

November 28, 2006

Mr. Larry Johnson
Vice President, Fresh Pork Products
Smithfield Packing Company Inc. – Tar Heel
P.O. Box 99
Tar Heel, NC 28392

Dear Mr. Johnson:

SUBJECT: Air Quality Permit No. 07221T13
Facility ID: 0900055
Smithfield Packing Company Inc. – Tar Heel Division
Tar Heel, North Carolina
Bladen County
Fee Class: Title V

In accordance with your completed Air Quality Permit Application for a minor modification of the Title V permit pursuant to 15A NCAC 2Q .0515 received August 21, 2006, we are forwarding herewith Air Quality Permit No. 07221T13 to Smithfield Packing Company Inc., NC Highway 87, Tar Heel, North Carolina, authorizing the operation, as outlined in Part I, and the construction, as outlined in Part II, of the emission source(s) and associated air pollution control device(s) specified herein. Additionally, any emissions activities determined from your Air Quality Permit Application as being insignificant per 15A North Carolina Administrative Code 2Q .0503 have been listed for informational purposes as an "ATTACHMENT." Please note the requirements for the annual compliance certification are contained in General Condition P in Section 3 of Part I. **The current owner is responsible for submitting a compliance certification for the entire year regardless of who owned the facility during the year.**

These emission sources (ID No(s). ES-3, ES-4, ES-5, ES-6, ES-7 and ES-8) are authorized under Part II as a minor modification per 15A NCAC 2Q .0515. The compliance certification as described in General Condition P is required. Unless otherwise notified by NC DAQ, the affected Part I terms of this permit (excluding the permit shield as described General Condition R) for this source shall become final on January 27, 2007. Until this date, the affected Part I permit terms herein reflect the proposed operating language that the Permittee shall operate this source under pursuant to 15A NCAC 2Q .0515(f).

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

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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.

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

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

This Air Quality Permit shall be effective from November 28, 2006 until February 28, 2011, is nontransferable to future owners and operators, and shall be subject to the conditions and limitations as specified therein. Should you have any questions concerning this matter, please contact Ms. Fern Paterson at (919) 715-6242.

Sincerely yours,

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

Enclosure

c: Gregg Worley, EPA Region 4 (Permit Only)
Fayetteville Regional Office

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Central Files

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

Emission Source ID No.	Emission Source Description
IBML	One loadout operation consisting of one bone meal truck loadout bay controlled by a two sided, roofed enclosure and one blood meal truck loadout bay controlled by a complete single sided and two partial sided, three sided, roofed enclosure with a roll down door and a personnel access door
ILD	Natural gas-fired laundry dryer (150,000 Btu per hour)
IGO1	Natural gas-fired garland oven (119,000 Btu per hour)
IGO2	Natural gas-fired garland oven (65,000 Btu per hour)
IGC	Natural gas-fired garland cooker (84,500 Btu per hour)
ICO	Natural gas-fired convection oven (160,000 Btu per hour)
ISC	Natural gas-fired steam cooker (200,000 Btu per hour)
ICDS	Chlorine dioxide generation and delivery system
ITANK	Storage Tank for Fuel Oil and/or Animal Fat Storage

LIST OF CHANGES TO THE PREVIOUS PERMIT (Title V Permit No. 07221T12)

Old Page No.	New Page No.	Condition No.	Description of Changes
Attachment	Attachment	Insignificant Activity List	<ul style="list-style-type: none"> - Add "I" designation to the beginning of every Emission Source ID No. to be consistent with the IBEAMs source database. - Remove reference to 15A NCAC 2Q .0503(8) to be consistent with current DAQ protocol. - Add ITANK to list of insignificant activities.
Cover	Cover	-	Amend permit revision numbers and issuance/effective dates.
Pages 3-5	Pages 3-5	Source Table	<ul style="list-style-type: none"> - Split listings for ES-1 and ES-2 into two separate rows for improved permit clarity. - Add asterisk to modified boilers. - Add "animal fat" to list of permitted fuels. - Add footnote describing the permit modification and permit shield implications.
Page 5	Page 5	Sec. 2.1 A., Source Listing	Add "animal fat" to list of permitted fuels for affected boilers.
Page 5	Pages 5-6	Sec. 2.1 A., Table	<ul style="list-style-type: none"> - Add "animal fat" to list of fuels affected by the SIP SO2 standard (15A NCAC 2D .0516). - Remove bold text from the NSPS SO2 standard to improve permit clarity. The NSPS only provides standards for fuel oil firing – however, recordkeeping requirements apply to the combustion of all fuels including biogas, natural gas, and animal fats.
Page 6	Page 6	Sec. 2.1 A.1.c. Sec. 2.1 A.2.a. Sec. 2.1 A.2.c.	Add animal fat to the list of fuels.
Page 6	Pages 6-7	Sec. 2.1 A.3.d.	Add requirement to observe the emission points of the boilers each day that animal fat (or No. 4, 5, or 6 fuel oil) is fired.
Page 7	Page 7	Sec. 2.1 A.4.b.	Add compliance statement to sulfur content standard for fuel oils.
Page 7	Page 7	Sec. 2.1 A.4.c.-d.	<ul style="list-style-type: none"> - Combine "Monitoring" and "Recordkeeping" sections. - Add additional detail regarding the content requirements of the fuel oil certifications (and remove the detailed language from the reporting requirement). - Revise the recordkeeping requirement to require DAILY recordkeeping of No. 2 fuel oil combustion (to be consistent with Feb. 2006 rule changes) and add animal fat to the monthly recordkeeping requirement.
Pages 7-8	Pages 7-8	Sec. 2.1 A.4.e.	<ul style="list-style-type: none"> - Add requirement to include the calendar dates covered in the reporting period. - Remove detail language on fuel oil supplier certification content requirements. - Add requirement to include a certified statement by the owner/operator.
Page 12	Page 12	Sec. 2.2 A., Source Listing	Add "animal fat" to list of permitted fuels for affected boilers.
Page 12	Pages 12-13	Sec. 2.2 A., Table	Add "animal fat" to list of fuels affected by the PSD Avoidance Conditions.
N/A	Page 13	Sec. 2.2 A.1.b.	Add requirement to test one of the boilers (ID Nos. ES-3 through ES-8) to determine the NO _x emission rate associated with the combustion of animal fat. The test shall also include a fuel analysis.
Page 13	Page 13	Sec. 2.2 A.1.f.	Add "animal fat" to list of fuels that must be required in the semiannual report.
Page 13	Page 14	Sec. 2.2 A.2.e.	Add "animal fat" to list of fuels that must be required in the semiannual report.
N/A	Pages 26-27	Part II	Add Part II to the permit.

