

**PROPOSED**

Mr. Daniel Crowe  
Plant Manager  
Tyson Foods, Inc. - Harmony Rendering Plant  
P.O. Box 158  
Harmony, NC 28634

Dear Mr. Crowe:

**SUBJECT: Air Quality Permit No. 03378T26**  
**Facility ID: 4900093**  
**Tyson Foods, Inc. - Harmony Rendering Plant**  
**Harmony, NC**  
**Iredell County**  
**Fee Class: Title V**

In accordance with your completed Air Quality Permit Application for a renewal of a Title V permit received January 30, 2006, we are forwarding herewith Air Quality Permit No. **03378T26** to Tyson Foods, Inc. – Harmony Rendering Plant, 501 Sheffield Road, Harmony, North Carolina authorizing the construction and operation, of the emission source(s) and associated air pollution control device(s) specified herein. Additionally, any emissions activities determined from your Air Quality Permit Application as being insignificant per 15A North Carolina Administrative Code 2Q .0503(8) have been listed for informational purposes as an "ATTACHMENT." Please note the requirements for the annual compliance certification are contained in General Condition P in Section 3 of Part I. **The current owner is responsible for submitting a compliance certification for the entire year regardless of who owned the facility during the year.**

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

Mr. Daniel Crowe

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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 143-215-108A(b) and received written approval from the Director of the Division of Air Quality to commence construction. Failure to receive an Air Quality Permit or written approval prior to commencing construction is a violation of GS 143-215.108A and may subject the Permittee to civil or criminal penalties as described in GS 143-215.114A and 143-215.114B.**

This Air Quality Permit shall be effective from XX, until XX, 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 Kevin Godwin (919) 715-6255.

Sincerely yours,

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

Enclosure

c: Greg Worley – EPA Region IV, with review  
Michael Landis, Supervisor, Mooresville Regional Office  
Central Files

Table of changes

<b>Page No.</b>	<b>Section</b>	<b>Change</b>
5	2.1 A.1.b.	Included testing requirement for PM emissions from the coal-fired boiler.
Throughout permit	Throughout permit	Updated "Control of Visible Emissions" [2D .0521] language to most recent shell version.
20	2.2 B.	Included Compliance Assurance Monitoring (CAM) plan requirements.
23	2.2 C.	Included MACT Subpart DDDDD avoidance condition.
24	3	Updated General Conditions to most recent shell version.

<b>Source ID</b>	<b>Description</b>
IES-01	Cummings diesel 130 hp fire pump
IHammer	Poultry and feather meal hammermills
IShip	Poultry and feather meal shipping
I-41	Meat meal raw bin
I-42	Perk pans
I-43	Hammermill surge bin
I-44	Hammermill
I-45A-C	Rotex screen and separators
I-46	Fat screen venting to VS1 and HIS1
I-47	Fat holding tank
I-48	Meat meal loadout
I-49	Feather raw dump receiving area
I-50	Flash chamber venting to CD-01E, CD25, and CD16C
I-51	Feather dryer feed surge bin
I-52	Blood coagulator, centrifuge venting to CD16C
I-53	Feather hammermill
I-54	Feather meal loadout

**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
<b>03378T26</b>	03378T25	XXXX	XXXX

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

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

**Permittee:** **Tyson Foods, Inc. - Harmony Rendering Plant**  
**Facility ID:** **4900093**

**Facility Site Location:** **501 Sheffield Road**  
**City, County, State, Zip:** **Harmony, Iredell County, NC 28634**

**Mailing Address:** **P.O. Box 158**  
**City, State, Zip:** **Harmony, NC 28634**

**Application Number:** **4900093.06A and 4900093.07A**  
**Complete Application Date:** **January 30, 2006 and January 29, 2007**

**Primary SIC Code:** **2077**  
**Division of Air Quality,**  **Mooresville Regional Office**  
**Regional Office Address:** **610 East Center Avenue, Suite 301**  
**Mooresville, NC 28115**

Permit issued this the XXth day of , 2007.

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

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ATTACHMENT

List of Acronyms

### **PART II**

This Permit does not include a Part II

## PART I

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

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

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

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

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
18, 19 and 20	Three (3) No. 2 fuel oil-fired boilers (51.0, 43.3 and 43.3 million Btu per hour maximum heat input, respectively)	NA	NA
21 CAM	One (1) coal-fired boiler (142.3 million Btu per hour maximum heat input)	21C1 and 21C2	One (1) multicyclone (168 nine-inch tubes) in series with one (1) bagfilter (23,530 square feet of filter area)
ES-22 and ES-49	Pneumatic ash handling system transferring ash to a bottom ash silo (ES-22) and a fly ash silo (ES-49)	CD-22C1 and CD-49C	One (1) bagfilter installed on silo ES-22 (648 square feet of filter area) and one (1) bagfilter installed on silo ES-49 (81 square feet of filter area)
28	One (1) continuous hydrolyzer	16C, CD-25 and CD-01E	One (1) packed bed scrubber (pressure range of 4.4 to 6.5 inches of water) installed in series with one (1) venturi scrubber (pressure range of 0.5 to 3.0 inches of water) installed in series with one (1) air cooled steam condenser
40	One blood storage tank (25,000 gallon capacity)	16C	One (1) packed-bed scrubber (pressure range of 4.4 to 6.5 inches of water)
24R	One (1) continuous meat cooker	CD-01B, CD-01C, CD-01D, VS1, & HIS1	Installed in series with three (3) air cooled steam condensers installed in series with a venturi scrubber and a high intensity scrubber
23R	One (1) continuous meat cooker	CD-01A, VS1, & HIS1	One (1) air cooled steam condenser installed in series with a venturi scrubber and a high intensity scrubber

