No. 4 equivalent fuel oil/saleable fat -fired boiler (33.5 million Btu per hour heat input)	N/A	N/A
5 - 13, 21	B-5 GAJT JJJJJ	One natural gas/No. 2 fuel oil/No. 6 fuel oil/On Specification recycled No. 4 equivalent fuel oil/saleable fat-fired boiler (29.3 million Btu per hour heat input)	N/A	N/A
14 - 17, 18 - 21	E6 E9	Feather and Blood Rendering process consisting of: One rotary steamtube dryer One feather hydrolyser	C-5* C-1 or C-8*	One air cooled condenser in series with One venturi scrubber (minimum scrubber liquid inlet pressure 9 psig) One, two stage, cross-flow type wet scrubber, minimum scrubber liquid inlet pressure 13 psig with mist eliminator, utilizing chlorine dioxide or a sulfate-based odor oxidizing solution with a Mist eliminator
	E10	One feather press * Condenser may vent directly to the cross-flow scrubber (C-8) under the alternate control scenario, up to 4,380 hours per year. The alternate control scenario does not provide particulate matter (PM) control.	C-2 venting to either CY-1 CM-1 B-1, B-2, and B-3 or C-4 C-3 C-4	One cyclone (60 inch diameter) with a Mist eliminator in series with a combination of three natural gas/fuel oil/saleable fat-fired boilers One packed tower scrubber (minimum scrubber liquid inlet pressure 3 psig) One venturi scrubber (minimum scrubber liquid inlet pressure 5 psig) in series with One packed tower scrubber (minimum scrubber liquid inlet pressure 3 psig)

Page No.	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
14 - 17, 18 - 21	E1 E18	Rendering process consisting of: One three stage slurry system evaporative condenser cooker with post heater forced circulation chamber on 1 st stage One fluidizer tank * Condenser may vent directly to the cross-flow scrubber (C-8) under the alternate control scenario, up to 4,380 hours per year. The alternate control scenario does not provide particulate matter (PM) control.	C-6* C-1 or C-8* C-2 venting to either CY-1 CM-1 B-1, B-2, and B-3 or C-4 C-3 C-4	One air cooled condenser in series with One venturi scrubber (minimum scrubber liquid inlet pressure 9 psig) One, two stage, cross-flow type wet scrubber, minimum scrubber liquid inlet pressure 13 psig with mist eliminator, utilizing chlorine dioxide or a sulfate-based odor oxidizing solution with a Mist eliminator One cyclone (60 inch diameter) with a Mist eliminator in series with a combination of three (3) natural gas/fuel oil/saleable fat-fired boilers One packed tower scrubber (minimum scrubber liquid inlet pressure 3 psig) One venturi scrubber (minimum scrubber liquid inlet pressure 5 psig) in series with One packed tower scrubber (minimum scrubber liquid inlet pressure 3 psig)
14 - 17, 18 - 21	E7 E8	One 320U cooker Press/centrifuge process * Condenser may vent directly to the cross-flow scrubber (C-8) under the alternate control scenario, up to 4,380 hours per year. The alternate control scenario does not provide particulate matter (PM) control.	C-7* C-1 or C-8* C-2 venting to either CY-1 CM-1 B-1, B-2, and B-3 or C-4 C-3 C-4	One air cooled condenser in series with One venturi scrubber (minimum scrubber liquid inlet pressure 9 psig) One, two stage, cross-flow type wet scrubber, minimum scrubber liquid inlet pressure 13 psig with mist eliminator, utilizing chlorine dioxide or a sulfate-based odor oxidizing solution with a Mist eliminator One cyclone (60 inch diameter) with a Mist eliminator in series with a combination of three natural gas/fuel oil/saleable fat-fired boilers One packed tower scrubber (minimum scrubber liquid inlet pressure 3 psig) One venturi scrubber (minimum scrubber liquid inlet pressure 5 psig) in series with One packed tower scrubber (minimum scrubber liquid inlet pressure 3 psig)
14 - 17, 18 - 21	E22	Plant room air system	C-8	One, two stage, cross-flow type wet scrubber, minimum scrubber liquid inlet pressure 13 psig with mist eliminator, utilizing chlorine dioxide or a sulfate-based odor oxidizing solution

SECTION 2 - SPECIFIC LIMITATIONS AND CONDITIONS

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

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

- A. Two natural gas/No. 2 fuel oil/No. 6 fuel oil/On Specification recycled No. 4 equivalent fuel oil/saleable fat -fired boilers (ID Nos. B-1 and B-2),
One natural gas/No. 2 fuel oil/saleable fat -fired boiler (ID No. B-3),
One natural gas/No. 2 fuel oil/No. 6 fuel oil/On Specification recycled No. 4 equivalent fuel oil/saleable fat -fired boiler (ID No. B-4), and
One natural gas/No. 2 fuel oil/No. 6 fuel oil/On Specification recycled No. 4 equivalent fuel oil/saleable fat -fired boiler (ID No. B-5)**

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	0.367 pounds per million Btu heat input (ID Nos. B-1 and B-2), and 0.318 pounds per million Btu heat input (ID No. B-3) 0.30 pounds per million Btu heat input (ID No. B-4) 0.28 pounds per million Btu heat input (ID No. B-5)	15A NCAC 02D .0503
Sulfur Dioxide	Natural gas 2.3 pounds per million Btu heat input (ID Nos. B-1, B-2, B-3, B-4, and B-5) No. 6 fuel oil 2.3 pounds per million Btu heat input (ID Nos. B-1, B-2, B-4, and B-5) Saleable fat 2.3 pounds per million Btu heat input (ID Nos. B-1, B-2, B-3, B-4, and B-5) On Specification recycled No. 4 equivalent fuel oil 2.3 pounds per million Btu heat input (ID Nos. B-1, B-2, B-4, and B-5) No. 2 fuel oil 2.3 pounds per million Btu heat input (ID Nos. B-1, B-2, B-3, B-4, and B-5)	15A NCAC 02D .0516
	No. 2 fuel oil 0.5 percent sulfur content fuel oil (ID No. B-3)	15A NCAC 02D .0524 (40 CFR Part 60 Subpart Dc)
	Fuel oil/On Specification recycled No. 4 equivalent fuel oil/saleable fat and natural gas firing Less than 250 tons per consecutive (12) month period (ID Nos. B-1, B-2, B-3, B-4 and B-5)	02Q .0317 Avoidance conditions for 15A NCAC 02D .0530
	Fuel oil/On Specification recycled No. 4 equivalent fuel oil/saleable fat and natural gas firing Less than 3,644.49 lbs per day (ID Nos. B-1, B-2, B-3, B-4 and B-5)	15A NCAC 02D .0501 (e)

Regulated Pollutant	Limits/Standards	Applicable Regulation
Toxic Air Pollutants	See Section 2.2.B State enforceable only , applies to boilers B-1, B-2, B-4, and B-5	02Q .0317 Avoidance Condition for 15A NCAC 02D .1100
Carbon Monoxide	Fuel oil/On Specification recycled No. 4 equivalent fuel oil/saleable fat and natural gas firing Less than 250 tons per consecutive (12) month period (ID Nos. B-1, B-2, B-3, B-4, and B-5)	02Q .0317 Avoidance conditions for 15A NCAC 02D .0530
Visible Emissions	Natural gas firing 20 percent opacity (ID Nos. B-1, B-2, B-3, B-4 and B-5) No. 6 fuel oil 20 percent opacity (ID Nos. B-1, B-2, B-4 and B-5) Saleable fat 20 percent opacity (ID Nos. B-1, B-2, B-3, B-4, and B-5) On Specification recycled No. 4 equivalent fuel oil 20 percent opacity (ID Nos. B-1, B-2, B-4, and B-5) No. 2 fuel oil 20 percent opacity (ID Nos. B-1, B-2, B-4, and B-5)	15A NCAC 02D .0521
Visible Emissions	No. 2 fuel oil 20 percent opacity (ID No. B-3)	15A NCAC 02D .0524 (40 CFR Part 60 Subpart Dc)
Hazardous Air Pollutants	40 CFR Part 63 – Subpart JJJJJ NESHAP for Area Sources: Industrial, Commercial, and Institutional Boilers	15A NCAC 02D .1111 (40 CFR Part 63 Subpart JJJJJ)

1. 15A NCAC 02D .0503: PARTICULATES FROM FUEL BURNING INDIRECT HEAT EXCHANGERS

- a. Emissions of particulate matter from the combustion of natural gas/No. 2 fuel oil/No. 6 fuel oil/on specification recycled No. 4 fuel oil/saleable fat that are discharged from these boilers into the atmosphere shall not exceed 0.367 pounds per million Btu heat input (**ID Nos. B-1 and B-2**); 0.318 pounds per million Btu heat input (**ID No. B-3**); 0.30 pounds per million Btu heat input (**ID No. B-4**); and 0.28 pounds per million Btu heat input (**ID No. B-5**).