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



Division of Air Quality

AIR QUALITY PERMIT

Permit No.	Replaces Permit No.(s)	Effective Date	Expiration Date
07221T13	07221T12	November 28, 2006	February 28, 2011

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

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

Permittee: **Smithfield Packing Company**
Facility ID: **0900055**

Facility Site Location: **NC Highway 87**
City, County, State, Zip: **Tar Heel, Bladen County, North Carolina 28392**

Mailing Address: **P.O. Box 99**
City, State, Zip: **Tar Heel, NC 28392**

Application Number: **0900055.06A**
Complete Application Date: **August 21, 2006**
Renewal Application Due Date: **May 31, 2010**

Primary SIC Code: **2048, 2011**
Division of Air Quality,
Regional Office Address: **Fayetteville Regional Office**
225 Green St., Suite 714
Fayetteville, NC 28301-5094

Permit issued this the 28th day of November, 2006.

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

SECTION 2: SPECIFIC LIMITATIONS AND CONDITIONS

SECTION 3: GENERAL PERMIT CONDITIONS

PART I

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

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

SECTION 1 - PERMITTED EMISSION SOURCES AND ASSOCIATED AIR POLLUTION CONTROL DEVICES AND APPURTENANCES

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

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
ES-1 NSPS, Subpart Dc	One (1) biogas/natural gas-fired boiler (29.29 million Btu per hour heat input rate) <i>(Boiler is also a control device for the wastewater treatment plant, ES-BPS – See ID No. CD-ES-1)</i>	NA	NA
ES-2 NSPS, Subpart Dc	One (1) biogas/natural gas/No. 2/No. 4/No. 5/No. 6 fuel oil-fired boiler (29.29 million Btu per hour heat input rate) <i>(Boiler is also a control device for the wastewater treatment plant, ES-BPS – See ID No. CD-ES-2)</i>	NA	NA
ES-3*, ES-4*, ES-5*, ES-6*, ES-7*, ES-8* NSPS, Subpart Dc	Six (6) natural gas/animal fat/ No. 2/No. 4/No. 5/No. 6 fuel oil-fired boilers (29.29 million Btu per hour heat input rate each)	NA	NA
ES-BPS	Wastewater treatment plant/biogas production system	CD-11 -or- CD-ES-1 -or- CD-ES-2	One (1) biogas flare (40 million Btu per hour heat input rate) -or- One (1) biogas/natural gas-fired boiler (29.29 million Btu per hour heat input rate) -or- One (1) biogas/natural gas/No. 2/No. 4/No. 5/No. 6 fuel oil-fired (29.29 million Btu per hour heat input rate)

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
ES-9, ES-10, ES-15, ES-16	Four (4) natural gas-fired hair singers (16 million Btu per hour heat input rate each)	NA	NA
ES-17, ES-18, ES-19, ES-20, ES-21, ES-22, ES-23, ES-24 (South Bldg.)	Eight (8) No. 2 fuel oil-fired electric generators (14.74 million Btu per hour heat rate each)	NA	NA
ES-26, ES-27, ES-28, ES-29, ES-30, ES-31, ES-32, ES-33, ES-34, ES-35, ES-36 (North Bldg.)	Eleven (11) No. 2 fuel oil-fired electric generators (14.74 million Btu per hour heat rate each)	NA	NA
ES-12a	Two (2) rendering cookers w/ primary entrainment traps (22,000 pounds of water per hour and 44,000 pounds of water per hour)	C1C C1V C1P	One (1) condensibles removal system (sized to condense a maximum of 88,000 pounds per hour of water vapor) consisting of one (1) shell and tube heat exchanger and/or two (2) air-cooled condensers in series with One (1) fixed throat venturi scrubber (pressure range of 12 to 40 pounds per square inch) utilizing process wastewater in series with One (1) packed tower wet scrubber (pressure range of 12 to 20 pounds per square inch) utilizing chlorine dioxide
ES-12b	One (1) rendering plant hair hydrolyzer	C1V C1P	One (1) fixed throat venturi scrubber (pressure range of 12 to 40 pounds per square inch) utilizing process wastewater in series with One (1) packed tower wet scrubber (pressure range of 12 to 20 pounds per square inch) utilizing chlorine dioxide
ES-12c	Low intensity odorous rendering plant operations including meal presses and grease centrifuges	C1V C1P	One (1) fixed throat venturi scrubber (pressure range of 12 to 40 pounds per square inch) utilizing process wastewater in series with One (1) packed tower wet scrubber (pressure range of 12 to 20 pounds per square inch) utilizing chlorine dioxide