<b>Emission Source ID No.</b>	<b>Emission Source Description</b>	<b>Control Device ID No.</b>	<b>Control Device Description</b>
6	Meal dryer	6CN1 CD-01E CD-25 16C	One cyclone (6 feet in diameter) in series with one air cooled steam condenser in series with one venturi scrubber (pressure range 0.3 to 5 inches of water) in series with one packed bed scrubber (pressure range of 4.4 to 6.5 inches of water)
7	Meal dryer	7CN1 CD-01E CD-25 16C	One cyclone (6 feet in diameter) in series with one air cooled steam condenser in series with one venturi scrubber (pressure range 0.3 to 5 inches of water) in series with one packed bed scrubber (pressure range of 4.4 to 6.5 inches of water)
01 & 02 and 03, 04 & 05	Two (2) feather meal silos and three (3) poultry meal silos	01A &, 02A, 03A, 03B, 04A, 04B, 05A and 05B	Two bagfilters (one unit per silo; 37.7 square feet of filter area each) Six (6) bagfilters (two units per silo; 37.7 square feet of filter area each)
17	Meat building (room air) odor control system	17C	One (1) crossflow scrubber (pressure range of 3.5 to 4.5 inches of water)
26 NSPS	One (1) No. 2 fuel oil-fired boiler (25.1 million Btu per hour maximum heat input)	NA	NA
30A & 30B	Two fat centrifuges	VS1, & HIS1	Installed in series with a venturi scrubber and a high intensity scrubber
31	Fat centrifuge holding tank	VS1, & HIS1	Installed in series with a venturi scrubber and a high intensity scrubber
33	Drain H <sub>2</sub> O tank	VS1, & HIS1	Installed in series with a venturi scrubber and a high intensity scrubber
34A, 34B and 34C	Three presses (expellers)	VS1, & HIS1	Installed in series with a venturi scrubber and a high intensity scrubber
35	Condensate junction box	VS1, & HIS1	Installed in series with a venturi scrubber and a high intensity scrubber
37	Raw blood tank #2	VS1, & HIS1	Installed in series with a venturi scrubber and a high intensity scrubber
36	Wash down tank	VS1, & HIS1	Installed in series with a venturi scrubber and a high intensity scrubber
38A through 38D	Four fat storage tanks	VS1, & HIS1	Installed in series with a venturi scrubber and a high intensity scrubber
39 NSPS	One (1) No. 2 fuel oil-fired boiler (85 million Btu per hour maximum heat input)	NA	NA

**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 coal-fired boiler (ID No. 21) and associated bagfilter (ID No. 21C2) and multicyclone (ID No. 21C1), and three No. 2 fuel-oil fired boilers (ID Nos. 18, 19 and 20)**

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

<b>Regulated Pollutant</b>	<b>Limits/Standards</b>	<b>Applicable Regulation</b>
Particulate matter	0.2458 pounds per million Btu	15A NCAC 2D .0503
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 2D .0516
Visible emissions	20 percent opacity <i>for boilers (ID Nos. 18 and 21)</i>	15A NCAC 2D .0521(c)
	40 percent opacity <i>for boilers (ID Nos. 19 and 20)</i>	15A NCAC 2D .0521(d)
Sulfur dioxide	Less than 368.93 tons per consecutive 12-month period	15A NCAC 2Q .0317 for avoidance of 15A NCAC 2D .0530 (PSD avoidance)
Hazardous air pollutants	Less than 10 tpy individual HAP and less than 25 tpy combined HAP ( <i>ID No. 21</i> ) - See Section 2.2 C.	15A NCAC 2Q .0317 for avoidance of 2D .1111 (MACT Subpart DDDDD)
Particulate matter and visible emissions	Compliance Assurance Monitoring (CAM) – See Section 2.2 B.	15A NCAC 2D .0614

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

- a. Emissions of particulate matter from the combustion of No. 2 fuel oil and coal discharged from the boilers into the atmosphere shall not exceed **0.2458 pounds per million Btu heat input**. [15A NCAC 2D .0503(a)]

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

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

Under the provisions of NCGS 143-215.108, the Permittee shall demonstrate compliance with the emission limit(s) above by testing the coal-fired boiler **(ID No. 21)** for particulate matter in accordance with a testing protocol approved by the DAQ. Details of the emissions testing and reporting requirements can be found in Section 3 - General Condition JJ. Testing shall be completed and the results submitted by **August 31, 2007** unless an alternate date is approved by the DAQ. 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** [15A NCAC 2Q .0508(f)]

- c. No monitoring/recordkeeping/reporting is required for particulate matter emissions from the firing of No. 2 fuel oil in boilers (**ID Nos. 18, 19 and 20**).
- d. Particulate matter emissions from the coal-fired boiler (**ID No. 21**) shall be controlled by the bagfilter (**ID No. 21C2**) installed in series with the multicyclone (**ID No. 21C1**). To assure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there is no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include the following:
  - i. an annual internal inspection of the bagfilter's and multicyclone's structural integrity; and
  - ii. a monthly external visual inspection of the system duct work, and material collection unit for leaks.The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0503 if the bagfilter, multicyclone and duct work are not inspected and maintained.

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

- e. 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. a report of any maintenance performed on the multicyclone; and
  - iv. any variance from manufacturer's recommendations, if any, and corrections made.The Permittee shall be deemed in non-compliance with 15A NCAC 2D .0503 if these records are not retained.

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

- f. Within 30 days of a written request from the DAQ, the Permittee shall submit a report of any maintenance performed on the multicyclone and/or bagfilter.
- g. 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 .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES**

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

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

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

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

- c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the firing of No. 2 fuel oil in the boilers (**ID Nos. 18, 19 and 20**).
- d. To assure compliance, the Permittee shall monitor the sulfur and heat content of all the coal burned during the reporting period by using coal supplier certification per total shipment received. The coal supplier certification shall be recorded in a log (written or electronic format) per total shipment and include the following information:
  - i. the name of the coal supplier; and

- ii. a statement verifying that the methods used to determine the maximum sulfur content of the coal was in accordance with the following:
  - (A) sampling - ASTM Method D 2234;
  - (B) preparation - ASTM Method D 2013;
  - (C) gross calorific value (Btu) - ASTM Method D 5865;
  - (D) moisture content - ASTM Method D 3173; and
  - (E) sulfur content - ASTM Method D 3177 or ASTM Method D 4239.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516 if the sulfur and heat content of the coal is not monitored and recorded.

- e. The Permittee is required to calculate and record in a log (written or electronic format) the pounds of sulfur dioxide per million Btu heat content of the coal per total shipment taking into account any controls operated during the same period. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516 if these records are not kept or if the results show an exceedance of the limit given in Section 2.1 A.2.a. above.

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

- f. The Permittee shall submit a summary report of the coal supplier certifications and calculations of the pounds of sulfur dioxide per million Btu heat content of the coal per total shipment 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.

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

- a. Visible emissions from the boilers (**ID Nos. 18 and 21**) 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)]
- b. Visible emissions from the boilers (**ID Nos. 19 and 20**) shall not be more than **40 percent opacity** when averaged over a six-minute period. However, six-minute averaging periods may exceed 40 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 90 percent opacity. [15A NCAC 2D .0521(c)]

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

- c. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.3.a. (**ID Nos. 18 and 21**) or A.3.b. (**ID Nos. 19 and 20**) above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

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

- d. No monitoring/recordkeeping/reporting is required for visible emissions from the firing of No. 2 fuel oil in boilers (**ID Nos. 18, 19 and 20**).