Testing [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.1. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0503.

Monitoring/Recordkeeping/Reporting [15A NCAC 02Q .0508(f)]

- c. No monitoring/recordkeeping/reporting is required for particulate emissions from the firing of natural gas/No. 2 fuel oil/No. 6 fuel oil/On Specification recycled No. 4 equivalent fuel oil/saleable fat in these boilers (**ID Nos. B-1, B-2, B-3, B-4, and B-5**).

2. 15A NCAC 02D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

- a. Emissions of sulfur dioxide from these boilers (**ID Nos. B-1, B-2, B-3 (while firing natural gas and saleable fat only), B-4, and B-5**) shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.

Testing [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.2. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516.

Monitoring/Recordkeeping [15A NCAC 02Q .0508(f)]

- c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the firing of natural gas, No. 2 fuel oil or saleable fat by these boilers (**ID Nos. B-1, B-2, B-3 (while firing natural gas and saleable fat only), B-4, and B-5**).
- d. The maximum sulfur content of any No. 6 fuel oil received and fired in the boilers (**ID Nos. B-1, B-2, B-4, and B-5**) shall not exceed 2.1 percent by weight, and the maximum sulfur content of the On Specification recycled No. 4 equivalent fuel oil shall not exceed 2.0 percent by weight. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516 if the sulfur content of the fuel oil exceeds this limit.
- e. To ensure compliance, the Permittee shall monitor the sulfur content of the On Specification recycled No. 4 equivalent fuel oil and No. 6 fuel oil by using fuel oil supplier certification per shipment received. The results of the fuel oil supplier certifications shall be recorded on a quarterly basis and include the following information:
 - i. The name of the fuel oil supplier(s);
 - ii. The maximum sulfur content of the No. 6 and On Specification recycled No. 4 equivalent fuel oil received during the quarter;
 - iii. The method used to determine the maximum sulfur content of the No. 6 and On Specification recycled No. 4 equivalent fuel oil; and
 - iv. A certified statement signed by the responsible official that the records of the No. 6 and On Specification recycled No. 4 equivalent fuel oil supplier certification(s) submitted represent all of the On Specification recycled No. 4 equivalent fuel oil and No. 6 fuel oil combusted during the reporting period.The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516 if the sulfur content of the No. 6 and On Specification recycled No. 4 equivalent oil is not monitored and recorded.

Reporting [15A NCAC 02Q .0508(f)]

- f. The Permittee shall submit a summary report of the monitoring and recordkeeping requirements for No. 6 and On Specification recycled No. 4 equivalent fuel oil given in Sections 2.1 A.2.d and e 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. All instances of deviations from the requirements of this permit must be clearly identified.

3. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from these boilers (**ID Nos. B-1, B-2, B-3 (while firing natural gas and saleable fat only), B-4, and B-5**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

Testing [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.3. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

Monitoring [15A NCAC 02Q .0508(f)]

- c. No monitoring/recordkeeping/reporting is required for visible emissions from the firing of natural gas, No. 2 fuel oil or saleable fat in these boilers (**ID Nos. B-1, B-2, B-3 (while firing natural gas and saleable fat only), B-4, and B-5**).
- d. To ensure compliance, once a day, the Permittee shall observe the emission points of these boilers (**ID Nos. B-1, B-2, B-4, and B-5**) while firing No. 6 fuel oil, On Specification recycled No. 4 equivalent fuel oil, No. 2 fuel oil, and saleable fat for any visible emissions above normal. The daily observation must be made for each day of the calendar year period to ensure compliance with this requirement. The Permittee shall be allowed three (3) days of absent observations per semi-annual period. If visible emissions from these boilers (**ID Nos. B-1, B-2, B-4, and B-5**) 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 02D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1 A.3. a. above.

The Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521 if the required daily observations are not conducted as required; if the above-normal emissions are not corrected within the monitoring period or the percent opacity demonstration cannot be made.

Recordkeeping [15A NCAC 02Q .0508(f)]

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

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if these records are not maintained.

Reporting [15A NCAC 02Q .0508(f)]

- f. When firing No. 6 fuel oil, On Specification recycled No. 4 equivalent fuel oil, No. 2 fuel oil, and saleable fat from these sources, the Permittee shall submit a summary report of the monitoring and recordkeeping activities given in Sections 2.1 A.3.d. and e 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. All instances of deviations from the requirements of this permit must be clearly identified.

4. 15A NCAC 02D .0524: NSPS 40 CFR PART 60 SUBPART Dc

- a. For boiler (**ID No. B-3**), the Permittee shall comply with all applicable provisions, including the notification, testing, reporting, recordkeeping, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 02D .0524, "New Source Performance Standards (NSPS)" as promulgated in 40 CFR 60, Subpart Dc, including Subpart A "General Provisions."

Emission Limitations [15A NCAC 02D .0524]

- b. The maximum sulfur content of any fuel oil received and burned in this boiler (**ID No. B-3**) shall not exceed 0.5 percent by weight. These fuel oil sulfur limits apply at all times, including periods of startup, shutdown, and malfunction. [40 CFR 60.42c(d), 40 CFR 60.42c(i)]
- c. Visible emissions from this boiler (**ID No. B-3**) shall not be more than 20 percent opacity when averaged over a six-minute period, except for one six-minute period per hour of not more than 27 percent opacity. The opacity standards apply at all times, except during periods of startup, shutdown, or malfunction. [40 CFR 60.43c(c) and 60.43c(d)]

Testing [15A NCAC 02Q .0508(f)]

- d. 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.4.b and c above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0524.

Monitoring [15A NCAC 02Q .0508(f)]

- e. To ensure compliance with the fuel sulfur limit in Section 2.1 A.4.b, above, the Permittee shall retain a copy of the fuel supplier certification for any fuel oil fired in this boiler (**ID No. B-3**). The fuel supplier certification shall include the following information:
 - i. The name of the oil supplier;
 - ii. The sulfur content of the oil (in % by weight); and
 - iii. A statement from the oil supplier that the oil complies with the specification under the definition of distillate oil in 40 CFR 60.41c.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0524 if the sulfur content of the oil exceeds the limit provided in Section 2.1 A.1.b, above, or if fuel supplier certifications are not retained as described above. [40 CFR 60.46c(e), 40 CFR 60.48c(f)(1)]

- f. To ensure compliance and effective operation of the boilers, the Permittee shall observe, on a weekly basis, the emission point for the boiler (**ID No. B-3**) for any visible emissions above normal. If visible emissions are observed to be above normal, the Permittee shall either:
 - i. be deemed to be in noncompliance with 15A NCAC 02D .0524 or
 - ii. demonstrate that the visible emissions from the emission point for boiler (**ID No. B-3**), in accordance with 40 CFR 60.43c, 40 CFR 60.45c, and 15A NCAC 02D .0501(c)(8), do not exceed 20 percent opacity.