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
ES-13	One (1) natural gas-fired ring blood dryer (7.5 million Btu per hour maximum heat input rate)	C2V C2P	One (1) fixed throat venturi scrubber (pressure range of 10 to 40 pounds per square inch) utilizing process wastewater in series with One (1) packed tower wet scrubber (pressure range of 7 to 20 pounds per square inch) utilizing chlorine dioxide
ES-14	Rendering plant room air ventilation system	C3	One (1) packed tower wet scrubber (pressure range of 10 to 40 pounds per square inch) utilizing chlorine dioxide
ES-37	Plant refrigeration system	NA	NA

* The combustion of animal fat at these emission sources (**ID Nos. ES-3, ES-4, ES-5, ES-6, ES-7, and ES-8**) are authorized under a Part II as a minor modification per 15 A NCAC 2Q .0515. The compliance certification as described in General Condition P is required. Unless otherwise notified by NC DAQ, the affected Part I terms of this permit (excluding the permit shield as described General Condition R) for this source shall become final on January 27, 2007. Until this date, the affected Part I permit terms herein reflect the proposed operating language that the Permittee shall operate this source under pursuant to 15A NCAC 2Q .0515(f).

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. One (1) biogas/natural gas-fired boiler (ID No. ES-1/CD-ES-1);
One (1) biogas/natural gas/No. 2/No. 4/No. 5/No. 6 fuel oil-fired boiler (ID No. ES-2/CD-ES-2); and,
Six (6) natural gas/animal fat/No. 2/No. 4/No. 5/No. 6 fuel oil-fired boilers (ID Nos. ES-3, ES-4, ES-5, ES-6, ES-7, ES-8)**

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	0.26 pounds per million Btu heat input	15A NCAC 2D .0503
Sulfur dioxide	Biogas, Natural Gas, and Animal Fat Firing 2.3 pounds per million Btu heat	15A NCAC 2D .0516
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Sulfur dioxide	0.5 percent sulfur content fuel oil	15A NCAC 2D .0524 (40 CFR Part 60, Subpart Dc)

Regulated Pollutant	Limits/Standards	Applicable Regulation
Sulfur dioxide	See Section 2.2 A – PSD Avoidance	15A NCAC 2Q .0317
Nitrogen oxides	See Section 2.2 A – PSD Avoidance	15A NCAC 2Q .0317

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

- a. Emissions of particulate matter from the boilers into the atmosphere shall not exceed **0.26 pounds per million Btu heat input**. [15A NCAC 2Q .0503]

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

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(3) and General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.1. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0503.

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

- c. No monitoring/recordkeeping/reporting is required for particulate emissions from the firing of biogas, natural gas, animal fat, or fuel oil in the boilers.

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

- a. Emissions of sulfur dioxide from the boilers while firing biogas, natural gas, and/or animal fat shall not exceed **2.3 pounds per million Btu heat input**. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard. [15A NCAC 2D .0516].

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

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

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

- c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the firing of biogas, natural gas, and/or animal fat in the boilers.

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

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

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

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.3. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- c. No monitoring/recordkeeping/reporting is required for visible emissions while firing of biogas, natural gas, or No. 2 fuel oil in the boilers.
- d. To assure compliance, once a day the Permittee shall observe the emission points of the boilers while firing animal fat and/or No. 4/No. 5/No. 6 fuel oil for any visible emissions above normal. If visible emissions from the boilers are observed to be above normal, the Permittee shall either: (a) be deemed to be in noncompliance

with 15A NCAC 2D .0521 or (b) demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .0501(c)(8) is below the limit given in Section 2.1 A. 3. a. above. If the demonstration in (b) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0521.

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

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

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

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

4. 15A NCAC 2D .0524: NSPS 40 CFR PART 60 SUBPART Dc

- a. 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 2D .0524, "New Source Performance Standards (NSPS) as promulgated in 40 CFR 60, Subpart Dc, including Subpart A "General Provisions." [15A NCAC 2D .0524]

Emission/Sulfur Content Limitation [15A NCAC 2D .0524]

- b. The maximum sulfur content of any fuel oil received and burned in the boilers shall not exceed **0.5 percent by weight**. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524 if sulfur content of any fuel oil fired at the facility exceeds this limitation. [40 CFR 60.42c(d) & (h)(2)]

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

- c. In addition to any other recordkeeping required by 40 CFR 60.48c or recordkeeping requirements of the EPA, the Permittee shall record and maintain the following records:
 - i. the amounts of No. 2/No. 4/No. 5/No. 6 fuel oil combusted during each day; and,
 - ii. the amounts of biogas, natural gas, and animal fat combusted during each calendar month.The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524 if these records are not maintained. [40 CFR 60.48c(g)]
- d. The Permittee shall maintain fuel supplier certifications for each shipment of distillate and/or residual fuel oil received. The fuel supplier certification(s) shall include the following information:
 - i. For distillate fuel oils:
 - A. the name of the oil supplier; and
 - B. a statement from the oil supplier that the oil complies with the specification under the definition of distillate oil in 40 CFR 60.41c.
 - ii. For residual fuel oils:
 - A. the name of the oil supplier;
 - B. the location of the oil when the sample was drawn for analysis to determine the sulfur content of the oil, specifically including whether the oil was sampled as delivered to the facility, or whether the sample was drawn from oil in storage at the oil supplier's or oil refiner's facility, or other location;
 - C. the sulfur content of the oil from which the shipment came (or the shipment itself); and
 - D. the method used to determine the sulfur content of the oil.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524 if the sulfur content of fuel oils are not monitored as described above. [40 CFR 60.46c(e), 40 CFR 60.48c(f)(1)-(2)]

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

- e. In addition to any other reporting required by 40 CFR 60.48c or notification requirements of the EPA, the Permittee is required to submit to a written semiannual summary report to DAQ by January 30th of each calendar year for the preceding 6-month period between July and December and by July 30th of each calendar year for the preceding 6-month period between January and June. The summary report shall include the following:
 - i. Calendar dates covered in the reporting period;
 - ii. Fuel supplier certification(s) for each distillate and/or residual fuel oil, as provided in Section 2.1 A.4. d. of this permit;
 - iii. A certified statement signed by the owner or operator that the records of fuel supplier certification(s) submitted represent all of the fuel fired at the affected boilers during the semiannual period; and,
 - iv. All instances of deviations with 15A NCAC 2D .0524 as provided in this permit during the reporting period.