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

- c. To assure compliance, once a day the Permittee shall observe the emission points of the boiler (**ID No. 21**) for any visible emissions above normal. The daily observation must be made for each day of the calendar year period to ensure compliance with this requirement. The Permittee shall be allowed three (3) days of absent observations per semi-annual period. If visible emissions from this source are observed to be above normal, the Permittee shall either:
  - i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
  - ii. demonstrate that the percent opacity from the emission points of the emission source in accordance

with 15A NCAC 2D .0501(c)(8) is below the limit given in **Section 2.1 A.3. a** above. If the above-normal emissions are not corrected per (i) above or if the demonstration in (ii) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0521.

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

- f. 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 non-compliance with 15A NCAC 2D .0521 if these records are not retained.

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

- g. 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 2Q .0317: AVOIDANCE CONDITIONS (PSD Avoidance)**

- a. In order to avoid applicability of 15A NCAC 2D .0530(g), the above emission sources shall discharge into the atmosphere less than **368.93 tons of sulfur dioxide per 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 2.1 A.4.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 these records are not retained.
- d. The use of coal in the boiler shall be limited such that sulfur dioxide emissions shall not exceed 368.93 tons for any consecutive 12-month period. Calculations shall be made monthly and recorded in a log (written or electronic format), according to the following formula:

$$\text{Total actual lb sulfur dioxide emitted} = X \times 38 S \frac{\text{lb sulfur dioxide}}{\text{ton}}$$

Where: X is the amount of coal used in tons  
S is the percent sulfur in the coal

The Permittee shall be deemed in non-compliance with 15A NCAC 2D .0530 if these monthly calculations are not performed and recorded, or if the 12-month rolling emissions total exceeds the limit in Section 2.1 A.4.a. of this permit.

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

- e. The Permittee shall submit a semi-annual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December, and July 30 of each calendar

year for the preceding six-month period between January and June. The report shall contain the following:

- i. The monthly sulfur dioxide and particulate emissions for the previous 17 months. The emissions must be calculated for each of the 12-month periods over the previous 17 months;
- ii. The monthly quantities of coal and No. 2 fuel oil consumed for the previous 17 months; and
- iii. The average sulfur content of the coal and No. 2 fuel oil.

**B. One No. 2 fuel-oil boiler (ID No. 26)**

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

<b>Regulated Pollutant</b>	<b>Limits/Standards</b>	<b>Applicable Regulation</b>
Particulate matter	0.2472 pounds per million Btu	15A NCAC 2D .0503
Sulfur dioxide	0.5 percent by weight (sulfur content)	15A NCAC 2D .0524 (40 CFR Part 60 Subpart Dc)
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Sulfur dioxide	less than 40 tons per consecutive 12-month period	15A NCAC 2Q .0317 (PSD avoidance)

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

- a. Emissions of particulate matter from the combustion of No. 2 fuel oil, that are discharged from the boiler into the atmosphere shall not exceed **0.2472 pounds per million Btu heat input**. [15A NCAC 2D .0503(a)]

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

- b. If emissions testing is required, the testing shall be performed in accordance General Condition JJ. If the results of this test are above the limit given in Section 2.1 B.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 No. 2 fuel oil in the boiler (**ID No. 26**).

**2. 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 Part 60 Subpart Dc, including Subpart A "General Provisions." [15A NCAC 2D .0524]

**Emission Limitation** [15A NCAC 2D .0524]

- b. The maximum sulfur content of any fuel oil received and burned in the boiler shall not exceed **0.5 percent by weight**.

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

- c. Sulfur dioxide emissions shall be monitored as follows:
  - i. Distillate Oil - Fuel supplier certification shall be used to demonstrate compliance as described under 40 CFR 60.46c(e).

The Permittee shall be deemed in non-compliance with 15A NCAC 2D .0524 if the required tests are not

performed.

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

- d. In addition to any other recordkeeping required by 40 CFR 60.48c or recordkeeping requirements of the EPA, the Permittee shall record and maintain records of the amounts of No. 2 fuel oil fired during each month. The Permittee shall be deemed in non-compliance with 15A NCAC 2D .0524 if these records are not retained.

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

- e. In addition to any other reporting required by 40 CFR 60.48c or notification requirements to the EPA, the Permittee is required to **NOTIFY** the DAQ in **writing** of the following:
- i. a summary report, acceptable to the Regional Air Quality Supervisor, of the sulfur content of the distillate oil combusted, submitted within 30 days after the end of each reporting period, due by January 30 and July 30 of each calendar year for the preceding six-month period as follows:
- (A) **Distillate Oil** - Fuel supplier certification shall include the following information:
- (1) the name of the oil supplier;
  - (2) a statement from the oil supplier that the oil complies with the specification under the definition of distillate oil in 40 CFR 60.41c; and
  - (3) a certified statement signed by the owner or operator of an affected facility that the records of fuel supplier certification submitted represents all of the fuel fired during the reporting period.
- ii. All instances of deviations from the requirements of this permit must be clearly identified.

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

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

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

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

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

- c. No monitoring/recordkeeping/reporting is required for visible emissions from the firing of No. 2 fuel oil in the boiler (**ID No. ES-26**).

**4. 15A NCAC 2Q .0317: AVOIDANCE CONDITIONS (PSD Avoidance)**

- a. In order to avoid applicability of 15A NCAC 2D .0530(g), the boiler (**ID No. ES-26**) shall discharge into the atmosphere less than **40 tons of sulfur dioxide per consecutive 12-month period**. [15A NCAC 2D .0530]
- b. The boiler (**ID No. ES-26**) shall not combust more than **1,126,760 gallons of No. 2 fuel oil per consecutive 12-month period**.

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

- c. 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 2.1 B.4.a., the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.

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

- d. The Permittee shall keep monthly records of the No. 2 fuel oil combusted in a log (written or in electronic format). The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the amount of No. 2 fuel oil is not monitored, or if the amount of fuel combusted exceeds the limit in Section 2.1 B.4.b. of this

permit.

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

- e. The Permittee shall submit a semi-annual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December, and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following:
  - i. The monthly sulfur dioxide and particulate emissions for the previous 17 months. The emissions must be calculated for each of the 12-month periods over the previous 17 months;
  - ii. The monthly quantity of No. 2 fuel oil consumed for the previous 17 months; and
  - iii. The average sulfur content of the fuel oil.