If the demonstrations in (ii) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0524.

Recordkeeping [15A NCAC 02Q .0508(f)]

- g. In addition to any other recordkeeping required by 40 CFR §60.48c or recordkeeping requirements of the EPA, the Permittee shall record and maintain records of the amounts of natural gas, No. 2 fuel oil and saleable fat fired in this boiler (**ID No. B-3**) during each month. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524 if these records are not maintained. [40 CFR 60.48c(g)(2)]
- h. The Permittee shall maintain records of fuel oil supplier certifications as specified in Section 2.1 A.4.e, above. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0524 if records of fuel sulfur content monitoring are not maintained. [40 CFR 60.48c(e)(11), (f)(1)]
- i. The Permittee shall maintain records of any occurrence and duration of any startup, shutdown, or malfunction in the operation of this boiler (**ID No. B-3**). The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0524 if the records of startups, shutdowns, and malfunctions are not maintained. [40 CFR 60.7(b)]
- j. All records required shall be maintained by the Permittee for a period of two years following the date of such record. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0524 if the records are not maintained for the duration of 2 years. [40 CFR 60.48c(i)]

Reporting [15A NCAC 02Q .0508(f)]

- k. In addition to any other reporting required by 40 CFR 60.48c or notification requirements to the EPA, the Permittee shall submit a semiannual summary report of monitoring and recordkeeping activities in Sections 2.1 A.4.e through j 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. The summary report shall include the following information:
 - i. Fuel supplier certification(s) for distillate fuel oil, as provided in Section 2.1 A.4.g of this permit.
 - ii. A certified statement signed by the Permittee that the records of fuel supplier certification(s) submitted represent all of the fuel fired in this boiler (**ID No. B-3**) during the semiannual reporting period.
 - iii. All instances of deviations from the requirements of this permit must be clearly identified.

5. 15A NCAC 02Q. 0317: AVOIDANCE CONDITIONS for 15A NCAC 02D. 0530: PREVENTION OF SIGNIFICANT DETERIORATION

- a. In order to avoid applicability of 15A NCAC 02D .0530(g), these boilers (**ID Nos. B-1, B-2, B-3, B-4, and B-5**) shall discharge into the atmosphere less than 250 tons of sulfur dioxide and carbon monoxide per consecutive 12-month period.

Testing [15A NCAC 02D .0501(c)(3)]

- b. If emissions testing is required, the testing shall be performed in accordance General Condition JJ. If the results of this test are above the limits given in Section 2.1 A.5. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0503.

Monitoring/Recordkeeping [15A NCAC 02Q .0508 (f)]

- c. The use of all fuels in these boilers (**ID. Nos. B-1, B-2, B-3, B-4, and B-5**) shall be limited such that sulfur dioxide and carbon monoxide emissions are less than 250 tons for any twelve-month period:
- d. The following parameters each month shall be measured and recorded in a logbook (written or in electronic format):
 - i. The amount of natural gas used in the boilers in cubic feet,

- ii. The amount of No. 6 fuel oil used in the boilers, in gallons, and the percent sulfur in the No. 6 fuel oil,
 - iii. The amount of No. 2 fuel oil used in the boilers, in gallons, and the percent sulfur in the No. 2 (distillate) fuel oil,
 - iv. The amount of saleable fat used in the boilers, in gallons, and
 - v. The amount of On Specification recycled No. 4 equivalent fuel oil used in the boilers, in gallons, and the percent sulfur in the On Specification recycled No. 4 equivalent fuel oil.
- e. Each month calculations shall be performed and recorded to determine the actual sulfur dioxide and carbon monoxide emissions. For natural gas, No. 2 (distillate) fuel oil, On Specification recycled No. 4 equivalent fuel oil, and No. 6 fuel oil actual emissions shall be based on the most current AP-42 emission factors for these fuels. For saleable fat use an emission factor of 0.0170 pound per million Btu heat input for carbon monoxide and 0.0180 pound per million Btu for sulfur dioxide.
- The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if the above records are not kept or if the sulfur dioxide and/or carbon monoxide emissions exceed the limit in Section 2.1 A.5.a.

Reporting [15A NCAC 02Q .0508 (f)]

- f. The Permittee shall submit a summary report of monitoring and recordkeeping activities given in Sections 2.1 A.5.c. through e 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. The report shall contain the following:
- i. The monthly sulfur dioxide and carbon monoxide emissions for the previous 17 months. The emissions must be calculated for each of the 12-month periods over the previous 17 months;
 - ii. The monthly quantities of each fuel consumed for the previous 17 months; and
 - iii. All instances of deviations from the requirements of this permit must be clearly identified.

6. 15A NCAC 02D .0501(e): COMPLIANCE WITH NATIONAL AMBIENT AIR QUALITY STANDARDS

- a. Daily emissions of sulfur dioxide shall not exceed 3,644.49 pounds per day. [15A NCAC 02D.0501 (e)]
The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0501(e) if the emission limit in 2.1 A.6 a is exceeded.

Monitoring/Recordkeeping

- b. The use of fuels in these boilers (**ID Nos. B-1, B-2, B-3, B-4, and B-5**) shall be limited such that sulfur dioxide emissions are less than 3,644.49 pounds per day.
- c. The daily average shall be determined from the actual sulfur dioxide monthly emissions determined from Section 2.1 A.5.
The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0501(e) if these records are not kept or if any exceedances of the limits in Section 2.1 A.6.a above are determined.

Reporting

- d. The Permittee shall submit a summary report of the monitoring and recordkeeping activities given in Sections 2.1 A.6.b. and c 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. All instances of deviations from the requirements of this permit must be clearly identified.

7. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY

Applicability [40 CFR 63.11193, 63.11194(a)(1), (b), 63.11200(c)]

- a. For these boilers (**ID Nos. B-1, B-2, B-3, B-4, and B-5**), the Permittee shall comply with all applicable provisions, including the notification, testing, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 02D .1111, "Maximum Achievable Control Technology" as promulgated in 40 CFR 63, Subpart JJJJJ, "National Emission Standards for Hazardous Air Pollutants for Area Sources: Industrial, Commercial, and Institutional Boilers", including Subpart A "General Provisions."

Definitions and Nomenclature

- b. For the purposes of this permit condition, the definitions and nomenclature contained in 40 CFR 63.11237 shall apply.

General Provisions [40 CFR 63.11235]

- c. The Permittee shall comply with the General Provisions as applicable pursuant to Table 8 of 40 CFR 63 Subpart JJJJJ.

Compliance Dates

- d. The Permittee shall achieve compliance with the initial tune up and energy assessment requirements no later than March 21, 2014. [40 CFR 63.11196(a)(1), (a)(3), 63.11210(c)]

Notification of Compliance Status [40 CFR 63.11225]

- e. The Permittee shall submit a Notification of Compliance Status no later than July 19, 2014.
 - i. The Notification of Compliance Status must be signed by a responsible official and include the following certifications of compliance:
 - (A) “This facility complies with the requirements in [40 CFR 63.11214](#) (i.e., Section 2.1 A.7.g) to conduct an initial tune-up of the boiler.”
 - (B) “This facility has had an energy assessment of the boiler and its energy use systems performed according to Table 2 to this subpart (i.e., Section 2.1 A.7.h) and that the assessment is an accurate depiction of the facility at the time of the assessment or that the maximum number of on-site technical hours specified in the definition of energy assessment applicable to the facility has been expended.”
 - (C) “No secondary materials that are solid waste were combusted in any affected unit.”
 - ii. The notification must be also submitted electronically using the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written Notification of Compliance Status must be submitted to the Administrator at the appropriate address listed in [40 CFR 63.13](#).
 - iii. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the requirements in Section 2.1 A.7.e are not met.

General Compliance Requirements [15A NCAC 002Q .0508(b)]

- f. At all times the Permittee shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR 63.11205(a)] The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these requirements are not met.