[40 CFR 60.48c(e)(11), 40 CFR 60.48c(j)]

- B. Four (4) natural gas-fired hair singers (ID Nos. ES-9, ES-10, ES-15, ES-16);**
One (1) biogas flare (CD-11) installed on the wastewater treatment plant (ID No. ES-BPS);
and,
Nineteen (19) No. 2 fuel oil-fired electric generators (South Building: ID Nos. ES-17, ES-18, ES-19, ES-20, ES-21, ES-22, ES-23, ES-24; North Building: ID Nos. ES-26, ES-27, ES-28, ES-29, ES-30, ES-31, ES-32, ES-33, ES-34, ES-35, ES-36)

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Sulfur dioxide	2.3 pounds per million Btu heat	15A NCAC 2D .0516
Sulfur dioxide	Fuel oil (electric generators [South Bldg.]), biogas and natural gas firing See Section 2.2 A – PSD Avoidance	15A NCAC 2Q .0317
Nitrogen oxides	Fuel oil firing (electric generators [North Bldg.] less than 250 tons per consecutive 12-month period	15A NCAC 2Q .0317
Nitrogen oxides	Fuel oil (electric generators [South Bldg.]), biogas and natural gas firing See Section 2.2 A – PSD Avoidance	15A NCAC 2Q .0317
Visible emissions	20 percent opacity	15A NCAC 2D .0521

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

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

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

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(3) and General Condition JJ. If the results of this test are above the limit given in Section 2.1 B. 1. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516.

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

- c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the firing of biogas, natural gas, or No. 2 fuel oil in the respective sources.

2. 15A NCAC 2D .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. [15A NCAC 2D .0521(d)]

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

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

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

- c. No monitoring/recordkeeping/reporting is required for visible emissions from the firing of biogas, natural gas, or No. 2 fuel oil in the respective sources.

3. 15A NCAC 2Q. 0317: AVOIDANCE OF PREVENTION OF SIGNIFICANT DETERIORATION

- a. In order to avoid applicability of 15A NCAC 2D .0530(g), the eleven (11) electric generators in the North Building (ES-26, ES-27, ES-28, ES-29, ES-30, ES-31, ES-32, ES-33, ES-34, ES-35, ES-36) shall discharge into the atmosphere less than 250 tons of nitrogen oxides per consecutive 12-month period. The total use of No. 2 fuel oil in the eleven (11) electric generators shall be limited to **1,105,000 gallons per year** such that nitrogen oxides emissions are less than 250 tons for any consecutive 12-month period. [15A NCAC 2D .0530]

Testing [15A NCAC 2Q .0501(c)(7)]

- b. If emissions testing is required, the Permittee shall perform such testing in accordance with 15A NCAC 2D .0501(c)(7) and General Condition JJ. If the results of this test are above the limit given in Section 2.2 A. 1. a., the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.

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

- c. The total use (in gallons) of No. 2 fuel oil in the eleven (11) electric generators in the North Building (ES-26, ES-27, ES-28, ES-29, ES-30, ES-31, ES-32, ES-33, ES-34, ES-35, ES-36) shall be recorded monthly. Records shall be kept in a log (written or electronic format). The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the fuel usage is not recorded or if the fuel usage exceeds the limit in Section 2.1 B. 3. a.

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

- d. The Permittee shall submit a semiannual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities by January 30 of each calendar year for the preceding 6-month period between July and December and July 30 of each calendar year for the preceding 6-month period between December and June. The report shall contain the following:
- i. The monthly nitrogen oxides emissions for the previous 14 months. The emissions must be calculated for each of the 12-month periods over the previous 14 months; and,
 - ii. The monthly quantities of No. 2 fuel oil consumed for the previous 14 months.

C. One (1) rendering plant operation (ES-12, ES-13, ES-14) consisting of:

- a) **Two (2) cookers with throughput capacities of 22,000 and 44,000 pounds of water per hour (ID No. ES-12a) with primary entrainment traps controlled by:**
- i) **One (1) condensables removal system sized to condense a maximum of 88,000 pounds per hour of water vapor (ID No. C1C) consisting of one shell and tube heat exchanger and/or two air cooled condensers in series with**
 - ii) **One (1) fixed throat venturi scrubber with a pressure range of 12 to 40 pounds per square inch (ID No. C1V) utilizing process wastewater in series with**
 - iii) **One (1) packed tower wet scrubber with a pressure range of 12 to 20 pounds per**

square inch (ID No. C1P) utilizing chlorine dioxide.