**C. One pneumatic ash handling system transferring ash to a bottom ash silo (ID No. ES-22) and associated bagfilter (ID No. CD-22C1) and a fly ash silo (ID No. ES-49 and associated bagfilter (ID No. CD-49C), two feather meal silos (ID Nos. 01 and 02) associated bagfilters (ID Nos. 01A, 02A) and three poultry meal silos (ID Nos. 03, 04 and 05) and associated bagfilters (ID Nos. 03A, 03B, 04A, 04B, 05A and 05B)**

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
Visible emissions	20 percent opacity	15A NCAC 2D .0521

**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 ash handling system and the storage silos shall be controlled by the respective bagfilters. To assure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there 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 material collection units for leaks; and
- ii. an annual internal inspection of the bagfilters' structural integrity.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if the duct work and bagfilters 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 bagfilters; 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 bagfilters 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** [15A NCAC 2Q .0508(f)]

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

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

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

- d. The results of the monitoring shall be maintained in a 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 non-compliance with 15A NCAC 2D .0521 if these records are not retained.

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

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

**D. One (1) rendering plant operation consisting of:**

- a) **one continuous hydrolyzer (30,000 pounds per hour process rate, ID No. 28) controlled by the following:**
  - i) **one air cooled steam condenser (ID No. CD-01E) in series with**
  - ii) **one fixed throat venturi scrubber (pressure range of 0.5 to 3.0 inches of water, ID No. CD-25) utilizing water as the scrubbing medium in series with**
  - iii) **one packed tower wet scrubber (pressure range of 4.4 to 6.5 inches of water, ID No. 16C) utilizing a scrubbing medium as approved by the DAQ**
- b) **one continuous meat cooker (ID No. 24R) controlled by the following:**
  - i) **three air cooled steam condensers (ID Nos. CD-01B, CD-01C and CD-01D) in series with**
  - ii) **a venturi scrubber (ID No. VS1) in series with**
  - iii) **a high intensity scrubber (ID No. HIS1)**
- c) **one continuous meat cooker (ID No. 23R) controlled by the following:**
  - i) **one air cooled steam condenser (ID No. CD-01A) in series with**
  - ii) **a venturi scrubber (ID No. VS1) in series with**
  - iii) **a high intensity scrubber (ID No. HIS1)**
- d) **one feather meal dryer (ID No. 6) controlled by the following:**
  - i) **one simple cyclone (ID No. 6CN1) in series with**
  - ii) **one air cooled steam condenser (ID No. CD-01E) in series with**
  - iii) **one venturi scrubber (ID No. CD-25) in series with**
  - iv) **one packed bed scrubber (pressure range of 4.4 to 6.5 inches of water, ID No. 16C) utilizing a scrubbing medium as approved by the DAQ**
- e) **one feather meal dryer (ID No. 7) controlled by the following:**
  - i) **one simple cyclone (ID No. 7CN1) in series with**
  - ii) **one air cooled steam condenser (ID No. CD-01E) in series with**
  - iii) **one venturi scrubber (ID No. CD-25)**
  - iv) **one packed bed scrubber (pressure range of 4.4 to 6.5 inches of water, ID No. 16C) utilizing a scrubbing medium as approved by the DAQ**
- f) **one meat building (room air) odor control system (ID No. 17) controlled by one crossflow scrubber (pressure range of 4.5 to 6.5 inches of water, ID No. 17C) utilizing a scrubbing medium as approved by the DAQ**
- h) **one blood storage tank (ID No. 40; 25,000 gallon capacity,) controlled by the following:**
  - i) **one packed tower wet scrubber (pressure range of 4.4 to 6.5 inches of water, ID No. 16C) utilizing a scrubbing medium as approved by the DAQ**

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
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Odor	<b>State-enforceable only (2.2 A)</b>	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 D.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 rendering sources above shall be controlled by their respective control devices including the condensers (**ID Nos. CD-01A, CD-01B, CD-01C, CD-01D, CD-01E and 27C1**), venturi scrubbers (**ID Nos. CD-25 and VS1**), simple cyclones (**ID Nos. 6CN1 and 7CN1**), crossflow scrubber (**ID No. 17C**), packed tower scrubber (**ID No. 16C**) and the high intensity scrubber (**ID No. HIS1**). 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 condensers (**ID Nos. CD-01A, CD-01B, CD-01C, CD-01D, CD-01E and 27C1**), venturi scrubbers (**ID Nos. CD-25 and VS1**), simple cyclones (**ID Nos. 6CN1 and 7CN1**), crossflow scrubber (**ID No. 17C**), packed tower scrubber (**ID No. 16C**) and the high intensity scrubber (**ID No. HIS1**).

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if the duct work, condensers (**ID Nos. CD-01A, CD-01B, CD-01C, CD-01D, CD-01E and 27C1**), venturi scrubbers (**ID Nos. CD-25 and VS1**), simple cyclones (**ID Nos. 6CN1 and 7CN1**), crossflow scrubber (**ID No. 17C**), packed tower scrubber (**ID No. 16C**) and the high intensity scrubber (**ID No. HIS1**) 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 non-compliance with 15A NCAC 2D .0515 if these records are not retained.

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

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

- c. To assure compliance, once a day the Permittee shall observe the emission points of this source for any visible emissions above normal. The daily observation must be made for each week of the calendar year period to ensure compliance with this requirement. The Permittee shall be allowed three (3) days of absent observations per semi-annual period. If visible emissions from this source are observed to be above normal, the Permittee shall either:
  - i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
  - ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .0501(c)(8) is below the limit given in **Section 2.1 D.2. a** above.If the above-normal emissions are not corrected per (i) above or if the demonstration in (ii) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0521.

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

- d. The results of the monitoring shall be maintained in a 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 non-compliance with 15A NCAC 2D .0521 if these records are not retained.

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

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

**E. One No. 2 fuel oil-fired boiler, 85 million Btu per hour maximum heat input capacity (ID No. ES-39)**

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

<b>Regulated Pollutant</b>	<b>Limits/Standards</b>	<b>Applicable Regulation</b>
Particulate matter	0.2319 pounds per million Btu	15A NCAC 2D .0503
Sulfur dioxide	0.5 percent by weight (sulfur content)	15A NCAC 2D .0524 (40 CFR Part 60 Subpart Dc)
Visible emissions	20 percent opacity	15A NCAC 2D .0524 (40 CFR Part 60 Subpart Dc)
Sulfur dioxide	Less than 40 tons per consecutive 12-month period	15A NCAC 2Q .0317 (PSD avoidance)

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

- a. Emissions of particulate matter from the combustion of No. 2 fuel oil, that are discharged from the boiler into the atmosphere shall not exceed **0.2319 pounds per million Btu heat input**. [15A NCAC 2D .0503(a)]

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

- b. If emissions testing is required, the testing shall be performed in accordance General Condition JJ. If the results of this test are above the limit given in Section 2.1 E.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 No. 2 fuel oil in the boiler (**ID No. ES-39**).