Performance Tune-up Requirements [15A NCAC 02Q .0508(b)]

- g. The Permittee shall conduct an initial tune-up of the boiler and subsequent tune-ups biennially.
 - i. Each biennial tune-up shall be conducted no more than 25 months after the previous tune-up.
 - ii. The Permittee shall conduct the tune-ups while burning the type of fuel (or fuels in the case of boilers that routinely burn two types of fuels at the same time) that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up.
 - iii. The tune-ups shall be conducted according to the following procedures:
 - (A) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may delay the burner inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection.

- (B) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.
- (C) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection.
- (D) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject.
- (E) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer.
- (F) If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup.

[40 CFR 63.11201(b), Table 2, 40 CFR 63.11223(a), (b)]

- iv. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the requirements in Section 2.1 A.7.g are not met.

Energy Assessment Requirements [15A NCAC 02Q .0508(b)]

- h. The Permittee shall conduct a one-time energy assessment performed by a qualified energy assessor. The energy assessment must include the following items, with the extent of the evaluation for items (i) to (iv) appropriate for the on-site technical hours listed in 40 CFR 63.11237:
 - i. A visual inspection of the boiler system,
 - ii. An evaluation of operating characteristics of the affected boiler systems, specifications of energy use systems, operating and maintenance procedures, and unusual operating constraints,
 - iii. An inventory of major energy use systems consuming energy from affected boiler(s) and which are under control of the boiler owner or operator,
 - iv. A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage,
 - v. A list of major energy conservation measures that are within the facility's control,
 - vi. A list of the energy savings potential of the energy conservation measures identified, and
 - vii. A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.

[40 CFR 63.11201(b), Table 2]

- viii. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the requirements in section 2.1 A.7.h are not met.

Recordkeeping [15A NCAC 02Q .0508(f)]

- i. The Permittee shall maintain the following records:
 - i. As required in [40 CFR 63.10\(b\)\(2\)\(xiv\)](#), the Permittee shall keep a copy of each notification and report that was submitted to comply with this rule and all documentation supporting any Notification of Compliance Status that was submitted.
 - ii. The Permittee shall maintain on-site and submit, if requested by the Administrator, a report containing the following information:
 - (A) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler.
 - (B) A description of any corrective actions taken as a part of the tune-up of the boiler.
 - (C) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit.
 - iii. The Permittee shall keep the following records to document conformance with the applicable requirements:

- (A) Records must identify each boiler, the date of tune-up, the procedures followed for tune-up, and the manufacturer's specifications to which the boiler was tuned.
- (B) The Permittee shall keep a copy of each boiler energy assessment report.
- (C) Records of the occurrence and duration of each malfunction of the boiler or of the associated air pollution control and monitoring equipment.
- (D) Records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in Section 2.1 A.7.f, including corrective actions to restore the malfunctioning boiler, air pollution control, or monitoring equipment to its normal or usual manner of operation.
- (E) For operating units that combust non-hazardous secondary materials (e.g. saleable fat) that have been determined not to be solid waste pursuant to 40 CFR 241.3(b)(1), the Permittee shall keep a record which documents how the secondary material meets each of the legitimacy criteria under 40 CFR 241.3(d)(1). If you combust a fuel (e.g. saleable fat) that has been processed from a discarded non-hazardous secondary material pursuant to 40 CFR 241.3(b)(4), you must keep records as to how the operations that produced the fuel satisfies the definition of processing in 40 CFR 241.2 and each of the legitimacy criteria in 40 CFR 241.3(d)(1). If the fuel (e.g., saleable fat) received a non-waste determination pursuant to the petition process submitted under 40 CFR 241.3(c), you must keep a record that documents how the fuel satisfies the requirements of the petition process. For operating units that combust non-hazardous secondary materials as fuel per 40 CFR 241.4, you must keep records documenting that the material is a listed non-waste under 40 CFR 241.4(a).

[40 CFR 63.11225(c), 63.11223(b)(6)]

- iv. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the requirements in Section 2.1 A.7.i are not met.

- j. The records must be in a form suitable and readily available for expeditious review. The Permittee shall keep each record for 5 years following the date of each recorded action. The Permittee shall keep each record on-site or be accessible from a central location by computer or other means that instantly provide access at the site for at least 2 years after the date of each recorded action. The Permittee may keep the records off site for the remaining 3 years. [40 CFR 63.11225(d)] The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these requirements are not met.

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

- k. The reporting requirements of 40 CFR 63.11225(b) shall be met by complying with General Condition P of Section 3 of this permit. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these reporting requirements are not met.

B. Feather and Blood Rendering process including:

- a) One feather hydrolyser (ID No. E9),
- b) One rotary steam tube dryer (ID No. E6) controlled by:
One air-cooled condenser (ID No. C-5) in series with one venturi scrubber (ID No. C-1) with a mist eliminator (ID No. C-2) in series with either one cyclone (ID No. CY-1) with a mist eliminator (ID No. CM-1) in series with a combination of three natural gas/fuel oil/saleable fat fired boilers (ID Nos. B-1, B-2, and B-3) or packed tower scrubber (ID No. C-4). Condenser C-5 may vent directly to cross-flow scrubber C-8 for up to 4,380 hours per year.
- c) One feather press (ID No. E10) controlled by a venturi scrubber (ID No. C-3) in series with a packed tower scrubber (ID No. C-4)

Rendering process including:

- a) One three stage slurry system evaporative condenser cooker with post heater forced circulation chamber (ID No. E1) controlled by:
One air-cooled condenser (ID No. C-6) in series with one venturi scrubber (ID No. C-1) with a mist eliminator (ID No. C-2) in series with either one cyclone (ID No. CY-1) with a mist eliminator (ID No. CM-1) in series with a combination of three natural gas/fuel oil/saleable fat fired boilers (ID Nos. B-1, B-2, and B-3) or packed tower scrubber (ID No. C-4). Condenser C-6 may vent directly to cross-flow scrubber C-8 for up to 4,380 hours per year.
- b) One fluidization tank (ID No. E18) controlled by a venturi scrubber (ID No. C-3) in series with a packed tower scrubber (ID No. C-4)
- c) One 320U cooker (ID No. E7) controlled by:
One air-cooled condenser (ID No. C-7) in series with one venturi scrubber (ID No. C-1) in series with one mist eliminator (ID No. C-2) in series with either one cyclone (ID No. CY-1) with a mist eliminator (ID No. CM-1) in series with a combination of three natural gas/fuel oil/saleable fat fired boilers (ID Nos. B-1, B-2, and B-3) or packed tower scrubber (ID No. C-4). Condenser C-7 may vent directly to cross-flow scrubber C-8 for up to 4,380 hours per year.
- d) Press/centrifuge process (ID No. E8) controlled by:
Venturi scrubber (ID No. C-3) in series with packed tower scrubber (ID No. C-4)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	$E = 4.10P^{0.67}$ Where E = allowable emission rate in pounds per hour P = process weight rate in tons per hour	15A NCAC 02D .0515
Visible emissions	20 percent opacity	15A NCAC 02D .0521
Odor	See section 2.2 A	15A NCAC 02D .0539

1. 15A NCAC 02D .0515: PARTICULATES FROM MISCELLANEOUS INDUSTRIAL PROCESSES

- a. Emissions of particulate matter from this source shall not exceed an allowable emission rate as calculated by the following equation:

$$E = 4.10 \times P^{0.67}$$

Where: E = allowable emission rate in pounds per hour
P = process weight in tons per hour

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

Testing [15A NCAC 02Q .0508 (f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 B. 1. a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515.