- b) **One (1) rendering plant hair hydrolyzer (ID No. ES-12b) controlled by the following:**
 - i) **One (1) fixed throat venturi scrubber with a pressure range of 12 to 40 pounds per square inch (ID No. C1V) utilizing process wastewater in series with**
 - ii) **One (1) packed tower wet scrubber with a pressure range of 12 to 20 pounds per square inch (ID No. C1P) utilizing chlorine dioxide.**

- c) **Low intensity odorous rendering plant operations including meal presses and grease centrifuges (ID No. ES-12c) controlled by the following:**
 - i) **One (1) fixed throat venturi scrubber with a pressure range of 12 to 40 pounds per square inch (ID No. C1V) utilizing process wastewater in series with**
 - ii) **One (1) packed tower wet scrubber with a pressure range of 12 to 20 pounds per square inch (ID No. C1P) utilizing chlorine dioxide.**

- d) **One (1) natural gas-fired ring blood dryer (ID No. ES-13) controlled by the following:**
 - i) **One (1) fixed throat venturi scrubber with a pressure range of 10 to 40 pounds per square inch (ID No. C2V) utilizing process wastewater in series with**
 - ii) **One (1) packed tower wet scrubber with a pressure range of 7 to 20 pounds per square inch (ID No. C2P) utilizing chlorine dioxide.**

- e) **Rendering plant building room air ventilation system (ID No. ES-14) controlled by one packed tower wet scrubber with a pressure range of 10 to 40 pounds per square inch (ID No. C3) utilizing chlorine dioxide.**

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	$E = 4.10P^{0.67}$ or $E = 55.0P^{0.11} - 40$ where E = allowable emission rate in pounds per hour P = process weight rate in tons per hour	15A NCAC 2D .0515
Sulfur dioxide	2.3 pounds per million Btu heat <i>Ring blood dryer (ID No. ES-13) only</i>	15A NCAC 2D .0516
Sulfur dioxide	See Section 2.2 A – PSD Avoidance <i>Ring blood dryer (ID No. ES-13) only</i>	15A NCAC 2Q .0317
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Nitrogen oxides	See Section 2.2 A – PSD Avoidance <i>Ring blood dryer (ID No. ES-13) only</i>	15A NCAC 2Q .0317
Odor	See Section 2.2 B; State-enforceable only	15A NCAC 2D .0539

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

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

$$E = 4.10 \times P^{0.67} \quad \text{for } P \leq 60,000 \text{ pounds per hour}$$

$$\text{or } E = 55.0 \times P^{0.11} - 40 \quad \text{for } P > 60,000 \text{ pounds per hour}$$

Where E = allowable emission rate in pounds per hour and 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 2Q .0501(c)(3)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(3) and General Condition JJ. If the results of this test are above the limit given in Section 2.1 C. 1. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515.

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

- c. Particulate matter emissions from the two cookers (**ID No. ES-12a**) shall be controlled by the condensibles removable system (**ID No. C1C**) in series with a venturi scrubber (**ID No. C1V**) that is in series with a packed tower wet scrubber (**ID No. C1P**). Particulate matter emissions from the hair hydrolyzer (**ID No. ES-12b**) and the low intensity odorous rendering plant operations (**ID No. ES-12c**) shall be controlled by a venturi scrubber (**ID No. C1V**) in series with a packed tower wet scrubber (**ID No. C1P**). Particulate matter emissions from the ring blood dryer (**ID No. ES-13**) shall be controlled by a venturi scrubber (**ID No. C2V**) in series with a packed tower wet scrubber (**ID No. C2P**). Particulate matter emissions from the rendering plant building ventilation system (**ID No. ES-14**) shall be controlled by a packed tower wet scrubber (**ID No. C3**). To assure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer of the control devices. In addition to the manufacturer's inspection and maintenance recommendations, or if there is no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include the following:

- i. a monthly visual inspection of the system duct work and control devices for leaks; and
- ii. a semiannual internal inspection of the control devices including the condensibles removable system (**ID No. C1C**), the venturi scrubbers (**ID Nos. C1V and C2V**) and the packed tower wet scrubbers (**ID Nos. C1P, C2P, and C3**) for structural integrity.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if the ductwork and the condensibles removable system (**ID No. C1C**), the venturi scrubbers (**ID No. C1V and C2V**) and the packed tower wet scrubbers (**ID Nos. C1P, C2P, and C3**) are not inspected and maintained.

- d. The results of inspection and maintenance shall be maintained in a log (written or electronic format) on-site and made available to an authorized representative upon request. The log shall record the following:
- i. the date and time of each recorded action;
 - ii. the results of each inspection;
 - iii. the results of any maintenance performed on the 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 2D .0515 if these records are not maintained.

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

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

2. 15A NCAC 2D .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. [15A NCAC 2D .0521(d)]

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

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

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

- c. No monitoring/recordkeeping/reporting is required for visible emissions from the rendering plant operation.

D. One (1) plant refrigeration system (ID No. ES-37)

Regulated Pollutant	Limits/Standards	Applicable Regulation
Toxic Air Pollutants (TAPs)	State Enforceable Only Ammonia emissions shall not exceed 6.8 lb/hr	15A NCAC 2D .1100

STATE-ONLY REQUIREMENT:

1. TOXIC AIR POLLUTANT EMISSIONS LIMITATION AND REQUIREMENT

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

EMISSION SOURCE(S)	TOXIC AIR POLLUTANT(S)	EMISSION LIMIT(S)
Plant refrigeration system (ES-37)	Ammonia	6.8 lb/hr

- b. To ensure compliance with the toxic air pollutant emission limit listed above, the total quantity of ammonia purchased by the facility (to make-up for inventory lost) shall not exceed 59,560 pounds for any consecutive 12-month period (lbs/12-months). The Permittee shall be deemed in non-compliance with 15A NCAC 2D .1100 if the purchased quantity exceeds the limit listed above.
- c. The Permittee shall maintain ammonia purchasing records to demonstrate compliance with the emissions and purchasing limits provided above. The Permittee shall be deemed in non-compliance with 15A NCAC 2D .1100 if these records are not retained.