**2. 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 Part 60 Subpart Dc, including Subpart A "General Provisions." [15A NCAC 2D .0524]

**Emission Limitation** [15A NCAC 2D .0524]

- b. The maximum sulfur content of any fuel oil received and burned in the boiler shall not exceed **0.5 percent by weight** (40 CFR 60.42c(d))
- c. Visible emissions from this source shall not be more than **20 percent opacity** when averaged over a six-minute period, except for one six-minute period per hour of not more than 27 percent opacity. (40 CFR 60.43c(c))

**Testing** [15A NCAC 2D .0524]

- d. The initial compliance test for **sulfur dioxide emissions** required under 40 CFR 60.8 shall consist of the certification from the fuel supplier, as described under 40 CFR 60.48c(f)(1), (2), (3), as applicable. (40 CFR 60.44c(h))
- e. The owner or operator of an affected facility subject to the PM and/or **opacity** standards under 40 CFR 60.43c shall conduct an initial performance test as required under 40 CFR 60.8, and shall conduct subsequent

performance tests as requested by the administrator. Method 9 (6 minute average of 24 observations) shall be used for determining the opacity of stack emissions. The Permittee shall be deemed in non-compliance with 15A NCAC 2D .0524 if the required tests are not performed, or if the test shows visible emissions in excess on the limit in Section 2.1 E.2.c. of this permit. [40 CFR 60.45c(a), 40 CFR 60.45c(a)(7)].

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

- f. Sulfur dioxide emissions shall be monitored as follows:
  - i. Distillate Oil - Fuel supplier certification shall be used to demonstrate compliance as described under 40 CFR 60.46c(e).  
If the sulfur content of any shipment of fuel exceeds the limit in 2.1 E.2.b above, the permittee shall be deemed in noncompliance with 15A NCAC 2D .0524.
- g. No monitoring/recordkeeping/reporting is required for **visible emissions** from the firing of No. 2 fuel oil in the boiler (**ID No. ES-39**).

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

- h. In addition to any other recordkeeping required by 40 CFR 60.48c or recordkeeping requirements of the EPA, the Permittee shall record and maintain records of the amounts of No. 2 fuel oil fired during each month. The Permittee shall be deemed in non-compliance with 15A NCAC 2D .0524 if these records are not retained.

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

- i. In addition to any other reporting required by 40 CFR 60.48c or notification requirements to the EPA, the Permittee is required to **NOTIFY** the DAQ in **writing** of the following:
  - i. a summary report, acceptable to the Regional Air Quality Supervisor, of the sulfur content of the distillate oil combusted, submitted within 30 days after the end of each reporting period, due by January 30 and July 30 of each calendar year for the preceding six-month period as follows:
    - (A) Distillate Oil - Fuel supplier certification shall include the following information:
      - (1) the name of the oil supplier;
      - (2) a statement from the oil supplier that the oil complies with the specification under the definition of distillate oil in 40 CFR 60.41c; and
      - (3) a certified statement signed by the owner or operator of an affected facility that the records of fuel supplier certification submitted represents all of the fuel fired during the reporting period.
  - ii. All instances of deviations from the requirements of this permit must be clearly identified.

**3. 15A NCAC 2Q .0317: AVOIDANCE CONDITIONS (PSD Avoidance)**

- a. In order to avoid applicability of 15A NCAC 2D .0530(g), the boiler (**ID No. ES-39**) shall discharge into the atmosphere less than **40 tons of sulfur dioxide per consecutive 12-month period**. [15A NCAC 2D .0530]
- b. **Testing** [15A NCAC 2Q .0501 (c)(4)]  
If emissions testing is required, the Permittee shall perform such testing in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 E.3.a., the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.
- c. **Monitoring/Recordkeeping** [15A NCAC 2Q .0508 (f)]  
The Permittee shall keep monthly records of the amount of fuel used and the sulfur content, including certification of the fuel sulfur content, in a log (written or in electronic format). The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the sulfur content of the fuel is not monitored.
- d. The use of fuel in boiler (**ID No. ES-39**) shall be limited such that sulfur dioxide emissions shall not exceed 40 tons for any consecutive 12-month period. Calculations shall be made monthly and recorded in a log (written or in electronic format), according to the following formula:

$$X = \frac{Z \times 142 \text{ lbs sulfur dioxide} \times S}{100}$$

(1000 gallon fuel oil)\*2000lb/Ton

Where: X is the total actual emissions of sulfur dioxide, in tons  
Z is the amount of No. 2 fuel oil used in the boilers, in gallons  
S is the percent sulfur in the No. 2 fuel oil

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 2.1 E.3.a.

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

- e. The Permittee shall submit a semi-annual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December, and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following:
- i. The monthly sulfur dioxide and particulate emissions for the previous 17 months. The emissions must be calculated for each of the 12-month periods over the previous 17 months;
  - ii. The monthly quantities of No. 2 fuel oil consumed for the previous 17 months; and
  - iii. The average sulfur content of the No. 2 fuel oil.

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

**A. One (1) rendering plant operation including:**

- a) **one continuous hydrolyzer (30,000 pounds per hour process rate, ID No. 28) controlled by the following:**
  - i) **one air cooled steam condenser (ID No. CD-01E) in series with**
  - ii) **one fixed throat venturi scrubber (pressure range of 0.5 to 3.0 inches of water, ID No. CD-25) utilizing water as the scrubbing medium in series with**
  - iii) **one packed tower wet scrubber (pressure range of 4.4 to 6.5 inches of water, ID No. 16C) utilizing a scrubbing medium as approved by the DAQ.**
- b) **one continuous meat cooker (ID No. 24R) controlled by the following:**
  - i) **three air cooled steam condensers (ID Nos. CD-01B, CD-01C and CD-01D) in series with**
  - ii) **a venturi scrubber (ID No. VS1) in series with**
  - iii) **a high intensity scrubber (ID No. HIS1)**
- c) **one continuous meat cooker (ID No. 23R) controlled by the following:**
  - i) **one air cooled steam condenser (ID No. CD-01A) in series with**
  - ii) **a venturi scrubber (ID No. VS1) in series with**
  - iii) **a high intensity scrubber (ID No. HIS1)**
- d) **one feather meal dryer (ID No. 6) controlled by the following:**
  - i) **one simple cyclone (ID No. 6CN1) in series with**
  - ii) **one air cooled steam condenser (ID No. CD-01E) in series with**
  - iii) **one venturi scrubber (ID No. CD-25)**
  - iv) **one packed bed scrubber (pressure range of 4.4 to 6.5 inches of water, ID No. 16C) utilizing a scrubbing medium as approved by the DAQ.**
- e) **one feather meal dryer (ID No. 7) controlled by the following:**
  - i) **one simple cyclone (ID No. 7CN1) in series with**
  - ii) **one air cooled steam condenser (ID No. CD-01E) in series with**
  - iii) **one venturi scrubber (ID No. CD-25)**
  - iv) **one packed bed scrubber (pressure range of 4.4 to 6.5 inches of water, ID No. 16C) utilizing a scrubbing medium as approved by the DAQ.**