Monitoring/Recordkeeping [15A NCAC 02Q .0508(f)]

- c. Particulate matter emissions from these sources (**ID Nos. E9, E6, E10, E1, E18, E7, and E8**) shall be controlled by the air cooled condensers, venturi scrubbers, packed bed scrubbers, mist eliminators, cyclones, and boilers (operating as thermal oxidizers) (**ID Nos. C-5, C-1, C-3, C-4, C-2, CY-1, CM-1, B-1, B-2, and B-3**). To ensure that optimum control efficiency is maintained, the Permittee shall perform monthly inspections on the air cooled condensers, venturi scrubbers, packed tower scrubber, mist eliminators, and semi-annual inspections on the boilers and perform maintenance as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there are no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement must include the following:
 - i. an inspection of each control device's structural integrity;
 - ii. visual inspection of the system ductwork, and material collection unit for leaks,
 - iii. an inspection of spray nozzles for the scrubbers,
 - iv. an inspection of the primary heat exchangers; and
 - v. visual inspection of the inlet/outlet valves for structural integrity.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515 if air cooled condensers, venturi scrubbers, packed bed scrubbers, mist eliminators, cyclone, boilers (operating as thermal oxidizers) and associated ductwork are not inspected and maintained.

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

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515 if these records are not maintained.

Reporting [15A NCAC 02Q .0508(f)]

- e. The Permittee shall submit the results of any maintenance performed on 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 given in Sections 2.1 B.1. c. and d. 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. All instances of deviations from the requirements of this permit must be clearly identified.

2. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from these sources shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

Testing [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 B. 2. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

Monitoring [15A NCAC 02Q .0508(f)]

- c. To ensure compliance, once a day the Permittee shall observe the emission points of these sources for any visible emissions above normal. The daily observation must be made for each day of the calendar year period to ensure compliance with this requirement. The Permittee shall be allowed three (3) days of absent observations per semi-annual period. If visible emissions from this source are observed to be above normal, the Permittee shall either:
 - i. take appropriate action to correct the above-normal emissions 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 02D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1 B.2. a. above.The Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521 if the required daily observations are not conducted as required; if the above-normal emissions are not corrected within the monitoring period or the percent opacity demonstration cannot be made.

Recordkeeping [15A NCAC 02Q .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 02D .0521 if these records are not maintained.

Reporting [15A NCAC 02Q .0508(f)]

- e. The Permittee shall submit a summary report of the monitoring and recordkeeping activities given in Sections 2.1 B.2.c. and d 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. All instances of deviations from the requirements of this permit must be clearly identified.

3. 15A NCAC 02Q. 0317: AVOIDANCE CONDITIONS for 15A NCAC 02D. 0530: PREVENTION OF SIGNIFICANT DETERIORATION

- a. In order to avoid applicability of 15A NCAC 02D .0530(g), these sources (**ID Nos. E1, E6, E7, and E9**) while operating under the alternate control scenario venting to the crossflow scrubber (**ID No. C-8**) shall discharge into the atmosphere less than 250 tons of particulate matter (PM) per consecutive 12-month period.

Testing [15A NCAC 02D .0501(c)(3)]

- b. If emissions testing is required, the testing shall be performed in accordance General Condition JJ. If the results of this test are above the limits given in Section 2.1 B.3. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530.

Monitoring/Recordkeeping [15A NCAC 02Q .0508 (f)]

- c. The use of alternate control scenario venting to the crossflow scrubber (**ID No. C-8**) shall be limited to 4,380 hours per year. The Permittee shall record monthly, the hourly duration of the alternative control scenario.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if the above records are not kept or if the particulate matter (PM) emissions exceed the limit in Section 2.1 B.3.a.

Reporting [15A NCAC 02Q .0508 (f)]

- d. The Permittee shall submit a summary report of monitoring and recordkeeping activities 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. The report shall contain the following:

- i. The monthly PM emissions when using the alternative control scenario for the previous 17 months. The emissions must be calculated for each of the 12-month periods over the previous 17 months;
- ii. The hourly use of the alternative control scenario for the previous 17 months; and
- iii. All instances of deviations from the requirements of this permit must be clearly identified.

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

STATE-ONLY REQUIREMENT:

A. 15A NCAC 02D .0539: ODOR CONTROL OF FEED INGREDIENT MANUFACTURING PLANTS

Any device, machine, equipment, or other contrivance used to process material for the production of feed-grade animal proteins or feed-grade saleable fats and oils, except for any portions that are engaged exclusively in the process of food for human consumption, shall be operated in compliance with the requirements below.

These sources include, but are not limited to the following:

- (1) **Plant Room Air System (ID No. E22) controlled by one, two-stage cross flow type wet scrubber, minimum scrubber liquid inlet flow pressure 13 psig, (ID No. C-8 with mist eliminator, utilizing chlorine dioxide),**
- (2) **Feather and Blood Rendering process including:**
 - a) **One feather hydrolyser (ID No. E9)**
 - b) **One rotary steam tube dryer (ID No. E6) controlled by:**
One air-cooled condenser (ID No. C-5) in series with one venturi scrubber (ID No. C-1) with a mist eliminator (ID No. C-2) in series with either one cyclone (ID No. CY-1) with a mist eliminator (ID No. CM-1) in series with a combination of three natural gas/fuel oil/saleable fat fired boilers (ID Nos. B-1, B-2, and B-3) or packed tower scrubber (ID No. C-4). Condenser C-5 may vent directly to cross-flow scrubber C-8 for up to 4,380 hours per year.
 - c) **One feather press (ID No. E10) controlled by a venturi scrubber (ID No. C-3) in series with a packed tower scrubber (ID No. C-4)**
- (3) **Rendering process including:**
 - a) **One three stage slurry system evaporative condenser cooker with post heater forced circulation chamber (ID No. E1) controlled by:**
One air-cooled condenser (ID No. C-6) in series with one venturi scrubber (ID No. C-1) with a mist eliminator (ID No. C-2) in series with either one cyclone (ID No. CY-1) with a mist eliminator (ID No. CM-1) in series with a combination of three natural gas/fuel oil/saleable fat fired boilers (ID Nos. B-1, B-2, and B-3) or packed tower scrubber (ID No. C-4). Condenser C-6 may vent directly to cross-flow scrubber C-8 for up to 4,380 hours per year.
 - b) **One fluidization tank (ID No. E18) controlled by a venturi scrubber (ID No. C-3) in series with a packed tower scrubber (ID No. C-4)**
 - c) **One 320U cooker (ID No. E7) controlled by:**
One air-cooled condenser (ID No. C-7) in series with one venturi scrubber (ID No. C-1) in series with one mist eliminator (ID No. C-2) in series with either one cyclone (ID No. CY-1) with a mist eliminator (ID No. CM-1) in series with a combination of three natural gas/fuel oil/saleable fat fired boilers (ID Nos. B-1, B-2, and B-3) or packed tower scrubber (ID No. C-4). Condenser C-7 may vent directly to cross-flow scrubber C-8 for up to 4,380 hours per year.
 - d) **Press/centrifuge process (ID No. E8) controlled by:**
Venturi scrubber (ID No. C-3) in series with packed tower scrubber (ID No. C-4)

Any device, machine, equipment, or other contrivance used to process material for the production of feed-grade animal proteins or feed-grade saleable fats and oils, except for any portions that are engaged exclusively in the process of food for human consumption, shall be operated in compliance with the following requirements:

1. **Control Device Requirement:** The Permittee shall not allow, cause, or permit the operation of any device, machine, equipment, or other contrivance unless all gases, vapors, and gas-entrained effluents from these processes are passed through condensers to remove all steam and other condensable materials. All non-condensable gases passing through the condensers shall be incinerated at 1200 degrees Fahrenheit for a period of not less than 0.3 seconds or treated in an equally effective manner. Control devices shall control odorous emissions from various sources within the facility as shown in Section 1. Boilers B-1, B-2, and B-3 shall not be used as control devices for odorous emissions if the boilers are being operated in a low fire condition.