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

- A. One (1) biogas/natural gas-fired boiler (ID No. ES-1/CD-ES-1),**
- One (1) biogas/natural gas/No. 2/No. 4/No. 5/No. 6 fuel oil-fired boiler (ID No. ES-2/CD-ES-2),**
- Six (6) natural gas/animal fat/No. 2/No. 4/No. 5/No. 6 fuel oil-fired boilers (ID Nos. ES-3, ES-4, ES-5, ES-6, ES-7, ES-8),**
- Four (4) natural gas-fired hog singers (ID Nos. ES-9, ES-10, ES-15 and ES-16),**
- One (1) biogas flare (ID No. CD-11),**
- Eight (8) No. 2 fuel oil-fired electric generators (South Building: ID Nos. ES-17, ES-18, ES-19, ES-20, ES-21, ES-22, ES-23, ES-24), and**
- One (1) natural gas-fired ring blood dryer (ID Nos. ES-13).**

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
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Regulated Pollutant	Limits/Standards	Applicable Regulation
Nitrogen oxides	Biogas, natural gas, animal fat, or fuel oil firing Less than 250 tons per consecutive (12) month period	15A NCAC 2Q .0317 (15A NCAC 2D .0530)
Sulfur dioxide	Biogas, natural gas, animal fat, or fuel oil firing Less than 250 tons per consecutive (12) month period	15A NCAC 2Q .0317 (15A NCAC 2D .0530)

1. 15A NCAC 2Q. 0317: AVOIDANCE CONDITIONS for 15A NCAC 2D. 0530, PREVENTION OF SIGNIFICANT DETERIORATION (Nitrogen Oxides)

- a. In order to avoid applicability of 15A NCAC 2D .0530(g), the above emission sources shall discharge into the atmosphere less than 250 tons of nitrogen oxides per consecutive 12-month period. The combination of fuel usage in the above emission sources shall be limited such that nitrogen oxides emissions shall not exceed 250 tons for any consecutive 12-month period. [15A NCAC 2D .0530]

Testing [15A NCAC 2Q .0501(c)(7)]

- b. Under the provisions of NCGS 143-215.108, the Permittee shall conduct a stack test of one of the boilers (**ID Nos. ES-3, ES-4, ES-5, ES-6, ES-7, ES-8**) and submit test results to the DAQ within 180 days of the issuance of Permit No. 07221T13 (**ENTER DATE**) unless an alternate date is approved by the DAQ.
- The stack test results shall be used to determine the emission rate of nitrogen oxides associated with the combustion of animal fat (in lbs/MMBtu and lb/10³ gal);
 - The test shall utilize EPA Reference Method No. 7, contained in 40 CFR Part 60 Appendix A or in accordance with a testing protocol approved by the DAQ;
 - A fuel analysis shall be completed prior to the stack test to determine the heat content of the fuel (in Btu/gal) and the sulfur content of the fuel (in % by weight);
 - During the test, the boiler shall be operated at its maximum heat input capacity;
 - During the test, the boiler shall fire 100% animal fat;
 - The Permittee shall comply with all reporting and test requirements found in Section 3 - General Condition JJ.
 - The Permittee shall apply for a permit modification to include the NO_x emission factor, as determined in the stack test, in the Title V permit.** The emission factor may be added to the permit administratively.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if this test is not conducted as provided above.

- c. If emissions testing is required, the Permittee shall perform such testing in accordance with 15A NCAC 2D .0501(c)(7) and General Condition JJ. If the results of this test are above the limit given in Section 2.2 A.1. a., the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.

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

- The Permittee shall keep monthly records of the amount of each fuel used in a log (written or in electronic format). The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the fuel usage is not monitored and recorded.
- Each month, total nitrogen oxide emissions from the above sources for the previous 12-month period shall be calculated and recorded. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the above records are not kept or if the nitrogen oxides emissions exceed the limit in Section 2.2 A.1. a.

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

- The Permittee shall submit a semiannual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities by January 30 of each calendar year for the preceding 6-month period between July and December and by July 30 of each calendar year for the preceding 6-month period between December and June. The report shall contain the following:
 - The monthly nitrogen oxides emissions for the previous 14 months. The emissions must be calculated for each of the 12-month periods over the previous 14 months; and,
 - The monthly quantities of biogas, natural gas, animal fat, and fuel oil consumed over the previous 14 months.

2. 15A NCAC 2Q. 0317: AVOIDANCE CONDITIONS for 15A NCAC 2D. 0530, PREVENTION OF SIGNIFICANT DETERIORATION (Sulfur Dioxide)

- a. In order to avoid applicability of 15A NCAC 2D .0530(g), the above emission sources shall discharge into the atmosphere less than 250 tons of sulfur dioxide per consecutive 12-month period. The combination of fuel usage in the above emission sources shall be limited such that sulfur dioxide emissions shall not exceed 250 tons for any consecutive 12-month period. [15A NCAC 2D .0530]

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

- b. If emissions testing is required, the Permittee shall perform such testing in accordance with 15A NCAC 2D .0501(c)(4) and General Condition JJ. If the results of this test are above the limit given in Section 2.2 A.2. a., the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.

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

- c. The Permittee shall keep monthly records of the amount of fuel used and the sulfur content, including certification of the fuel, in a log (written or in electronic format). The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the fuel usage or sulfur contents of the fuels are not monitored.
- d. Each month, total sulfur dioxide emissions from the above sources for the previous 12-month period shall be calculated and recorded. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the above records are not kept or if the sulfur dioxide emissions exceed the limit in Section 2.2 A.2. a.