- f) **one meat building (room air) odor control system (ID No. 17) controlled by one crossflow scrubber (pressure range of 4.5 to 6.5 inches of water, ID No. 17C) utilizing a scrubbing medium as approved by the DAQ.**
- g) **two fat centrifuges (ID Nos. 30A and 30B), and the fat centrifuge holding tank (ID No. 31), three (3) expeller presses (ID Nos. 34A, 34B, and 34C), the Drain H<sub>2</sub>O tank (ID No. 33), condensate junction box (ID No. 35), wash down tank (ID No. 36), raw blood tank (ID No. 37), four fat storage tanks (ID Nos. 38A, 38B, 38C, and 38D) controlled in series with**
  - i) **a venturi scrubber (ID No. VS1) in series with**
  - ii) **a high intensity scrubber (ID No. HIS1)**
- h) **one blood storage tank (ID No. 40; 25,000 gallon capacity,) controlled by the following:**
- i) **one packed tower wet scrubber (pressure range of 4.4 to 6.5 inches of water, ID No. 16C) utilizing a scrubbing medium as approved by the DAQ**

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Odors	Odorous emissions must be controlled; <b>State-enforceable only</b>	15A NCAC 2D .0539

**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 rendering sources within the facility shall be controlled by their respective control devices as shown in 2.2 A.
- b. Measurement and Recording Requirements: The Permittee processing or incinerating gases, vapors, or gas-entrained matter as required by condition 2.2 A.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.
The data shall be available to the Director upon request.
- 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.
- e. To ensure compliance with 15A NCAC 2D .0539, the Permittee shall:
  - i. Wash raw material truck trailers interiors after unloading and before they are moved to a staging or parking area;
  - ii. Daily clean up spilled or leaked materials, to include materials in the parking area as well as in other areas not controlled with odor control equipment;
  - iii. Conduct monthly odor surveys of processes and storage areas around the plant in order to minimize odors and record the results of the survey. At a minimum, the survey should include areas identified for improvement and corrective action taken;
  - iv. Wash the raw material parking areas and concrete roadways as deemed necessary or at least weekly with a four hour response time to spills when daily temperatures are above freezing and record the washes in a log; and
  - v. Maintain a negative pressure in the meat processing area. Entrance doors to the meat processing area may be opened for the entrance and exit of trucks, and the doors may remain open as long as a negative pressure is maintained.
- f. Reporting: The Permittee shall submit quarterly reports by January 30, April 30, July 30, and October 30 of each calendar year relative to the processing of material. Each quarterly report shall include:
  - i. Calendar dates covered in that period; and
  - ii. Exceedences of the 24-hour processing time limit.
- 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 business days after conditions are encountered that cause or may cause release of excessive and malodorous gases or vapors.
- h. Compliance Statement: The Permittee shall continue to operate in compliance as described in the compliance determination submitted before January 1, 1997, pursuant to 15A NCAC 2D .0539(h)(1). The Division of Air Quality may request addition information at a later date upon further review of the compliance documentation. The final compliance date under 15A NCAC 2D .0539(h)(2)(D) shall be no later than July 1, 2001.
- i. Control Device Maintenance, Monitoring, Recordkeeping and Reporting Requirement: To prevent odorous emissions from the facility the optimum control efficiency of the condensers (**ID Nos. CD-01A, CD-01B, CD-01C, CD-01D, CD-01E and 27C1**), venturi scrubbers (**ID Nos. CD-25 and VS1**), simple cyclones (**ID Nos. 6CN1 and 7CN1**), crossflow scrubber (**ID No. 17C**), packed tower scrubber (**ID No. 16C**) and the high intensity scrubber (**ID No. HIS1**) 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 and recording of pressure drop (see description above for ranges) across all scrubbers and of pH (range = 4.0 to 6.0 for radox and range = 9.0 to 11.0 for sodium hypochlorite) of the liquid leaving all scrubbers;
- ii. weekly inspection of the scrubbers including spray nozzles, packing material, and chemical 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. semi-annual 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.

- j. Control Device Testing: To prevent odorous emissions the air flow rate from the scrubber 16C should not exceed 75,000 cfm. To ensure that the air flow rate does not exceed 75,000 cfm, the Permittee shall conduct an air flow rate for this control device, with all the doors open. During the testing if the flow rate exceeds 75,000 cfm, the ducts should be adjusted to bring down the flow rate to 75,000 cfm. The position of the ducts to be marked, where the flow rate does not exceed 75,000 cfm. The following protocol should be followed for this testing:
  - i. The Permittee shall conduct the test by January 5, 2004.
  - ii. The Permittee shall notify the Regional Supervisor of the specific test dates at least 45 days prior to testing in order to afford the DAQ the opportunity to have an observer on-site during the sampling program.
  - iii. During the testing, the Permittee shall operate the emission source(s) under maximum normal operating conditions, with all the doors open.