2. **Measurement and Recording Requirements:** The Permittee processing or incinerating gases, vapors, or gas-entrained matter as required by Section 2.2 A.1 above shall install, operate, calibrate, and maintain in good working order continuous operating parameter measuring and recording devices to document equipment operation in accordance with 15A NCAC 02D .0539. In addition, the Permittee shall follow an approved quality assurance program for all monitoring devices and systems, including:
 - a. Procedures and frequencies for calibration,
 - b. Standards traceability,
 - c. Operational checks,
 - d. Maintenance schedules and procedures,
 - e. Auditing schedules and procedures, and
 - f. Data validation.
3. **Expeller Requirement:** The Permittee shall not allow, cause, or permit the installation or operation of expeller units unless they are properly hooded and all exhaust gases are collected or ducted to odor control equipment.
4. **Handling, Transport, and Storage Requirement:** The Permittee shall not cause or permit any raw material to be handled, transported, or stored, or to undertake the preparation of any raw material without taking reasonable precautions to prevent odors from being discharged. Such raw material is in "storage" after it has been unloaded at a facility or after it has been located at the facility for at least 36 hours. Reasonable precautions shall include the following:
 - a. Storage of all raw material before or in the process of preparation, in properly enclosed and vented equipment or areas, together with the use of effective devices and methods to prevent the discharge of odor bearing gases;
 - b. Use of covered vehicles or containers of watertight construction for the handling and transporting of any raw material; and
 - c. Use of hoods and fans to enclose and vent the storage, handling, preparation, and conveying of any odorous materials together with effective devices or methods, or both, to prevent emissions of odors or odor bearing gases.

In order to avoid the storage restrictions above, the Permittee shall process each load according to the schedule in Section 2.2 A.5, below. To ensure that no raw material is in "storage," the Permittee shall track time of receipt and time of unloading of each shipment. The Permittee shall keep these records in a logbook (written or electronic format) onsite and make the logbook available to an authorized DAQ representative upon request.
5. **Unloading Specific Raw Materials:** A vehicle or container holding raw material, which has not been unloaded inside or parked inside an odor controlled area within the facility, shall be unloaded for processing of the raw material prior to the expiration of the following time limits:
 - a. For feathers with only trace amounts of blood, such as those obtained from slaughtering houses that separate blood from offal and feathers, no later than 48 hours after being weighed upon arrival at the facility.
 - b. For used cooking oil in sealed tankers, no later than 96 hours after being weighed upon arrival at the facility.
 - c. For all other types of raw material not in sealed containers, no later than 36 hours after being weighed upon arrival at the facility.
6. **Notification of Release of Excessive and Malodorous Gases or Vapors:** The Permittee shall notify the regional air quality supervisor of the appropriate regional office within two business days after conditions are encountered that cause or may cause release of excessive and malodorous gases or vapors.
7. **Compliance Statement:** The Permittee shall continue to operate in compliance as described in the compliance determination submitted before January 1, 1997, pursuant to 15A NCAC 02D .0539(i)(1). The Division of Air Quality may request addition information at a later date upon further review of the compliance documentation.

8. Odor Control Device Maintenance Monitoring and Reporting Requirement. To prevent odorous emissions from the facility the optimum control efficiency of the venturi scrubbers (**ID Nos. C-1 and C-3**), cross-flow scrubber (**ID No. C-8**), condensers, mist eliminators, packed tower scrubber (**ID No. C-4**) and boilers shall be maintained. To ensure this, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. As a minimum, the inspection and maintenance program shall include:
- a. Weekly inspection of the scrubbers and mist eliminator, including a complete internal inspection of the chemical feed system,
 - b. To ensure proper operation of the scrubbers,
 - i) The venturi (**ID No. C-1**) shall maintain a minimum scrubber liquid inlet pressure of 9 psig. The pressure shall be recorded in a logbook (written or electronic format) once per day,
 - ii) The venturi (**ID No. C-3**) shall maintain a minimum scrubber liquid inlet pressure of 5 psig. The pressure shall be recorded in a logbook (written or electronic format) once per day.
 - iii) The cross-flow scrubber, (**ID No. C-8**) shall use chlorine dioxide or a sulfate-based odor oxidizing solution for odor control and:
 - (A) The Permittee shall ensure proper performance of the scrubber by continuously monitoring and recording the oxidation reduction potential (ORP) of the recycle solution in the mix tanks of the cross flow scrubbers utilizing hourly averaging while maintaining a minimum ORP level of +300 mV for both chlorine dioxide and the sulfate-based odor oxidizing solution. An alarm shall be used to notify facility personnel when the ORP drops below the required minimum. When the alarm sounds, the actual values of the ORP shall be recorded each hour in units of mV until the value is above or equal to +300 mV. If the hourly average ORP reading falls below the required minimums, the Permittee shall record what corrective actions were taken to regain the required minimum ORP level or higher. An ORP reading below +300 mV that occurs for more than 4 hours is a reportable exceedance. In addition, the Permittee shall inspect and calibrate the continuous ORP meters in accordance with the manufacturer's recommendations or as approved by DAQ to ensure proper operation.
 - (B) The scrubber shall maintain a minimum scrubber liquid inlet pressure of 13 psig. The pressure shall be recorded in a logbook (written or electronic format) once per day.
 - iv) The packed tower scrubber (**ID No. C-4**) shall use chlorine dioxide or a sulfate-based odor oxidizing solution for odor control and:
 - (A) The Permittee shall ensure proper performance of the scrubber by continuously monitoring and recording the oxidation-reduction potential (ORP) of the recycle solution in the mix tanks utilizing hourly averaging while maintaining a minimum ORP level of +300 mV for both chlorine dioxide and the sulfate-based odor oxidizing solution. An alarm shall be used to notify facility personnel when the ORP drops below the required minimum. When the alarm sounds, the actual values of the ORP shall be recorded each hour in units of mV until the value is above or equal to +300 mV. If the hourly average ORP reading falls below the required minimums, the Permittee shall record what corrective actions were taken to regain the required minimum ORP level or higher. An ORP reading below +300 mV that occurs for more than 4 hours is a reportable exceedance. In addition, the Permittee shall inspect and calibrate the continuous ORP meters in accordance with the manufacturer's recommendations or as approved by DAQ.
 - (B) The scrubber shall maintain a minimum scrubber liquid inlet pressure of 3 psig. The pressure shall be recorded in a logbook (written or electronic format) once per day.
 - c. To ensure proper operation of the boiler as an odor control device,
 - i) The boiler(s) when being used for odor control will have its operating parameters monitored each day. The results, and time of observations, to be noted in a logbook (written or electronic format) at least once a day,
 - ii) Each boiler shall be equipped with a device to continuously measure and record the amount of fuel flow into the boiler. The Permittee shall record daily in a logbook (written or electronic format) the date, time, and fuel flow rate into each applicable boiler while the boilers are being used as a control device,
 - d. Monthly inspection of the condensers, including inspection of the duct work, leakage of coolant and gas stream,

- e. Monthly cleaning of scrubber nozzles and calibration of all associated instrumentation for all the control devices, and
 - f. Semi-annual internal inspection of the control devices and external inspection of associated ductwork to ensure structural integrity.
9. The results of inspection and maintenance for the control devices shall be maintained in a logbook (written or electronic format) on site and made available to an authorized DAQ representative upon request. The logbook shall record the following:
- a. Date and time of actions including the monitoring parameters measured or recorded;
 - b. The results of each inspection;
 - c. The results of any maintenance performed on the control devices and/or the chemical feed system; and
 - d. Any variance from manufacturer’s recommendations, if any, and corrections made.