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

- e. The Permittee shall submit a semiannual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities by January 30 of each calendar year for the preceding 6-month period between July and December and by July 30 of each calendar year for the preceding 6-month period between December and June. The report shall contain the following:
- i. The monthly sulfur dioxide emissions for the previous 14 months. The emissions must be calculated for each of the 12-month periods over the previous 14 months;
- ii. The monthly quantities of biogas, natural gas, animal fat, and fuel oil consumed over the previous 14 months, and the average sulfur content for the fuel oil.

B. One (1) rendering plant operation (ID Nos. ES-12, ES-13, and ES-14)

STATE-ONLY REQUIREMENT:

1. 15A NCAC 2D .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 animal 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:

- a. 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 noncondensable 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.

Odorous emissions from the various sources within the facility shall be controlled by their respective control devices as described in Section 2.1 C.

- b. Measurement and Recording Requirements: The Permittee processing or incinerating gases, vapors, or gas-entrained matter as required by condition 2.2 B. 1. a. 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 2D .0539. In addition, the Permittee shall follow an approved quality assurance program for all monitoring devices and systems, including:
- i. procedures and frequencies for calibration,
- ii. standards traceability,

- iii. operational checks,
 - iv. maintenance schedules and procedures,
 - v. auditing schedules and procedures, and
 - vi. data validation.
- c. 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.
- d. 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 24 hours. Reasonable precautions shall include the following:
- i. 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;
 - ii. use of covered vehicles or containers of watertight construction for the handling and transporting of any raw material; and
 - iii. 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.
- g. 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 (2) business days after conditions are encountered that cause or may cause release of excessive and malodorous gases or vapors.
- h. Control Device Maintenance, Monitoring, Recordkeeping and Reporting Requirement: To prevent odorous emissions from the facility the optimum control efficiency of the venturi scrubbers (**ID Nos. C1V and C2V**), the packed tower scrubber (**ID Nos. C1P, C2P and C3**) and the condensibles removal system (**ID No. C1C**) 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 the following:
- i. Continuous monitoring of the pressure associated with flow rate of all scrubbers and the pH of chlorine dioxide delivered to the packed tower scrubbers when the scrubbers are in operation with the results and time of observations to be noted in a log at least once a day (*see equipment description in Section 2.1 C. above for the specified pressure and pH ranges for each scrubber*);
 - ii. Weekly inspection of the scrubbers including spray nozzles, packing material, and chemical (chlorine dioxide) feed system to ensure proper operation;
 - iii. Monthly cleaning and calibration of all instrumentation associated with the control devices;
 - iii. Monthly inspection of the condensers including inspection of the duct work and leakage of coolant and gas stream; and
 - iv. Semiannual internal inspection of the control devices and external inspection of associated duct work to ensure structural integrity. The results of inspection and maintenance for the control devices shall be maintained in a log (written or electronic format) on site and made available to an authorized DAQ representative upon request. The log shall contain 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
 - (d) any variance from manufacturer's recommendations, if any, and corrections made.
- The Permittee shall retain records of all required monitoring data and supporting information for a period of at least **three** 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, and copies of all reports required by the permit.

C. All emission sources

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Odors	Odorous emissions must be controlled; State-enforceable only	15A NCAC 2D .1806

STATE-ONLY REQUIREMENT:

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

- a. The Permittee shall not operate the facility without implementing management practices or installing and operating odor control equipment sufficient to prevent odorous emissions from the facility from causing or contributing to objectionable odors beyond the facility's boundary.
- b. If the Division of Air Quality (the Division) determines that the Permittee is emitting objectionable odor by the procedures described in 15A NCAC 2D .1806(g), the Division may provide a written notification to the Permittee requiring a determination of maximum feasible controls for odorous emissions pursuant to 15A NCAC 2D .1807. [15A NCAC 2D .1806(f)]

2. 15A NCAC 2Q .0508(g): PREVENTION OF ACCIDENTAL RELEASES - SECTION 112(r) OF THE CLEAN AIR ACT

- a. The Permittee is subject to Section 112(r) of the Clean Air Act and shall comply with all applicable requirements in accordance with 40 CFR Part 68 [15A NCAC 2Q .0508(g)].

SECTION 3 - GENERAL CONDITIONS

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

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

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

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

The Permittee shall have available at the facility a copy of this permit and shall retain for the duration of the permit

term one complete copy of the application and any information submitted in support of the application package. The permit and application shall be made available to an authorized representative of Department of Environment and Natural Resources upon request.

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

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

D. **Submissions** [15A NCAC 2Q .0507(c)]

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

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

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

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

F. **Circumvention** - STATE ENFORCEABLE ONLY

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

G. **Permit Modifications**

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

H. **Changes Not Requiring Permit Modifications**

1. Section 502(b)(10) Changes [15A NCAC 2Q .0523(a)]
 - a. "Section 502(b)(10) changes" means changes that contravene an express permit term or condition. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.

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

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

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

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

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

Excess Emissions

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

Permit Deviations

3. Pursuant to 15A NCAC 2Q .0508(f)(2), the Permittee shall report deviations from permit requirements (terms and conditions) as follows:
 - a. Notify the Regional Supervisor or Director of all other deviations from permit requirements not covered under 15A NCAC 2D .0535 on the next business day after becoming aware of the deviation. A written report shall be submitted within two business days to the Regional Supervisor and shall include the probable cause of such deviation and any corrective actions or preventative actions taken. All reports of deviations from permit requirements shall be certified by a responsible official.