**B. 15A NCAC 2D .0614: Compliance Assurance Monitoring (CAM)**

- a. Emission unit: coal-fired boiler (**ID No. 21**)
- b. Applicable regulations: 15A NCAC 2D .0503 and 2D .0521

Emission limits: 0.2458 pounds per million Btu heat input (2D .0503, particulate matter)  
 20 percent opacity (2D .0521, visible emissions)

Control Technology: **bagfilter and multicyclone** (ID Nos. 21C2, and 21C1)

**Monitoring Approach** The key elements of the monitoring approach are presented in the following table.

	Indicator No. 1	Indicator No. 2	Inspection/Maintenance
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	<b>Indicator No. 1</b>	<b>Indicator No. 2</b>	<b>Inspection/Maintenance</b>
<p>Indicator [64.6(c)(1)(i)]</p> <p>Measurement Approach [64.6(c)(1)(ii)]</p>	<p>Pressure drop (<math>\Delta P</math>) across bagfilter (21C2) and multicyclone (21C1)</p> <p>A pressure drop indicator shall be used to measure <math>\Delta P</math> across the bagfilter (21C2) and multicyclone (21C1)</p>	<p>Visible emissions</p> <p>Visible emissions will be monitored daily using EPA Reference Method 9 for visual observations only.</p>	<p>Monthly maintenance and structural integrity inspection. Maintenance and inspection as recommended by the manufacturer, or if there is no manufacturer's inspection and maintenance inspection and maintenance requirement shall include an annual internal inspection of the bagfilter's and multicyclone structural integrity and a monthly external visual inspection of the system duct work and the material collection unit for leaks.</p>
<p>Indicator Range [64.6(c)(2)]</p> <p>Bypass [64.3(a)(2)]</p> <p>Quality Improvement Plan (QIP) Threshold [64.8]</p>	<p>An excursion for the bagfilter or multicyclone is defined as any operating condition where the <math>\Delta P</math> is less than 0.5" H<sub>2</sub>O or greater than 8" H<sub>2</sub>O based on a hourly average</p> <p>If the <math>\Delta P</math> falls below 0.5" H<sub>2</sub>O, the possibility of bypass is investigated.</p> <p>Hourly average <math>\Delta P</math> readings outside range 3 times within a 6-month period</p>	<p>An excursion for visible emissions is defined as the presence of any visible emissions above normal.</p> <p>Visible emissions greater than normal for more than 30 minutes 3 times within a 6-month period</p>	
<p>Performance criteria/data representativeness [64.6(c)(1)(iii)]</p> <p>Verification of operational status [64.3(b)(1)]</p>	<p><math>\Delta P</math>: minimum acceptable accuracy of pressure drop indicator per manufacturers specifications</p> <p>N/A</p>	<p>Measurements are made at the exhaust stack exit</p> <p>N/A</p>	<p>Inspections are made at the control system</p>

	<b>Indicator No. 1</b>	<b>Indicator No. 2</b>	<b>Inspection/Maintenance</b>
QA/QC Practices and Criteria [64.3(b)(3)]	<p><math>\Delta P</math>: visual inspections and routine maintenance per manufacturers recommendations</p> <p>Bagfilter and multicyclone: inspect and maintain per manufacturers recommendations</p>	The observer will be certified in Method 9 procedures	Qualified personnel perform inspection
Monitoring frequency [64.3(b)(4)]	$\Delta P$ measured continuously	A modified Method 9 for visual observations is performed daily	Monthly inspection
Data collection procedures [64.3(b)(4)(iii)]	Recorded manually once per 24-hour period	Visible emission observation is documented by observer	Records are maintained to document monthly inspections and required maintenance.

	<b>Indicator No. 1</b>	<b>Indicator No. 2</b>	<b>Inspection/Maintenance</b>
Recordkeeping and Reporting [64.9]	Excursion reports and corrective actions, boiler shift reports, I&M logs for ΔP monitoring and recording system, bagfilter and multicyclone inspection and maintenance reports  Semi-annual reports include:  Investigative and corrective action report,  Date, time, and duration of excursion,  Cause of and corrective actions taken to eliminate excursion, and  Measures taken to prevent re-occurrence  A description of the actions taken to implement a QIP (as applicable)	Excursion reports and corrective actions, visible emission observation logs  Semi-annual reports include:  Investigative and corrective action report,  Date, time, and duration of excursion  Cause of and corrective actions taken to eliminate excursion, and  Measures taken to prevent re-occurrence  A description of the actions taken to implement a QIP (as applicable)	

**C. Facility-wide**

<b>Limits/Standards</b>	<b>Applicable Regulation</b>
Less than 10 tons per year of any hazardous air pollutant (HAP) and Less than 25 tons per year of a combination of HAPs	15A NCAC 2Q .0317 for avoidance of 15A NCAC 2D .1111

**1. LIMITATION TO AVOID BEING MAJOR FOR HAZARDOUS AIR POLLUTANTS**

- a. In order to remain classified a minor source for hazardous air pollutants (HAP) and avoid applicability of this regulation, facility emissions shall be less than:

- i. 10 tons per year of each individual HAP, and
- ii. 25 tons per year of all HAP combined.

The Permittee shall be deemed in noncompliance with this condition and 2D .1111(Subpart DDDDD entitled “National Emission Standards for Industrial Boilers and Process Heaters”) if the HAP emissions exceed this limit.

- b. To assure compliance with the above emission limits:
  - i. The amount of coal burned at boiler (**ID No. 21**) shall not exceed 29,688 tons per 12-month period,
  - ii. The coal chlorine content shall not exceed 249 parts per million (ppm) on a dry basis.

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

- c. To assure compliance with the above limits, the Permittee shall monitor and record:
  - i. The chlorine content of each coal shipment using ASTM Method D6721,
  - ii. The amount of coal burned each month and for the 12-month period ending on that month,
  - iii. The average firing rate of the boiler per month (in units of million Btu per hour), and
  - iv. The resulting HAP emissions per month. HCl emissions shall be calculated using an emission factor of 0.64 lb/ton of coal fired.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1111 if HAP emissions are not monitored or records are not maintained or if any limits in Section 2.2 C.1. of this permit are exceeded.

- d. The Permittee shall keep a record of the applicability determination on site at the source for a period of five years after the determination, or until the source becomes an affected source. The determination must include the analysis demonstrating why the Permittee believes the source is unaffected pursuant to 40 CFR Part 63.10(b)(3). The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1111 if the records are not maintained.

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

- e. The Permittee shall submit to the Regional Supervisor, Division of Air Quality, each quarter, a report summarizing HAP emissions containing the following:
  - i. Greatest quantity in pounds of an individual HAP emitted:
    - A. For each month during the quarter, and
    - B. For each 12-month period ending on each month during the quarter using a 12-month rolling average;
  - ii. Pounds of all HAP emitted:
    - A. For each month during the quarter, and
    - B. For each 12-month period ending on each month during the quarter using a 12-month rolling average.