STATE ONLY REQUIREMENT:

B. Boilers (ID Nos. B-1, B-2, B-4, and B-5)

1. 15A NCAC 02Q .0317 Avoidance Condition for 15A NCAC 02D .1100: CONTROL OF TOXIC AIR POLLUTANTS

- a. The Permittee is allowed to burn On-Specification recycled No. 4 equivalent Fuel Oil in boilers (ID Nos. B-1, B-2, B-4, and B-5). The approved On-Specification recycled No. 4 equivalent fuel oil shall be equivalent to unadulterated fossil fuel by meeting the following criteria:

<u>Constituent/Property</u>	<u>Allowable Level</u>
Arsenic	1.0 ppm maximum
Cadmium	2.0 ppm maximum
Chromium	5.0 ppm maximum
Lead	100 ppm maximum
Total Halogens	1,000 ppm maximum
Flash Point	130°F minimum
Sulfur	2.0 % maximum (by weight)
Ash	1.0 % maximum

It is the responsibility of the Permittee to ensure that all On-Specification recycled No. 4 equivalent fuel oil as received at the site meets the approved criteria for unadulterated fuel. In addition, the Permittee will be held responsible for any discrepancies discovered by Division of Air Quality as a result of any sampling and analysis of the On-Specification recycled No. 4 equivalent fuel oil.

Monitoring/Recordkeeping

- b. The Permittee shall maintain accurate records of the actual amount of vendor approved On-Specification recycled No. 4 equivalent fuel oil delivered to and combusted at the facility on an annual basis. These records shall be retained at the facility for a minimum of three years and shall be made available to representatives of the Division of Air Quality upon request.
- c. Each load of recycled fuel oil received shall include the following:
 - i. A delivery manifest document clearly showing the shipment content and amount, its place and date of loading, and place and date of destination.
 - ii. A batch specific analytical report that contains an analysis for all constituents/properties listed above. Analytical results of the samples representative of the recycled oil shipment from the vendor shall be no more than one year old when received.
 - iii. Batch signature information consisting of the following: a batch number, tank identification with batch volume of recycled oil, date and time the batch completed treatment, and volume(s) delivered.
 - iv. A certification indicating that the recycled fuel oil does not contain detectable PCBs (< 2 ppm).

Reporting

- d. Within 30 days after each calendar year, regardless of the amount received or combusted, the Permittee must

submit in writing to the Regional Supervisor, Division of Air Quality, the following:

- i. A summary of the results of the vendors analytical testing for the previous 12 months (calendar year).
- ii. The total gallons of vendor approved On-specification recycled No.4 Fuel Oil combusted at the facility for the previous 12 months (calendar year).
- e. The Division of Air Quality reserves the right to require additional testing and/or monitoring of the On-Specification recycled No. 4 equivalent fuel oil on an annual basis or without notice.

SECTION 3 - GENERAL CONDITIONS (version 5.5, 08/25/2020)

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

A. General Provisions [NCGS 143-215 and 15A NCAC 02Q .0508(i)(16)]

1. Terms not otherwise defined in this permit shall have the meaning assigned to such terms as defined in 15A NCAC 02D and 02Q.
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 02Q .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 Environmental Quality upon request.

C. Severability Clause [15A NCAC 02Q .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 02Q .0507(e) and 02Q .0508(i)(16)]

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

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

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

E. **Duty to Comply** [15A NCAC 02Q .0508(i)(3)]

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 02Q .0514]

The Permittee shall submit an application for an administrative permit amendment in accordance with 15A NCAC 02Q .0514.

2. Transfer in Ownership or Operation and Application Submittal Content [15A NCAC 02Q .0524 and 02Q .0505]

The Permittee shall submit an application for an ownership change in accordance with 15A NCAC 02Q.0524 and 02Q .0505.

3. Minor Permit Modifications [15A NCAC 02Q .0515]

The Permittee shall submit an application for a minor permit modification in accordance with 15A NCAC 02Q .0515.

4. Significant Permit Modifications [15A NCAC 02Q .0516]

The Permittee shall submit an application for a significant permit modification in accordance with 15A NCAC 02Q .0516.

5. Reopening for Cause [15A NCAC 02Q .0517]

The Permittee shall submit an application for reopening for cause in accordance with 15A NCAC 02Q .0517.

H. **Changes Not Requiring Permit Modifications**

1. Reporting Requirements

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

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

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

2. Section 502(b)(10) Changes [15A NCAC 02Q .0523(a)]

- a. "Section 502(b)(10) changes" means changes that contravene an express permit term or condition. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.
- b. The Permittee may make Section 502(b)(10) changes without having the permit revised if:
 - i. the changes are not a modification under Title I of the Federal Clean Air Act;
 - ii. the changes do not cause the allowable emissions under the permit to be exceeded;
 - iii. the Permittee notifies the Director and EPA with written notification at least seven days before the change is made; and
 - iv. the Permittee shall attach the notice to the relevant permit.
- c. The written notification shall include:

- i. a description of the change;
 - ii. the date on which the change will occur;
 - iii. any change in emissions; and
 - iv. any permit term or condition that is no longer applicable as a result of the change.
 - d. Section 502(b)(10) changes shall be made in the permit the next time that the permit is revised or renewed, whichever comes first.
3. Off Permit Changes [15A NCAC 02Q .0523(b)]

The Permittee may make changes in the operation or emissions without revising the permit if:

 - a. the change affects only insignificant activities and the activities remain insignificant after the change; or
 - b. the change is not covered under any applicable requirement.
4. Emissions Trading [15A NCAC 02Q .0523(c)]

To the extent that emissions trading is allowed under 15A NCAC 02D, including subsequently adopted maximum achievable control technology standards, emissions trading shall be allowed without permit revision pursuant to 15A NCAC 02Q .0523(c).

I.A Reporting Requirements for Excess Emissions and Permit Deviations [15A NCAC 02D .0535(f) and 02Q .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 02D; or by a permit condition; or that exceeds an emission limit established in a permit issued under 15A NCAC 02Q .0700. (*Note: Definitions of excess emissions under 02D .1110 and 02D .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 02D .0524), NESHAPS (15A NCAC 02D .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 02D .0524), NESHAPS (15A NCAC 02D .1110 or .1111), or these rules do NOT define "excess emissions," the Permittee shall report excess emissions in accordance with 15A NCAC 02D .0535 as follows:
 - a. Pursuant to 15A NCAC 02D .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 02D .0535(f)(3).

Permit Deviations

3. Pursuant to 15A NCAC 02Q .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 02D .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 02D .0535

The Permittee shall comply with all other applicable requirements contained in 15A NCAC 02D .0535, including 15A NCAC 02D .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 02D .0535(c)(1) through (7).
2. 15A NCAC 02D .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 02Q .0508(e) and 02Q .0513(b)]

This 15A NCAC 02Q .0500 permit is issued for a fixed term not to exceed five years and shall expire at the end of its term. Permit expiration terminates the facility's right to operate unless a complete 15A NCAC 02Q .0500 renewal application is submitted at least six months before the date of permit expiration. If the Permittee or applicant has complied with 15A NCAC 02Q .0512(b)(1), this 15A NCAC 02Q .0500 permit shall not expire until the renewal permit has been issued or denied. Permit expiration under 15A NCAC 02Q .0400 terminates the facility's right to operate unless a complete 15A NCAC 02Q .0400 renewal application is submitted at least six months before the date of permit expiration for facilities subject to 15A NCAC 02Q .0400 requirements. In either of these events, all terms and conditions of these permits shall remain in effect until the renewal permits have been issued or denied.

L. Need to Halt or Reduce Activity Not a Defense [15A NCAC 02Q .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 02Q .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 02Q .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 02Q .0508(f) and 02Q .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 02Q .0508(n)]

The Permittee shall submit to the DAQ and the EPA (Air and EPCRA Enforcement Branch, EPA, Region 4, 61 Forsyth Street SW, 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 02Q .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 02Q .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 02Q .0523.
4. A permit shield does not extend to minor permit modifications made under 15A NCAC 02Q .0515.

S. **Termination, Modification, and Revocation of the Permit** [15A NCAC 02Q .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 02Q .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 02Q .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 02Q .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 02Q .0508(i)(10)]

1. The Permittee shall pay all fees in accordance with 15A NCAC 02Q .0200.
2. Payment of fees may be by check or money order made payable to the N.C. Department of Environmental Quality. 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 02Q .0519.