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

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

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

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

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

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

K. Permit Renewal [15A NCAC 2Q .0513(b)]

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

4. A permit shield does not extend to minor permit modifications made under 15A NCAC 2Q .0515.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

If emissions testing is required by this permit or the DAQ or if the Permittee submits emissions testing to the DAQ in support of a permit application, the Permittee shall perform such testing in accordance with the appropriate EPA reference method(s) as approved by the DAQ and follow the procedures outlined below. The Permittee must request **in writing** and receive approval from the DAQ for an alternate test method or procedure.

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

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

1. A permit shall be reopened and revised under the following circumstances:
 - a. additional applicable requirements become applicable to a facility with remaining permit term of three or more years;
 - b. additional requirements (including excess emission requirements) become applicable to a source covered by Title IV;
 - c. the Director or EPA finds that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; or
 - d. the Director or EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
2. Any permit reopening shall be completed or a revised permit issued within 18 months after the applicable requirement is promulgated. No reopening is required if the effective date of the requirement is after the expiration of the permit term unless the term of the permit was extended pursuant to 15A NCAC 2Q .0513(c).
3. Except for the state-enforceable only portion of the permit, the procedures set out in 15A NCAC 2Q .0507, .0521, or .0522 shall be followed to reissue the permit. If the State-enforceable only portion of the permit is reopened, the procedures in 15A NCAC 2Q .0300 shall be followed. The proceedings shall affect only those parts of the

permit for which cause to reopen exists.

4. The Director shall notify the Permittee at least 60 days in advance of the date that the permit is to be reopened, except in cases of imminent threat to public health or safety the notification period may be less than 60 days.
5. Within 90 days, or 180 days if the EPA extends the response period, after receiving notification from the EPA that a permit needs to be terminated, modified, or revoked and reissued, the Director shall send to the EPA a proposed determination of termination, modification, or revocation and reissuance, as appropriate.

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

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

ATTACHMENT

List of Acronyms

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

PART II

The Permittee is hereby authorized to construct air emission source(s) and associated air pollution control device(s) and appurtenances listed in Section 1, Part II of this permit, in accordance with the completed Air Quality Permit Application No. 0900055.06A received August 21, 2006, including all plans, specifications, previous applications, and other supporting data, all of which are filed with the DAQ and are incorporated in Part II of this Air Quality Permit.

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

Table 1: The following table contains a summary of all authorized emission sources and associated air pollution control devices and appurtenances **associated with Air Quality Permit Application No. 0900055.06A**:

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
ES-3*, ES-4*, ES-5*, ES-6*, ES-7*, ES-8* NSPS, Subpart Dc	Six (6) natural gas/animal fat/ No. 2/No. 4/No. 5/No. 6 fuel oil-fired boilers (29.29 million Btu per hour heat input rate each)	NA	NA

*The combustion of animal fat at these emission sources (**ID Nos. ES-3, ES-4, ES-5, ES-6, ES-7, and ES-8**) are authorized under a Part II as a minor modification per 15 A NCAC 2Q .0515. The compliance certification as described in General Condition P is required. Unless otherwise notified by NC DAQ, the affected Part I terms of this permit (excluding the permit shield as described General Condition R) for this source shall become final on January 27, 2007. Until this date, the affected Part I permit terms herein reflect the proposed operating language that the Permittee shall operate this source under pursuant to 15A NCAC 2Q .0515(f).

SECTION 2: SPECIFIC LIMITATIONS AND CONDITIONS

The air emission source(s) and associated air pollution control device(s) and appurtenances listed in Section 1 are subject to the following specific terms, conditions, and limitations, including the monitoring, recordkeeping, and reporting requirements as specified herein:

1. Any air emission sources or control devices authorized to construct in Section 1 must be constructed and maintained in accordance with the provisions contained herein and operated in accordance with provisions contained in Part I of this permit. The Permittee shall comply with applicable Environmental Management Commission Regulations, including Title 15A NCAC, Subchapter 2D .0503, .0516, .0521, and .0524 and Subchapter 2Q .0317.

SECTION 3: GENERAL CONDITIONS:

This section describes terms and conditions applicable to the construction of the air emission source(s) and associated air pollution control device(s) listed in Section 1 and State-only emission sources listed in Part I of the permit. Unless otherwise specified herein all references to the "permit" in this section apply only to Part II of the permit.

A. Operating Conditions

All operating conditions for the air emission source(s) and associated air pollution control device(s) listed in Section 1 are under Part I of this permit.

B. General Provisions

1. This permit is nontransferable by the Permittee. Future owners and operators must obtain a new Air Quality Permit from the DAQ.
2. This issuance of this permit in no way absolves the Permittee of liability for any potential civil penalties which may be assessed for violations of state law which have occurred prior to the issuance date of this permit.

3. A violation of any term or condition of Part II of this permit shall subject the Permittee to enforcement pursuant to NCGS 143-215.114A, 143-215.114B, and 143-215.114C, including assessment of civil and/or criminal penalties.

C. **Submissions (reports, test data, monitoring data, notifications, and requests for renewal)**

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.

D. **Part II Renewal Request**

The Permittee shall request renewal of the emission source(s) and associated air pollution control device(s) listed in Section 1 at the same time as specified in Part I, Section 3 - General Condition K of this permit.

E. **Annual Fee Payment**

The Permittee shall pay all fees in accordance with 15A NCAC 2Q .0200 and in conjunction with Part I, Section 3 - General Condition W of this Air Quality Permit.

F. **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:

1. changes in the information submitted in the application;
2. changes that modify equipment or processes; or
3. 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.

G. **Termination, Modification, and Revocation of the Permit**

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; or
4. 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.

H. **Inspection and Entry**

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:

1. 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;
2. have access to and copy, at reasonable times, any records that are required to be kept under the conditions of the permit;
3. 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
4. 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.

I. **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.