### **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(i)(16)]**

1. Terms not otherwise defined in this permit shall have the meaning assigned to such terms as defined in 15A NCAC 2D and 2Q.
2. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are binding and enforceable pursuant to NCGS 143-215.114A and 143-215.114B, including assessment of civil and/or criminal penalties. Any unauthorized deviation from the conditions of this permit may constitute grounds for revocation and/or enforcement action by the DAQ.
3. This permit is not a waiver of or approval of any other Department permits that may be required for other aspects of the facility which are not addressed in this permit.
4. This permit does not relieve the Permittee from liability for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted facility, or from penalties therefore, nor does it allow the Permittee to cause pollution in contravention of state laws or rules, unless specifically authorized by an order from the North Carolina Environmental Management Commission.
5. Except as identified as state-only requirements in this permit, all terms and conditions contained herein shall be enforceable by the DAQ, the EPA, and citizens of the United States as defined in the Federal Clean Air Act.

6. Any stationary source of air pollution shall not be operated, maintained, or modified without the appropriate and valid permits issued by the DAQ, unless the source is exempted by rule. The DAQ may issue a permit only after it receives reasonable assurance that the installation will not cause air pollution in violation of any of the applicable requirements. A permitted installation may only be operated, maintained, constructed, expanded, or modified in a manner that is consistent with the terms of this permit.

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

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

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

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

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

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

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

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

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

F. **Circumvention** - STATE ENFORCEABLE ONLY

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

G. **Permit Modifications**

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

**H. Changes Not Requiring Permit Modifications**

1. Section 502(b)(10) Changes [15A NCAC 2Q .0523(a)]
  - a. "Section 502(b)(10) changes" means changes that contravene an express permit term or condition. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.
  - b. The Permittee may make Section 502(b)(10) changes without having the permit revised if:
    - i. the changes are not a modification under Title I of the Federal Clean Air Act;
    - ii. the changes do not cause the allowable emissions under the permit to be exceeded;
    - iii. the Permittee notifies the Director and EPA with written notification at least seven days before the change is made; and
    - iv. the Permittee shall attach the notice to the relevant permit.
  - c. The written notification shall include:
    - i. a description of the change;
    - ii. the date on which the change will occur;
    - iii. any change in emissions; and
    - iv. any permit term or condition that is no longer applicable as a result of the change.
  - d. Section 502(b)(10) changes shall be made in the permit the next time that the permit is revised or renewed, whichever comes first.
2. Off Permit Changes [15A NCAC 2Q .0523(b)]

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

  - a. the change affects only insignificant activities and the activities remain insignificant after the change; or
  - b. the change is not covered under any applicable requirement.
3. Emissions Trading [15A NCAC 2Q .0523(c)]

To the extent that emissions trading is allowed under 15A NCAC 2D, including subsequently adopted maximum achievable control technology standards, emissions trading shall be allowed without permit revision pursuant to 15A NCAC 2Q .0523(c).

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

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

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

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

Excess Emissions

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

- iii. submit to the Regional Supervisor or Director within 15 days a written report as described in 15A NCAC 2D .0535(f)(3).

**Permit Deviations**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

O. **Retention of Records** [15A NCAC 2Q .0508(i)(16) and 2Q .0517(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(n)]

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

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

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

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

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

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

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

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

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

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

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

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

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

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

V. **Inspection and Entry** [15A NCAC 2Q .0508(1) and NCGS 143-215.3(a)(2)]

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

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

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

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

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

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

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

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

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

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

A construction and operating permit shall be obtained by the Permittee for any proposed new or modified facility or

emission source which is not exempted from having a permit prior to the beginning of construction or modification, in accordance with all applicable provisions of 15A NCAC 2Q .0100 and .0300.

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

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

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

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

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

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

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

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

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

FEDERALLY-ENFORCEABLE ONLY

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

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

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

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

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

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

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

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

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

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

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

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

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

1. A permit shall be reopened and revised under the following circumstances:
  - a. additional applicable requirements become applicable to a facility with remaining permit term of three or more years;
  - b. additional requirements (including excess emission requirements) become applicable to a source covered by Title IV;
  - c. the Director or EPA finds that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; or
  - d. the Director or EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
2. Any permit reopening shall be completed or a revised permit issued within 18 months after the applicable requirement is promulgated. No reopening is required if the effective date of the requirement is after the expiration of the permit term unless the term of the permit was extended pursuant to 15A NCAC 2Q .0513(c).
3. Except for the state-enforceable only portion of the permit, the procedures set out in 15A NCAC 2Q .0507, .0521, or .0522 shall be followed to reissue the permit. If the State-enforceable only portion of the permit is reopened, the procedures in 15A NCAC 2Q .0300 shall be followed. The proceedings shall affect only those parts of the permit for which cause to reopen exists.
4. The Director shall notify the Permittee at least 60 days in advance of the date that the permit is to be reopened, except in cases of imminent threat to public health or safety the notification period may be less than 60 days.
5. Within 90 days, or 180 days if the EPA extends the response period, after receiving notification from the EPA that a permit needs to be terminated, modified, or revoked and reissued, the Director shall send to the EPA a proposed determination of termination, modification, or revocation and reissuance, as appropriate.

**LL. Reporting Requirements for Non-Operating Equipment** [15A NCAC 2Q .0508(i)(16)]

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

## ATTACHMENT

### List of Acronyms

<b>AOS</b>	Alternate Operating Scenario
<b>BACT</b>	Best Available Control Technology
<b>Btu</b>	British thermal unit
<b>CEM</b>	Continuous Emission Monitor
<b>CFR</b>	Code of Federal Regulations
<b>CAA</b>	Clean Air Act
<b>DAQ</b>	Division of Air Quality
<b>DENR</b>	Department of Environment and Natural Resources
<b>EMC</b>	Environmental Management Commission
<b>EPA</b>	Environmental Protection Agency
<b>FR</b>	Federal Register
<b>GACT</b>	Generally Available Control Technology
<b>HAP</b>	Hazardous Air Pollutant
<b>MACT</b>	Maximum Achievable Control Technology
<b>NCAC</b>	North Carolina Administrative Code
<b>NCGS</b>	North Carolina General Statutes
<b>NESHAPS</b>	National Emission Standards for Hazardous Air Pollutants
<b>NO<sub>x</sub></b>	Nitrogen Oxides
<b>NSPS</b>	New Source Performance Standard
<b>OAH</b>	Office of Administrative Hearings
<b>PM</b>	Particulate Matter
<b>PM<sub>10</sub></b>	Particulate Matter with Nominal Aerodynamic Diameter of 10 Micrometers or Less
<b>POS</b>	Primary Operating Scenario
<b>PSD</b>	Prevention of Significant Deterioration
<b>SIC</b>	Standard Industrial Classification
<b>SIP</b>	State Implementation Plan
<b>SO<sub>2</sub></b>	Sulfur Dioxide
<b>tpy</b>	Tons Per Year
<b>VOC</b>	Volatile Organic Compound