X. **Annual Emission Inventory Requirements** [15A NCAC 02Q .0207]

The Permittee shall report by **June 30 of each year** the actual emissions of each air pollutant listed in 15A NCAC 02Q .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 02Q .0107 and 02Q .0508(i)(9)]

Whenever the Permittee submits information under a claim of confidentiality pursuant to 15A NCAC 02Q .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 02Q .0107.

Z. **Construction and Operation Permits** [15A NCAC 02Q .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 02Q .0100 and .0300.

AA. **Standard Application Form and Required Information** [15A NCAC 02Q .0505 and .0507]

The Permittee shall submit applications and required information in accordance with the provisions of 15A NCAC 02Q .0505 and .0507.

BB. **Financial Responsibility and Compliance History** [15A NCAC 02Q .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 02Q .0501(d)]

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 02Q .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 02Q .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 02D .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 02D .0300.

HH. Registration of Air Pollution Sources [15A NCAC 02D .0202]

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 02D .0202(b).

II. Ambient Air Quality Standards [15A NCAC 02D .0501(c)]

In addition to any control or manner of operation necessary to meet emission standards specified in this permit, any source of air pollution shall be operated with such control or in such manner that the source shall not cause the ambient air quality standards in 15A NCAC 02D .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 02Q .0508(i)(16)]

Emission compliance testing shall be by the procedures of Section .2600, except as may be otherwise required in Rules .0524, .1110, or .1111 of Subchapter 02D. If emissions testing is required by this permit or the DAQ or if the Permittee submits emissions testing to the DAQ to demonstrate compliance for emission sources subject to Rules .0524, .1110, or .1111, the Permittee shall provide and submit all notifications, conduct all testing, and submit all test reports in accordance with the requirements of 15A NCAC 02D .0524, .1110, or .1111, as applicable. Otherwise, if emissions testing is required by this permit or the DAQ or if the Permittee submits emissions testing to the DAQ to demonstrate compliance, the Permittee shall perform such testing in accordance with 15A NCAC 02D .2600 and follow the procedures outlined below:

1. The owner or operator of the source shall arrange for air emission testing protocols to be provided to the Director prior to air pollution testing. Testing protocols are not required to be pre-approved by the Director prior to air pollution testing. The Director shall review air emission testing protocols for pre-approval prior to testing if requested by the owner or operator at least **45 days** before conducting the test.
2. Any person proposing to conduct an emissions test to demonstrate compliance with an applicable standard shall notify the Director at least **15 days** before beginning the test so that the Director may at his option observe the test.
3. The owner or operator of the source shall arrange for controlling and measuring the production rates during the period of air testing. The owner or operator of the source shall ensure that the equipment or process being tested is operated at the production rate that best fulfills the purpose of the test. The individual conducting the emission test shall describe the procedures used to obtain accurate process data and include in the test report the average production rates determined during each testing period.
4. Two copies of the final air emission test report shall be submitted to the Director not later than **30 days** after sample collection unless otherwise specified in the specific conditions. The owner or operator may request an extension to submit the final test report. The Director shall approve an extension request if he finds that the extension request is a result of actions beyond the control of the owner or operator.
 - a. The Director shall make the final determination regarding any testing procedure deviation and the validity of the compliance test. The Director may:
 - i. Allow deviations from a method specified under a rule in this Section if the owner or operator of the source being tested demonstrates to the satisfaction of the Director that the specified method is inappropriate for the source being tested.
 - ii. Prescribe alternate test procedures on an individual basis when he finds that the alternative method is necessary to secure more reliable test data.
 - iii. Prescribe or approve methods on an individual basis for sources or pollutants for which no test method is specified in this Section if the methods can be demonstrated to determine compliance of permitted emission sources or pollutants.

- b. The Director may authorize the Division of Air Quality to conduct independent tests of any source subject to a rule in this Subchapter to determine the compliance status of that source or to verify any test data submitted relating to that source. Any test conducted by the Division of Air Quality using the appropriate testing procedures described in Section 02D .2600 has precedence over all other tests.

KK. Reopening for Cause [15A NCAC 02Q .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 02Q .0513(c).
3. Except for the state-enforceable only portion of the permit, the procedures set out in 15A NCAC 02Q .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 02Q .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 02Q .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. When permitted equipment is not in operation, the requirements for testing, monitoring, and recordkeeping are suspended until operation resumes.

MM. Fugitive Dust Control Requirement [15A NCAC 02D .0540]

As required by 15A NCAC 02D .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 02D .0540(f).

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

NN. Specific Permit Modifications [15A NCAC 02Q .0501 and .0523]

1. For modifications made pursuant to 15A NCAC 02Q .0501(b)(2), the Permittee shall file a Title V Air Quality Permit Application for the air emission source(s) and associated air pollution control device(s) on or before 12 months after commencing operation.
2. For modifications made pursuant to 15A NCAC 02Q .0501(c)(2), the Permittee shall not begin operation of the air emission source(s) and associated air pollution control device(s) until a Title V Air Quality

Permit Application is filed and a construction and operation permit following the procedures of Section .0500 (except for Rule .0504 of this Section) is obtained.

3. For modifications made pursuant to 502(b)(10), in accordance with 15A NCAC 02Q .0523(a)(1)(C), the Permittee shall notify the Director and EPA (EPA - Air Planning Branch, 61 Forsyth Street SW, Atlanta, GA 30303) in writing at least seven days before the change is made. The written notification shall include:
 - a. a description of the change at the facility;
 - b. the date on which the change will occur;
 - c. any change in emissions; and
 - d. any permit term or condition that is no longer applicable as a result of the change.

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

OO. Third Party Participation and EPA Review [15A NCAC 02Q .0521, .0522 and .0525(7)]

For permits modifications subject to 45-day review by the federal Environmental Protection Agency (EPA), EPA's decision to not object to the proposed permit is considered final and binding on the EPA and absent a third party petition, the failure to object is the end of EPA's decision-making process with respect to the revisions to the permit. The time period available to submit a public petition pursuant to 15A NCAC 02Q .0518 begins at the end of the 45-day EPA review period.

ATTACHMENT

List of Acronyms

AOS	Alternative Operating Scenario
BACT	Best Available Control Technology
BAE	Baseline Actual Emissions
Btu	British thermal unit
CAA	Clean Air Act
CAM	Compliance Assurance Monitoring
CEM	Continuous Emission Monitor
CFR	Code of Federal Regulations
CSAPR	Cross-State Air Pollution Rule
DAQ	Division of Air Quality
DEQ	Department of Environmental Quality
EMC	Environmental Management Commission
EPA	Environmental Protection Agency
FR	Federal Register
GACT	Generally Available Control Technology
GHGs	Greenhouse Gases
HAP	Hazardous Air Pollutant
LAER	Lowest Achievable Emission Rate
MACT	Maximum Achievable Control Technology
NAA	Non-Attainment Area
NAAQS	National Ambient Air Quality Standards
NCAC	North Carolina Administrative Code
NCGS	North Carolina General Statutes
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO_x	Nitrogen Oxides
NSPS	New Source Performance Standard
NSR	New Source Review
OAH	Office of Administrative Hearings
PAE	Projected Actual Emissions
PAL	Plantwide Applicability Limitation
PM	Particulate Matter
PM_{2.5}	Particulate Matter with Nominal Aerodynamic Diameter of 2.5 Micrometers or Less
PM₁₀	Particulate Matter with Nominal Aerodynamic Diameter of 10 Micrometers or Less
POS	Primary Operating Scenario
PSD	Prevention of Significant Deterioration
PTE	Potential to Emit
RACT	Reasonably Available Control Technology
SIC	Standard Industrial Classification
SIP	State Implementation Plan
SO₂	Sulfur Dioxide
TAP	Toxic Air Pollutant
tpy	Tons Per Year
VOC	Volatile Organic Compound